



Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

7.4 Field strength of spurious emissions

7.4.1 General

This test was performed to measure field strength of spurious emissions from the EUT. Specification test limits are given in Table 7.4.1.

Table 7.4.1 Radiated spurious emissions limits

Frequency, MHz	Field strength at 3 m within restricted bands, dB(μV/m)*			Attenuation of field strength of spurious versus carrier outside restricted bands, dBc***
	Peak	Quasi Peak	Average	
0.009 – 0.090	148.5 – 128.5	NA	128.5 – 108.5**	20.0
0.090 – 0.110	NA	108.5 – 106.8**	NA	
0.110 – 0.490	126.8 – 113.8	NA	106.8 – 93.8**	
0.490 – 1.705	NA	73.8 – 63.0**	NA	
1.705 – 30.0*		69.5		
30 – 88		40.0		
88 – 216		43.5		
216 – 960		46.0		
960 – 1000		54.0		
1000 – 10 th harmonic	74.0	NA	54.0	

* - The limit for 3 m test distance was calculated using the inverse square distance extrapolation factor as follows:

$$\text{Lim}_{S_2} = \text{Lim}_{S_1} + 40 \log(S_1/S_2),$$

where S₁ and S₂ – standard defined and test distance respectively in meters.

** - The limit decreases linearly with the logarithm of frequency.

*** - The field strength 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.

7.4.2 Test procedure for spurious emission field strength measurements in 9 kHz to 30 MHz band

7.4.2.1 The EUT was set up as shown in Figure 7.4.1, energized and the performance check was conducted.

7.4.2.2 The specified frequency range was investigated with antenna connected to spectrum analyzer/ EMI receiver. To find maximum radiation the turntable was rotated 360° and the measuring antenna was rotated around its vertical axis.

7.4.2.3 The worst test results (the lowest margins) were recorded and shown in the associated plots.

7.4.3 Test procedure for spurious emission field strength measurements above 30 MHz

7.4.3.1 The EUT was set up as shown in Figure 7.4.2, energized and the performance check was conducted.

7.4.3.2 The specified frequency range was investigated with antenna connected to spectrum analyzer/ EMI receiver. To find maximum radiation the turntable was rotated 360°, the measuring antenna height was changed from 1 to 4 m, its polarization was switched from vertical to horizontal.

7.4.3.3 The worst test results (the lowest margins) were recorded and shown in the associated plots.



Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

Figure 7.4.1 Setup for spurious emission field strength measurements below 30 MHz

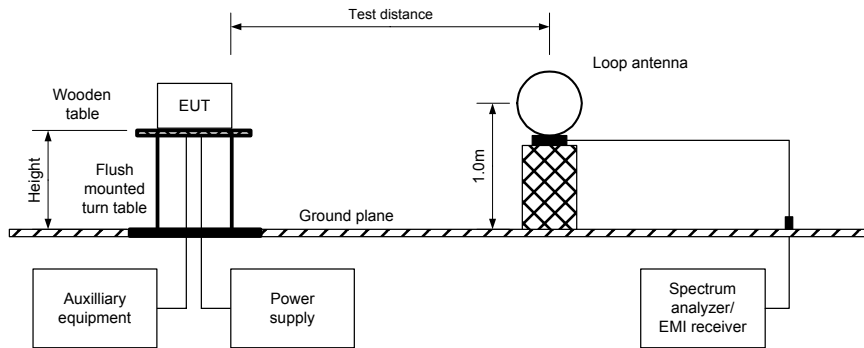
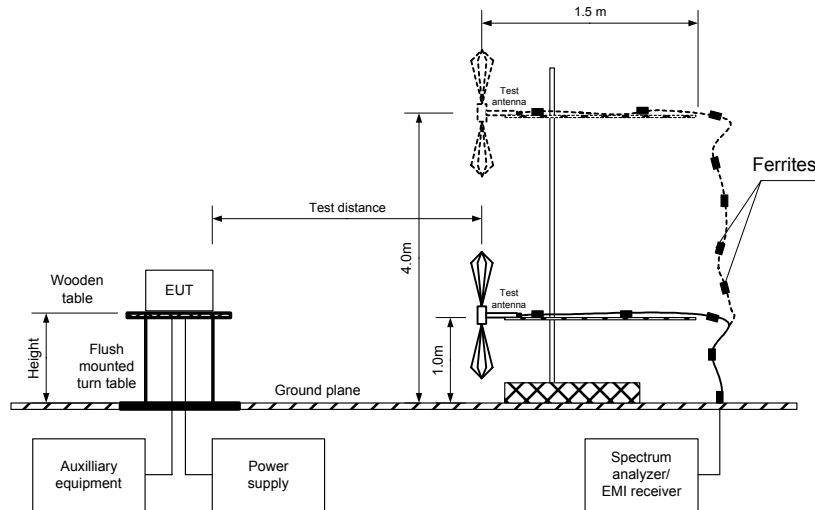


Figure 7.4.2 Setup for spurious emission field strength measurements above 30 MHz





Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

Table 7.4.2 Field strength of spurious emissions above 1 GHz within restricted bands

ASSIGNED FREQUENCY: 2400 - 2483.5 MHz
 INVESTIGATED FREQUENCY RANGE: 1000 - 25000 MHz
 TEST DISTANCE: 3 m
 MODULATION: OFDM
 MODULATING SIGNAL: BPSK (low, mid and high channels)
 BIT RATE: 3.25 Mbps(low,mid and high channels)
 DUTY CYCLE: 100 %
 TRANSMITTER OUTPUT POWER SETTINGS: Maximum
 TRANSMITTER OUTPUT POWER: According to Peak output power test result (Mid Channel)
 DETECTOR USED: Peak
 RESOLUTION BANDWIDTH: 1000 kHz
 TEST ANTENNA TYPE: Double ridged guide

Frequency MHz	Antenna		Azimuth degrees	Peak field strength(VBW=3 MHz)			Average field strength(VBW=10 Hz)				Verdict
	Polarization	Height m		Measured dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	Measured dB(μV/m)	Calculated dB(μV/m)	Limit, dB(μV/m)	Margin dB***	
Low carrier frequency											
4824.15	Vertical	1.0	0	63.16	74.0	-10.84	46.50	46.50	54.0	-7.50	Pass
Mid carrier frequency											
4873.75	Vertical	1.0	0	55.41	74.0	-18.59	39.63	39.63	54.0	-14.37	Pass
High carrier frequency											
4924.20	Vertical	1.0	0	53.71	74.0	-20.29	37.11	37.11	54.0	-16.89	Pass

*- EUT front panel refers to 0 degrees position of turntable.
 **- Margin = Measured field strength - specification limit.
 ***- Margin = Calculated field strength - specification limit,
 where Calculated field strength = Measured field strength + average factor.

Table 7.4.3 Average factor calculation

Transmission pulse		Transmission burst		Transmission train duration, ms	Average factor, dB
Duration, ms	Period, ms	Duration, ms	Period, ms		
					0

*- Average factor was calculated as follows
 for pulse train shorter than 100 ms: $Average\ factor = 20 \times \log_{10} \left(\frac{Pulse\ duration}{Pulse\ period} \times \frac{Burst\ duration}{Train\ duration} \times Number\ of\ bursts\ within\ pulse\ train \right)$
 for pulse train longer than 100 ms: $Average\ factor = 20 \times \log_{10} \left(\frac{Pulse\ duration}{Pulse\ period} \times \frac{Burst\ duration}{100\ ms} \times Number\ of\ bursts\ within\ 100\ ms \right)$

EUT was configured for 100% Duty Cycle transmission – no Average Factor was used



HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

Table 7.4.4 Field strength of spurious emissions below 1 GHz within restricted bands

ASSIGNED FREQUENCY: 2400 - 2483.5 MHz
 INVESTIGATED FREQUENCY RANGE: 0.009 – 1000 MHz
 TEST DISTANCE: 3 m
 MODULATION: OFDM
 MODULATING SIGNAL: BPSK (low, mid and high channels)
 BIT RATE: 3.25 Mbps(low,mid and high channels)
 DUTY CYCLE: 100 %
 TRANSMITTER OUTPUT POWER SETTINGS: Maximum
 TRANSMITTER OUTPUT POWER: According to Peak output power test result (Mid Channel)
 RESOLUTION BANDWIDTH: 1.0 kHz (9 kHz – 150 kHz)
 9.0 kHz (150 kHz – 30 MHz)
 120 kHz (30 MHz – 1000 MHz)
 VIDEO BANDWIDTH: > Resolution bandwidth
 TEST ANTENNA TYPE: Active loop (9 kHz – 30 MHz)
 Biconilog (30 MHz – 1000 MHz)

Frequency MHz	Peak emission, dB(µV/m)	Quasi-peak			Antenna polarization	Antenna height, m	Turn-table position**, degrees	Verdict
		Measured emission, dB(µV/m)	Limit, dB(µV/m)	Margin, dB'				
Low carrier frequency								
399.9976	31.80	28.20	46.0	-17.8	Vert	1.2	126	Pass
974.6405	39.60	37.60	54.0	-16.4	Vert	1.2	162	
Mid carrier frequency								
399.9976	31.80	28.20	46.0	-17.8	Vert	1.2	126	Pass
974.6405	39.60	37.60	54.0	-16.4	Vert	1.2	162	
High carrier frequency								
399.9976	31.80	28.20	46.0	-17.8	Vert	1.2	126	Pass
974.6405	39.60	37.60	54.0	-16.4	Vert	1.2	162	

*- Margin = Measured emission - specification limit.
 **- EUT front panel refer to 0 degrees position of turntable.

Table 7.4.5 Restricted bands

MHz	MHz	MHz	MHz	MHz	GHz
0.09 - 0.11	8.37625 - 8.38675	73 - 74.6	399.9 - 410	2690 - 2900	10.6 - 12.7
0.495 - 0.505	8.41425 - 8.41475	74.8 - 75.2	608 - 614	3260 - 3267	13.25 - 13.4
2.1735 - 2.1905	12.29 - 12.293	108 - 121.94	960 - 1240	3332 - 3339	14.47 - 14.5
4.125 - 4.128	12.51975 - 12.52025	123 - 138	1300 - 1427	3345.8 - 3358	15.35 - 16.2
4.17725 - 4.17775	12.57675 - 12.57725	149.9 - 150.05	1435 - 1626.5	3600 - 4400	17.7 - 21.4
4.20725 - 4.20775	13.36 - 13.41	156.52475 - 156.52525	1645.5 - 1646.5	4500 - 5150	22.01 - 23.12
6.215 - 6.218	16.42 - 16.423	156.7 - 156.9	1660 - 1710	5350 - 5460	23.6 - 24
6.26775 - 6.26825	16.69475 - 16.69525	162.0125 - 167.17	1718.8 - 1722.2	7250 - 7750	31.2 - 31.8
6.31175 - 6.31225	16.80425 - 16.80475	167.72 - 173.2	2200 - 2300	8025 - 8500	36.43 - 36.5
8.291 - 8.294	25.5 - 25.67	240 - 285	2310 - 2390	9000 - 9200	Above 38.6
8.362 - 8.366	37.5 - 38.25	322 - 335.4	2483.5 - 2500	9300 - 9500	

Reference numbers of test equipment used

HL 0446	HL 0521	HL 0604	HL 1984	HL 2432	HL 2909	HL 3122	HL 3123
HL 3355	HL 3441	HL 3531	HL 3532	HL 3533	HL 3616	HL 3441	

Full description is given in Appendix A.

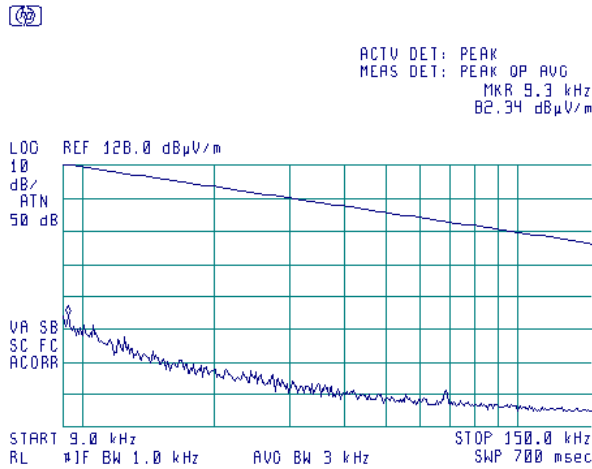


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

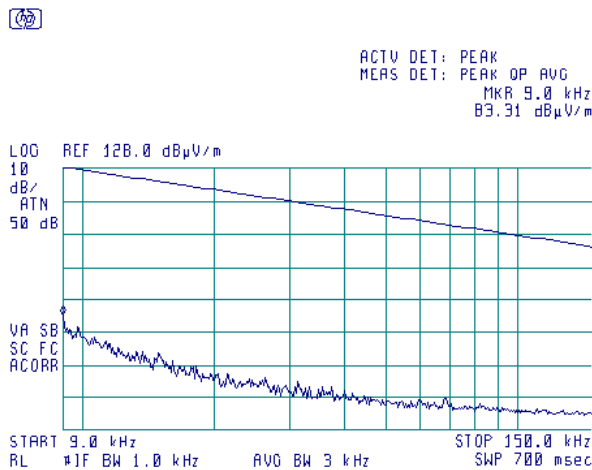
Plot 7.4.1 Radiated emission measurements from 9 to 150 kHz at the low carrier frequency

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical



Plot 7.4.2 Radiated emission measurements from 9 to 150 kHz at the mid carrier frequency

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical



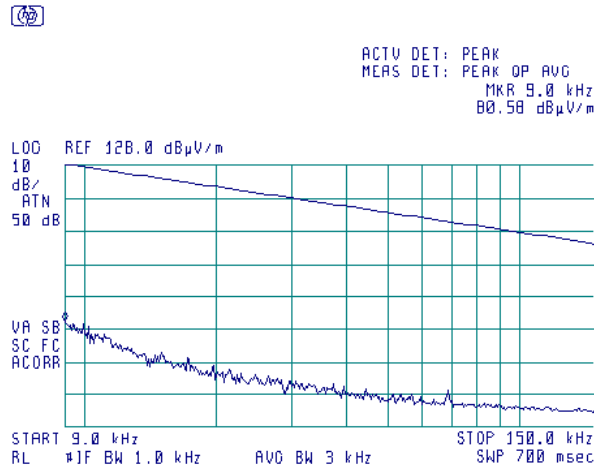


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

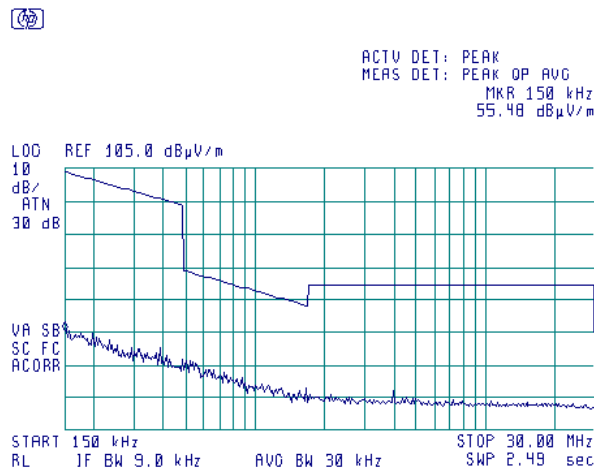
Plot 7.4.3 Radiated emission measurements from 9 to 150 kHz at the high carrier frequency

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical



Plot 7.4.4 Radiated emission measurements from 0.15 to 30 MHz at the low carrier frequency

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical



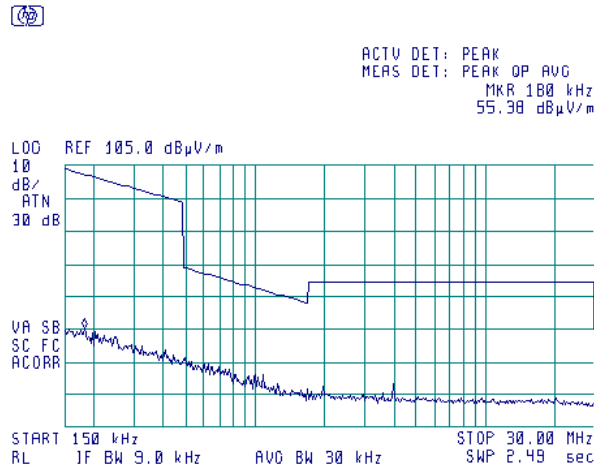


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

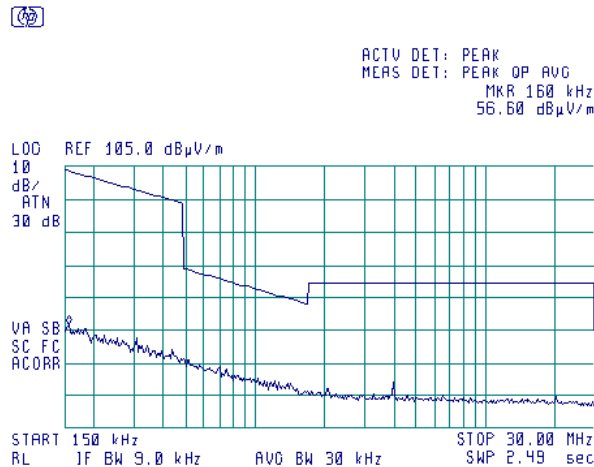
Plot 7.4.5 Radiated emission measurements from 0.15 to 30 MHz at the mid carrier frequency

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical



Plot 7.4.6 Radiated emission measurements from 0.15 to 30 MHz at the high carrier frequency

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical





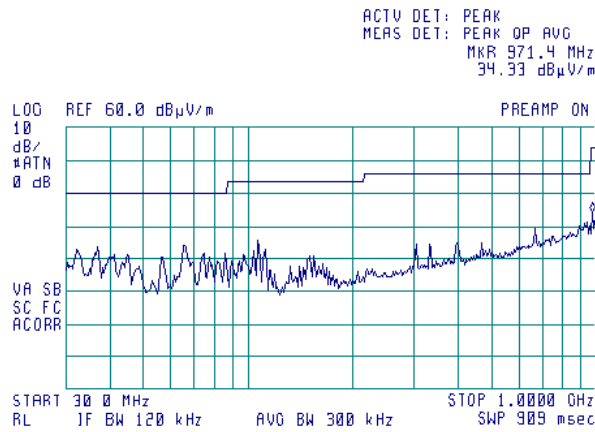
HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

Plot 7.4.7 Radiated emission measurements from 30 to 1000 MHz at the low carrier frequency

TEST SITE: Semi anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal

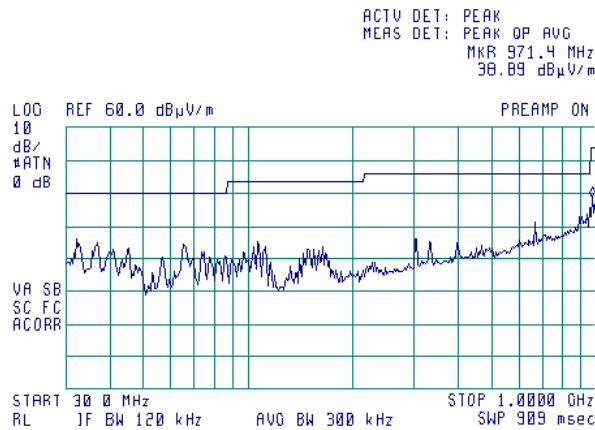
11:35:19 APR 13, 2009



Plot 7.4.8 Radiated emission measurements from 30 to 1000 MHz at the mid carrier frequency

TEST SITE: Semi anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal

11:30:25 APR 13, 2009





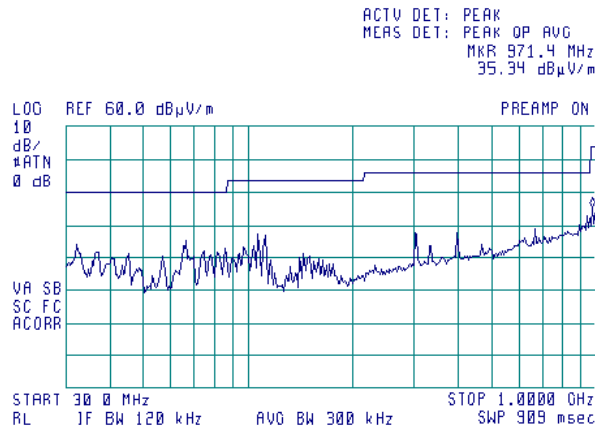
HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

Plot 7.4.9 Radiated emission measurements from 30 to 1000 MHz at the high carrier frequency

TEST SITE: Semi anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal

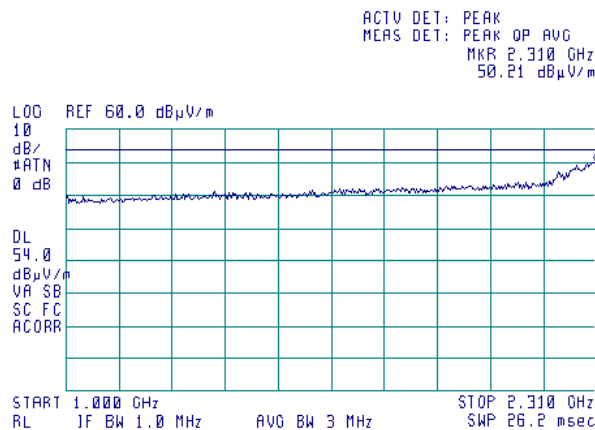
11:38:56 APR 13, 2009



Plot 7.4.10 Radiated emission measurements from 1000 to 2310 MHz at the low carrier frequency

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal

11:38:56 APR 13, 2009



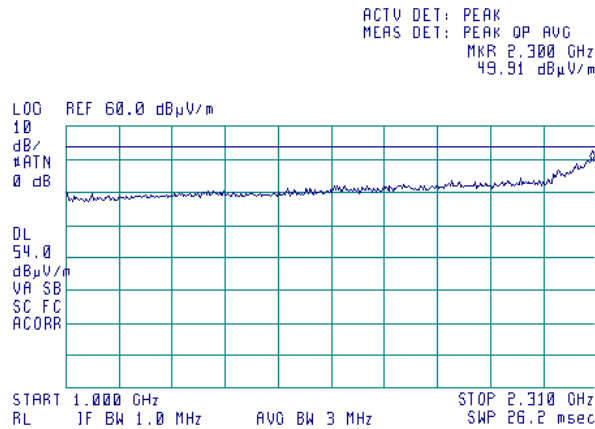


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

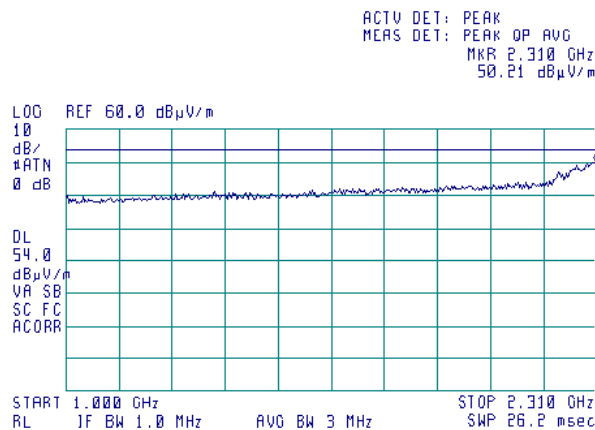
Plot 7.4.11 Radiated emission measurements from 1000 to 2310 MHz at the mid carrier frequency

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



Plot 7.4.12 Radiated emission measurements from 1000 to 2310 MHz at the high carrier frequency

TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal

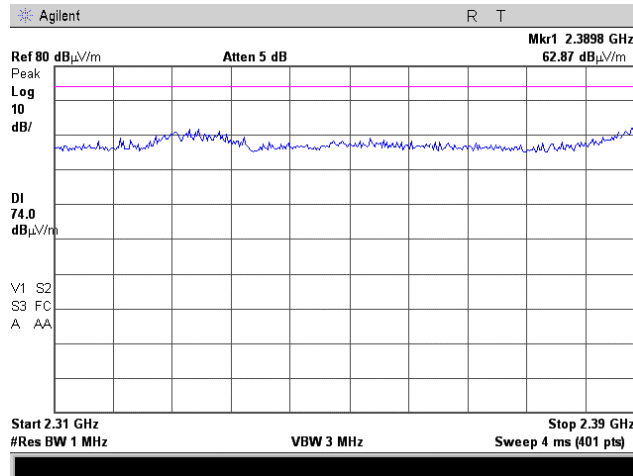




Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

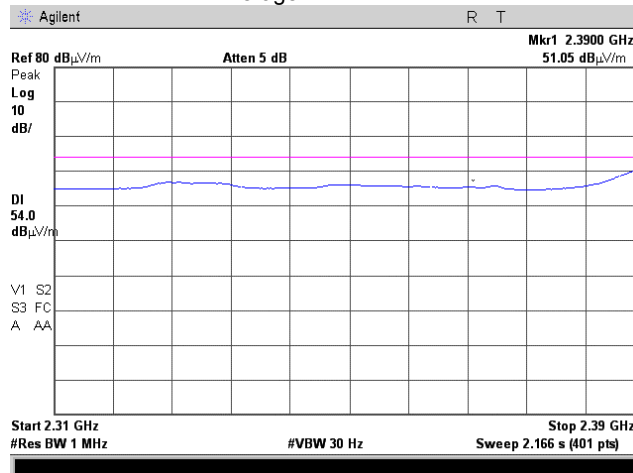
Plot 7.4.13 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak



Plot 7.4.14 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Average

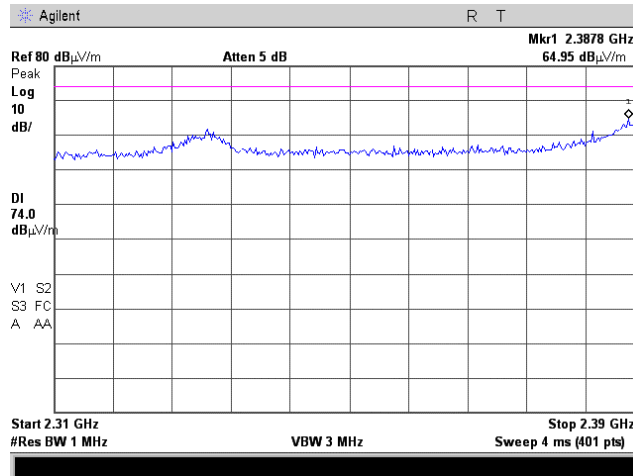




Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

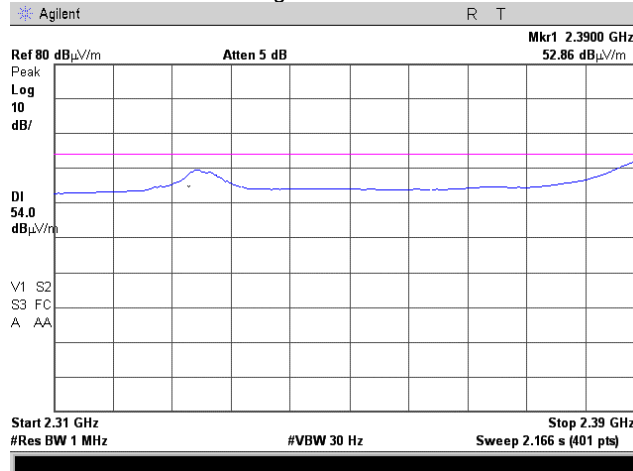
Plot 7.4.15 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM BPSK Bit rate 3.25 Mbps
DETECTOR: Peak



Plot 7.4.16 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM BPSK Bit rate 3.25 Mbps
DETECTOR: Average



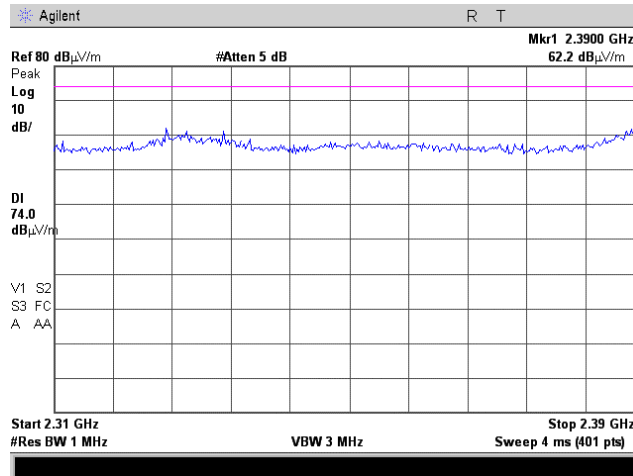


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

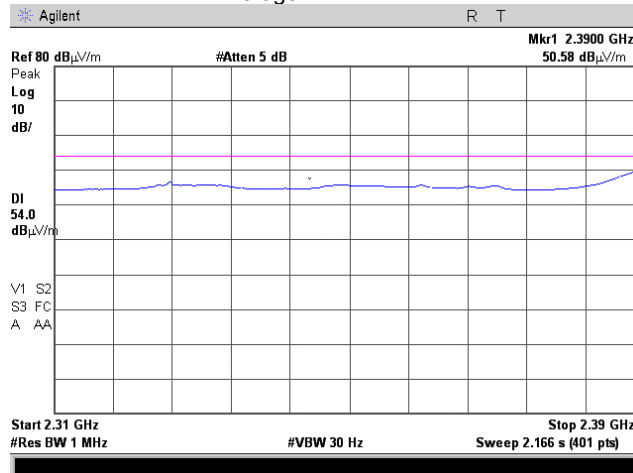
Plot 7.4.17 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
DETECTOR: Peak



Plot 7.4.18 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
DETECTOR: Average



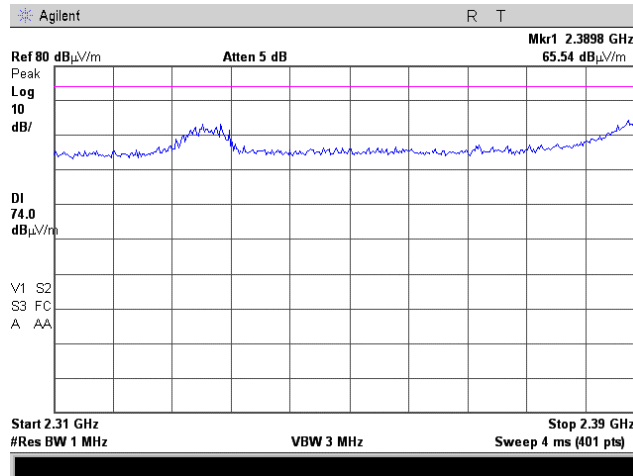


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

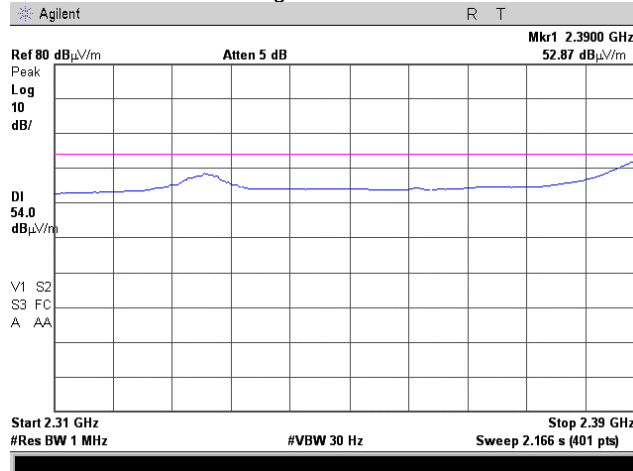
Plot 7.4.19 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
DETECTOR: Peak



Plot 7.4.20 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
DETECTOR: Average



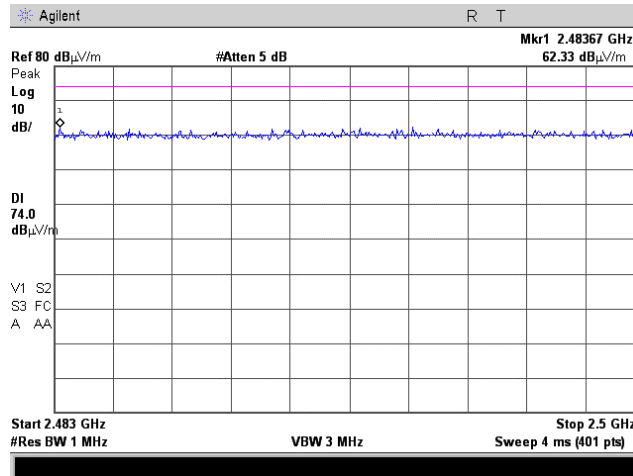


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

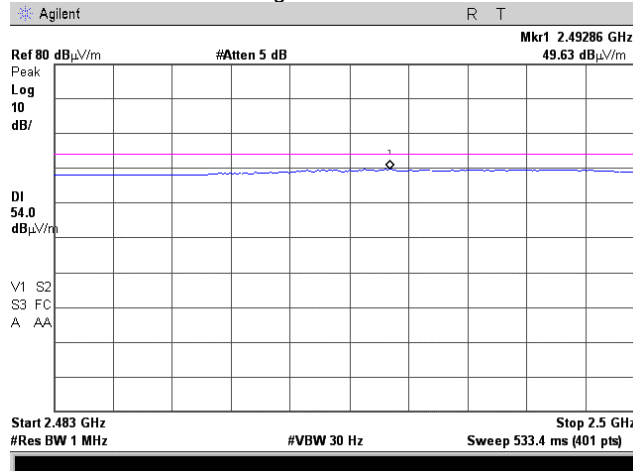
Plot 7.4.21 Radiated emission measurements from 2483.5 to 2500 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak



Plot 7.4.22 Radiated emission measurements from 2483.5 to 2500 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Average

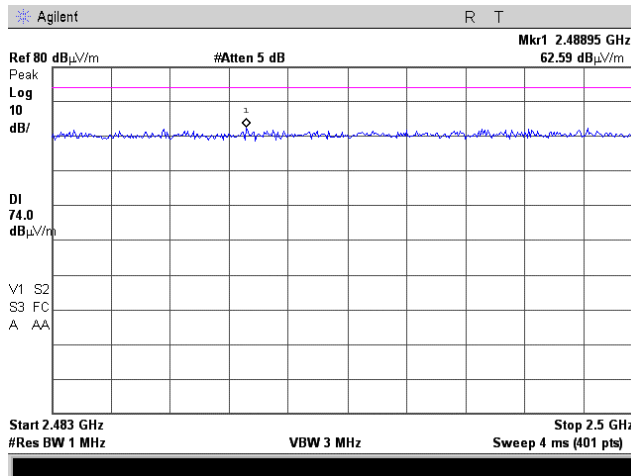




Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

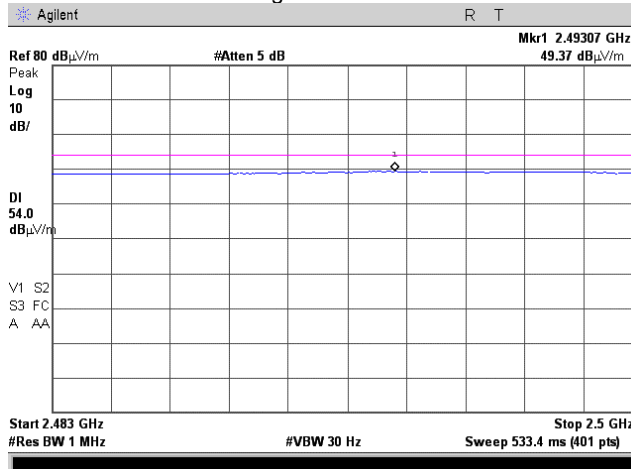
Plot 7.4.23 Radiated emission measurements from 2483.5 to 2500 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
 DETECTOR: Peak



Plot 7.4.24 Radiated emission measurements from 2483.5 to 2500 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
 DETECTOR: Average



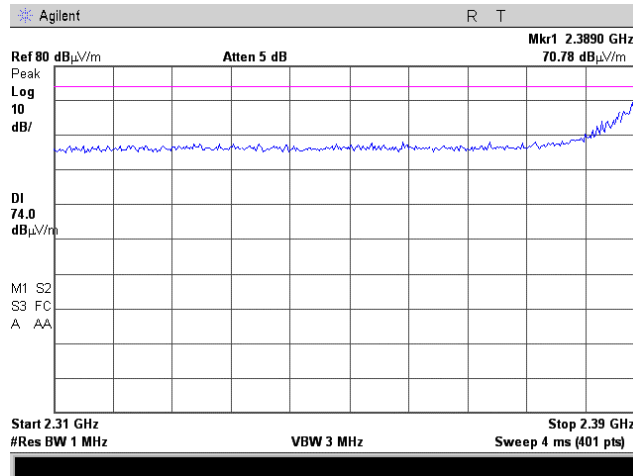


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

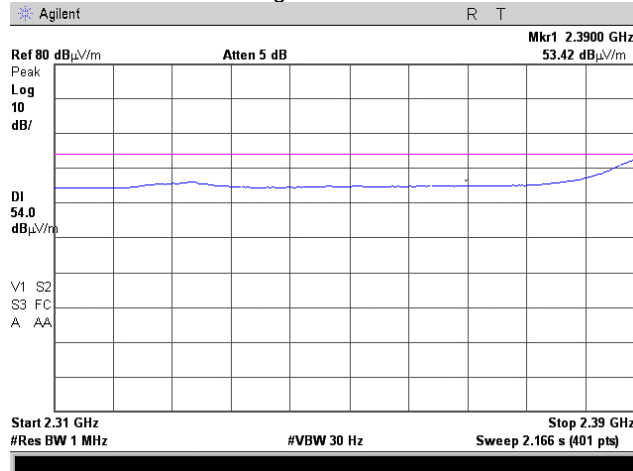
Plot 7.4.25 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM BPSK, Bit rate 6.5 Mbps
 DETECTOR: Peak



Plot 7.4.26 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM BPSK, Bit rate 6.5 Mbps
 DETECTOR: Average

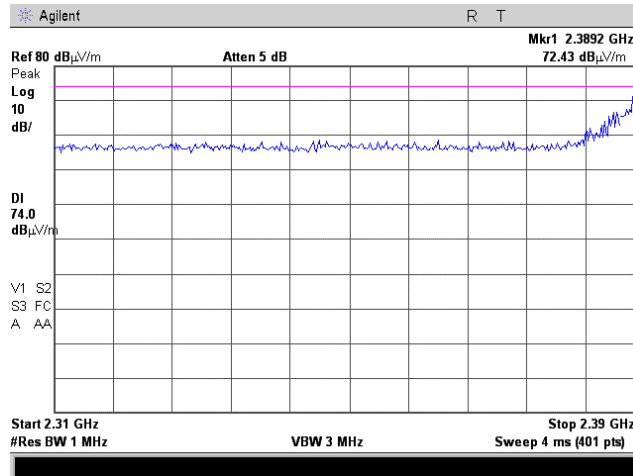




Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

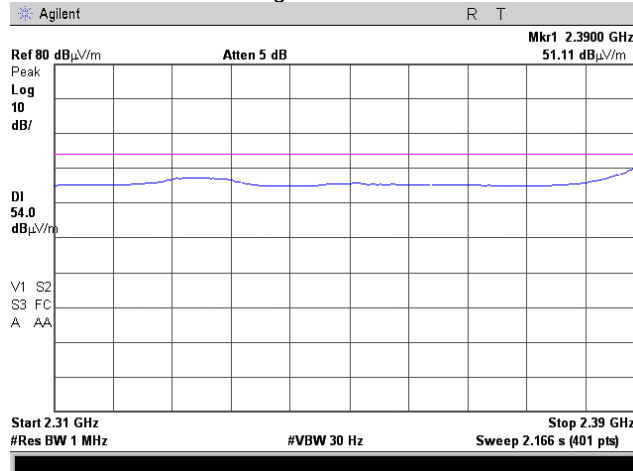
Plot 7.4.27 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM BPSK, Bit rate 6.5 Mbps
 DETECTOR: Peak



Plot 7.4.28 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM BPSK, Bit rate 6.5 Mbps
 DETECTOR: Average



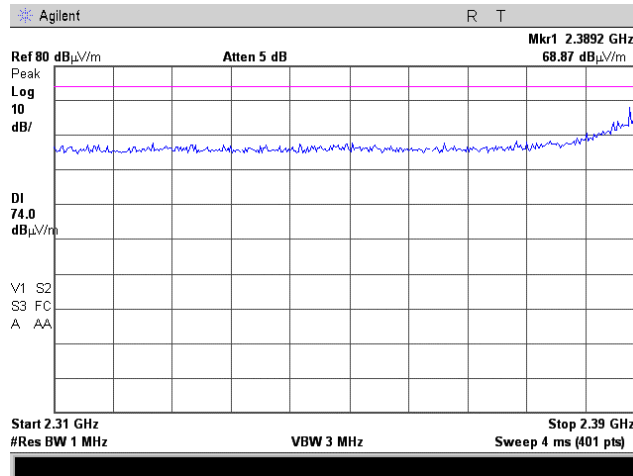


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

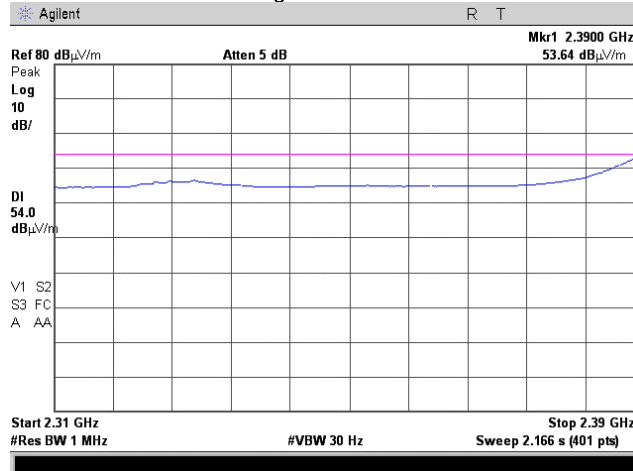
Plot 7.4.29 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
DETECTOR: Peak



Plot 7.4.30 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
DETECTOR: Average



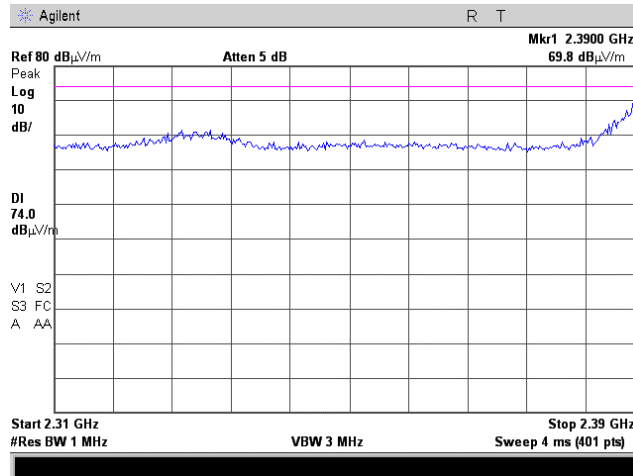


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

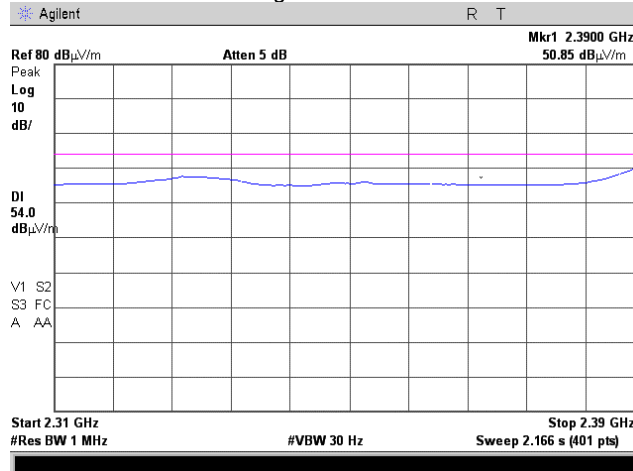
Plot 7.4.31 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
DETECTOR: Peak



Plot 7.4.32 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
DETECTOR: Average



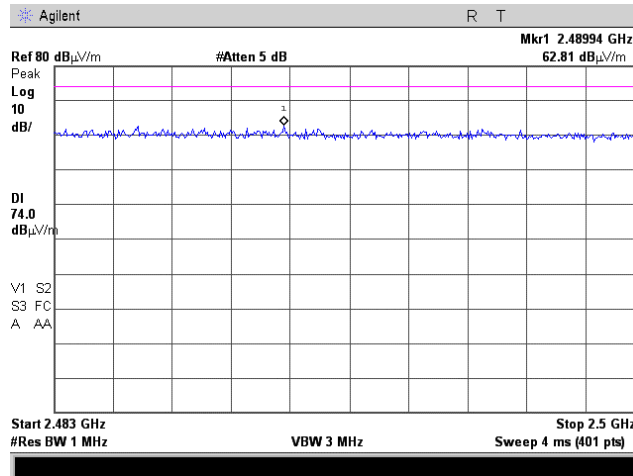


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

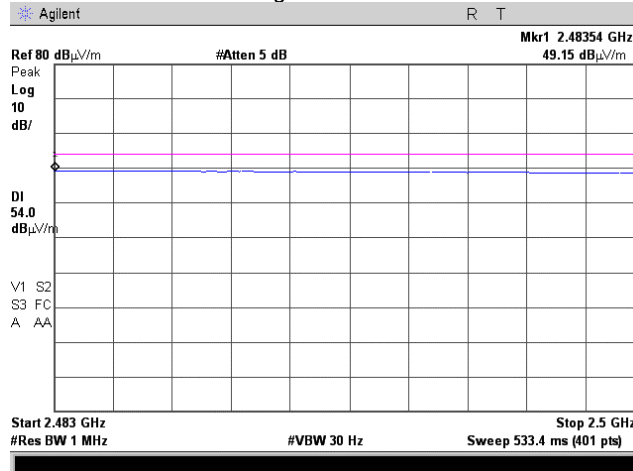
Plot 7.4.33 Radiated emission measurements from 2483.5 to 2500 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM BPSK Bit rate 6.5 Mbps
 DETECTOR: Peak



Plot 7.4.34 Radiated emission measurements from 2483.5 to 2500 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM BPSK Bit rate 6.5 Mbps
 DETECTOR: Average



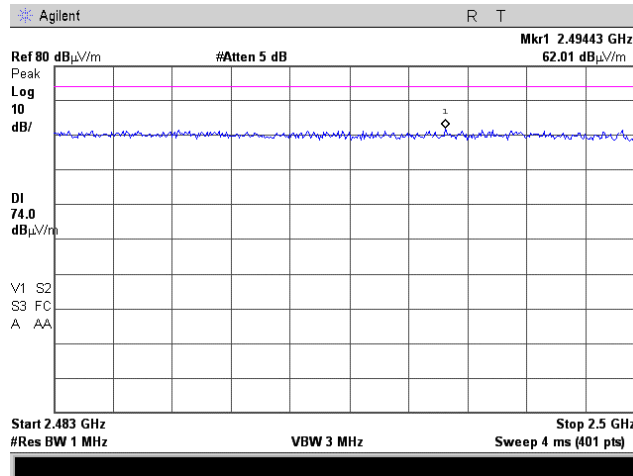


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

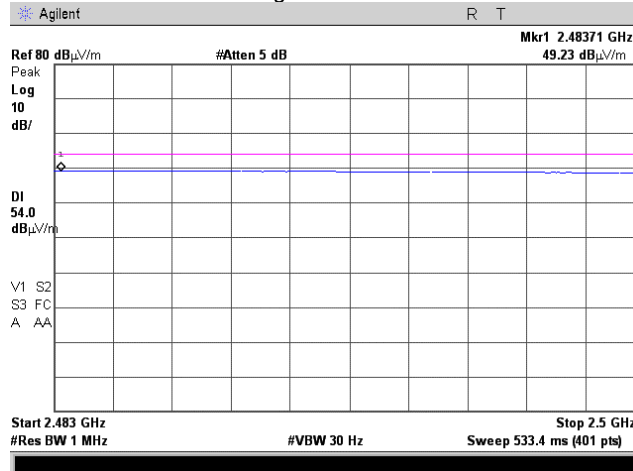
Plot 7.4.35 Radiated emission measurements from 2483.5 to 2500 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
 DETECTOR: Peak



Plot 7.4.36 Radiated emission measurements from 2483.5 to 2500 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
 DETECTOR: Average

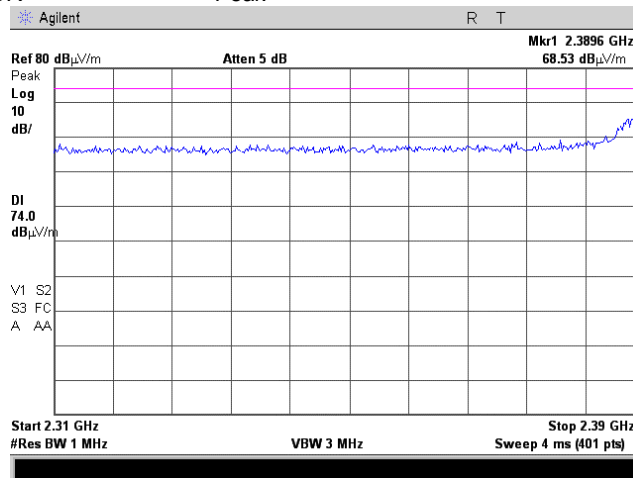




Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

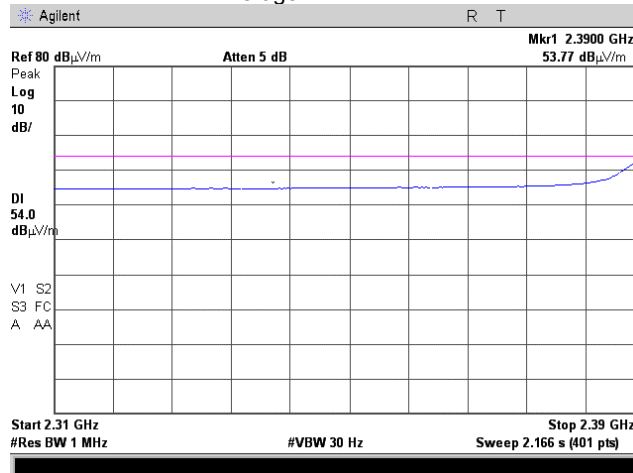
Plot 7.4.37 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM BPSK, Bit rate 13 Mbps
DETECTOR: Peak



Plot 7.4.38 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM BPSK, Bit rate 13 Mbps
DETECTOR: Average



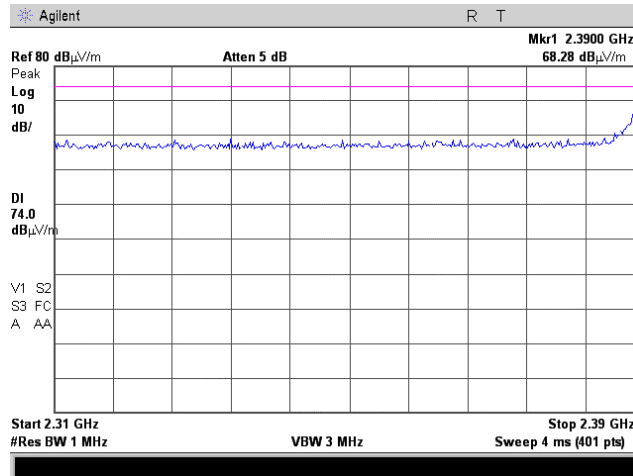


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

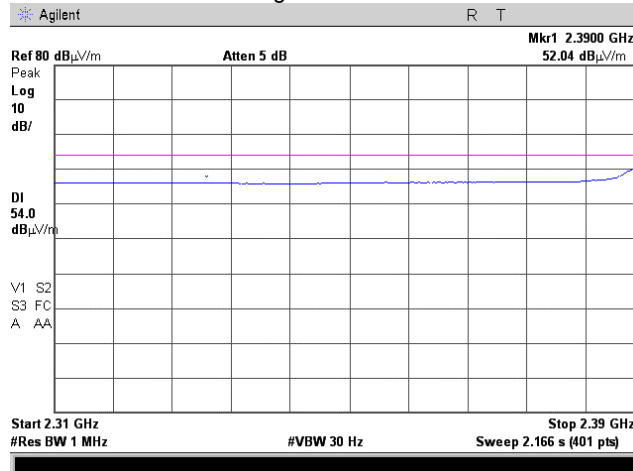
Plot 7.4.39 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM BPSK, Bit rate 13 Mbps
DETECTOR: Peak



Plot 7.4.40 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM BPSK, Bit rate 13 Mbps
DETECTOR: Average



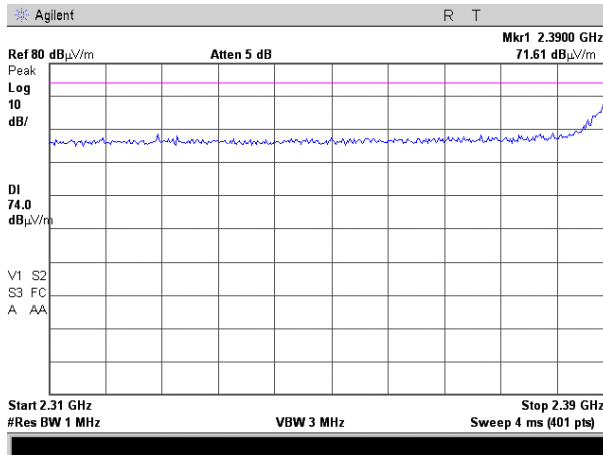


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

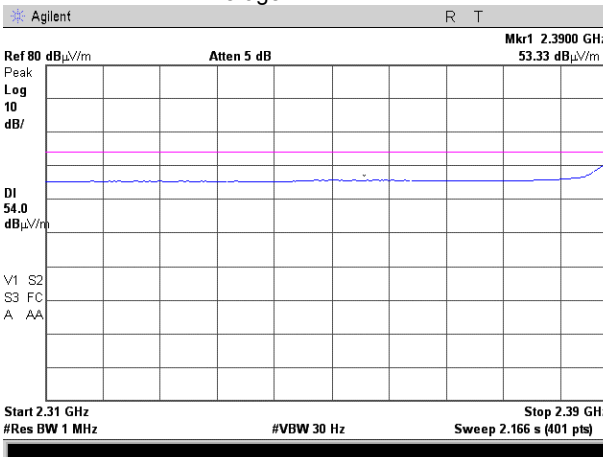
Plot 7.4.41 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Peak



Plot 7.4.42 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Average

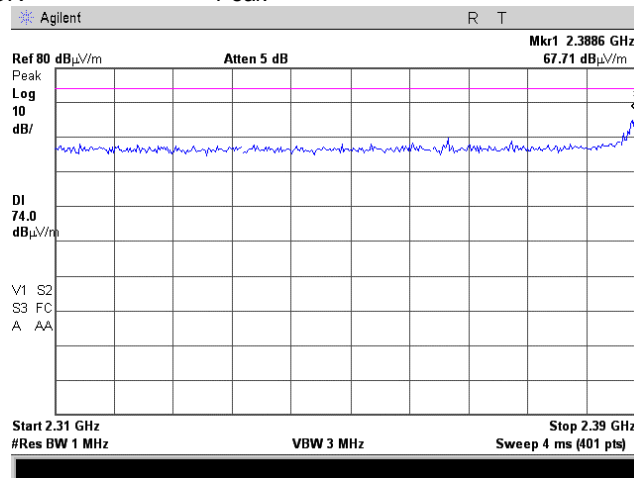




Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

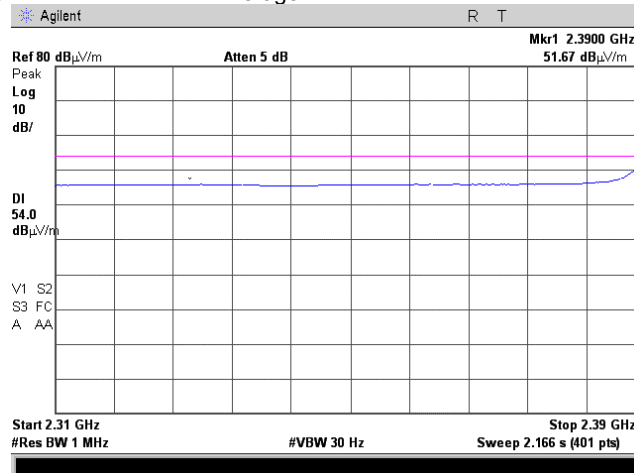
Plot 7.4.43 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Peak



Plot 7.4.44 Radiated emission measurements from 2310 to 2390 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Average



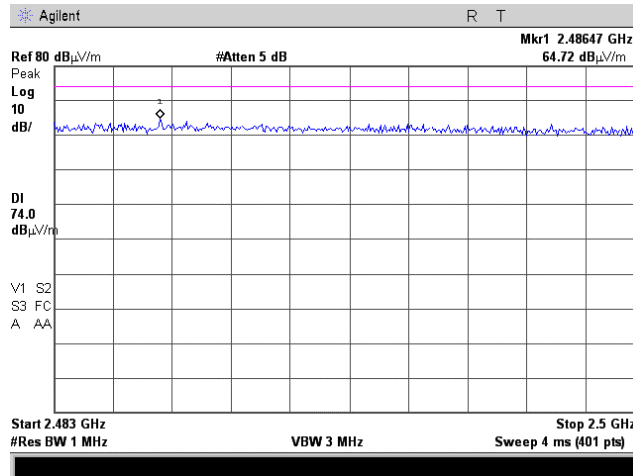


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

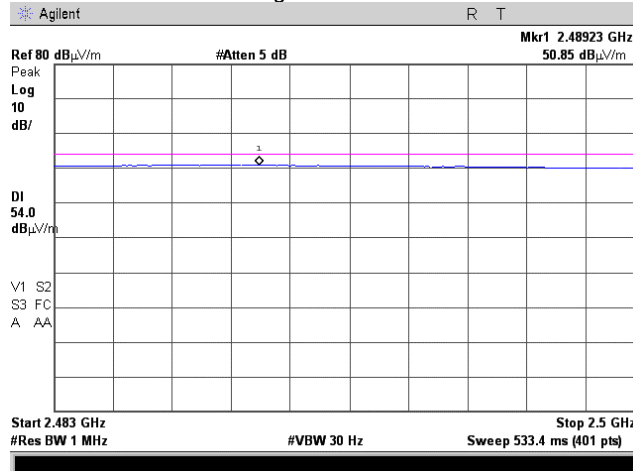
Plot 7.4.45 Radiated emission measurements from 2483.5 to 2500 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK Bit rate 13 Mbps
 DETECTOR: Peak



Plot 7.4.46 Radiated emission measurements from 2483.5 to 2500 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK Bit rate 13 Mbps
 DETECTOR: Average



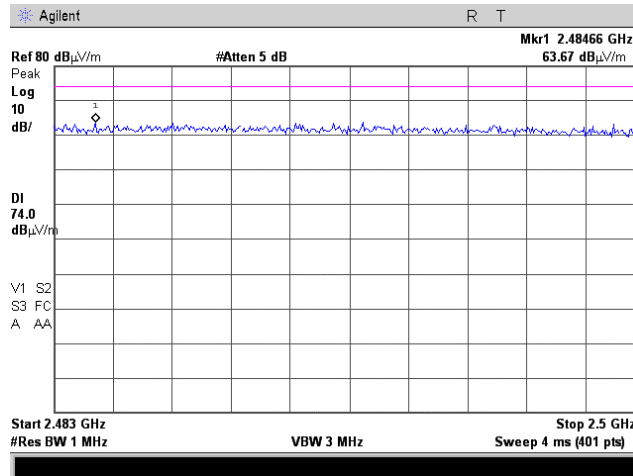


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

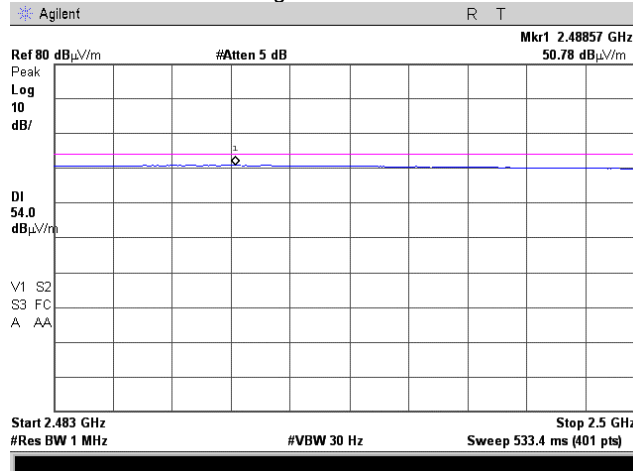
Plot 7.4.47 Radiated emission measurements from 2483.5 to 2500 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
DETECTOR: Peak



Plot 7.4.48 Radiated emission measurements from 2483.5 to 2500 MHz at the low carrier frequency 2412 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
DETECTOR: Average



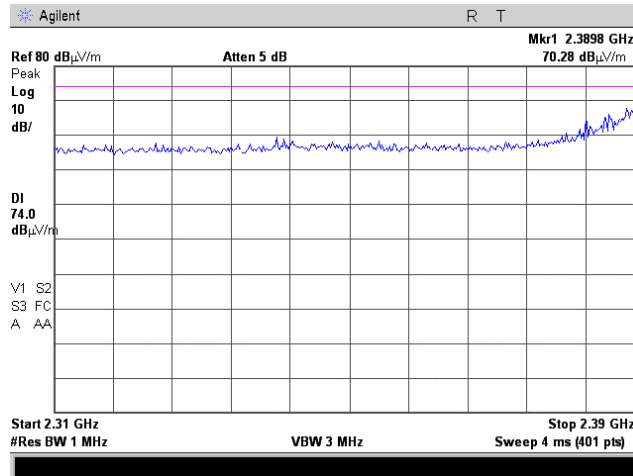


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

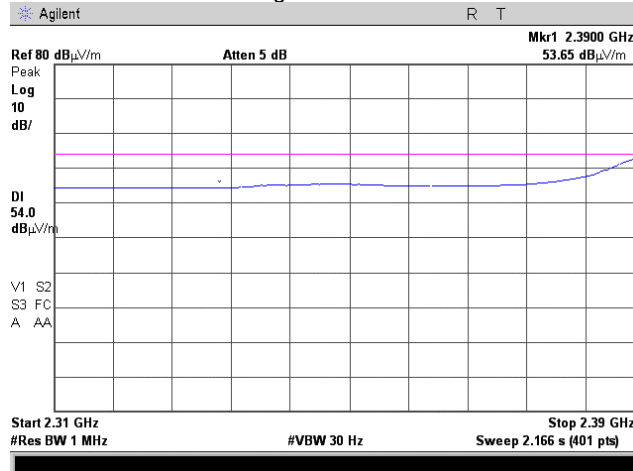
Plot 7.4.49 Radiated emission measurements from 2310 to 2390 MHz at the Low mid carrier frequency 2427MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK, Bit rate 13 Mbps
 DETECTOR: Peak



Plot 7.4.50 Radiated emission measurements from 2310 to 2390 MHz at the Low mid carrier frequency 2427MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK, Bit rate 13 Mbps
 DETECTOR: Average



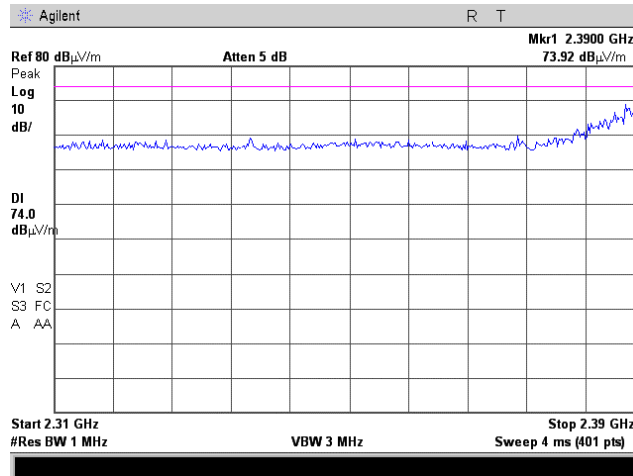


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

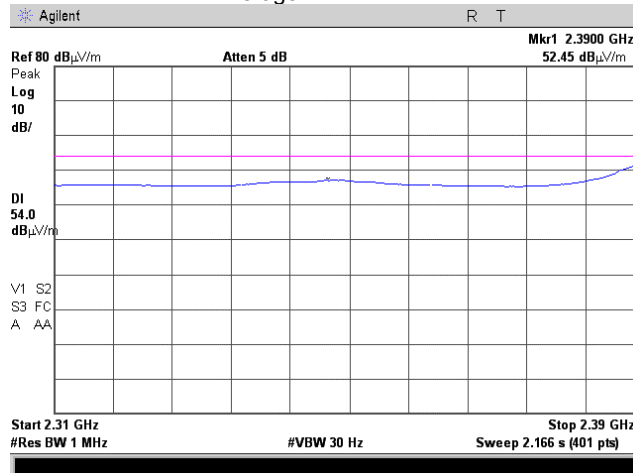
Plot 7.4.51 Radiated emission measurements from 2310 to 2390 MHz at the Low mid carrier frequency 2427MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK, Bit rate 13 Mbps
 DETECTOR: Peak



Plot 7.4.52 Radiated emission measurements from 2310 to 2390 MHz at the Low mid carrier frequency 2427MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK, Bit rate 13 Mbps
 DETECTOR: Average

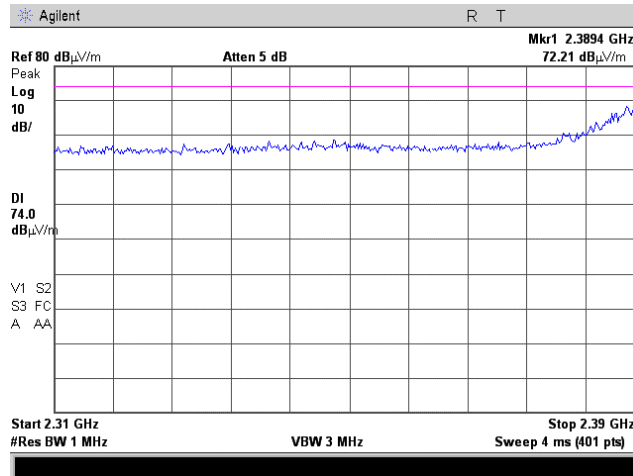




Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

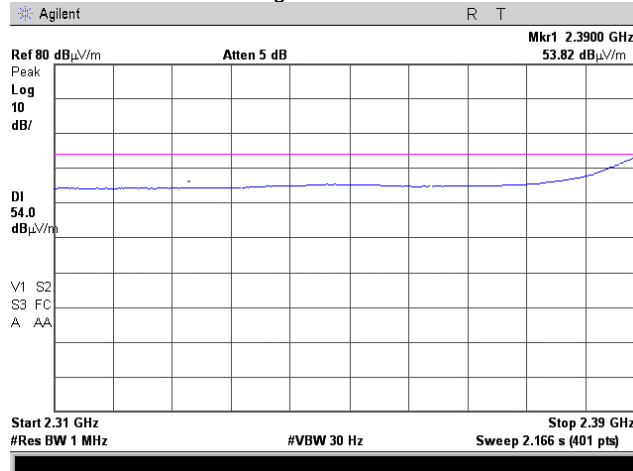
Plot 7.4.53 Radiated emission measurements from 2310 to 2390 MHz at the Low mid carrier frequency 2427MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Peak



Plot 7.4.54 Radiated emission measurements from 2310 to 2390 MHz at the Low mid carrier frequency 2427MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Average



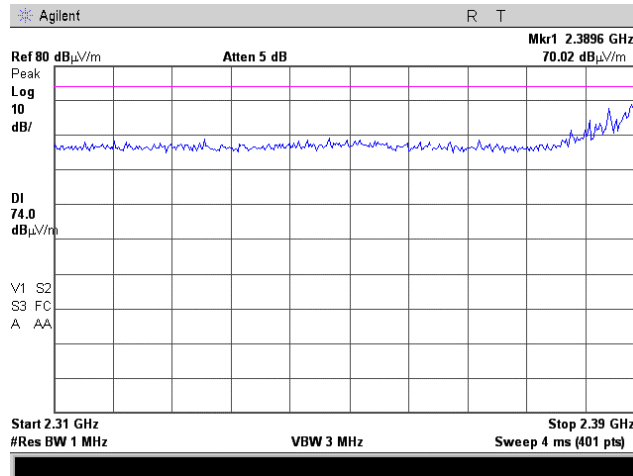


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

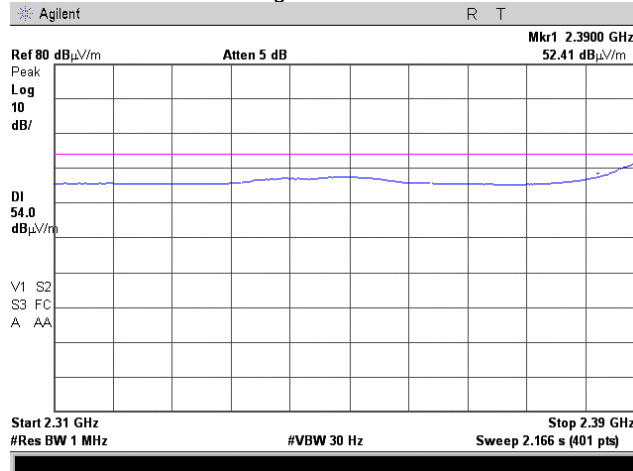
Plot 7.4.55 Radiated emission measurements from 2310 to 2390 MHz at the Low mid carrier frequency 2427MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Peak



Plot 7.4.56 Radiated emission measurements from 2310 to 2390 MHz at the Low mid carrier frequency 2427MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Average



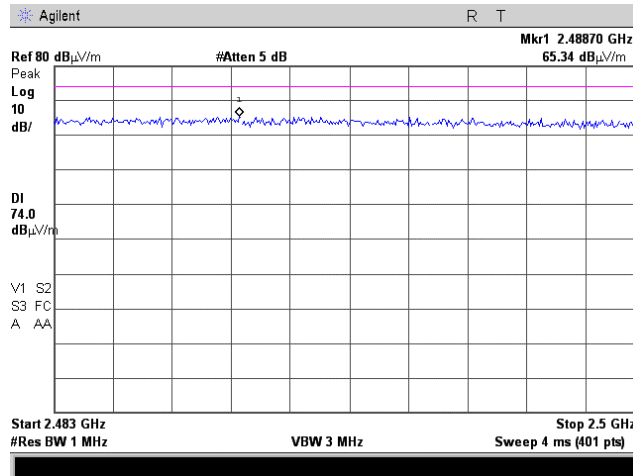


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

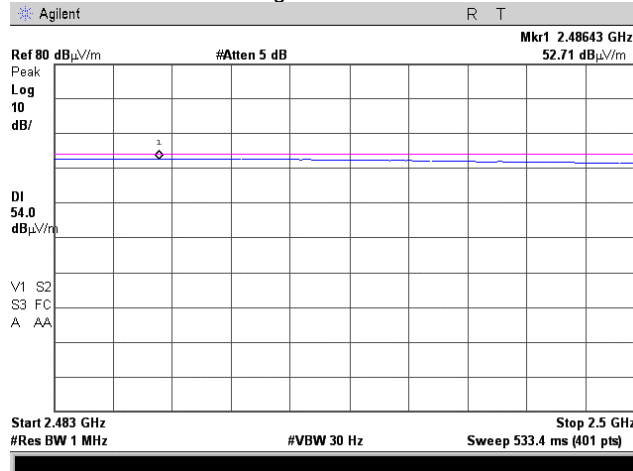
Plot 7.4.57 Radiated emission measurements from 2483.5 to 2500 MHz at the Low mid carrier frequency 2427MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM BPSK Bit rate 13 Mbps
DETECTOR: Peak



Plot 7.4.58 Radiated emission measurements from 2483.5 to 2500 MHz at the Low mid carrier frequency 2427MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM BPSK Bit rate 13 Mbps
DETECTOR: Average



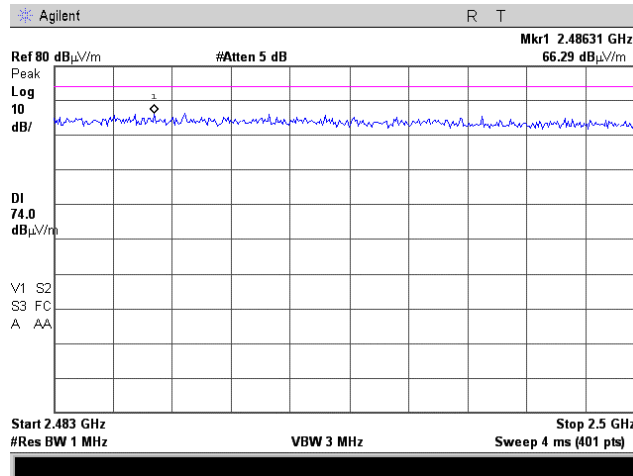


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

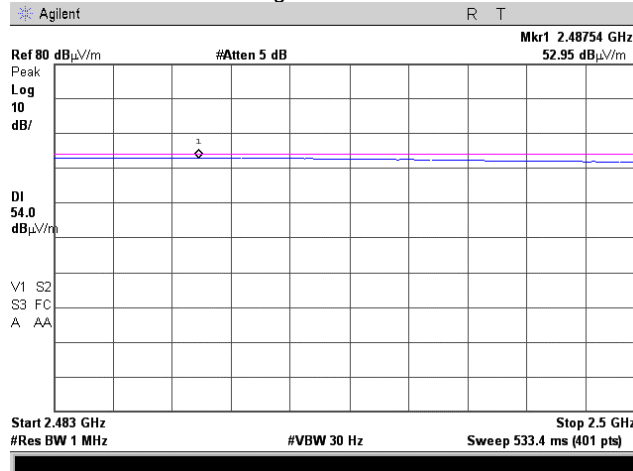
Plot 7.4.59 Radiated emission measurements from 2483.5 to 2500 MHz at the Low mid carrier frequency 2427MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
DETECTOR: Peak



Plot 7.4.60 Radiated emission measurements from 2483.5 to 2500 MHz at the Low mid carrier frequency 2427MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
DETECTOR: Average



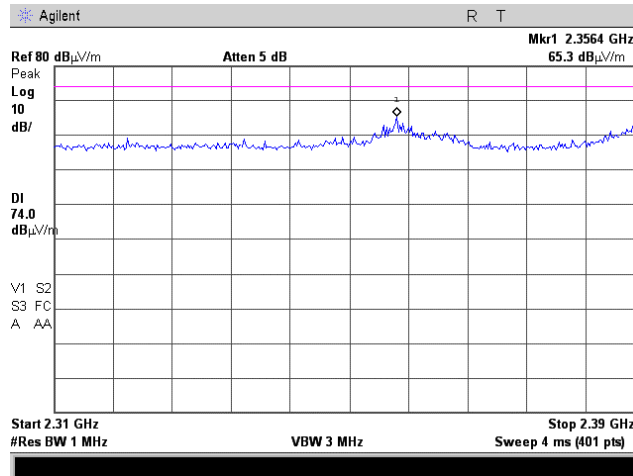


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

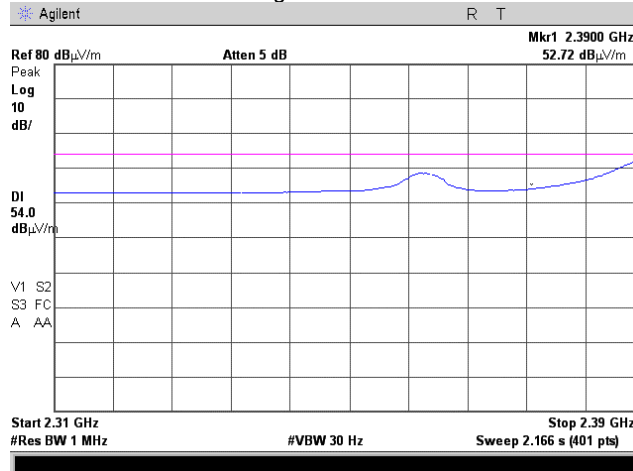
Plot 7.4.61 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM BPSK Bit rate 3.25 Mbps
DETECTOR: Peak



Plot 7.4.62 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM BPSK Bit rate 3.25 Mbps
DETECTOR: Average

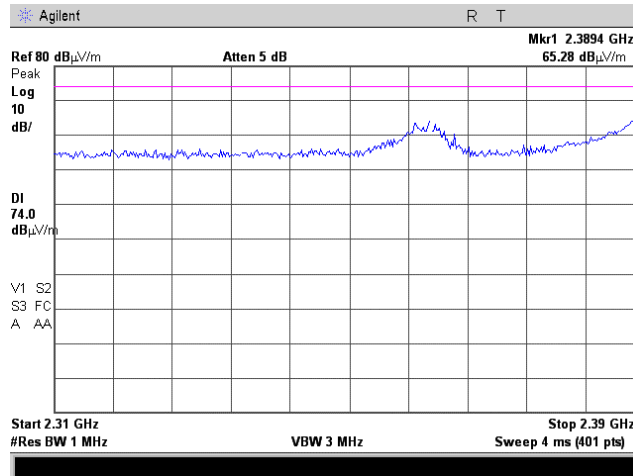




Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

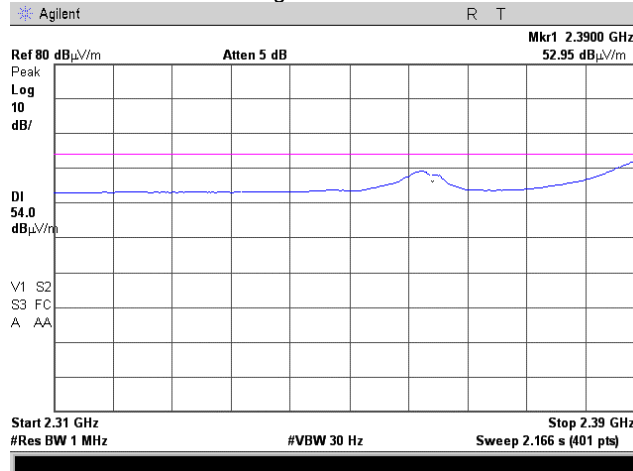
Plot 7.4.63 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
DETECTOR: Peak



Plot 7.4.64 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
DETECTOR: Average



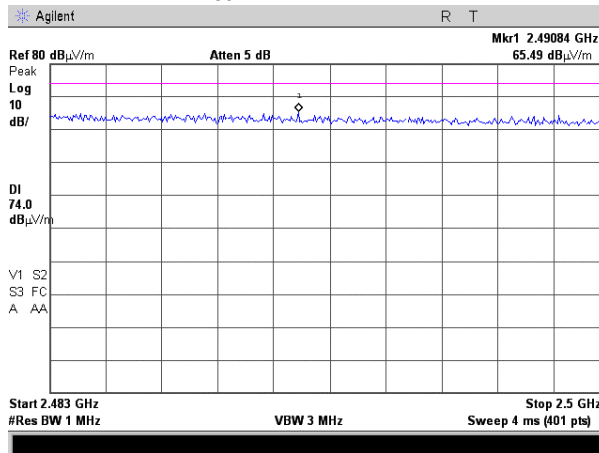


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

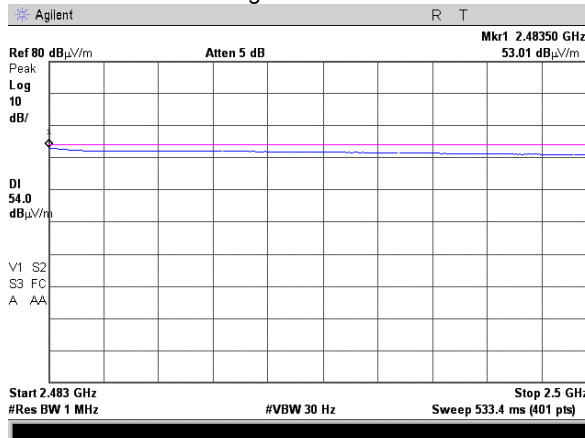
Plot 7.4.65 Radiated emission measurements from 2483.5 to 2500 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM BPSK Bit rate 3.25 Mbps
DETECTOR: Peak



Plot 7.4.66 Radiated emission measurements from 2483.5 to 2500 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM BPSK Bit rate 3.25 Mbps
DETECTOR: Average

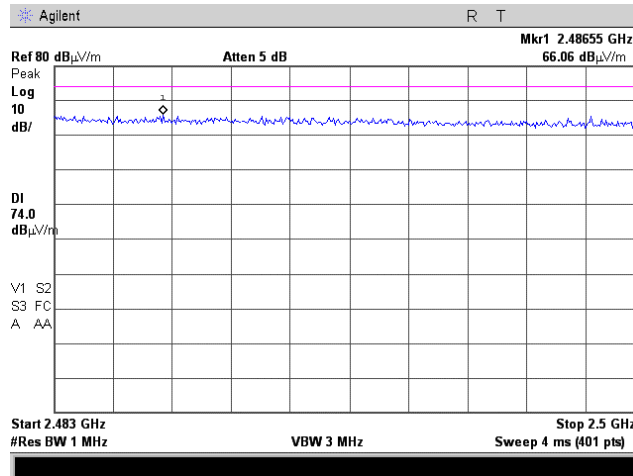




Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

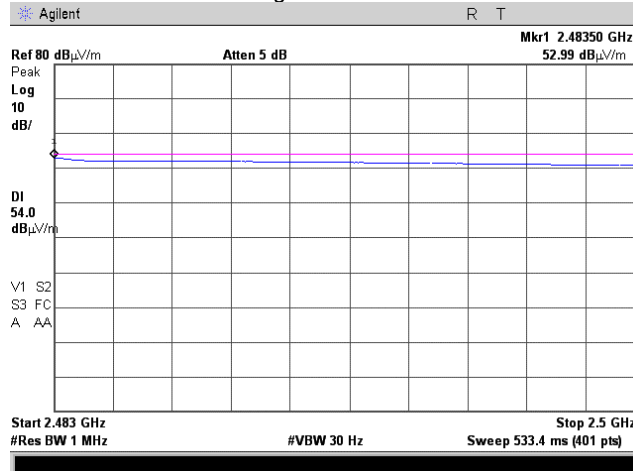
Plot 7.4.67 Radiated emission measurements from 2483.5 to 2500 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
DETECTOR: Peak



Plot 7.4.68 Radiated emission measurements from 2483.5 to 2500 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
DETECTOR: Average



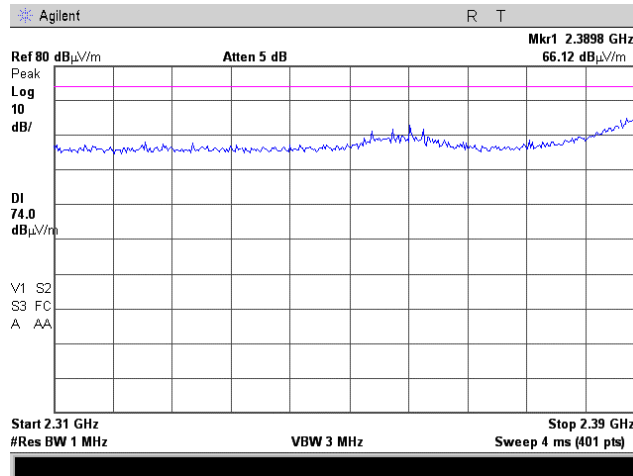


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

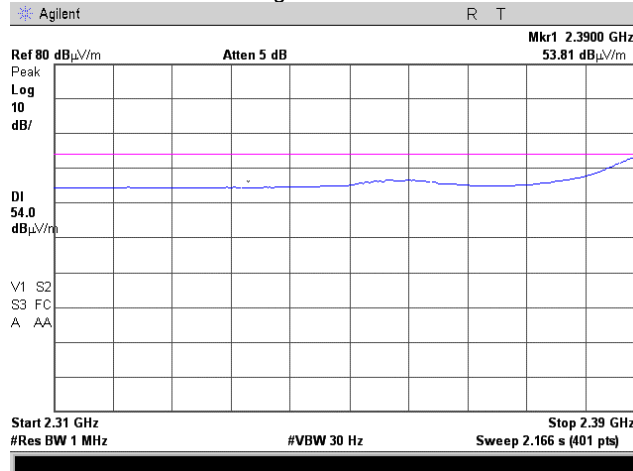
Plot 7.4.69 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM BPSK, Bit rate 6.5 Mbps
DETECTOR: Peak



Plot 7.4.70 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM BPSK, Bit rate 6.5 Mbps
DETECTOR: Average



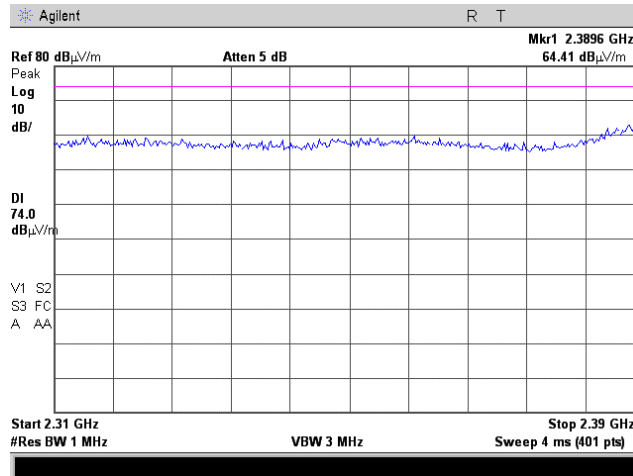


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

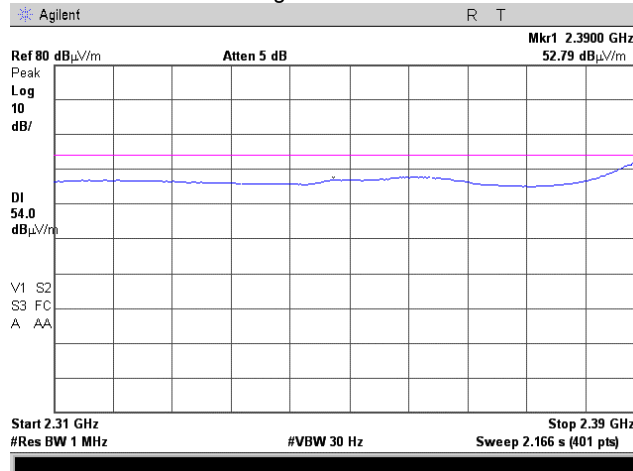
Plot 7.4.71 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM BPSK, Bit rate 6.5 Mbps
DETECTOR: Peak



Plot 7.4.72 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM BPSK, Bit rate 6.5 Mbps
DETECTOR: Average



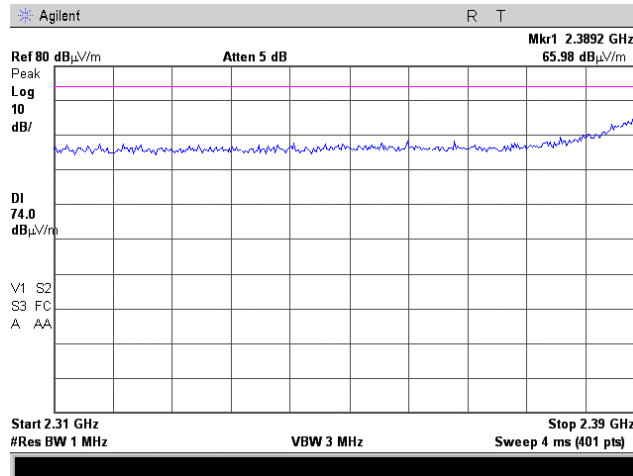


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

Plot 7.4.73 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
DETECTOR: Peak



Plot 7.4.74 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
DETECTOR: Average



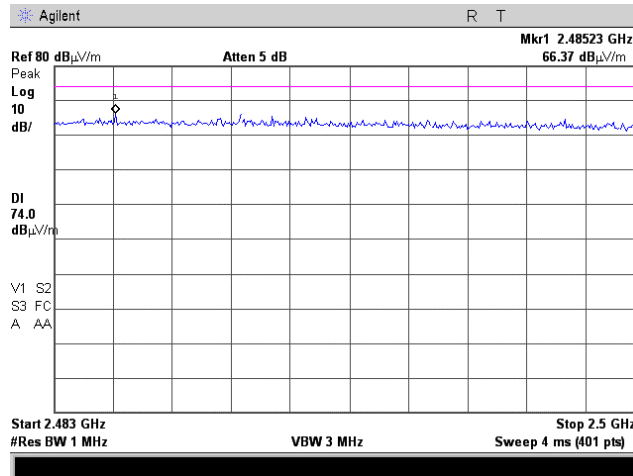


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

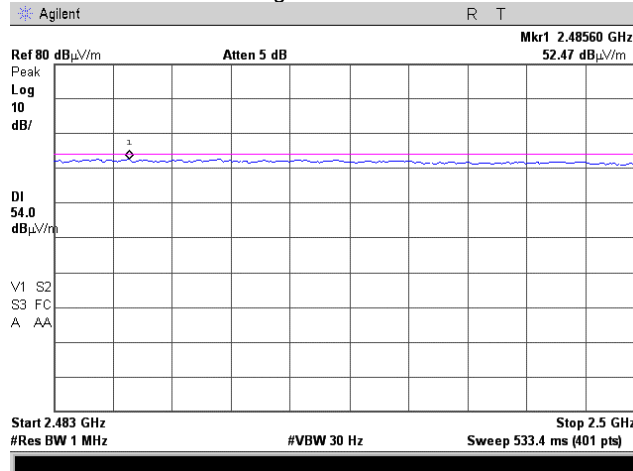
Plot 7.4.75 Radiated emission measurements from 2483.5 to 2500 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM BPSK Bit rate 6.5 Mbps
DETECTOR: Peak



Plot 7.4.76 Radiated emission measurements from 2483.5 to 2500 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM BPSK Bit rate 6.5 Mbps
DETECTOR: Average



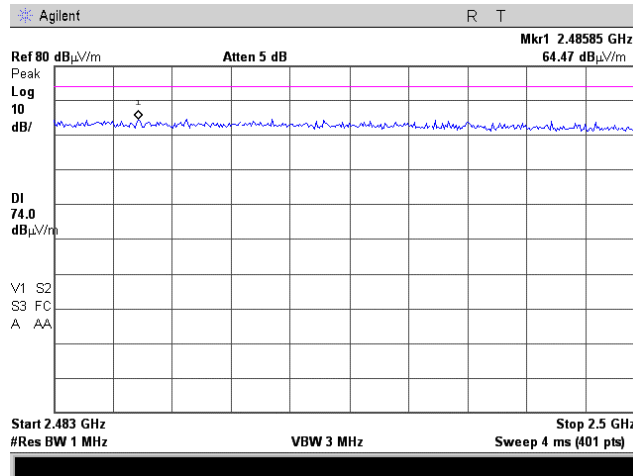


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

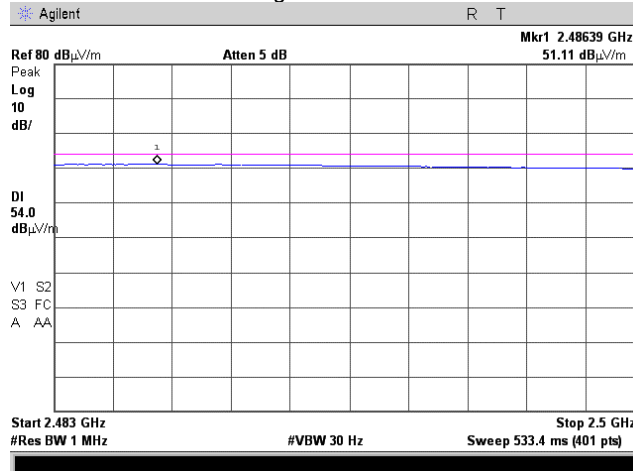
Plot 7.4.77 Radiated emission measurements from 2483.5 to 2500 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
 DETECTOR: Peak



Plot 7.4.78 Radiated emission measurements from 2483.5 to 2500 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
 DETECTOR: Average

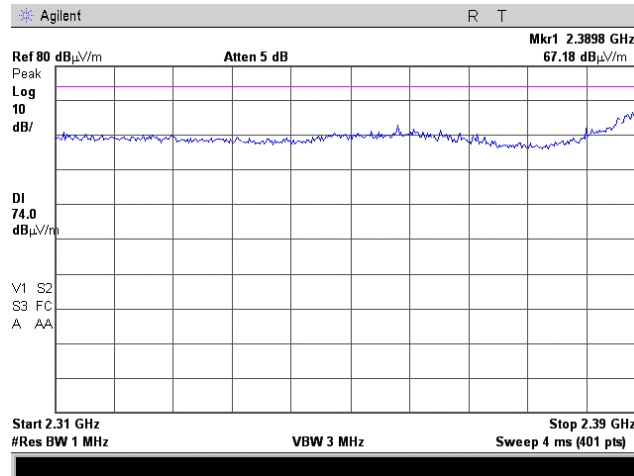




Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

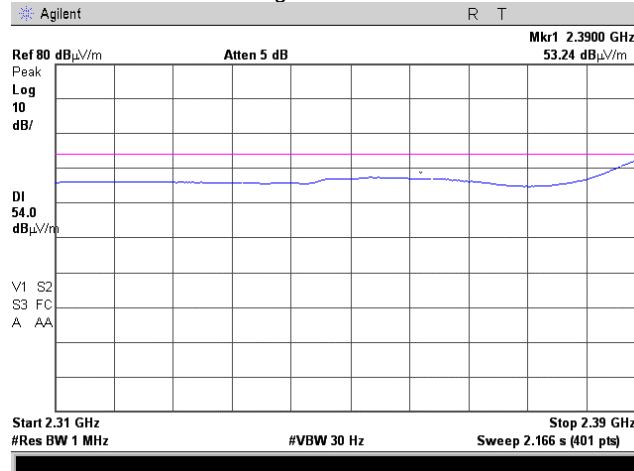
Plot 7.4.79 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM BPSK, Bit rate 13 Mbps
DETECTOR: Peak



Plot 7.4.80 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM BPSK, Bit rate 13 Mbps
DETECTOR: Average



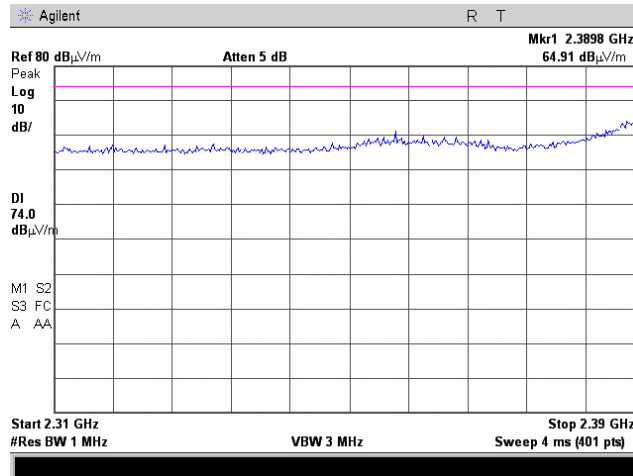


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

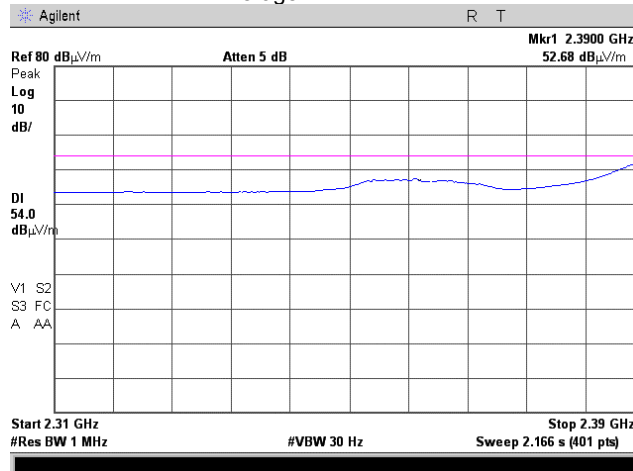
Plot 7.4.81 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK, Bit rate 13 Mbps
 DETECTOR: Peak



Plot 7.4.82 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK, Bit rate 13 Mbps
 DETECTOR: Average



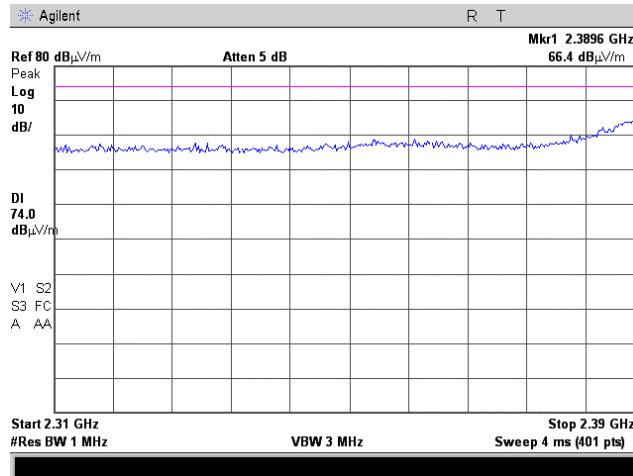


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

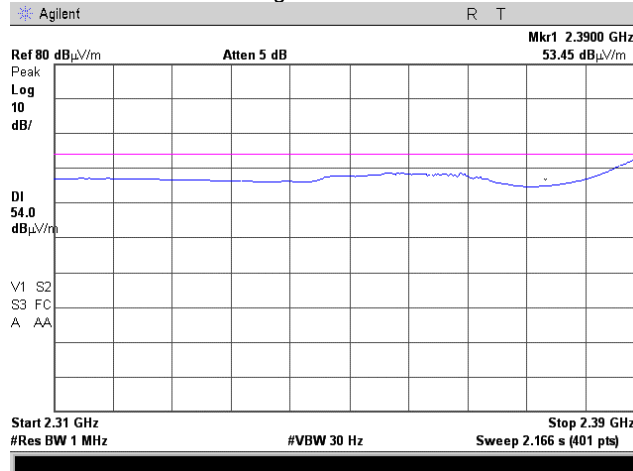
Plot 7.4.83 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Peak



Plot 7.4.84 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Average

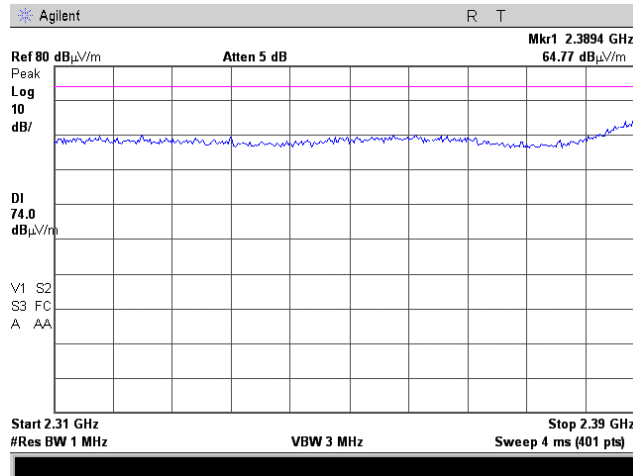




Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

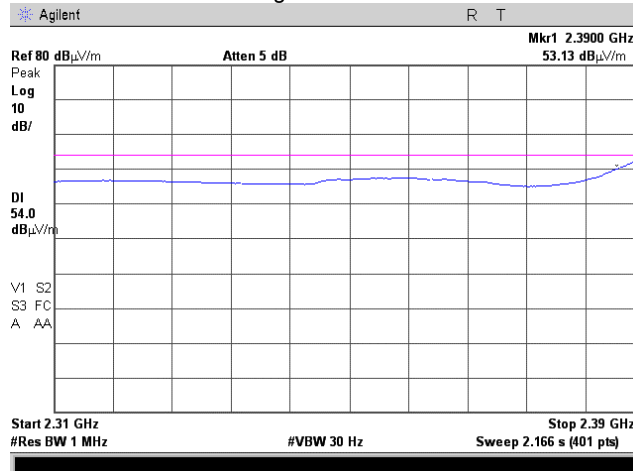
Plot 7.4.85 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Peak



Plot 7.4.86 Radiated emission measurements from 2310 to 2390 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Average



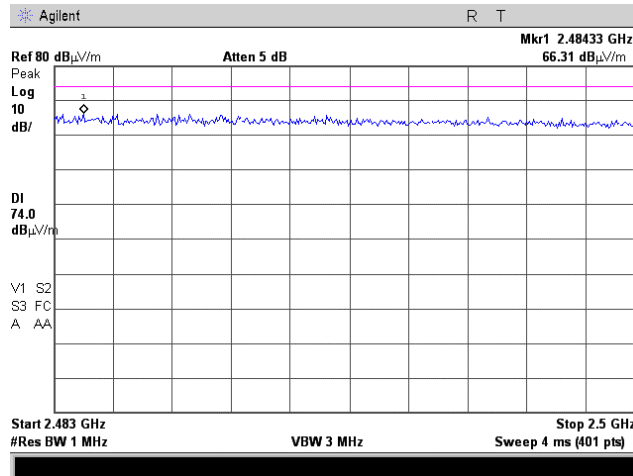


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

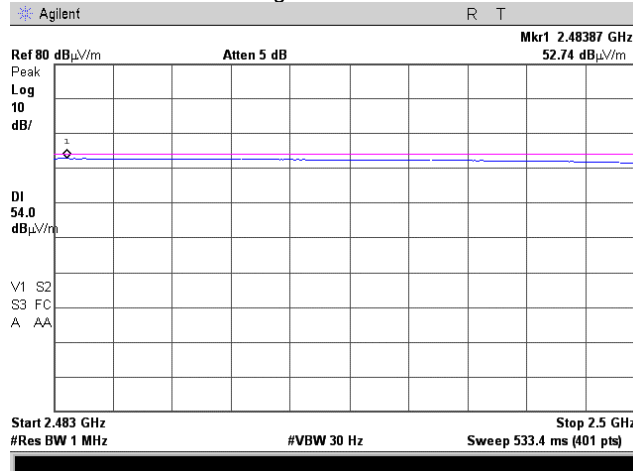
Plot 7.4.87 Radiated emission measurements from 2483.5 to 2500 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM BPSK Bit rate 13 Mbps
DETECTOR: Peak



Plot 7.4.88 Radiated emission measurements from 2483.5 to 2500 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM BPSK Bit rate 13 Mbps
DETECTOR: Average

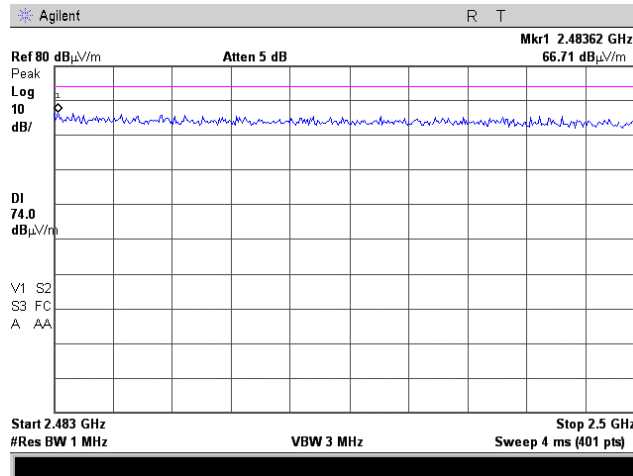




Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

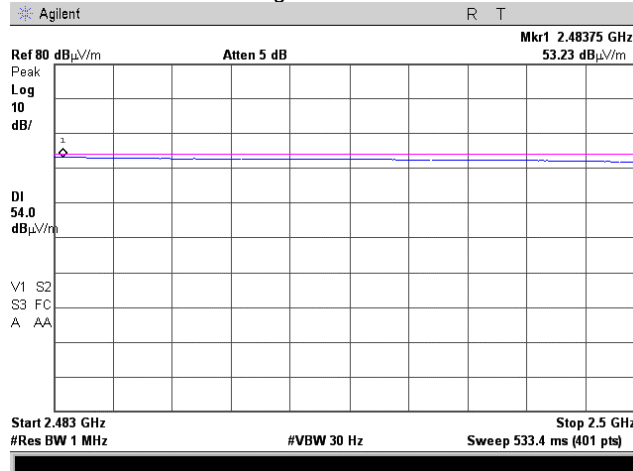
Plot 7.4.89 Radiated emission measurements from 2483.5 to 2500 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
DETECTOR: Peak



Plot 7.4.90 Radiated emission measurements from 2483.5 to 2500 MHz at the mid carrier frequency 2437MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
DETECTOR: Average



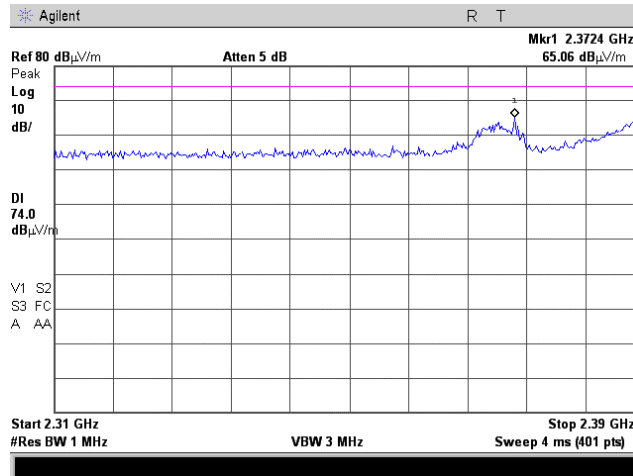


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

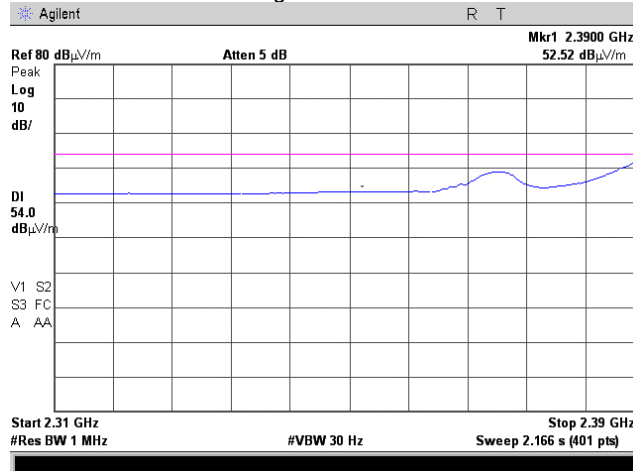
Plot 7.4.91 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak



Plot 7.4.92 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Average



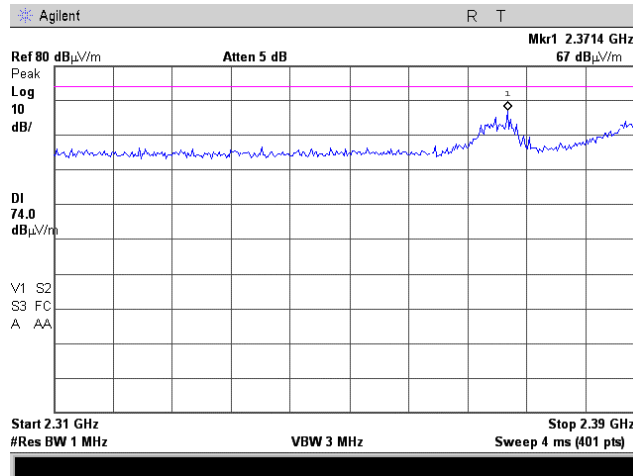


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

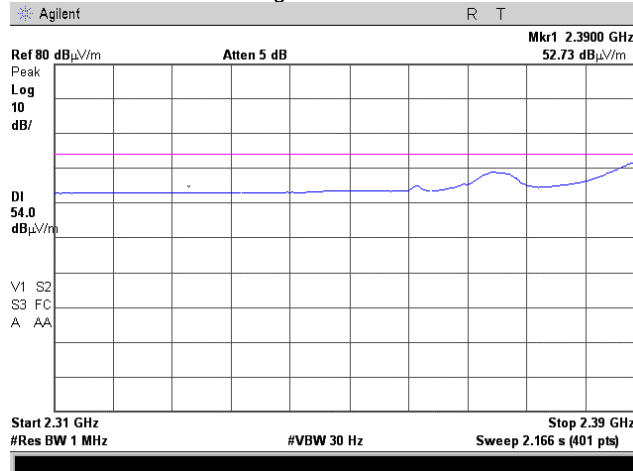
Plot 7.4.93 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
 DETECTOR: Peak



Plot 7.4.94 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
 DETECTOR: Average



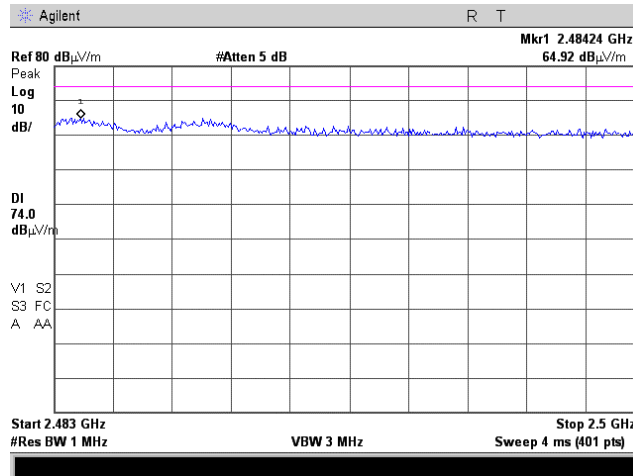


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

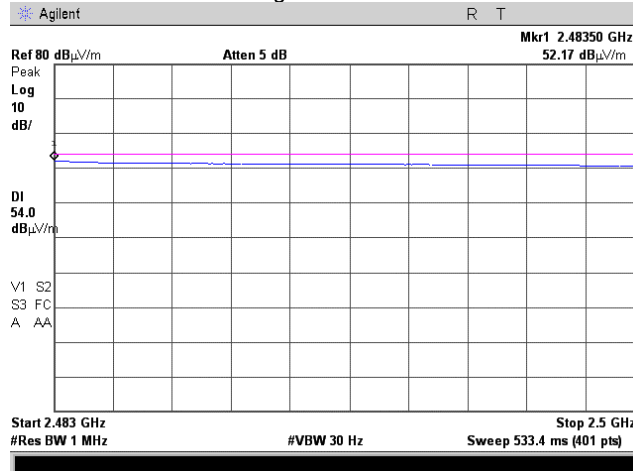
Plot 7.4.95 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM BPSK Bit rate 3.25 Mbps
DETECTOR: Peak



Plot 7.4.96 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM BPSK Bit rate 3.25 Mbps
DETECTOR: Average



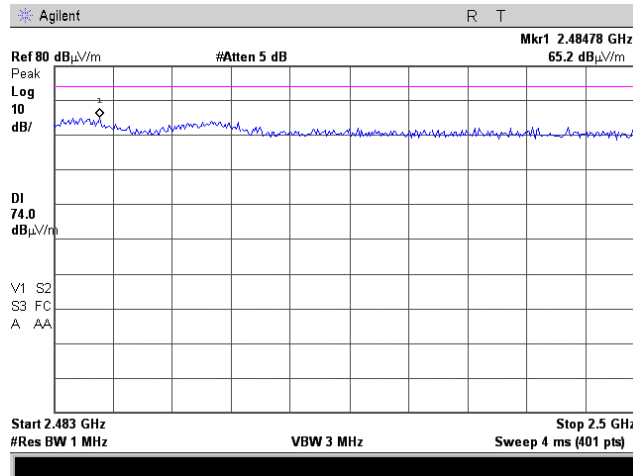


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

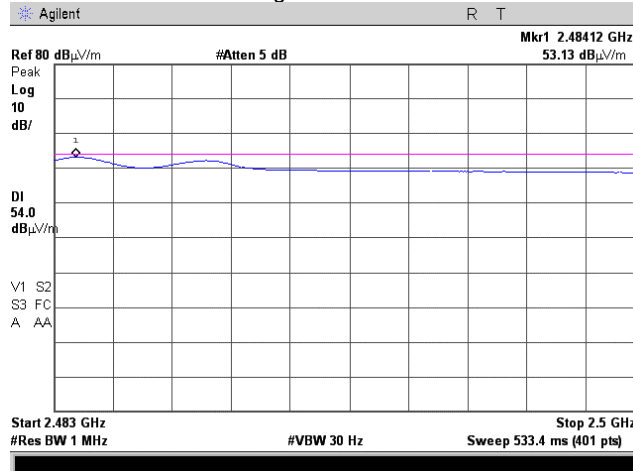
Plot 7.4.97 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM BPSK Bit rate 32.5 Mbps
 DETECTOR: Peak



Plot 7.4.98 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM BPSK Bit rate 32.5 Mbps
 DETECTOR: Average

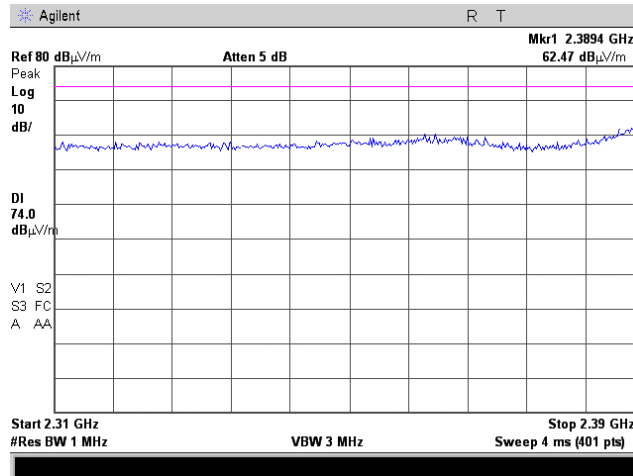




Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

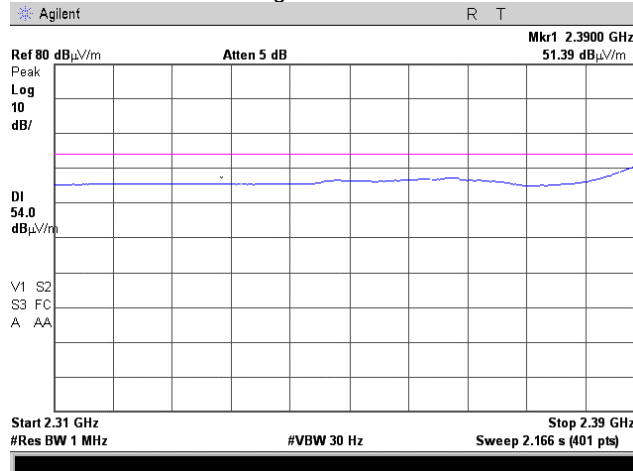
Plot 7.4.99 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM BPSK, Bit rate 6.5 Mbps
 DETECTOR: Peak



Plot 7.4.100 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM BPSK, Bit rate 6.5 Mbps
 DETECTOR: Average



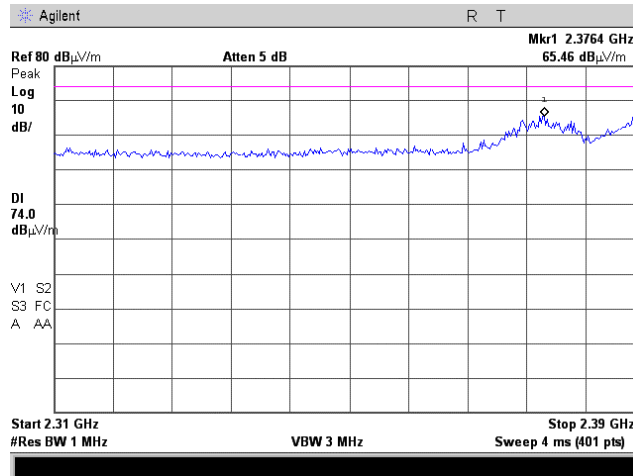


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

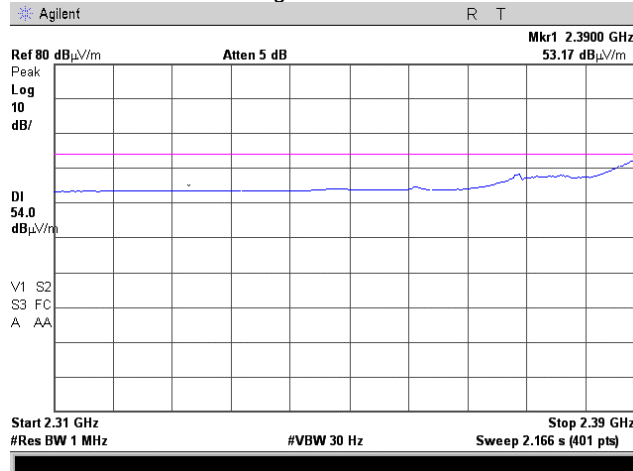
Plot 7.4.101 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM BPSK, Bit rate 6.5 Mbps
DETECTOR: Peak



Plot 7.4.102 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM BPSK, Bit rate 6.5 Mbps
DETECTOR: Average

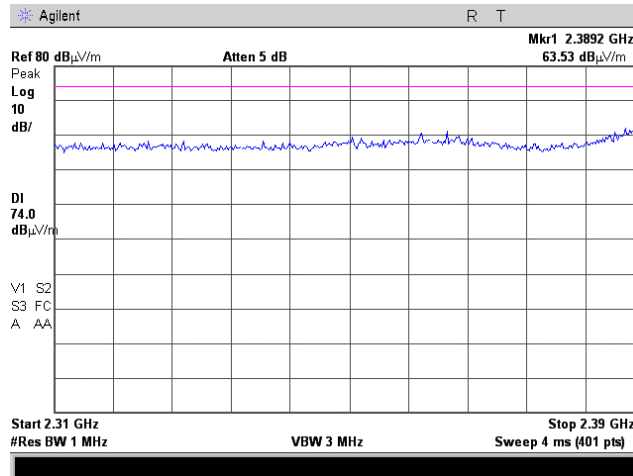




Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

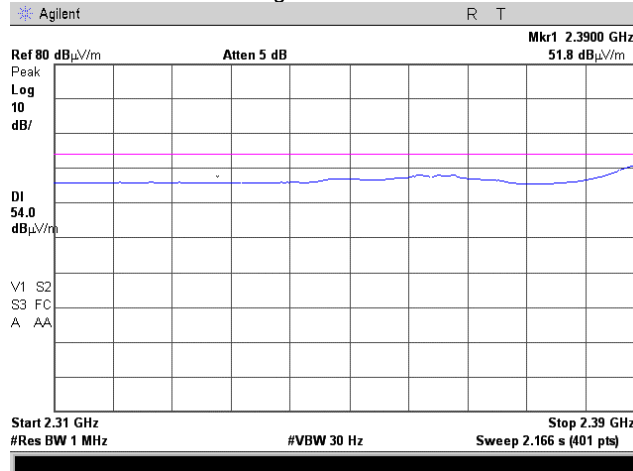
Plot 7.4.103 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
 DETECTOR: Peak



Plot 7.4.104 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
 DETECTOR: Average



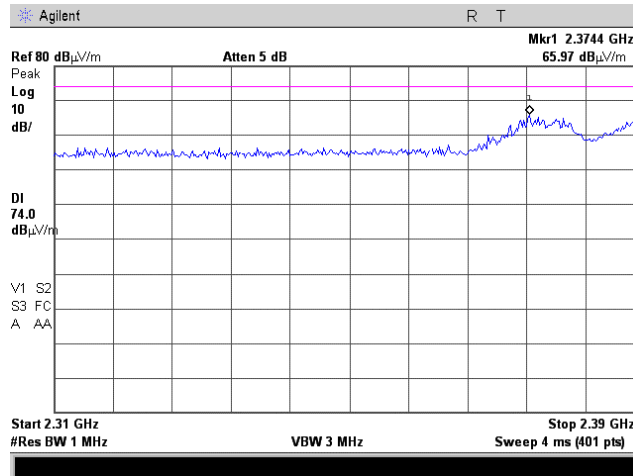


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

Plot 7.4.105 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
DETECTOR: Peak



Plot 7.4.106 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
DETECTOR: Average



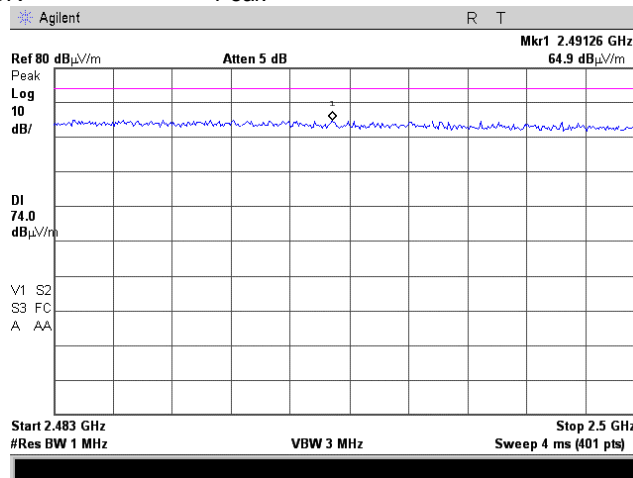


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

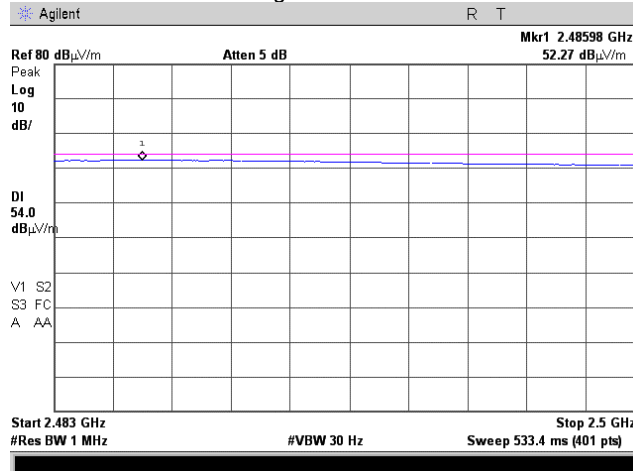
Plot 7.4.107 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM BPSK Bit rate 6.5 Mbps
 DETECTOR: Peak



Plot 7.4.108 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM BPSK Bit rate 6.5 Mbps
 DETECTOR: Average



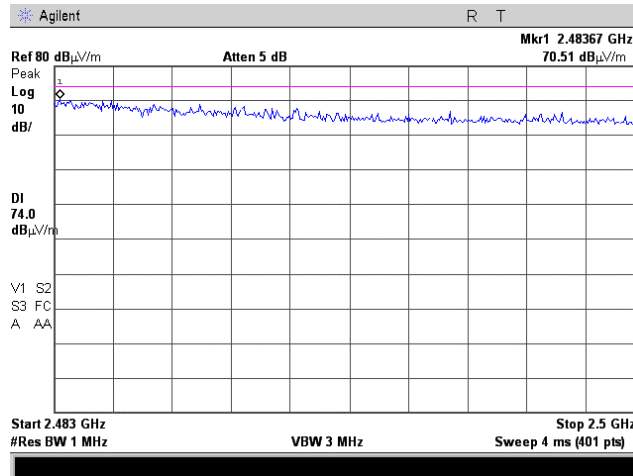


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

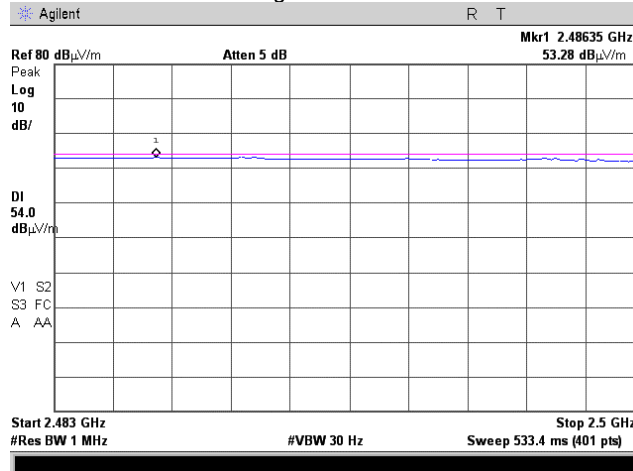
Plot 7.4.109 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM BPSK Bit rate 6.5 Mbps
 DETECTOR: Peak



Plot 7.4.110 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM BPSK Bit rate 6.5 Mbps
 DETECTOR: Average



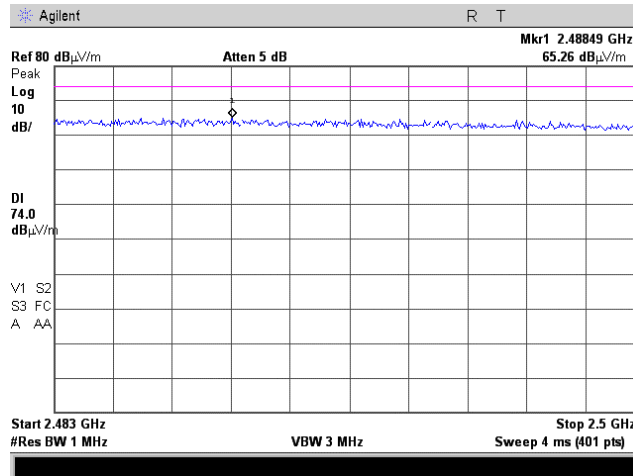


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

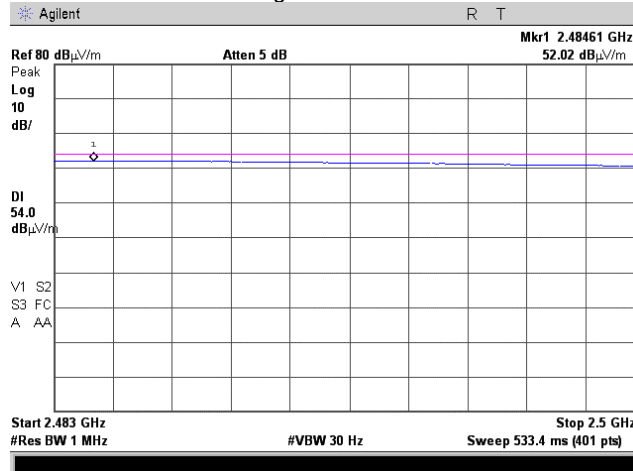
Plot 7.4.111 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM 64 QAM Bit rate 65 Mbps
 DETECTOR: Peak



Plot 7.4.112 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM 64 QAM Bit rate 65 Mbps
 DETECTOR: Average



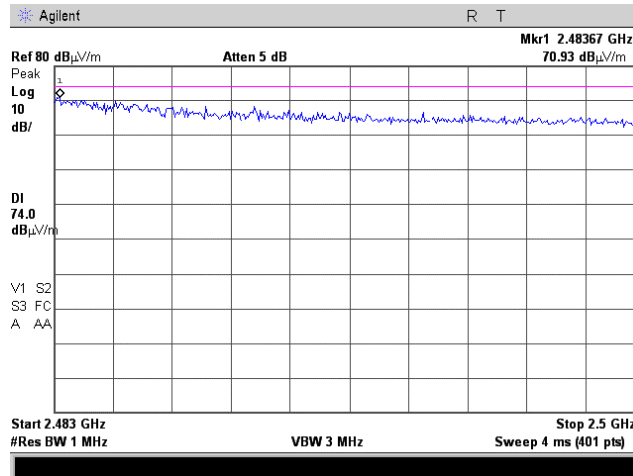


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

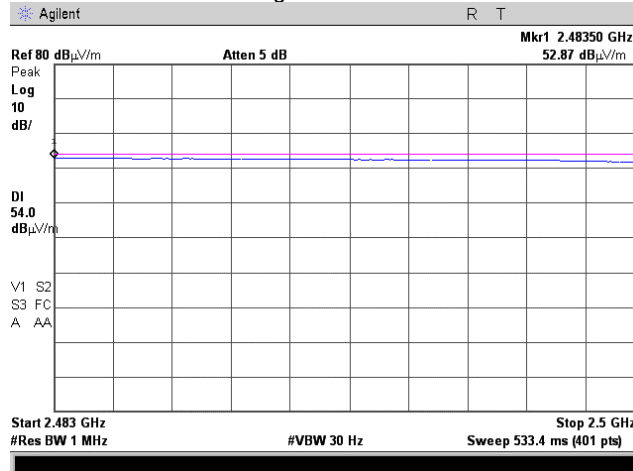
Plot 7.4.113 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM 64 QAM Bit rate 65 Mbps
 DETECTOR: Peak



Plot 7.4.114 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM 64 QAM Bit rate 65 Mbps
 DETECTOR: Average



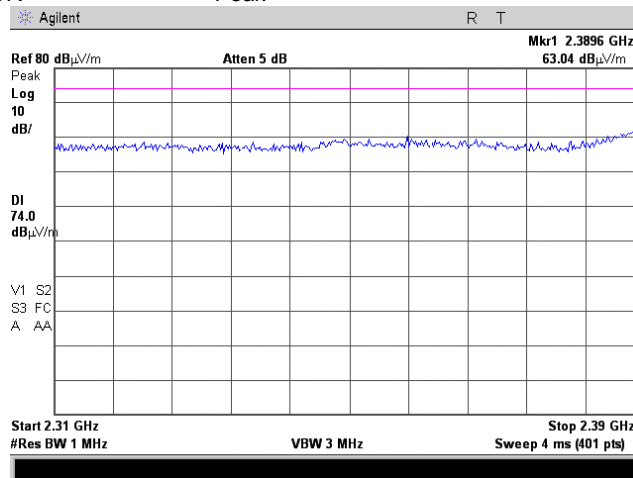


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

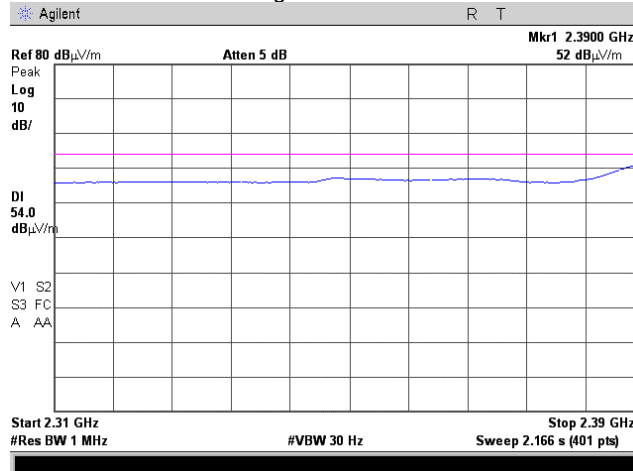
Plot 7.4.115 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK, Bit rate 13 Mbps
 DETECTOR: Peak



Plot 7.4.116 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK, Bit rate 13 Mbps
 DETECTOR: Average

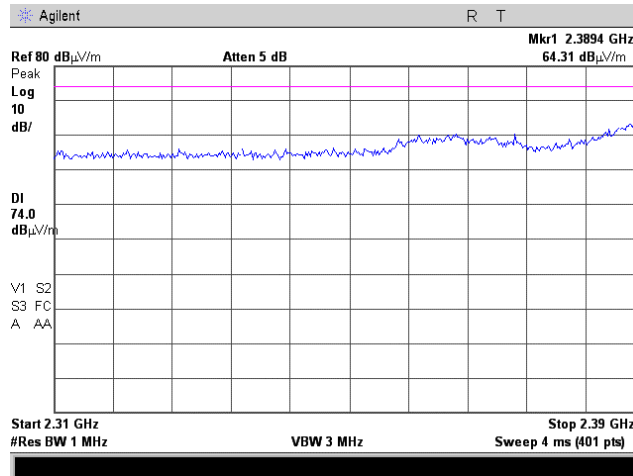




Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

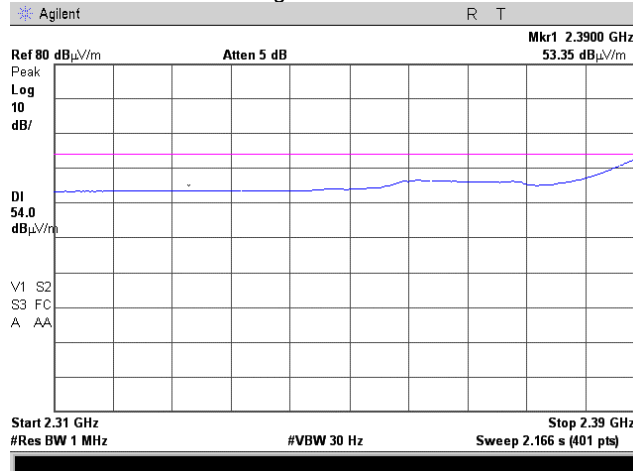
Plot 7.4.117 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK, Bit rate 13 Mbps
 DETECTOR: Peak



Plot 7.4.118 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK, Bit rate 13 Mbps
 DETECTOR: Average



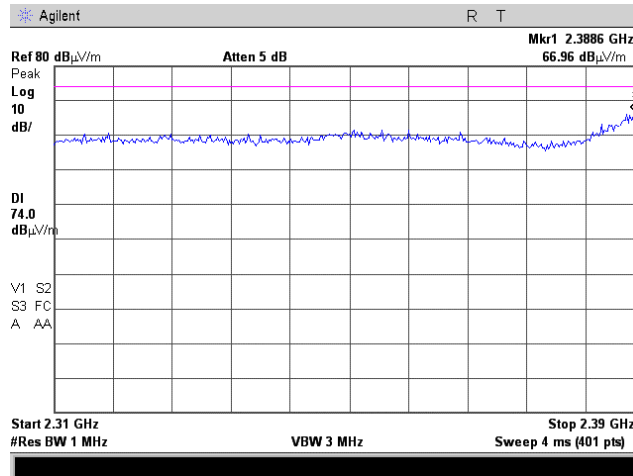


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

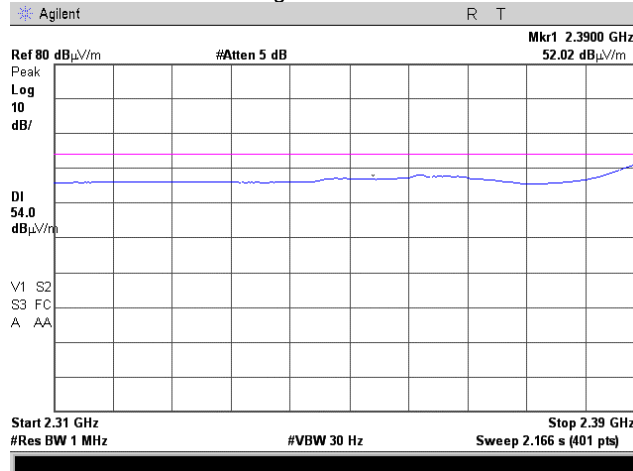
Plot 7.4.119 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Peak



Plot 7.4.120 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Average



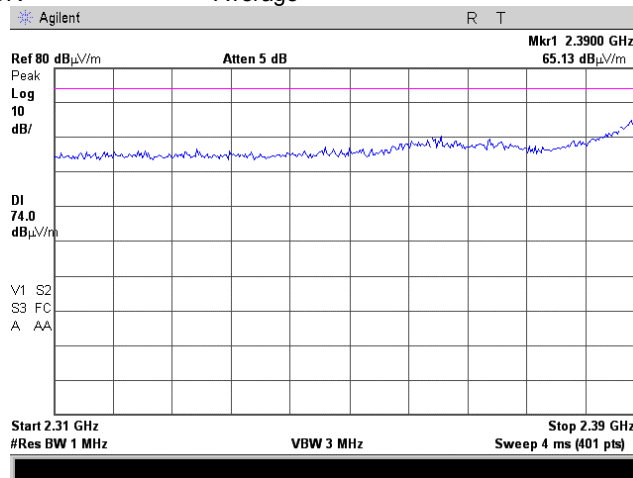


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

Plot 7.4.121 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
DETECTOR: Average



Plot 7.4.122 Radiated emission measurements from 2310 to 2390 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
DETECTOR: Average



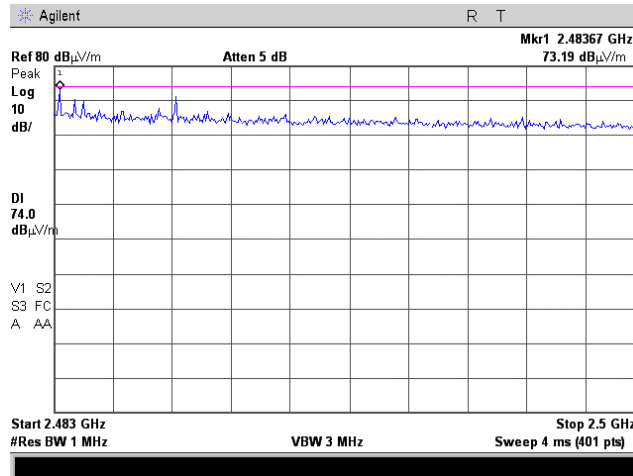


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

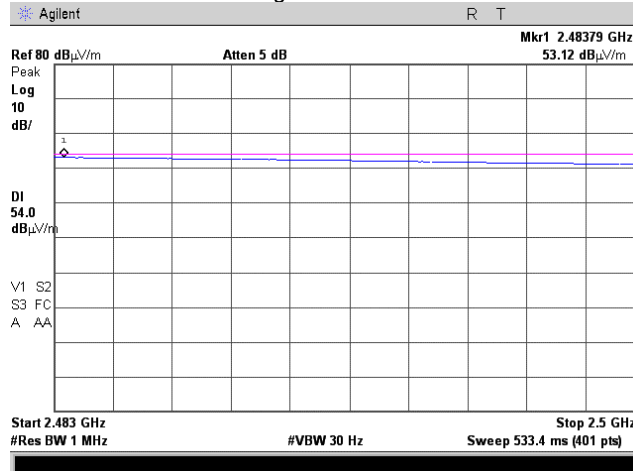
Plot 7.4.123 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK Bit rate 13 Mbps
 DETECTOR: Peak



Plot 7.4.124 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK Bit rate 13 Mbps
 DETECTOR: Average

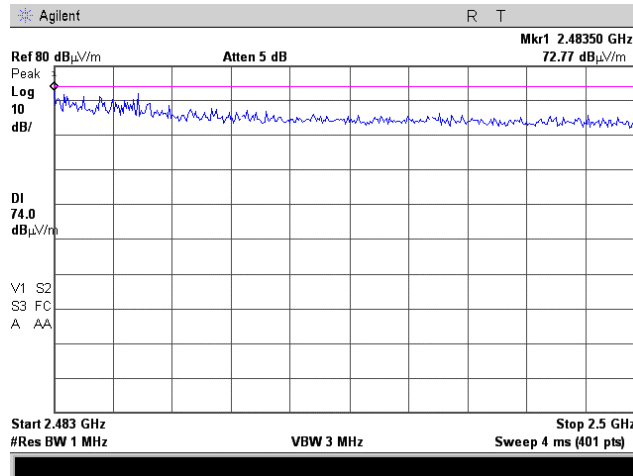




Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

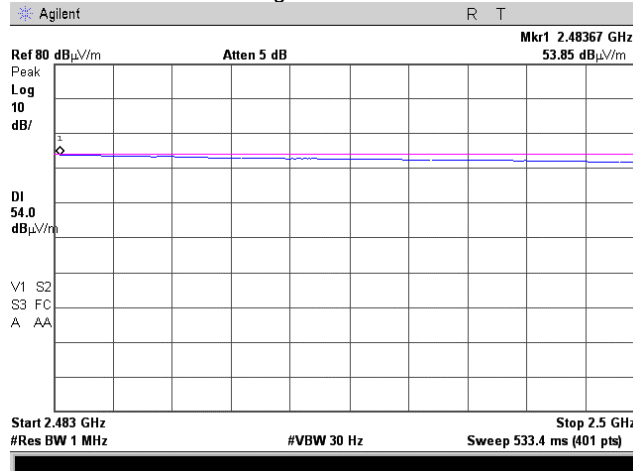
Plot 7.4.125 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK Bit rate 13 Mbps
 DETECTOR: Peak



Plot 7.4.126 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK Bit rate 13 Mbps
 DETECTOR: Average



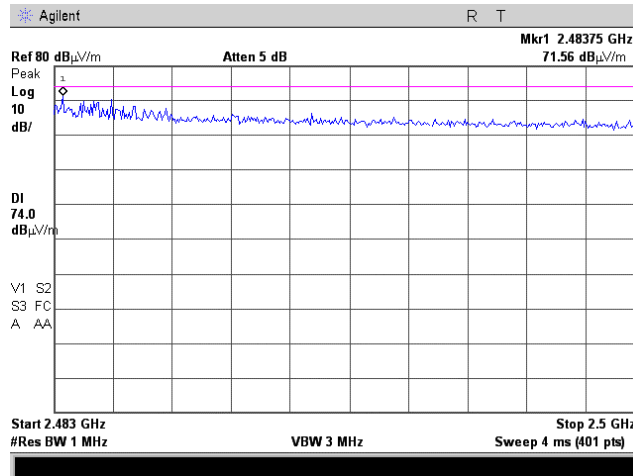


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

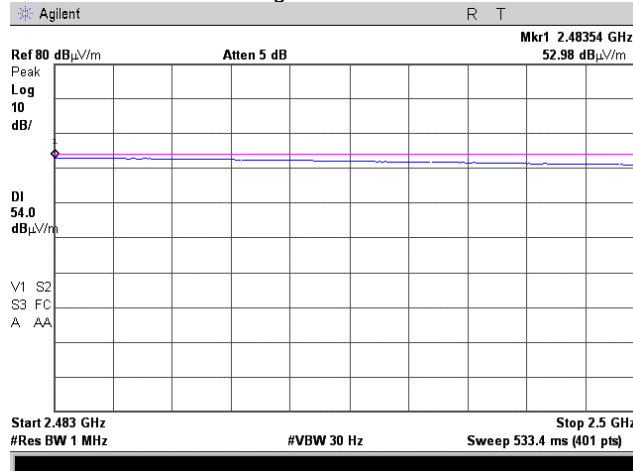
Plot 7.4.127 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK Bit rate 130 Mbps
 DETECTOR: Peak



Plot 7.4.128 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK Bit rate 130 Mbps
 DETECTOR: Average



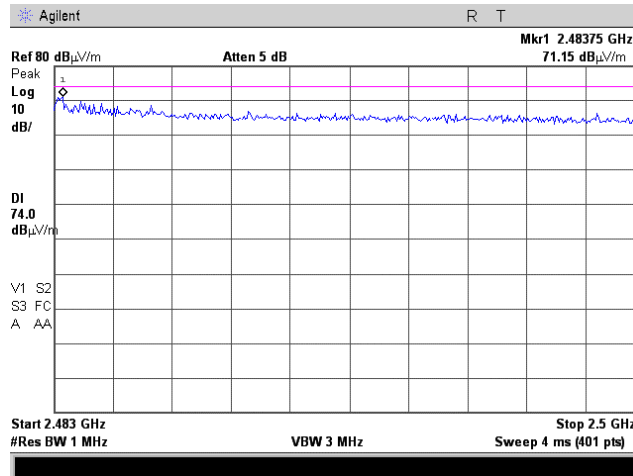


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

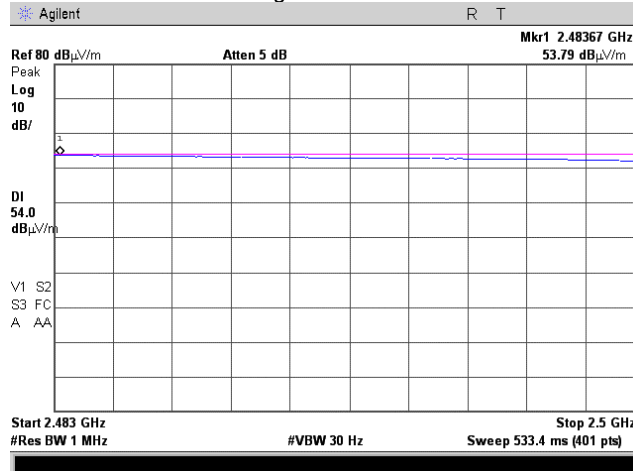
Plot 7.4.129 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM BPSK Bit rate 130 Mbps
DETECTOR: Peak



Plot 7.4.130 Radiated emission measurements from 2483.5 to 2500 MHz at the mid High carrier frequency 2447 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM BPSK Bit rate 130 Mbps
DETECTOR: Average



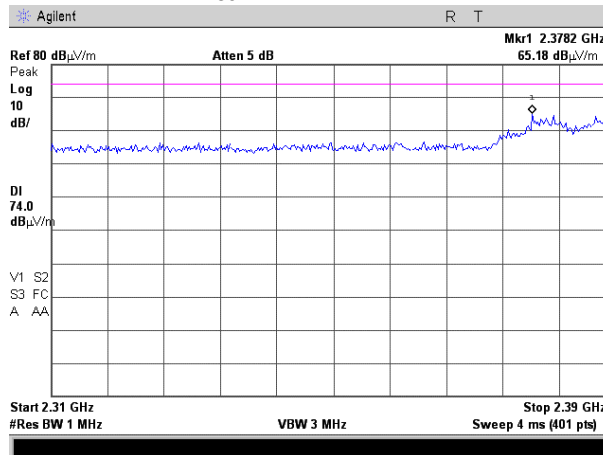


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

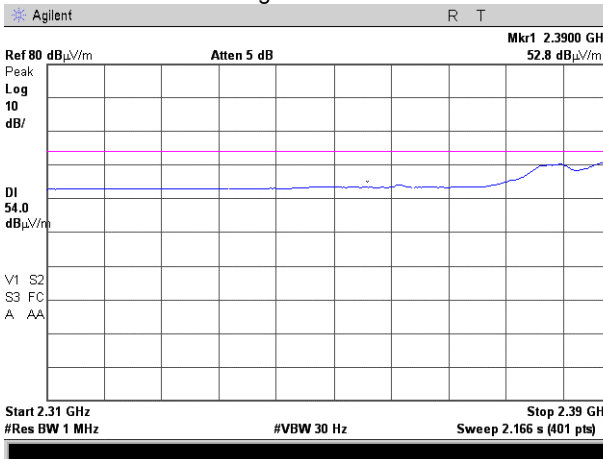
Plot 7.4.131 Radiated emission measurements from 2310 to 2390 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak



Plot 7.4.132 Radiated emission measurements from 2310 to 2390 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Average



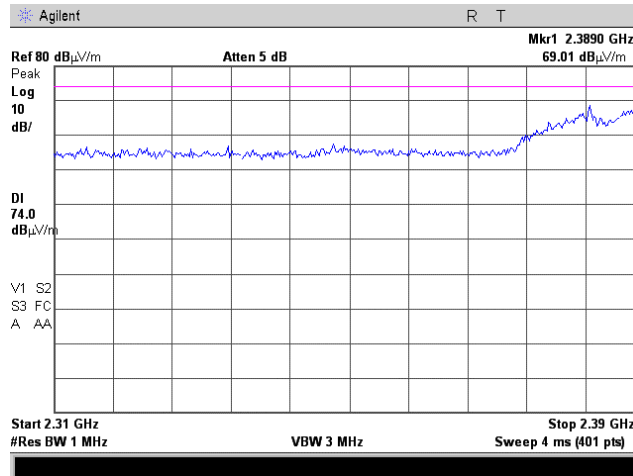


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

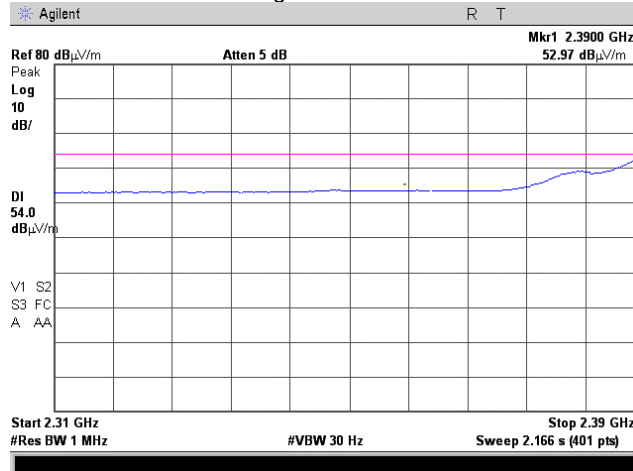
Plot 7.4.133 Radiated emission measurements from 2310 to 2390 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
 DETECTOR: Peak



Plot 7.4.134 Radiated emission measurements from 2310 to 2390 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
 DETECTOR: Average

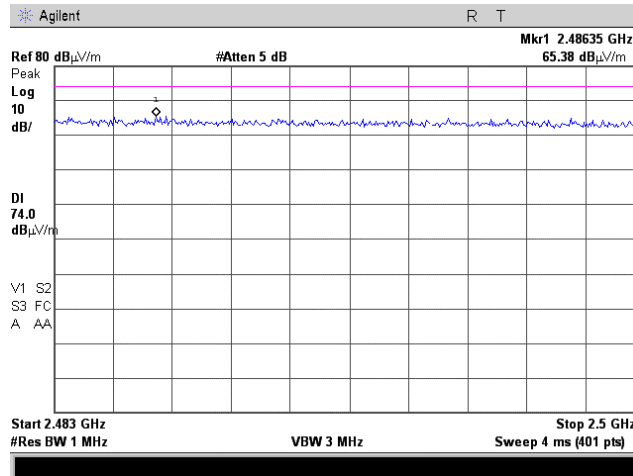




Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

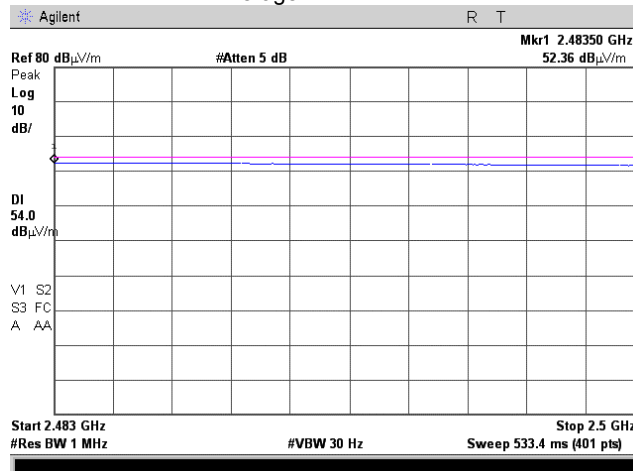
Plot 7.4.135 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak



Plot 7.4.136 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Average



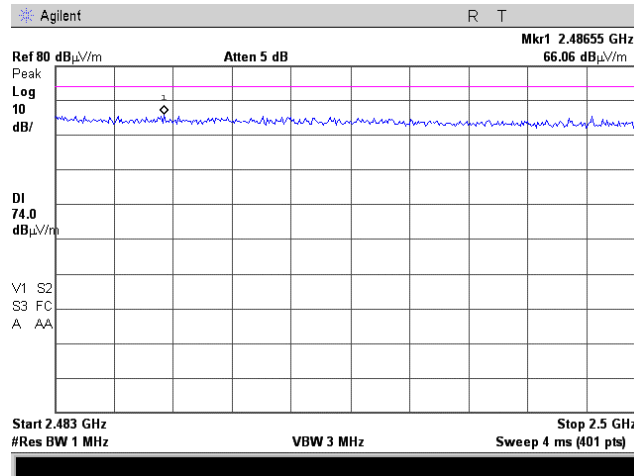


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

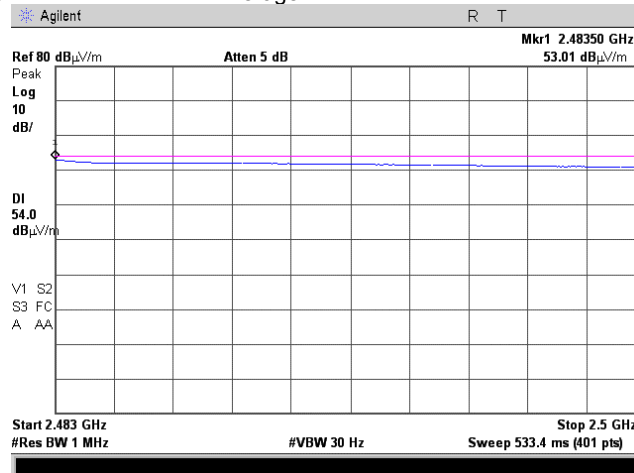
Plot 7.4.137 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM BPSK Bit rate 3.25 Mbps
DETECTOR: Peak



Plot 7.4.138 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM BPSK Bit rate 3.25 Mbps
DETECTOR: Average



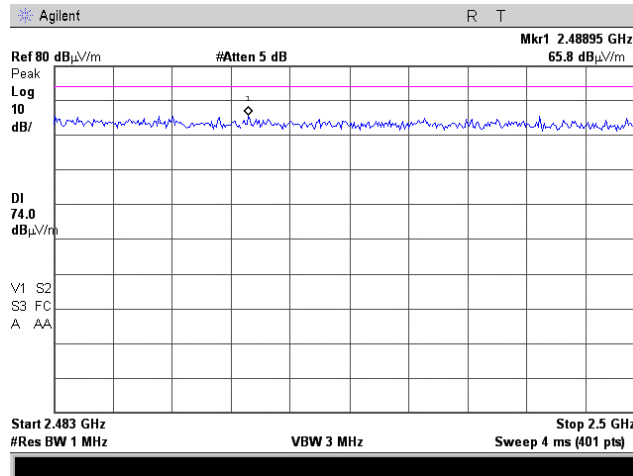


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

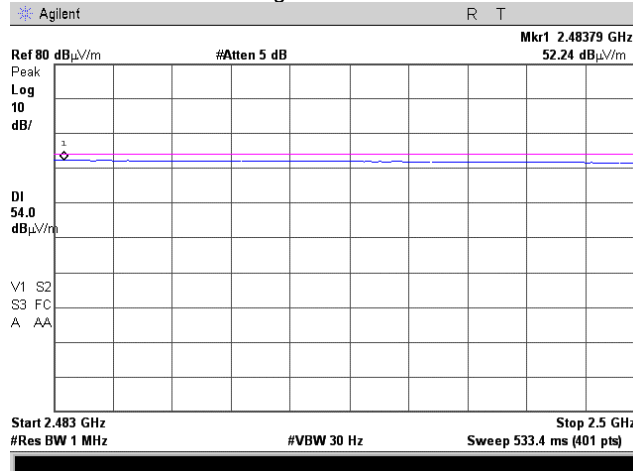
Plot 7.4.139 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
 DETECTOR: Peak



Plot 7.4.140 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 5 MHz
 MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
 DETECTOR: Average



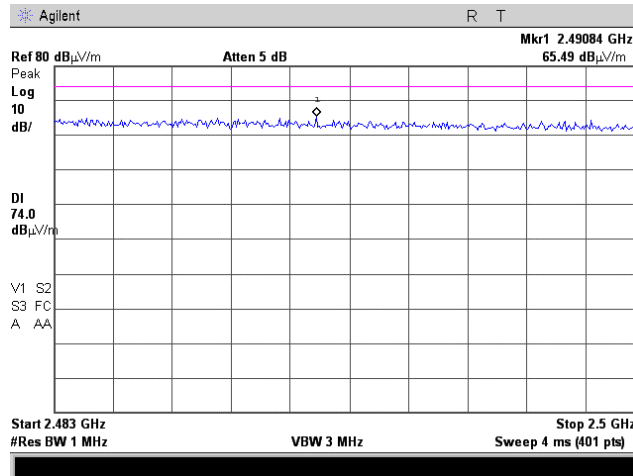


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

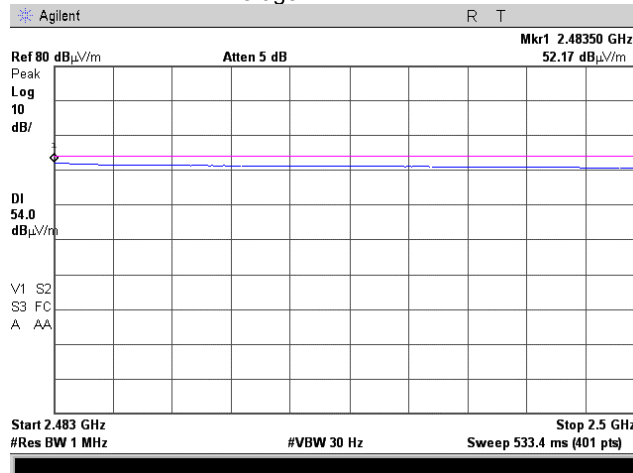
Plot 7.4.141 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
DETECTOR: Peak



Plot 7.4.142 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 5 MHz
MODULATION: OFDM 64 QAM, Bit rate 32.5 Mbps
DETECTOR: Average



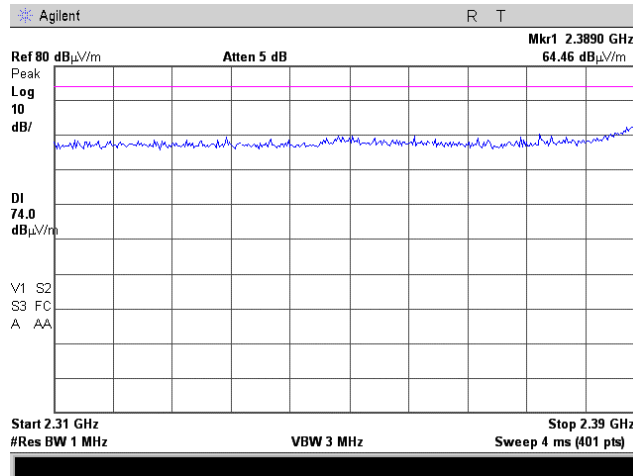


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

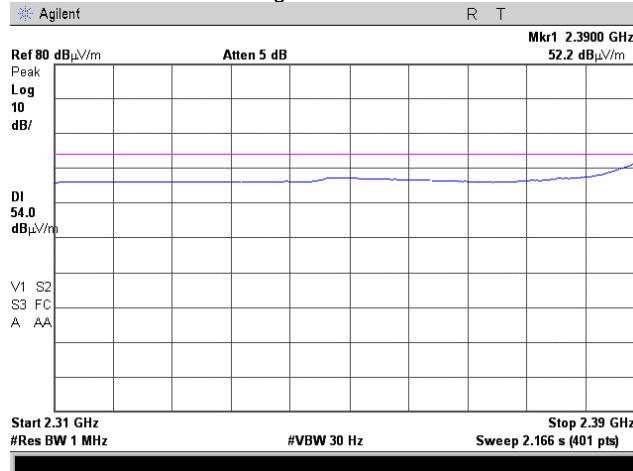
Plot 7.4.143 Radiated emission measurements from 2310 to 2390 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM BPSK, Bit rate 6.5 Mbps
 DETECTOR: Peak



Plot 7.4.144 Radiated emission measurements from 2310 to 2390 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM BPSK, Bit rate 6.5 Mbps
 DETECTOR: Average



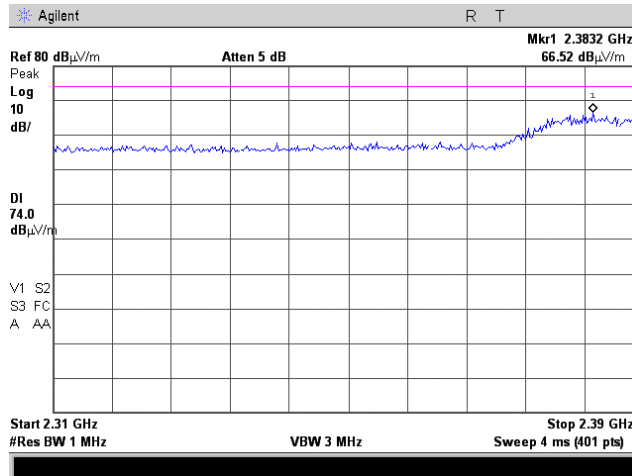


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

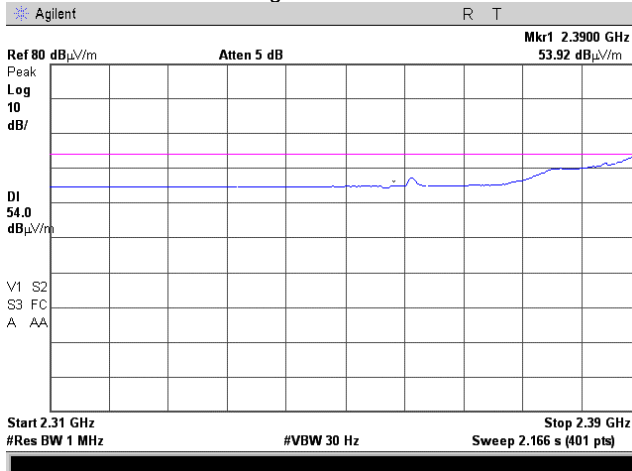
Plot 7.4.145 Radiated emission measurements from 2310 to 2390 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM BPSK, Bit rate 6.5 Mbps
DETECTOR: Peak



Plot 7.4.146 Radiated emission measurements from 2310 to 2390 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM BPSK, Bit rate 6.5 Mbps
DETECTOR: Average

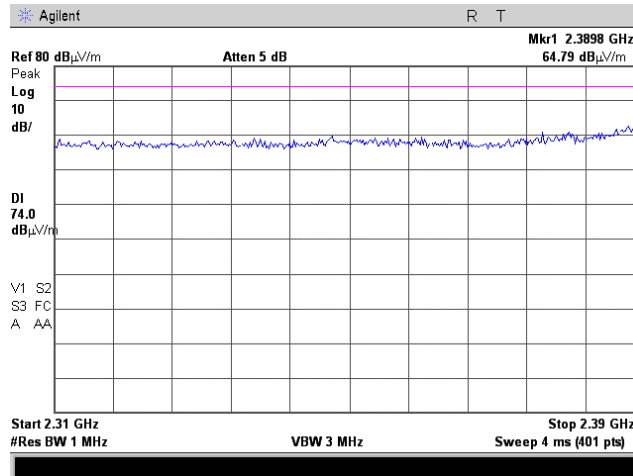




Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

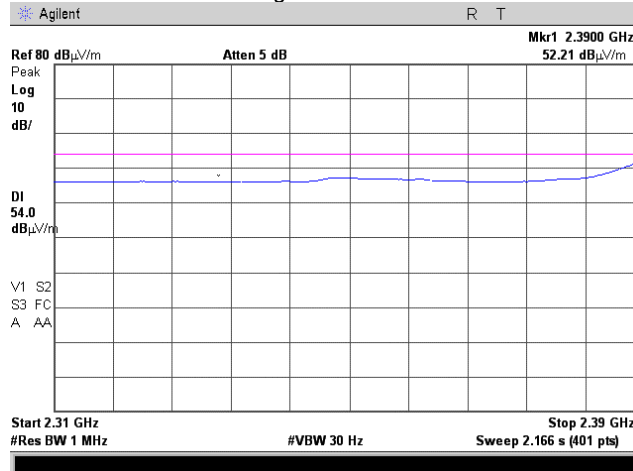
Plot 7.4.147 Radiated emission measurements from 2310 to 2390 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
 DETECTOR: Peak



Plot 7.4.148 Radiated emission measurements from 2310 to 2390 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
 DETECTOR: Average

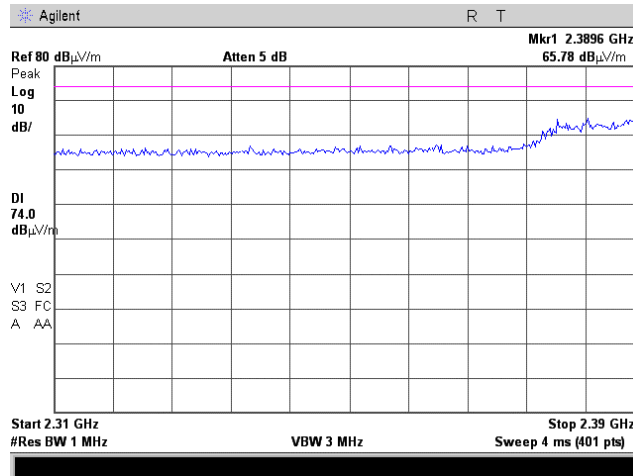




Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

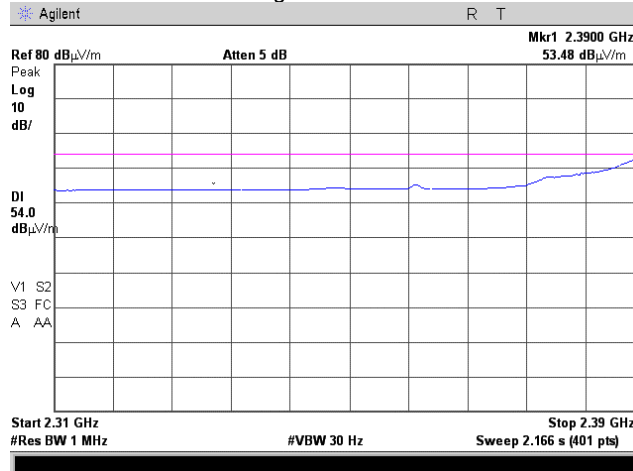
Plot 7.4.149 Radiated emission measurements from 2310 to 2390 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
DETECTOR: Peak



Plot 7.4.150 Radiated emission measurements from 2310 to 2390 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
DETECTOR: Average



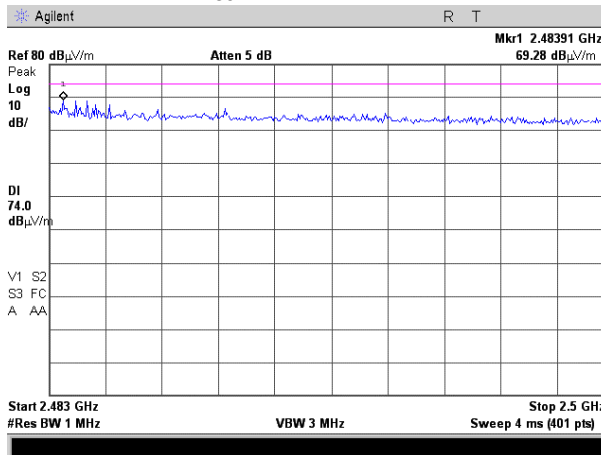


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

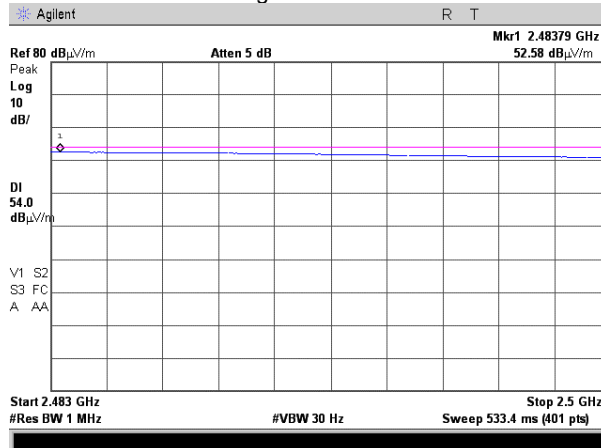
Plot 7.4.151 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM BPSK Bit rate 6.5 Mbps
DETECTOR: Peak



Plot 7.4.152 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM BPSK Bit rate 6.5 Mbps
DETECTOR: Average



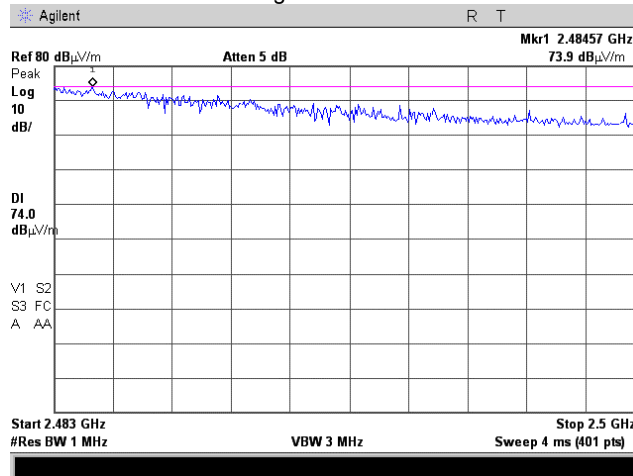


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

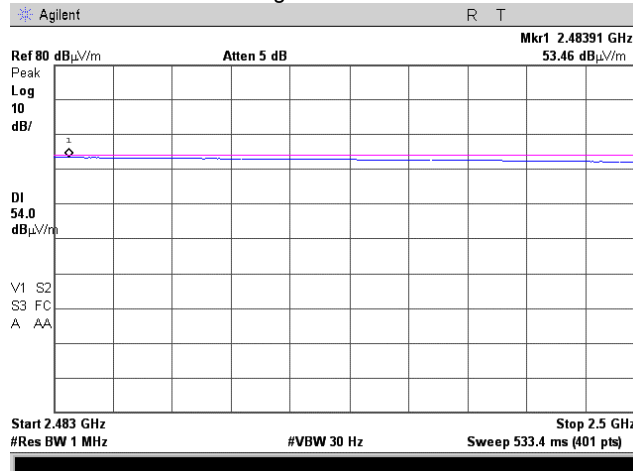
Plot 7.4.153 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM BPSK Bit rate 6.5 Mbps
DETECTOR: Average



Plot 7.4.154 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM BPSK Bit rate 6.5 Mbps
DETECTOR: Average



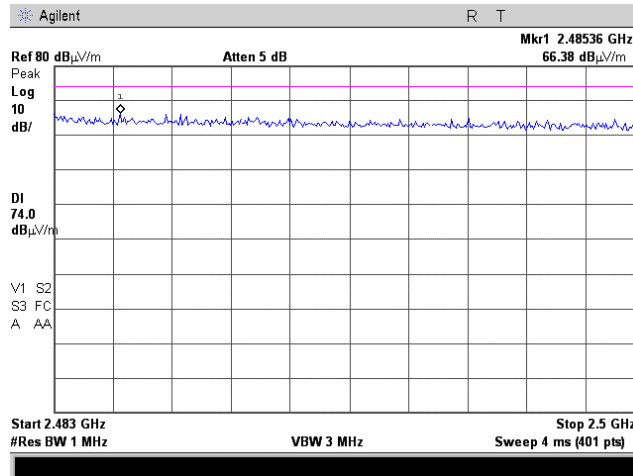


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

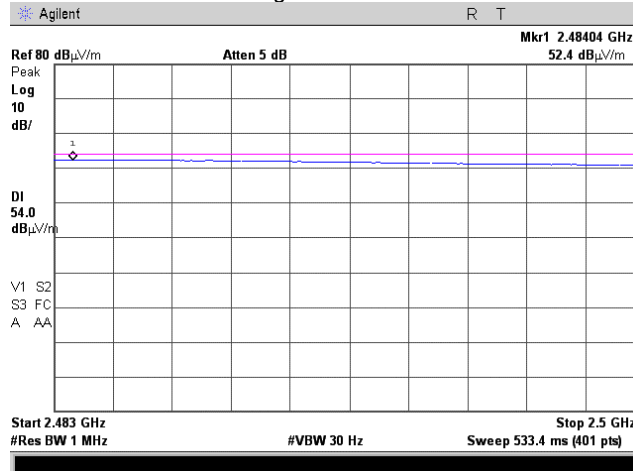
Plot 7.4.155 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
DETECTOR: Peak



Plot 7.4.156 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EMISSION BANDWIDTH: 10 MHz
MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
DETECTOR: Average



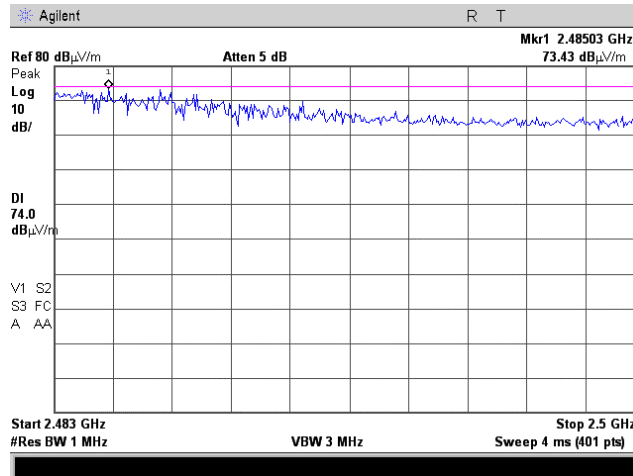


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

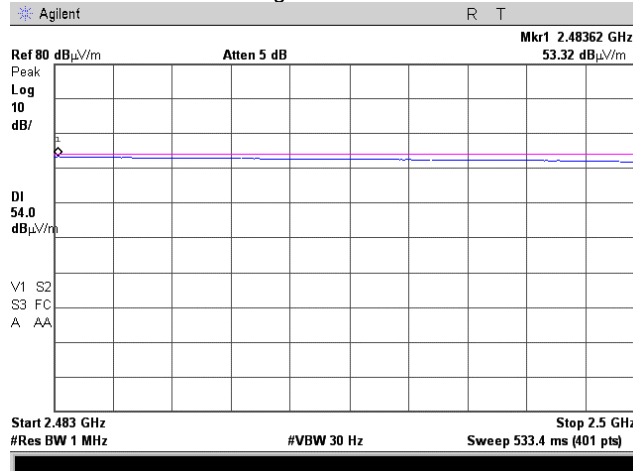
Plot 7.4.157 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
 DETECTOR: Peak



Plot 7.4.158 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 10 MHz
 MODULATION: OFDM 64 QAM, Bit rate 65 Mbps
 DETECTOR: Average



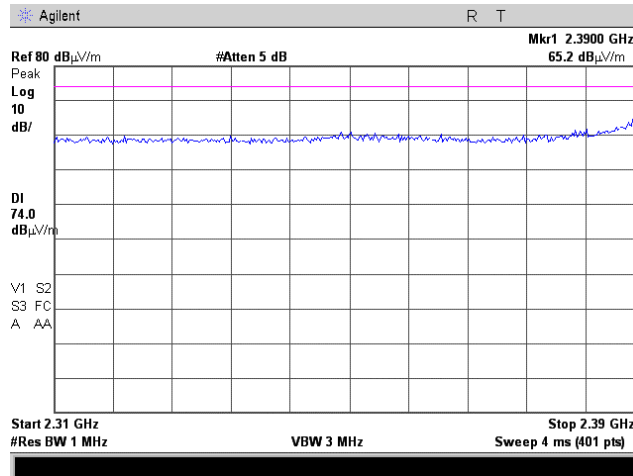


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

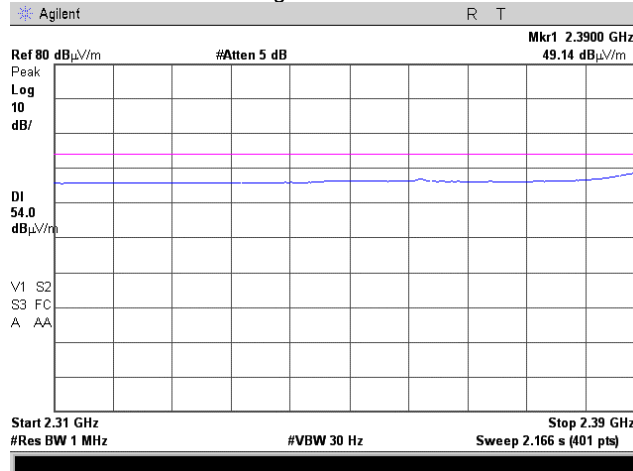
Plot 7.4.159 Radiated emission measurements from 2310 to 2390 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK, Bit rate 13 Mbps
 DETECTOR: Peak



Plot 7.4.160 Radiated emission measurements from 2310 to 2390 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK, Bit rate 13 Mbps
 DETECTOR: Average



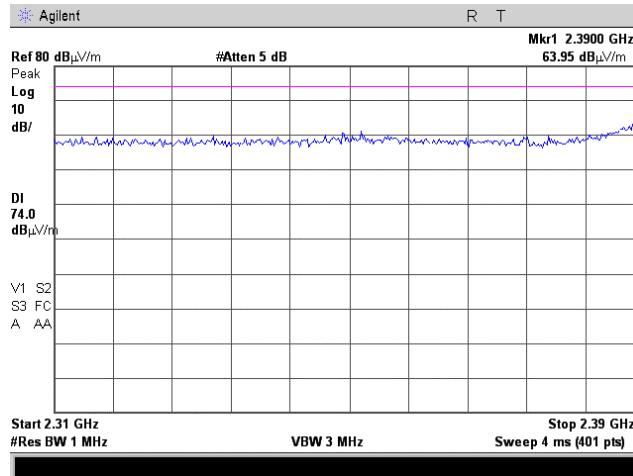


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

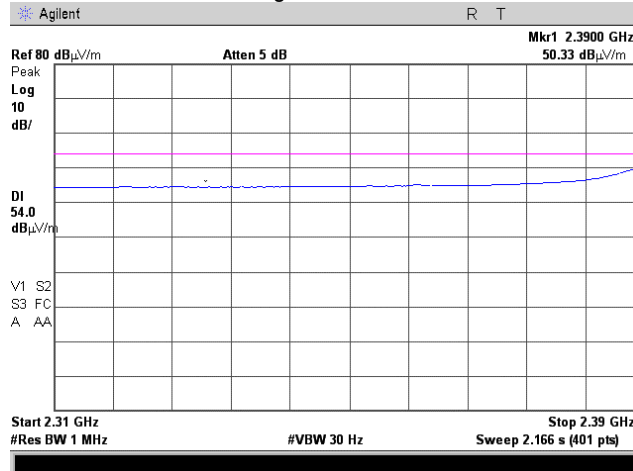
Plot 7.4.161 Radiated emission measurements from 2310 to 2390 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Peak



Plot 7.4.162 Radiated emission measurements from 2310 to 2390 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Average

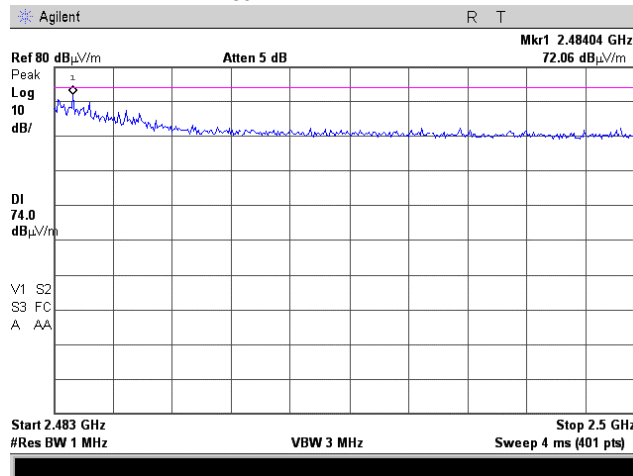




Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

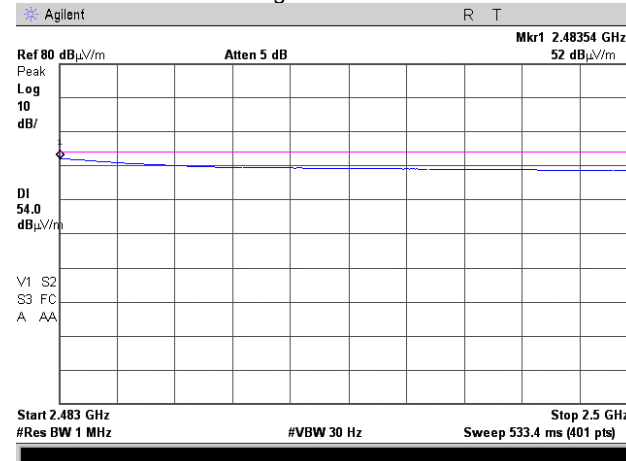
Plot 7.4.163 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK, Bit rate 13 Mbps
 DETECTOR: Peak



Plot 7.4.164 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK, Bit rate 13 Mbps
 DETECTOR: Average

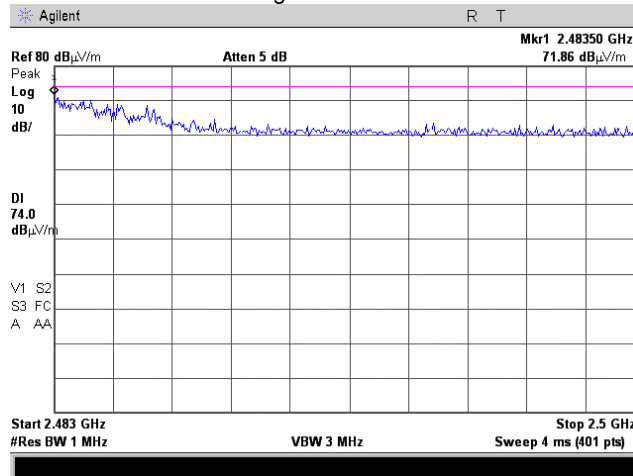




Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

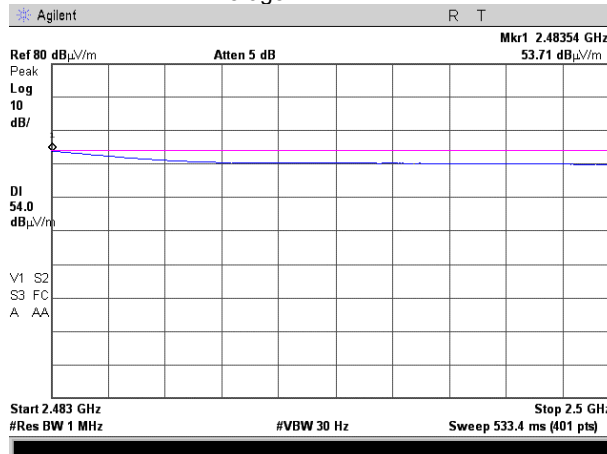
Plot 7.4.165 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK, Bit rate 13 Mbps
 DETECTOR: Average



Plot 7.4.166 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Horizontal
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM BPSK, Bit rate 13 Mbps
 DETECTOR: Average



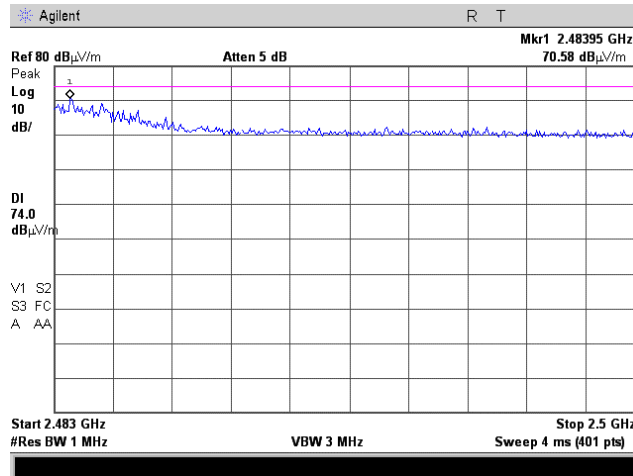


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

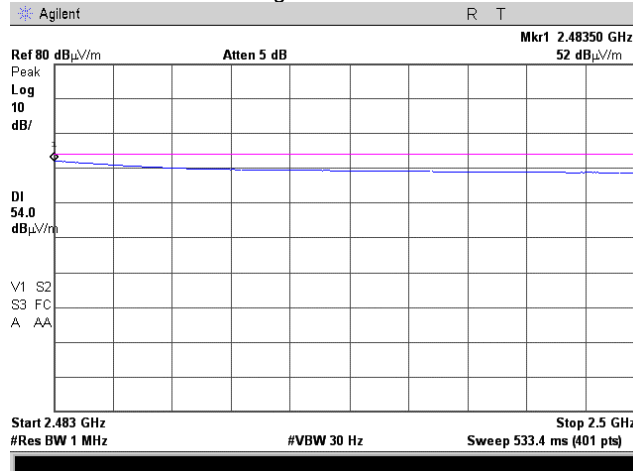
Plot 7.4.167 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Peak



Plot 7.4.168 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical
 EMISSION BANDWIDTH: 20 MHz
 MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
 DETECTOR: Average



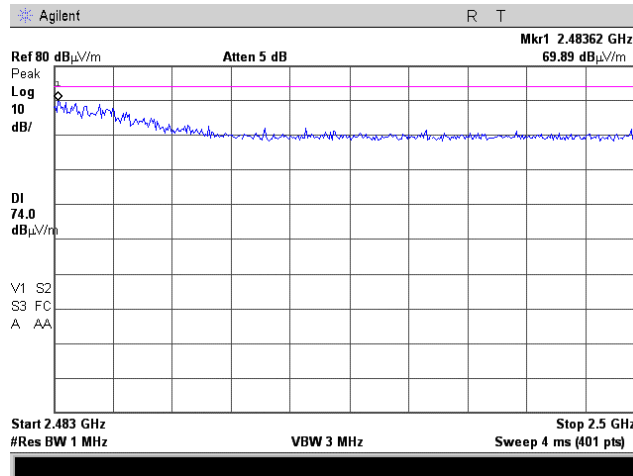


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

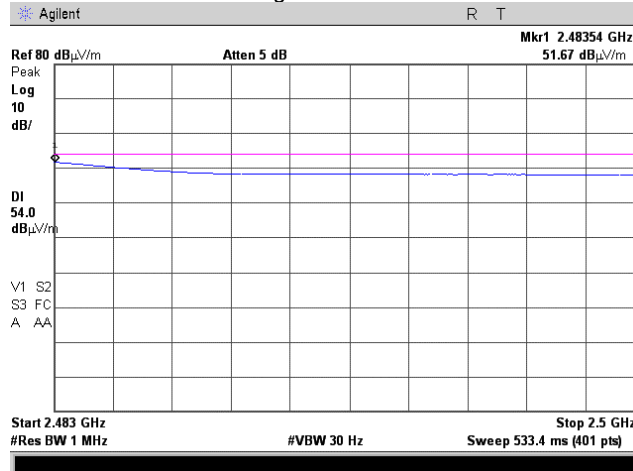
Plot 7.4.169 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
DETECTOR: Peak



Plot 7.4.170 Radiated emission measurements from 2483.5 to 2500 MHz at the high carrier frequency 2462 MHz

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Horizontal
EMISSION BANDWIDTH: 20 MHz
MODULATION: OFDM 64 QAM, Bit rate 130 Mbps
DETECTOR: Average

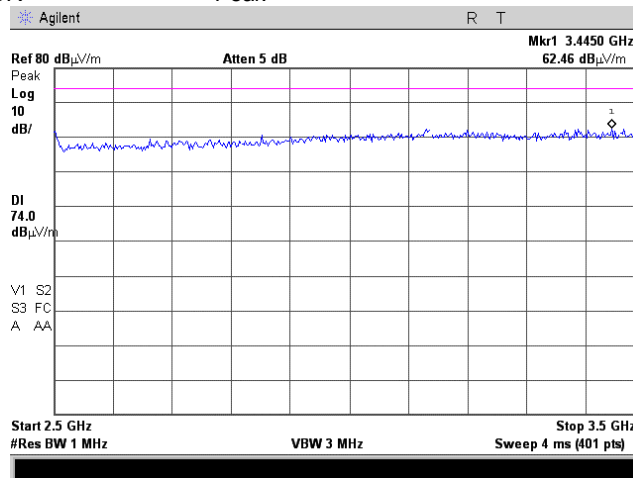




Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

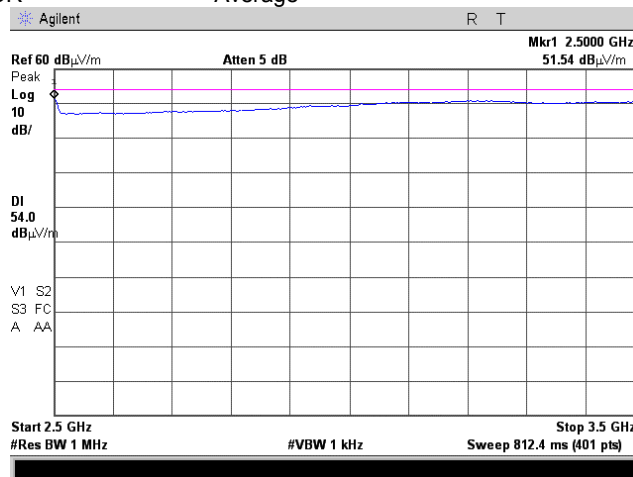
Plot 7.4.171 Radiated emission measurements from 2500 to 3500 MHz at the low carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak



Plot 7.4.172 Radiated emission measurements from 2500 to 3500 MHz at the low carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Average



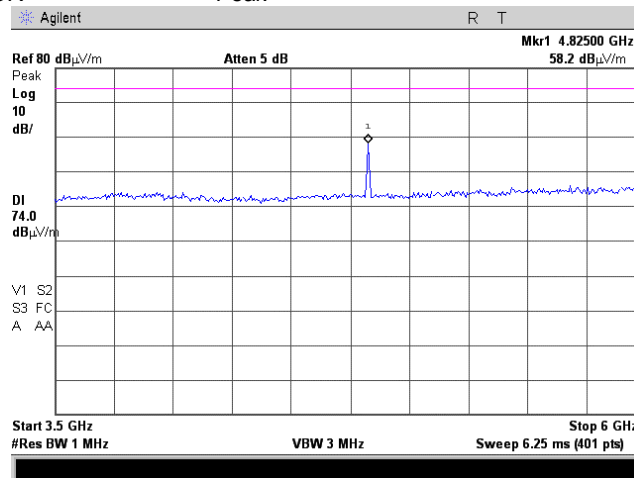


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

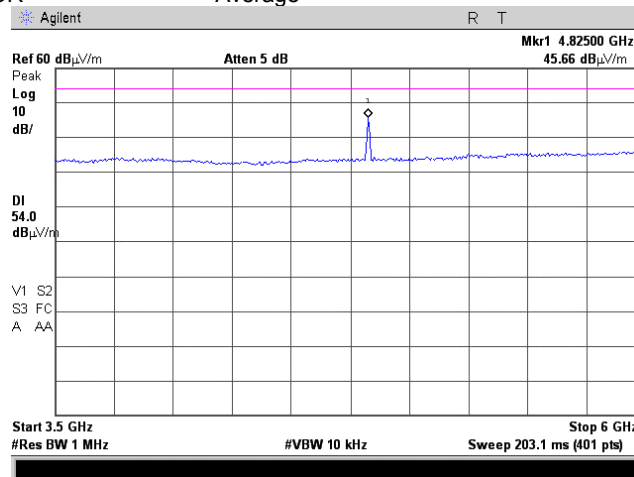
Plot 7.4.173 Radiated emission measurements from 3500 to 6000 MHz at the low carrier frequency

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
MODULATION: OFDM BPSK Bit rate 3.25 Mbps
DETECTOR: Peak



Plot 7.4.174 Radiated emission measurements from 3500 to 6000 MHz at the low carrier frequency

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
MODULATION: OFDM BPSK Bit rate 3.25 Mbps
DETECTOR: Average



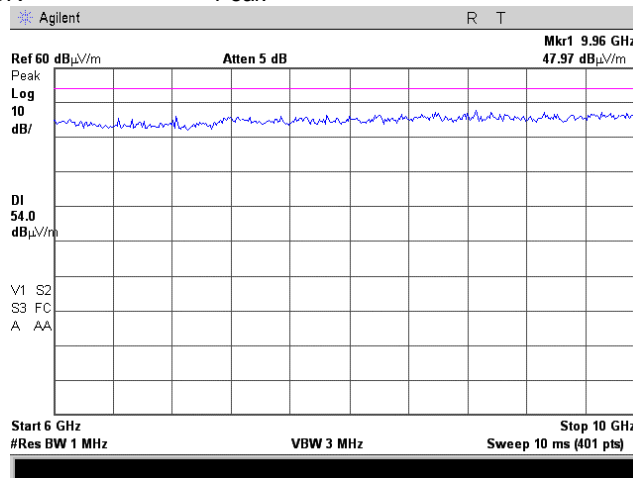


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

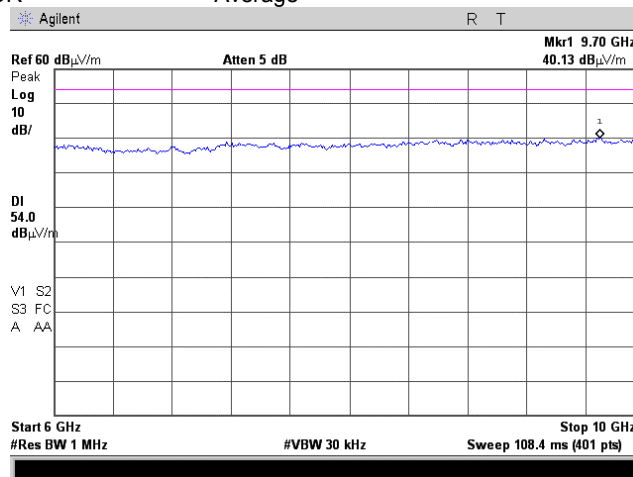
Plot 7.4.175 Radiated emission measurements from 6000 to 10000 MHz at the low carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak



Plot 7.4.176 Radiated emission measurements from 6000 to 10000 MHz at the low carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Average

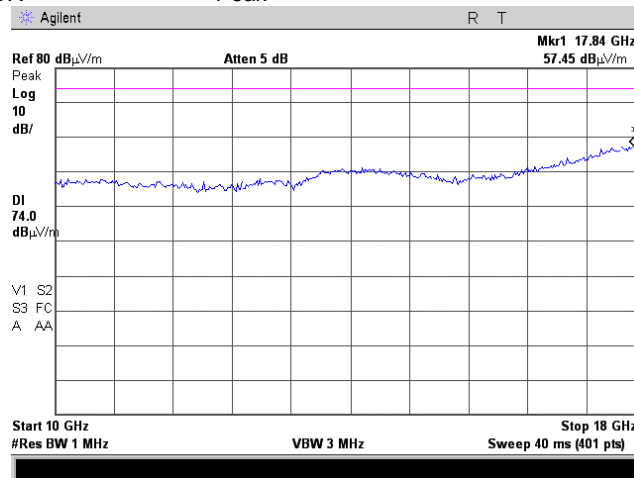




Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

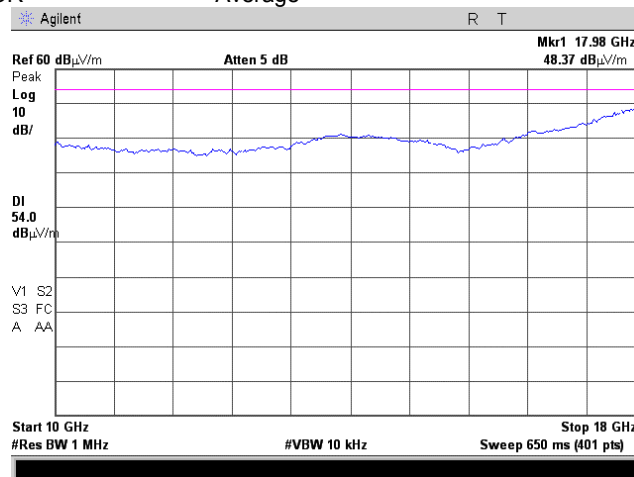
Plot 7.4.177 Radiated emission measurements from 10000 to 18000 MHz at the low carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak



Plot 7.4.178 Radiated emission measurements from 10000 to 18000 MHz at the low carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Average



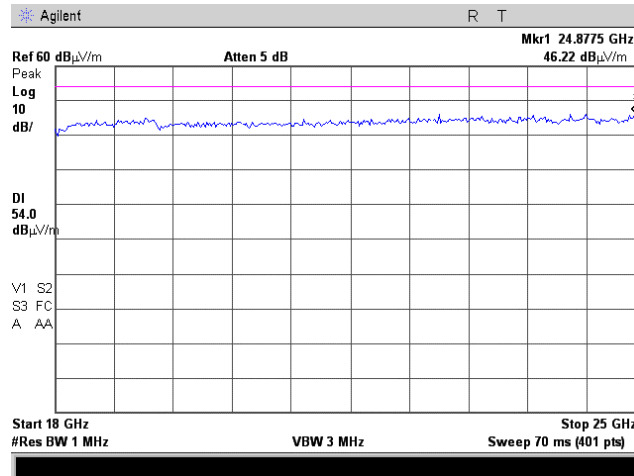


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

Plot 7.4.179 Radiated emission measurements from 18000 to 25000 MHz at the low carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak

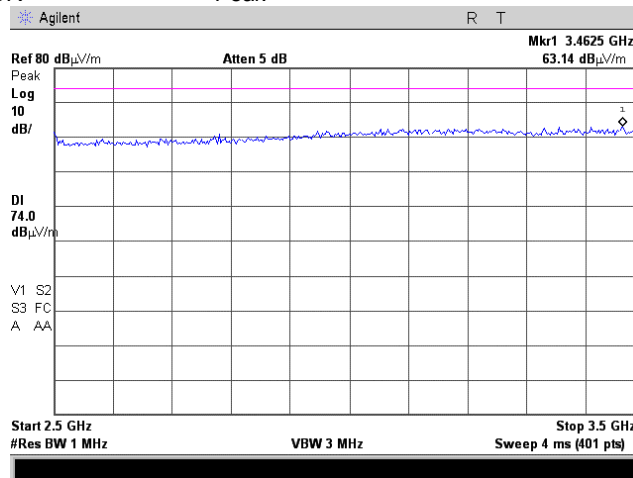




Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

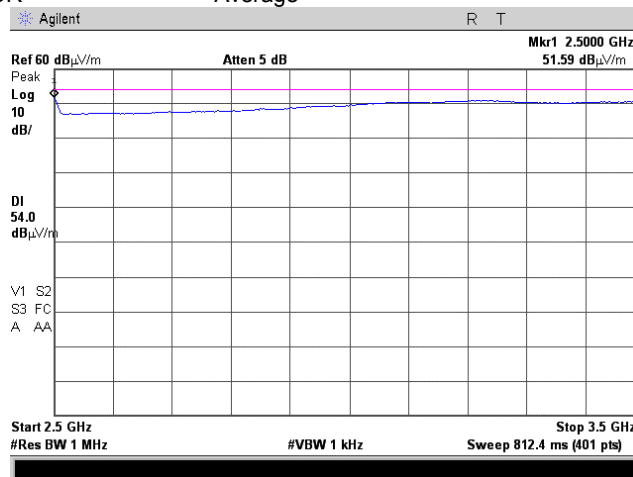
Plot 7.4.180 Radiated emission measurements from 2500 to 3500 MHz at the mid carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 13 Mbps
 DETECTOR: Peak



Plot 7.4.181 Radiated emission measurements from 2500 to 3500 MHz at the mid carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 13 Mbps
 DETECTOR: Average

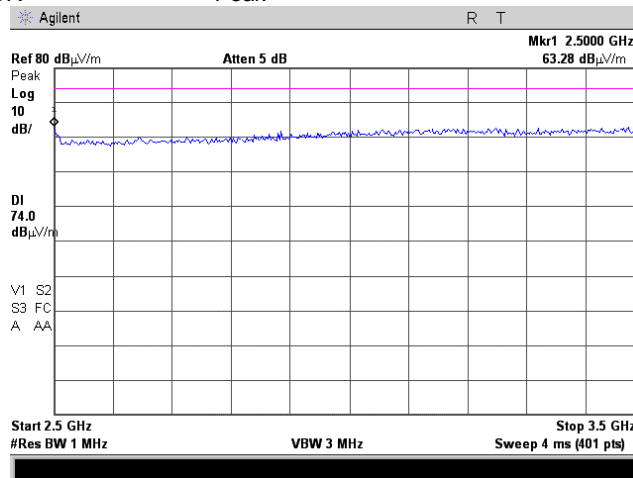




Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

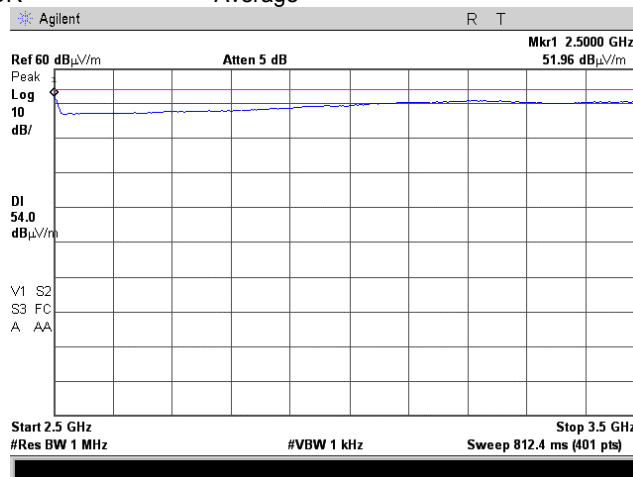
Plot 7.4.182 Radiated emission measurements from 2500 to 3500 MHz at the mid carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak



Plot 7.4.183 Radiated emission measurements from 2500 to 3500 MHz at the mid carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Average

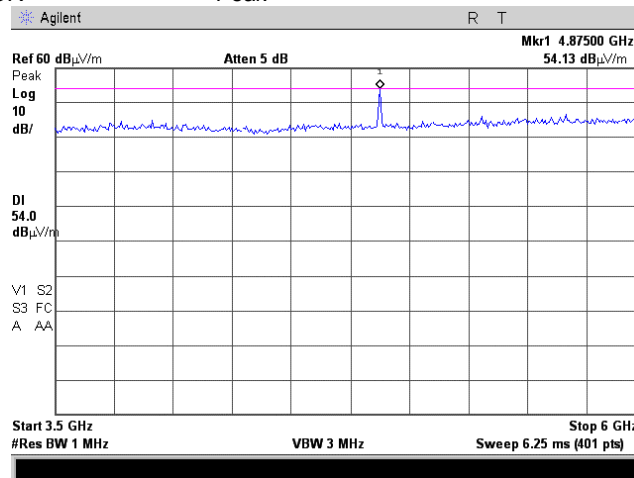




Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

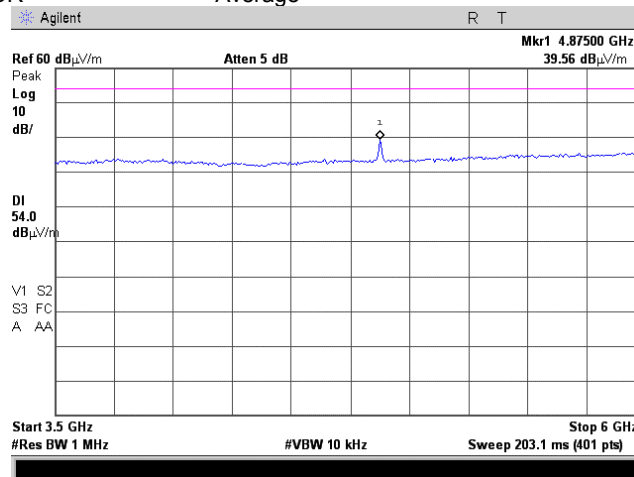
Plot 7.4.184 Radiated emission measurements from 3500 to 6000 MHz at the mid carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak



Plot 7.4.185 Radiated emission measurements from 3500 to 6000 MHz at the mid carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Average

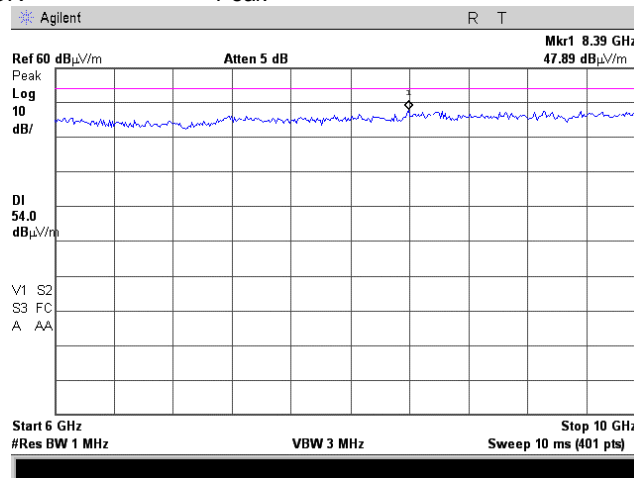




Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

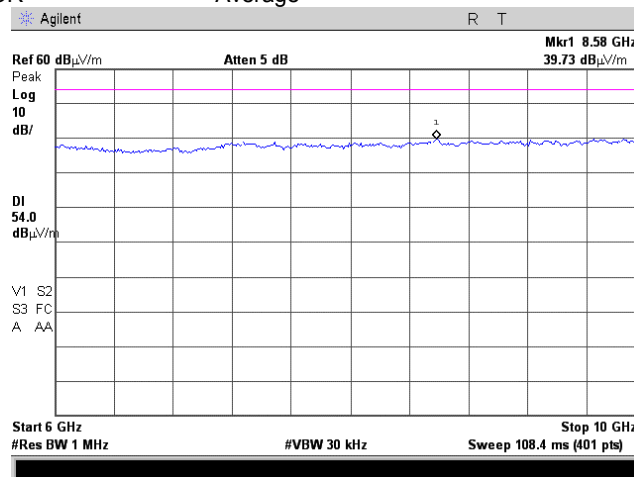
Plot 7.4.186 Radiated emission measurements from 6000 to 10000 MHz at the mid carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak



Plot 7.4.187 Radiated emission measurements from 6000 to 10000 MHz at the mid carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Average

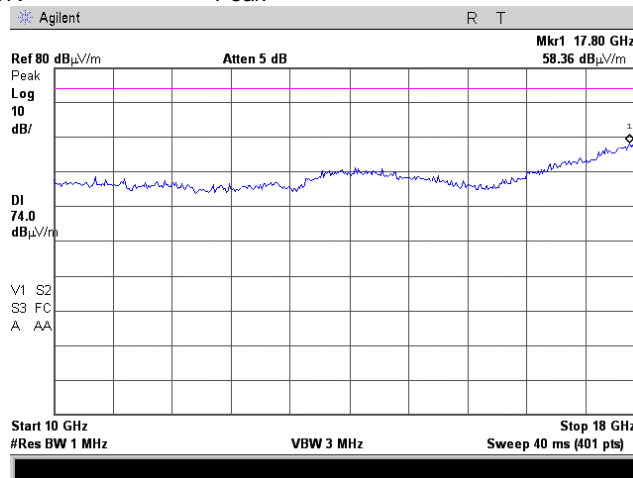




Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

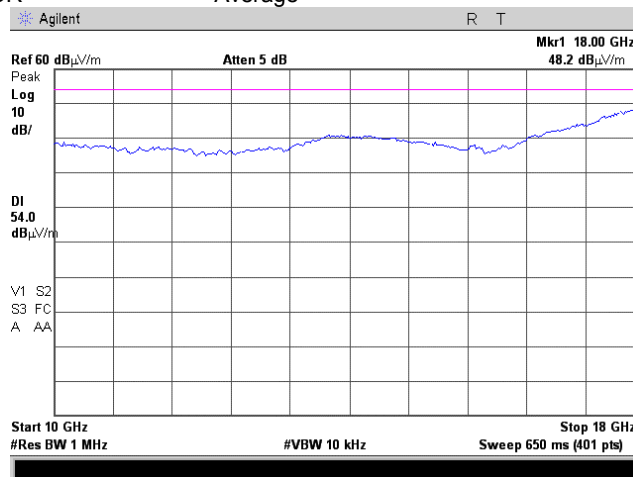
Plot 7.4.188 Radiated emission measurements from 10000 to 18000 MHz at the mid carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak



Plot 7.4.189 Radiated emission measurements from 10000 to 18000 MHz at the mid carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Average



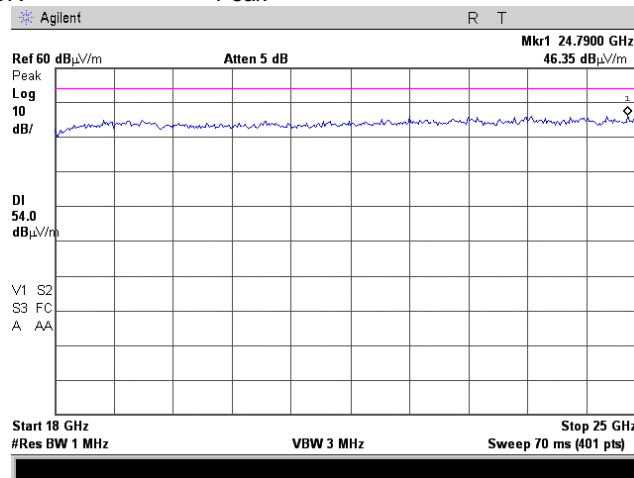


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

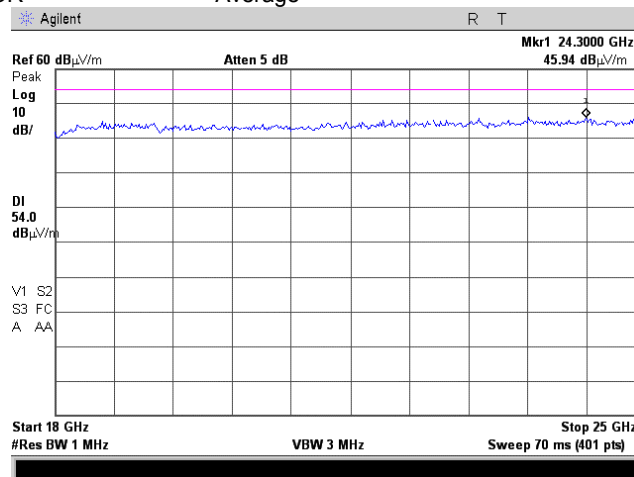
Plot 7.4.190 Radiated emission measurements from 18000 to 25000 MHz at the mid carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak



Plot 7.4.191 Radiated emission measurements from 18000 to 25000 MHz at the mid carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Average

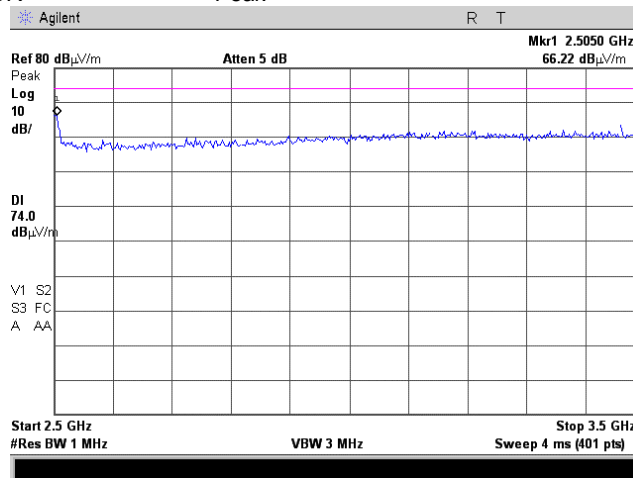




Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

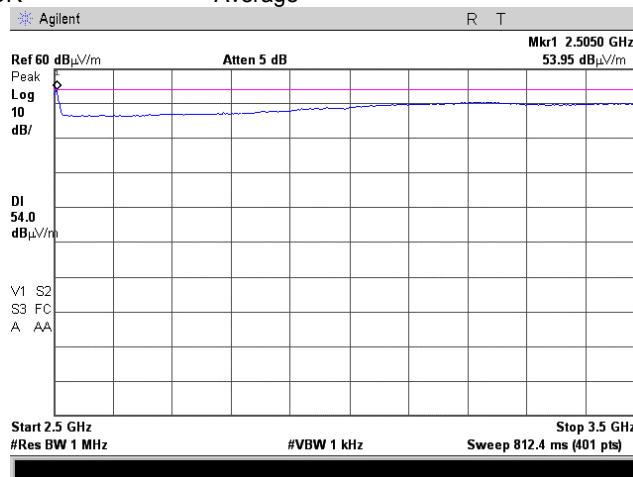
Plot 7.4.192 Radiated emission measurements from 2500 to 3500 MHz at the high carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak



Plot 7.4.193 Radiated emission measurements from 2500 to 3500 MHz at the high carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Average



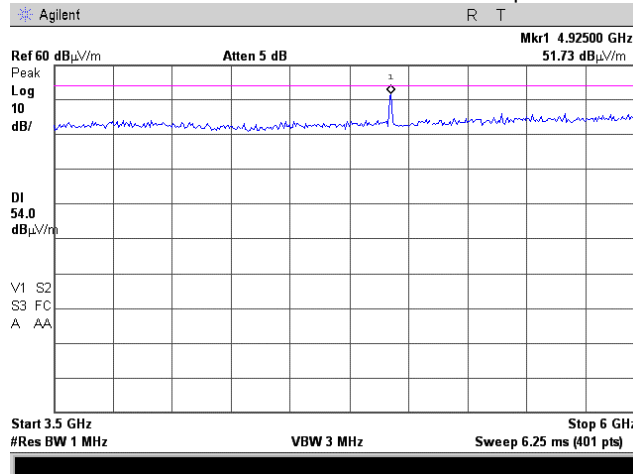


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

Plot 7.4.194 Radiated emission measurements from 3500 to 6000 MHz at the high carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps



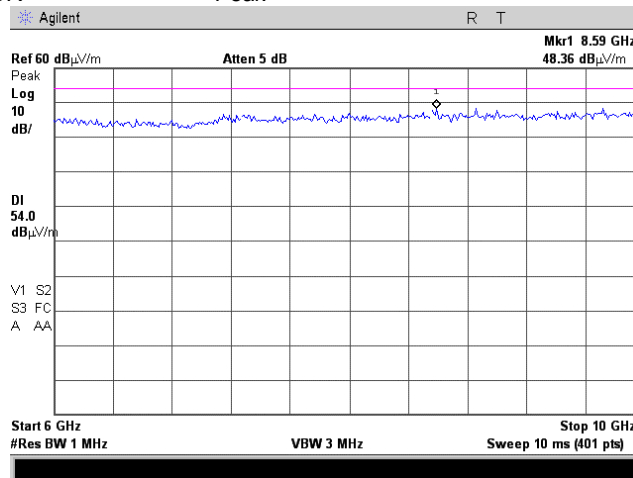


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

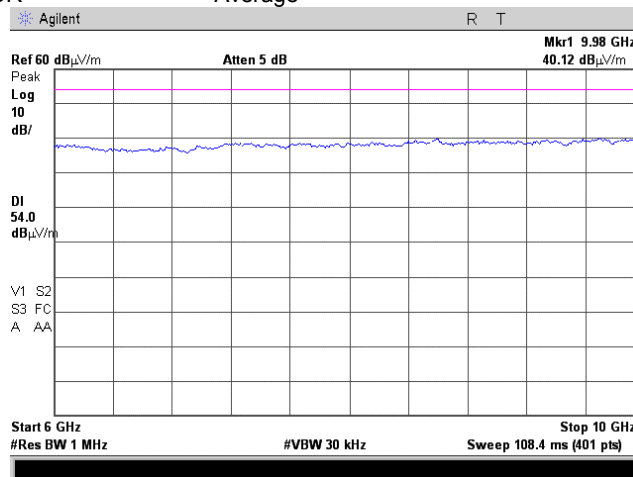
Plot 7.4.195 Radiated emission measurements from 6000 to 10000 MHz at the high carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak



Plot 7.4.196 Radiated emission measurements from 6000 to 10000 MHz at the high carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Average

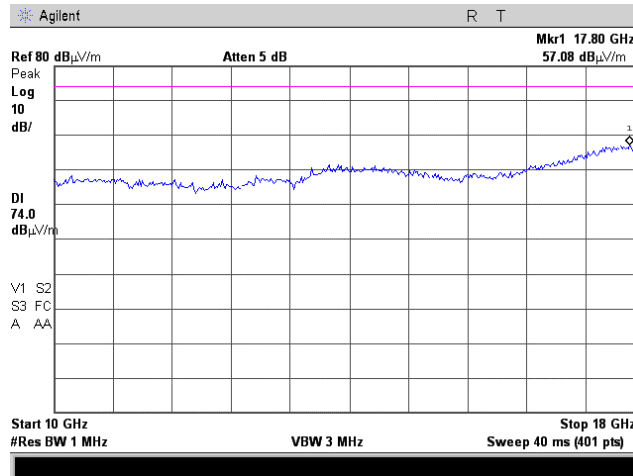




Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

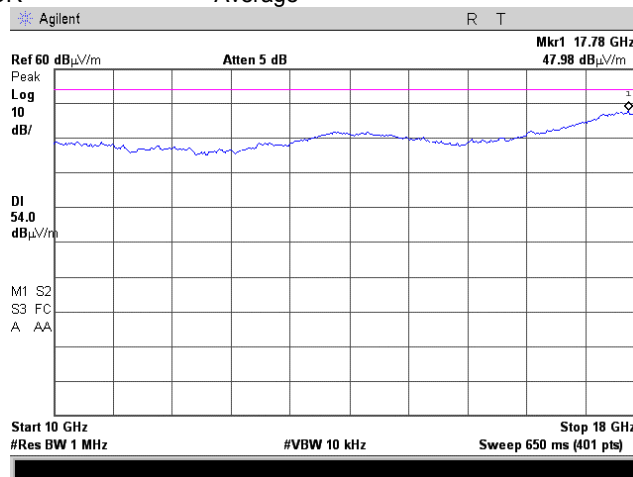
Plot 7.4.197 Radiated emission measurements from 10000 to 18000 MHz at the high carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak



Plot 7.4.198 Radiated emission measurements from 10000 to 18000 MHz at the high carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Average

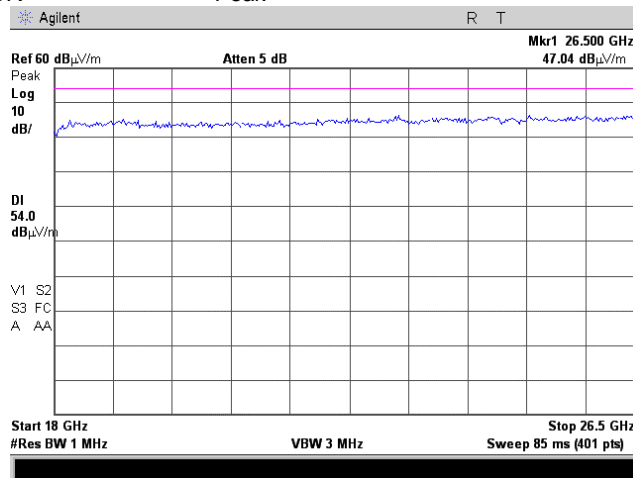




Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

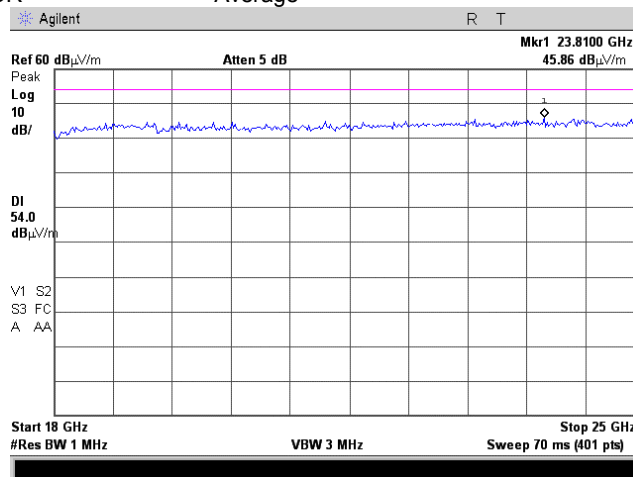
Plot 7.4.199 Radiated emission measurements from 18000 to 25000 MHz at the high carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Peak



Plot 7.4.200 Radiated emission measurements from 18000 to 25000 MHz at the high carrier frequency

TEST SITE: OATS
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 MODULATION: OFDM BPSK Bit rate 3.25 Mbps
 DETECTOR: Average

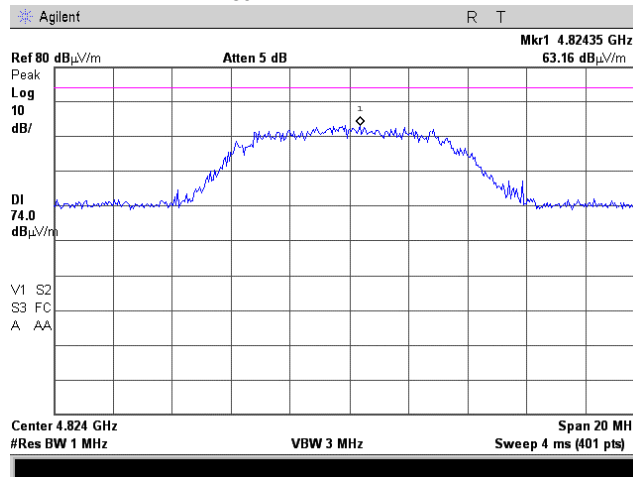




Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

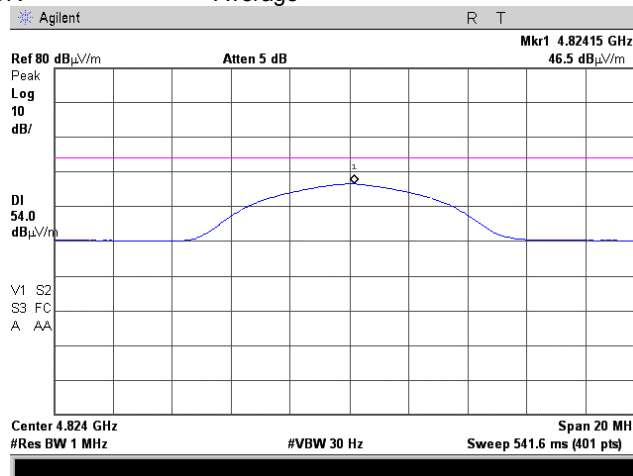
Plot 7.4.201 Radiated emission measurements at the second harmonic of low carrier frequency

TEST SITE: OATS
TEST DISTANCE: 3 m
DETECTOR: Peak



Plot 7.4.202 Radiated emission measurements at the second harmonic of low carrier frequency

TEST SITE: OATS
TEST DISTANCE: 3 m
DETECTOR: Average



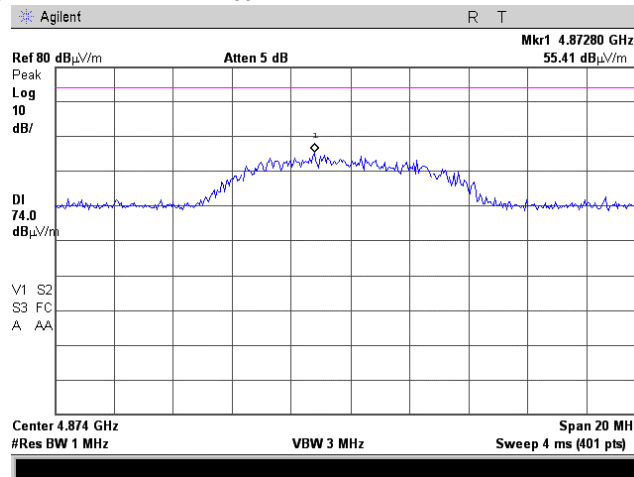


HERMON LABORATORIES

Test specification: FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 1:37:58 PM			
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

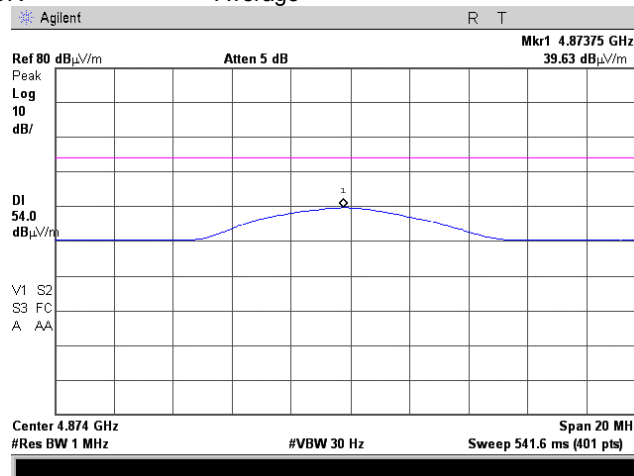
Plot 7.4.203 Radiated emission measurements at the second harmonic of mid carrier frequency

TEST SITE: OATS
TEST DISTANCE: 3 m
DETECTOR: Peak



Plot 7.4.204 Radiated emission measurements at the second harmonic of mid carrier frequency

TEST SITE: OATS
TEST DISTANCE: 3 m
DETECTOR: Average



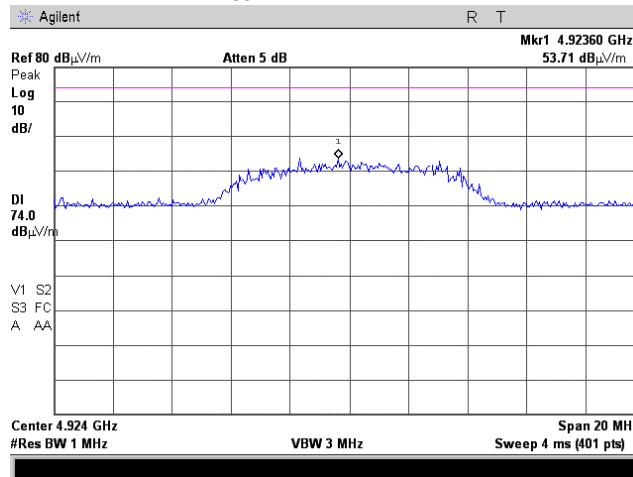


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)/ ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 1:37:58 PM		
Temperature: 22.7 °C	Air Pressure: 1011 hPa	Relative Humidity: 43 %	Power Supply: 120VAC
Remarks:			

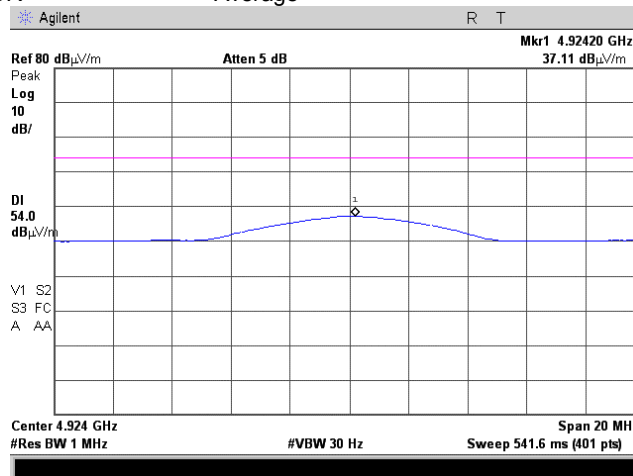
Plot 7.4.205 Radiated emission measurements at the second harmonic of high carrier frequency

TEST SITE: OATS
TEST DISTANCE: 3 m
DETECTOR: Peak



Plot 7.4.206 Radiated emission measurements at the second harmonic of high carrier frequency

TEST SITE: OATS
TEST DISTANCE: 3 m
DETECTOR: Average





Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

7.5 Peak spectral power density

7.5.1 General

This test was performed to measure the peak spectral power density at the transmitter RF antenna connector. Specification test limits are given in Table 7.5.1.

Table 7.5.1 Peak spectral power density limits

Assigned frequency range, MHz	Measurement bandwidth, kHz	Peak spectral power density, dBm
2400.0 – 2483.5	3.0	8.0

7.5.2 Test procedure

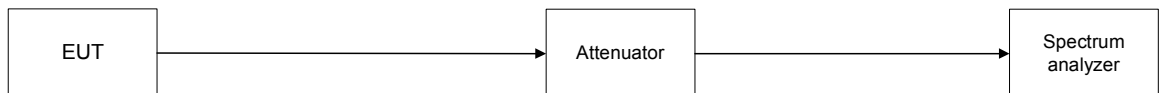
7.5.2.1 The EUT was set up as shown in Figure 7.5.1, energized and its proper operation was checked.

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

7.5.2.3 The frequency span of spectrum analyzer was set to capture the entire 6 dB band of the transmitter, in peak hold mode with resolution bandwidth set to 3.0 kHz, video bandwidth wider than resolution bandwidth, auto sweep time and sufficient number of sweeps was allowed for trace stabilization. The spectrum lines spacing was verified to be wider than 3 kHz. Otherwise the resolution bandwidth was reduced until individual spectrum lines were resolved and the power of individual spectrum lines was integrated over 3 kHz band.

7.5.2.4 The peak of emission was zoomed with span set just wide enough to capture the emission peak area and sweep time was set equal to span width divided by resolution bandwidth. Spectrum analyzer was set in peak hold mode, sufficient number of sweeps was allowed for trace stabilization and peak spectral power density was measured as provided in Table 7.5.2 and associated plots.

Figure 7.5.1 Peak spectral power density test setup





Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

Table 7.5.2 Peak spectral power density test results

ASSIGNED FREQUENCY: 2400.0 – 2483.5 MHz
 MODULATION: OFDM
 TRANSMITTER OUTPUT POWER SETTINGS: Maximum
 DETECTOR USED: Peak
 RESOLUTION BANDWIDTH: 3 kHz
 VIDEO BANDWIDTH: 10 kHz

Modulation, Bit rate, Mbps	Spectrum analyzer reading, dBm		Total peak spectral power density, dBm/3 kHz*	Limit, dBm	Margin**, dBm	Verdict
	Antenna 1	Antenna 2				
5 MHz BW, Low channel						
BPSK, 3.25	-8.34	-7.58	-4.93	8.0	-12.93	Pass
64QAM, 32.5	-7.99	-8.53	-5.24	8.0	-13.24	Pass
5 MHz BW, Mid Low channel						
BPSK, 3.25	-7.94	-8.70	-5.29	8	-13.29	Pass
64QAM, 32.5	-8.39	-9.65	-5.96	8	-13.96	Pass
5 MHz BW, Mid channel						
BPSK, 3.25	-9.12	-6.13	-4.36	8.0	-12.36	Pass
64QAM, 32.5	-9.76	-8.65	-6.16	8.0	-14.16	Pass
5 MHz BW, Mid High channel						
BPSK, 3.25	-8.79	-9.18	-5.97	8.0	-13.97	Pass
64QAM, 32.5	-8.69	-9.22	-5.94	8.0	-13.94	Pass
5 MHz BW, High channel						
BPSK, 3.25	-10.07	-10.44	-7.24	8.0	-15.24	Pass
64QAM, 32.5	-10.85	-11.03	-7.93	8.0	-15.93	Pass
10 MHz BW, Low channel						
BPSK, 6.5	-12.31	-12.38	-9.33	8.0	-17.33	Pass
64QAM, 65	-12.48	-12.91	-9.68	8.0	-17.68	Pass
10 MHz BW, Mid Low channel						
BPSK, 6.5	-13.63	-13.05	-10.32	8.0	-18.32	Pass
64QAM, 65	-13.00	-12.30	-9.63	8.0	-17.63	Pass
10 MHz BW, Mid channel						
BPSK, 6.5	-12.71	-12.93	-9.81	8.0	-17.81	Pass
64QAM, 65	-13.31	-13.45	-10.37	8.0	-18.37	Pass
10 MHz BW, Mid High channel						
BPSK, 6.5	-12.55	-12.58	-9.55	8.0	-17.55	Pass
64QAM, 65	-12.52	-14.15	-10.25	8.0	-18.25	Pass
10 MHz BW, High channel						
BPSK, 6.5	-13.97	-13.92	-10.93	8.0	-18.93	Pass
64QAM, 65	-13.13	-13.29	-10.20	8.0	-18.20	Pass

* - The total peak spectral power density is the sum of measured at 2 antenna outputs

** - Margin = Peak power density – specification limit.



HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

Table 7.5.2 Peak spectral power density test results (continued)

ASSIGNED FREQUENCY: 2400.0 – 2483.5 MHz
 MODULATION: OFDM
 TRANSMITTER OUTPUT POWER SETTINGS: Maximum
 DETECTOR USED: Peak
 RESOLUTION BANDWIDTH: 3 kHz
 VIDEO BANDWIDTH: 10 kHz

Modulation, Bit rate, Mbps	Spectrum analyzer reading, dBm		Total peak spectral power density, dBm/3 kHz*	Limit, dBm	Margin**, dBm	Verdict
	Antenna 1	Antenna 2				
20 MHz BW, Low channel						
BPSK, 13	-21.81	-23.53	-19.58	8.0	-27.58	Pass
64QAM, 130	-22.60	-22.87	-19.72	8.0	-27.72	Pass
20 MHz BW, Mid Low channel						
BPSK, 13	-15.17	-14.39	-11.75	8.0	-19.75	Pass
64QAM, 130	-15.76	-15.38	-12.56	8.0	-20.56	Pass
20 MHz BW, Mid channel						
BPSK, 13	-15.33	-13.01	-11.01	8.0	-19.01	Pass
64QAM, 130	-13.39	-15.12	-11.16	8.0	-19.16	Pass
20 MHz BW, Mid High channel						
BPSK, 13	-13.24	-14.74	-10.92	8.0	-18.92	Pass
64QAM, 130	-13.17	-14.29	-10.68	8.0	-18.68	Pass
20 MHz BW, High channel						
BPSK, 13	-21.90	-23.04	-19.42	8.0	-27.42	Pass
64QAM, 130	-22.73	-23.14	-19.92	8.0	-27.92	Pass

* - The total peak spectral power density is the sum of measured at 2 antenna outputs

** - Margin = Peak power density – specification limit.

Reference numbers of test equipment used

HL 2643	HL 2883	HL 2909	HL 3174	HL 3176	HL 3179		
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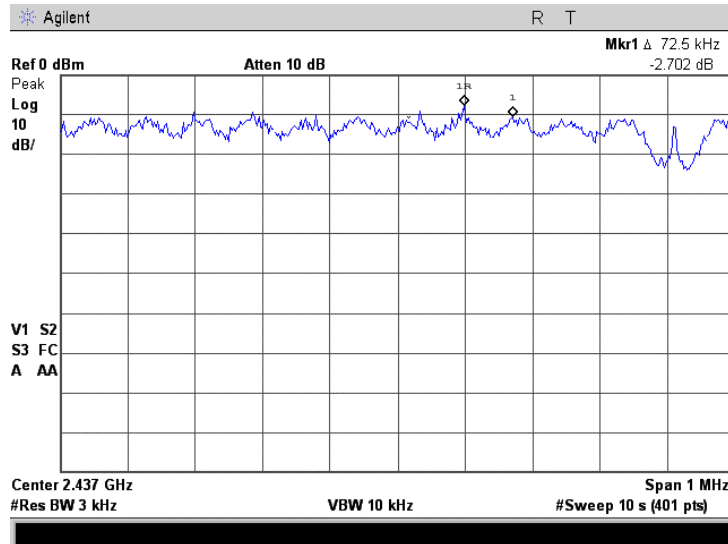
Full description is given in Appendix A.



HERMON LABORATORIES

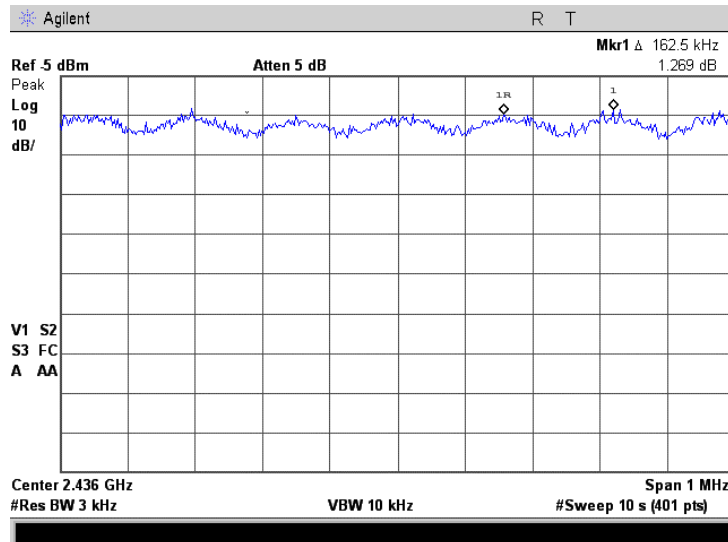
Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

Plot 7.5.1 Peak spectral power density – spectral line spacing, channel bandwidth 5 MHz



Spectral line spacing is greater than 3 kHz – no correction for used RBW is required

Plot 7.5.2 Peak spectral power density – spectral line spacing, channel bandwidth 10 MHz



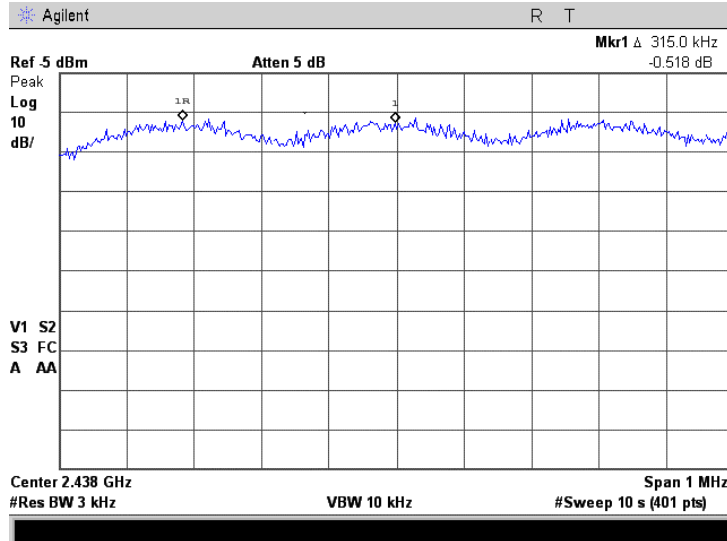
Spectral line spacing is greater than 3 kHz – no correction for used RBW is required



HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

Plot 7.5.3 Peak spectral power density – spectral line spacing, channel bandwidth 20 MHz



Spectral line spacing is greater than 3 kHz – no correction for used RBW is required

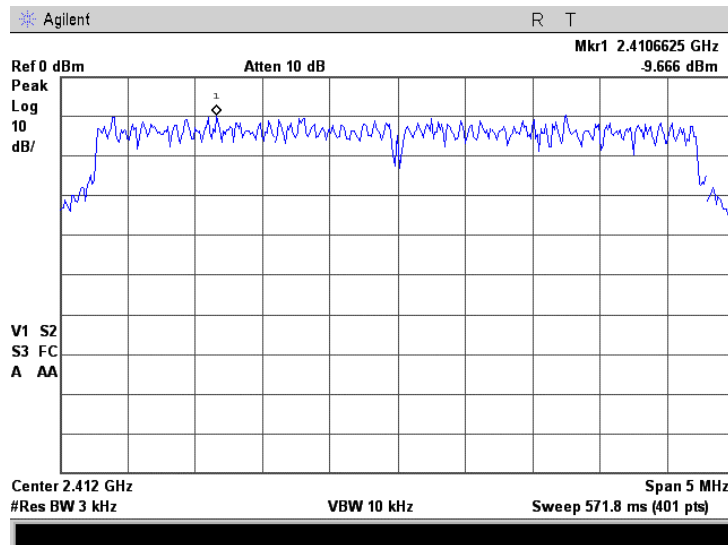


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

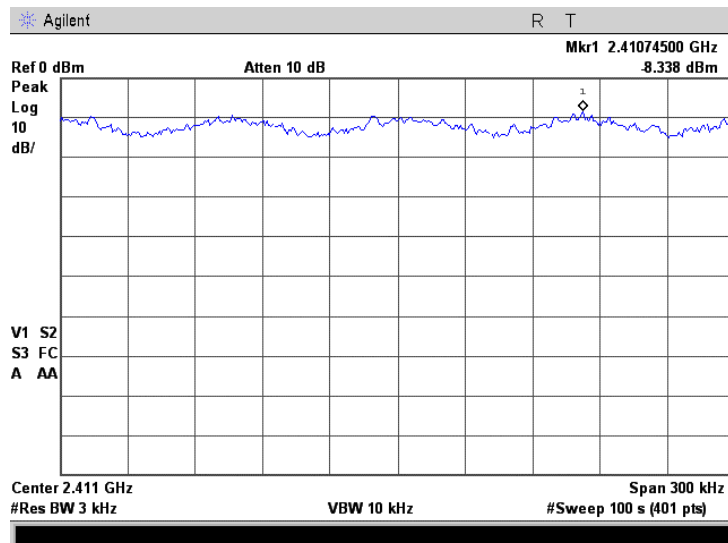
Plot 7.5.4 Peak spectral power density at low frequency 2412 MHz within 6 dB band, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



Plot 7.5.5 Peak spectral power density at low frequency 2412 MHz zoomed at the peak, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25

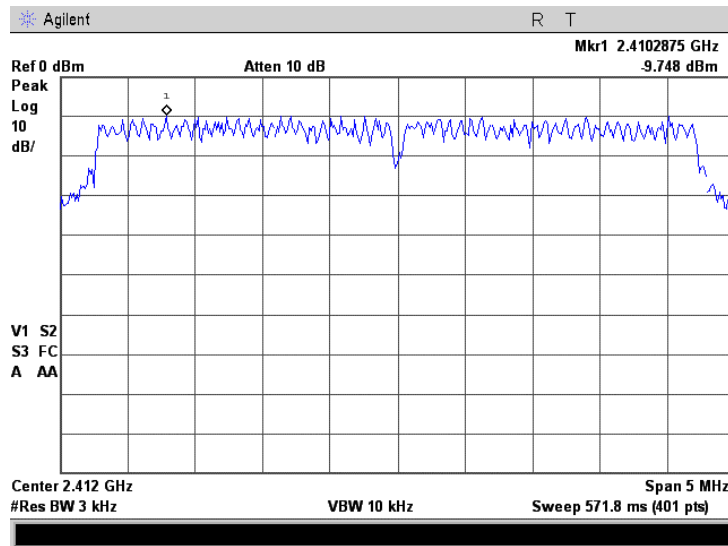




Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

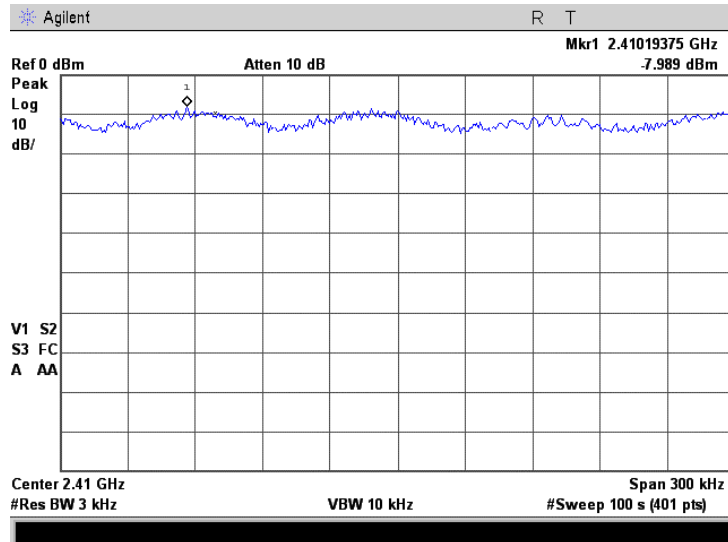
Plot 7.5.6 Peak spectral power density at low frequency 2412 MHz within 6 dB band, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



Plot 7.5.7 Peak spectral power density at low frequency 2412 MHz zoomed at the peak, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



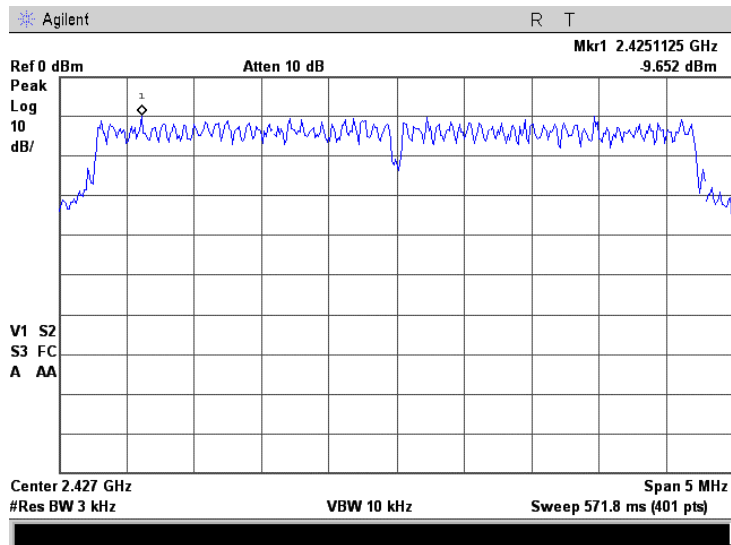


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

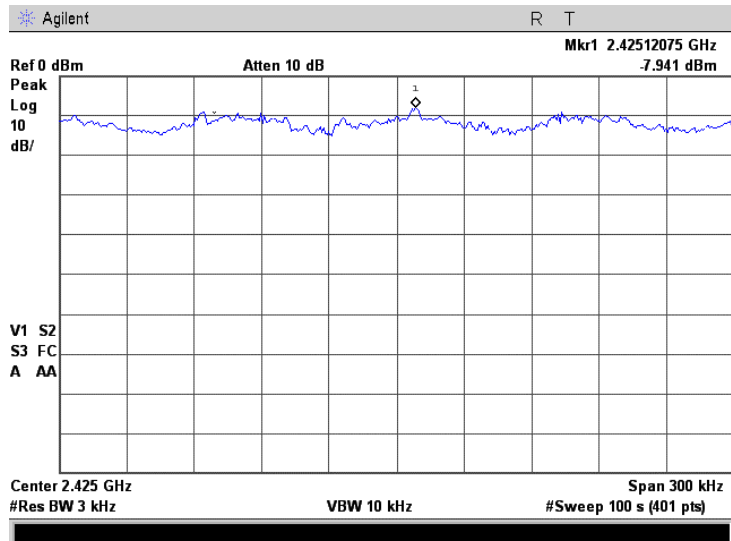
Plot 7.5.8 Peak spectral power density at low frequency 2427 MHz within 6 dB band, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



Plot 7.5.9 Peak spectral power density at low frequency 2427 MHz zoomed at the peak, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25

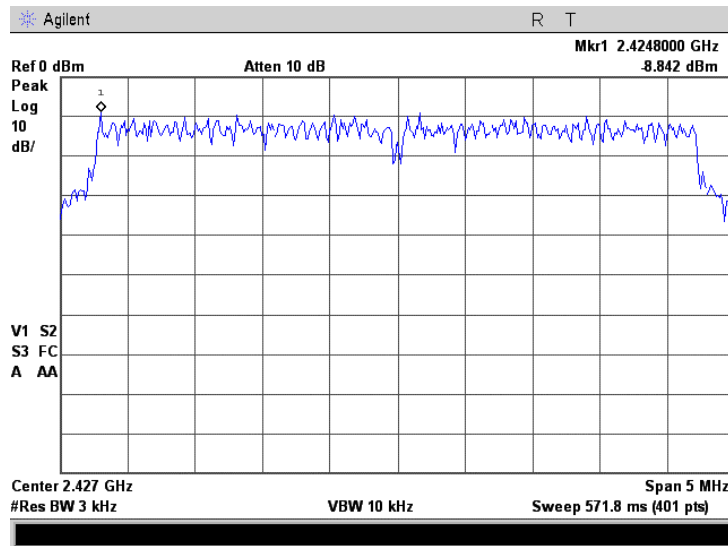




Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

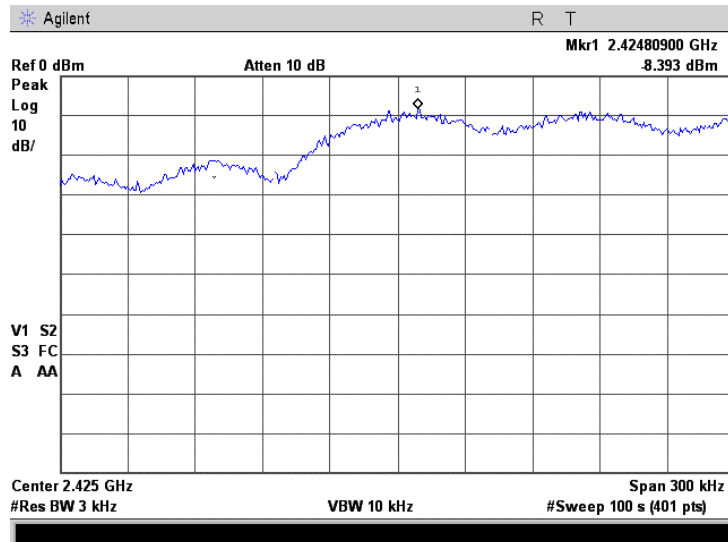
Plot 7.5.10 Peak spectral power density at low frequency 2427 MHz within 6 dB band, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



Plot 7.5.11 Peak spectral power density at low frequency 2427 MHz zoomed at the peak, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



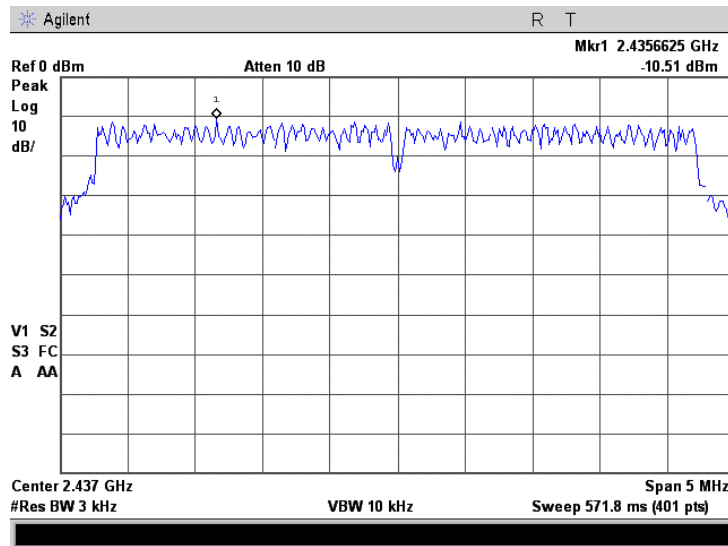


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

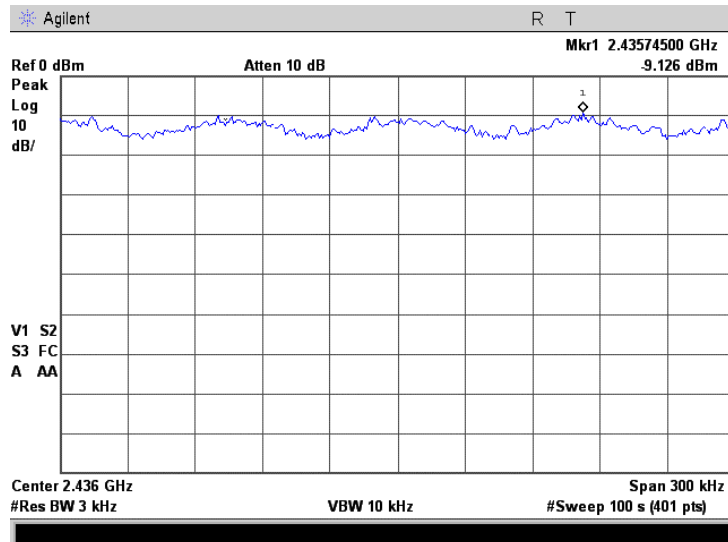
Plot 7.5.12 Peak spectral power density at mid frequency 2437 MHz within 6 dB band, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



Plot 7.5.13 Peak spectral power density at mid frequency 2437 MHz zoomed at the peak, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



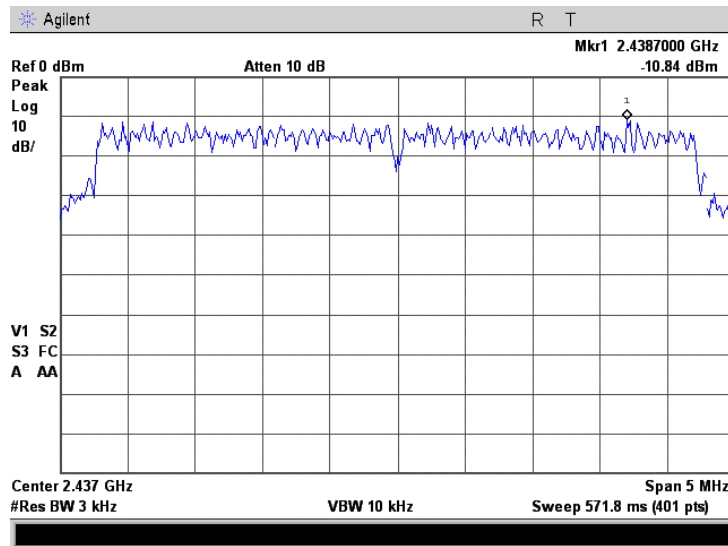


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

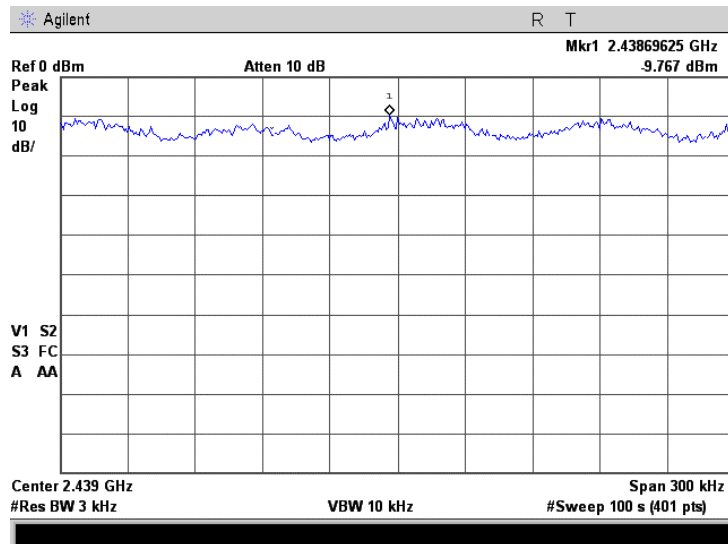
Plot 7.5.14 Peak spectral power density at mid frequency 2437 MHz within 6 dB band, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



Plot 7.5.15 Peak spectral power density at mid frequency 2437 MHz zoomed at the peak, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



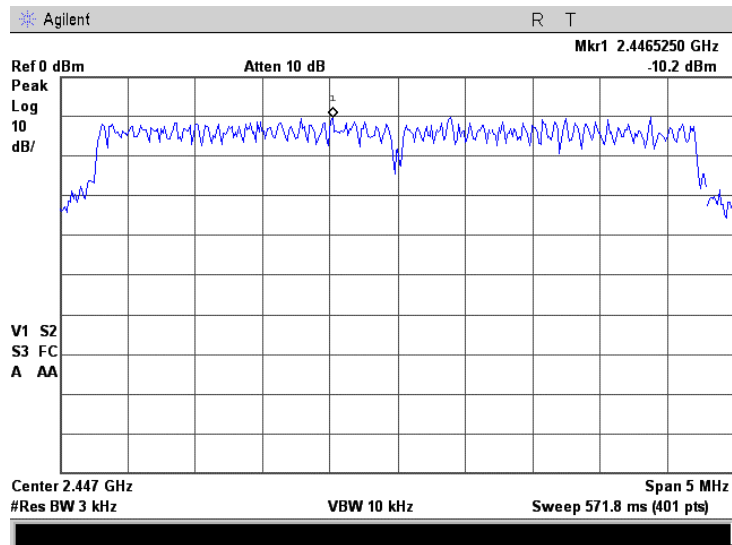


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

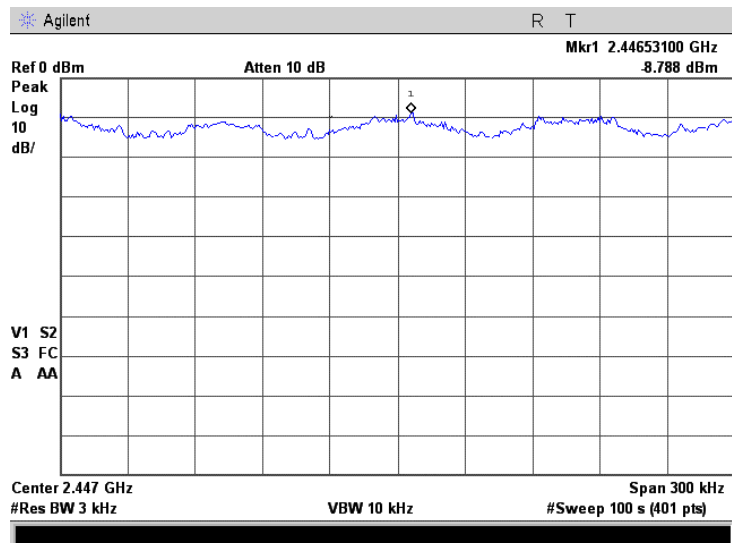
Plot 7.5.16 Peak spectral power density at high frequency 2447 MHz within 6 dB band, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



Plot 7.5.17 Peak spectral power density at high frequency 2447 MHz zoomed at the peak, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



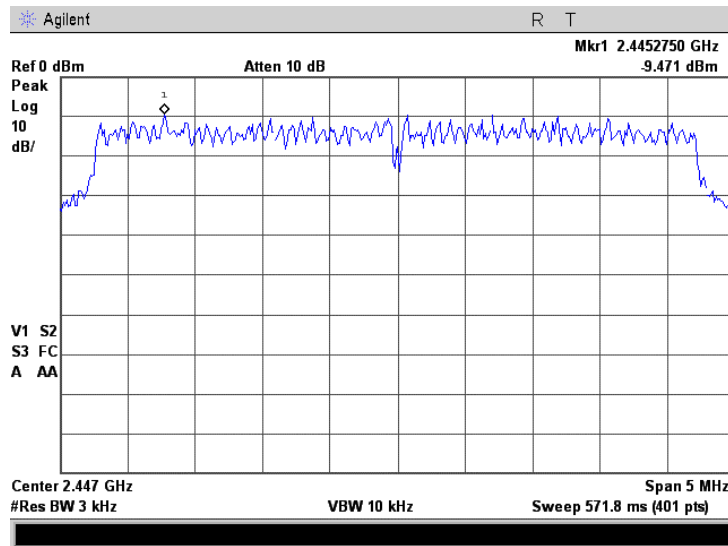


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

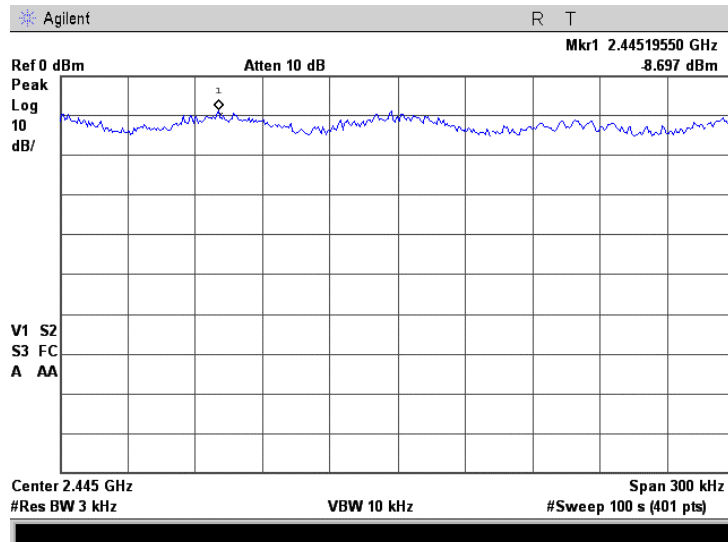
Plot 7.5.18 Peak spectral power density at high frequency 2447 MHz within 6 dB band, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



Plot 7.5.19 Peak spectral power density at high frequency 2447 MHz zoomed at the peak, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



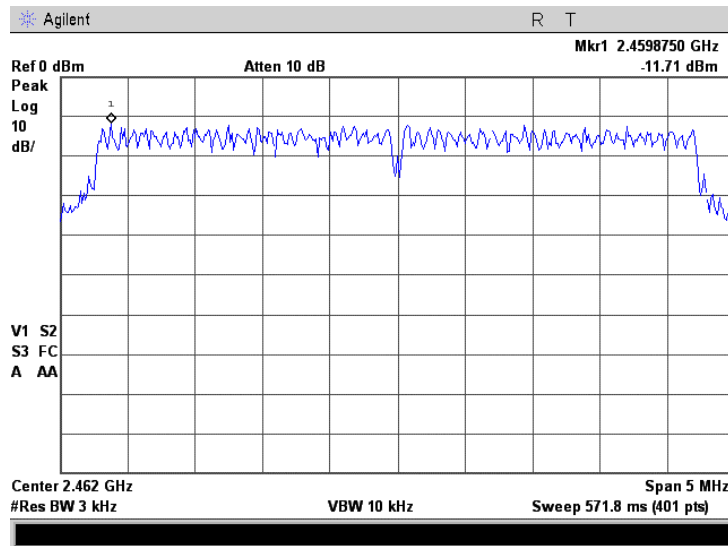


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

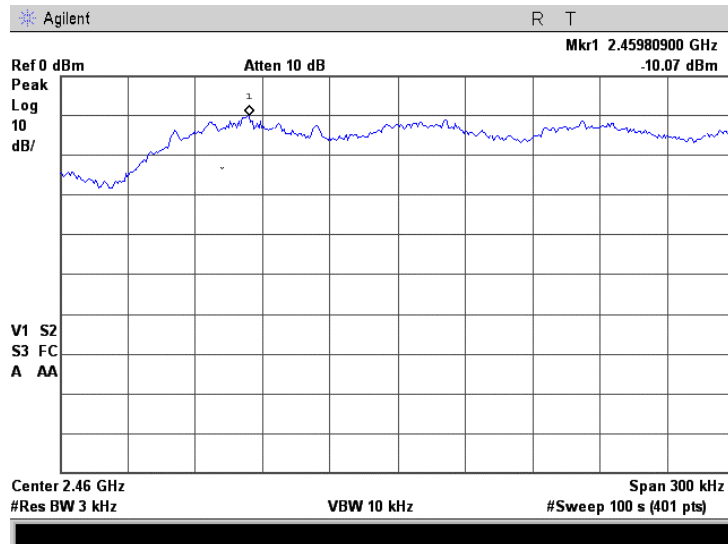
Plot 7.5.20 Peak spectral power density at high frequency 2462 MHz within 6 dB band, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



Plot 7.5.21 Peak spectral power density at high frequency 2462 MHz zoomed at the peak, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



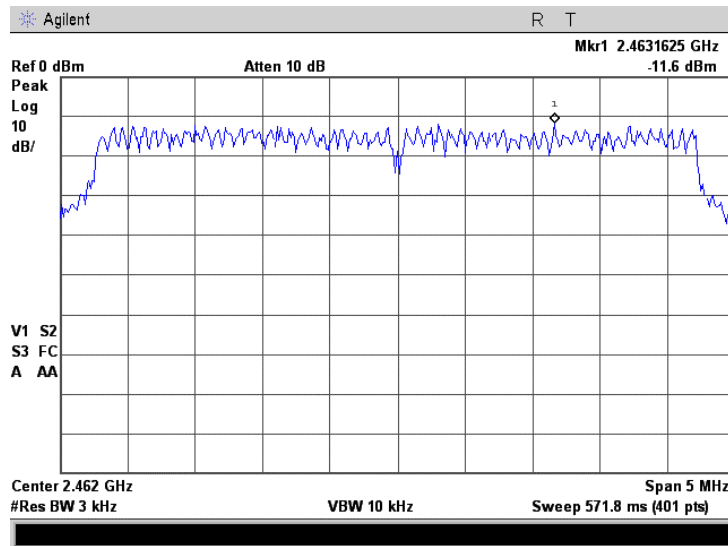


HERMON LABORATORIES

Test specification:		Section 15.247(e), RSS-210 section A8.2(b), Peak power density	
Test procedure:		FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

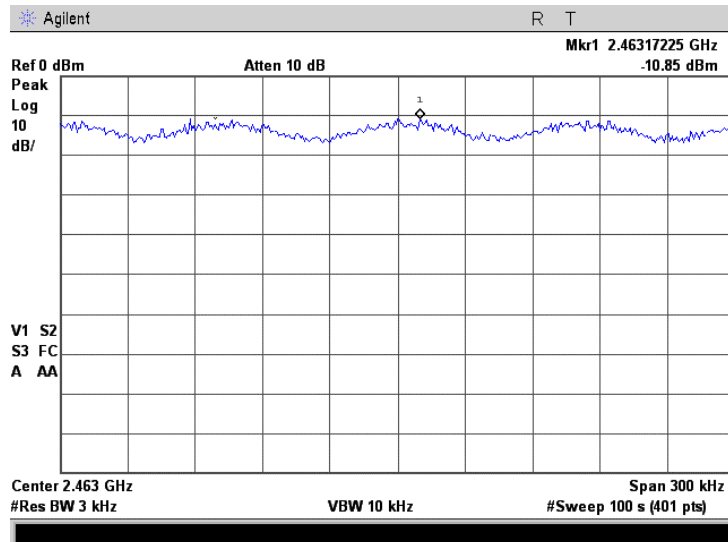
Plot 7.5.22 Peak spectral power density at high frequency 2462 MHz within 6 dB band, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



Plot 7.5.23 Peak spectral power density at high frequency 2462 MHz zoomed at the peak, antenna 1

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



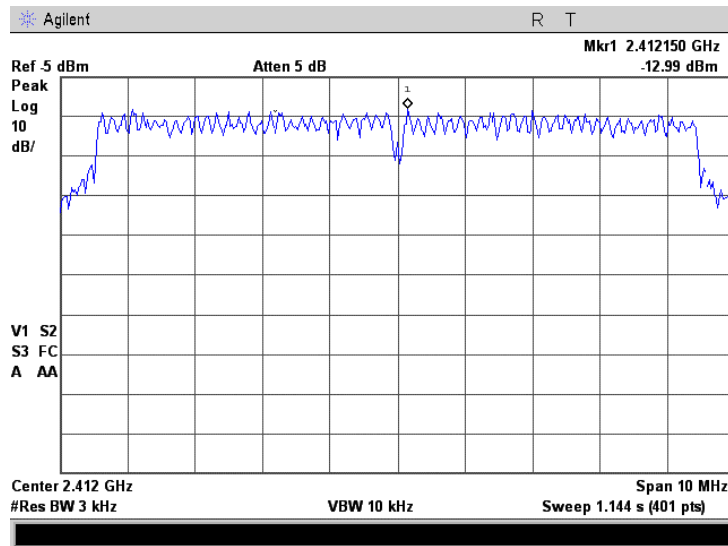


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

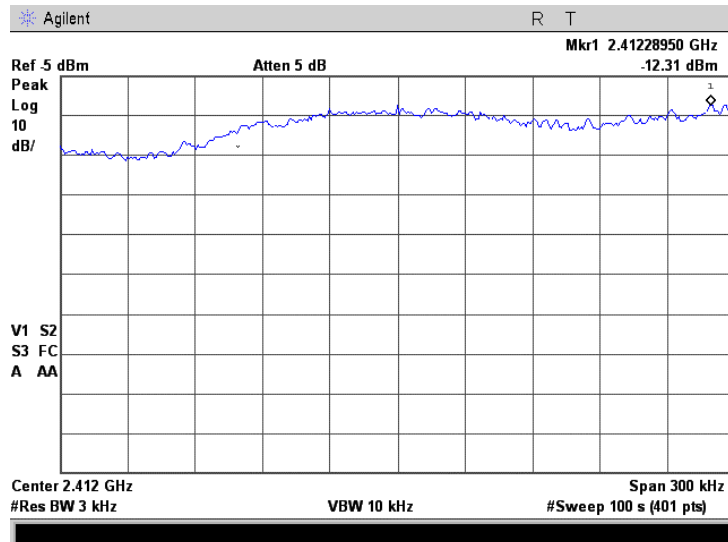
Plot 7.5.24 Peak spectral power density at low frequency 2412 MHz within 6 dB band, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



Plot 7.5.25 Peak spectral power density at low frequency 2412 MHz zoomed at the peak, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



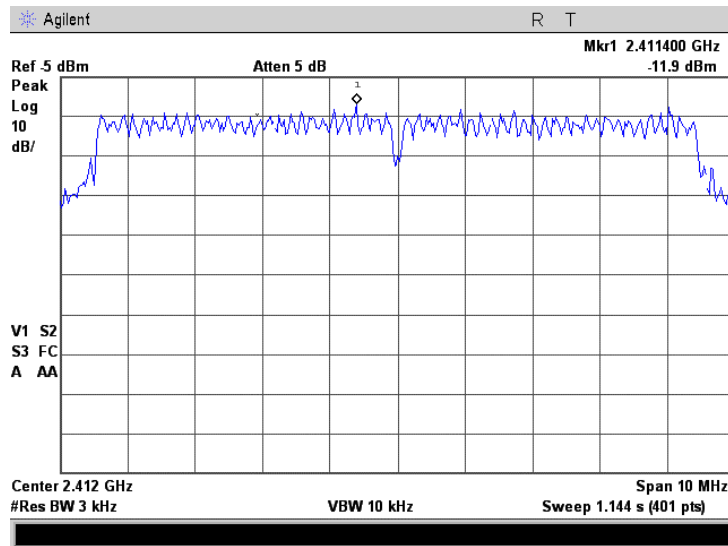


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

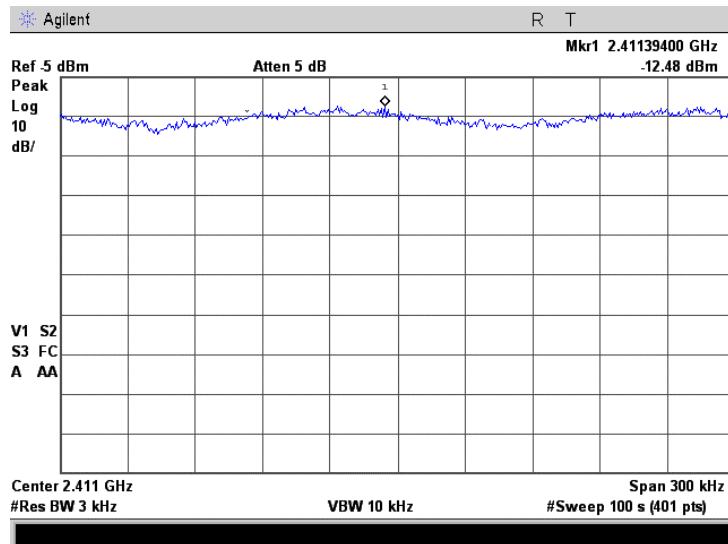
Plot 7.5.26 Peak spectral power density at low frequency 2412 MHz within 6 dB band, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65



Plot 7.5.27 Peak spectral power density at low frequency 2412 MHz zoomed at the peak, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65



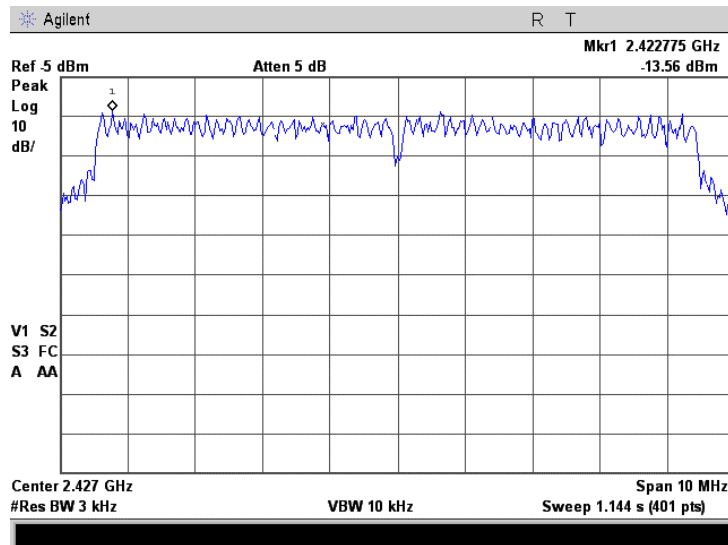


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

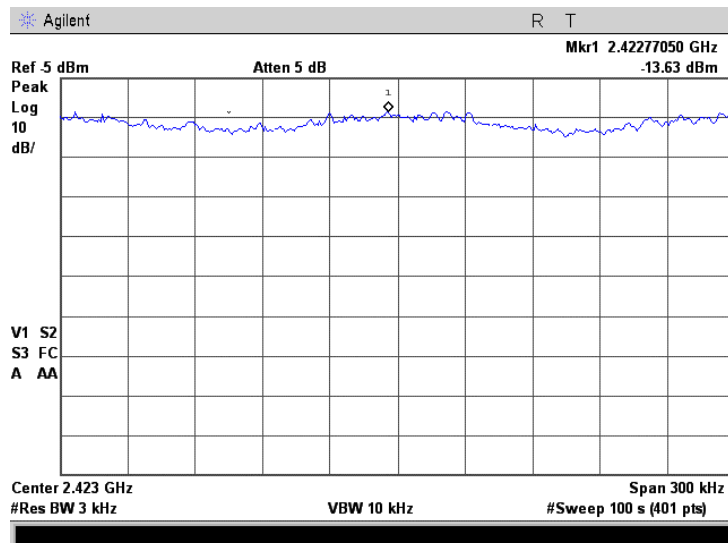
Plot 7.5.28 Peak spectral power density at low frequency 2427 MHz within 6 dB band, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



Plot 7.5.29 Peak spectral power density at low frequency 2427 MHz zoomed at the peak, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



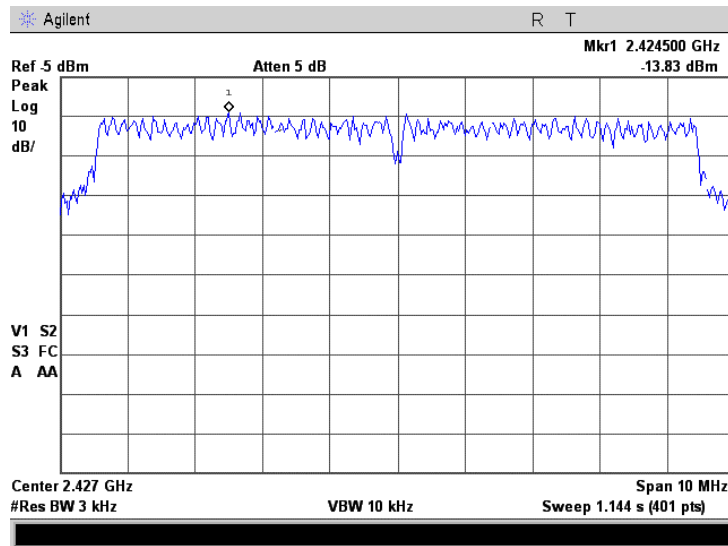


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

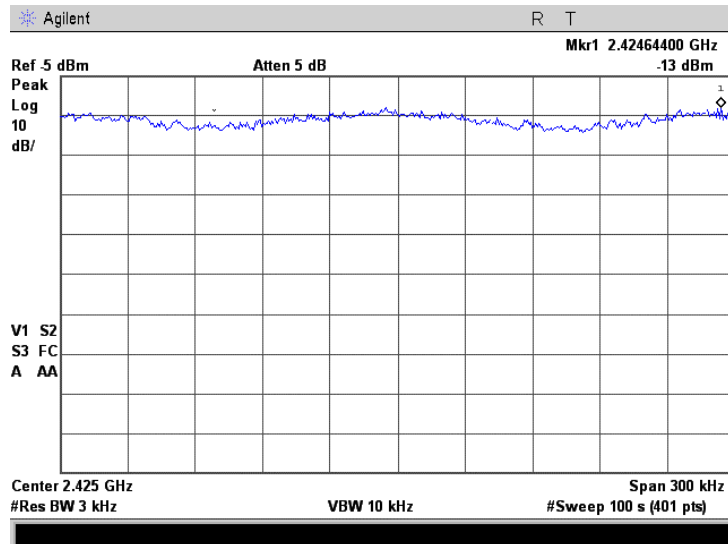
Plot 7.5.30 Peak spectral power density at low frequency 2427 MHz within 6 dB band, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65



Plot 7.5.31 Peak spectral power density at low frequency 2427 MHz zoomed at the peak, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65



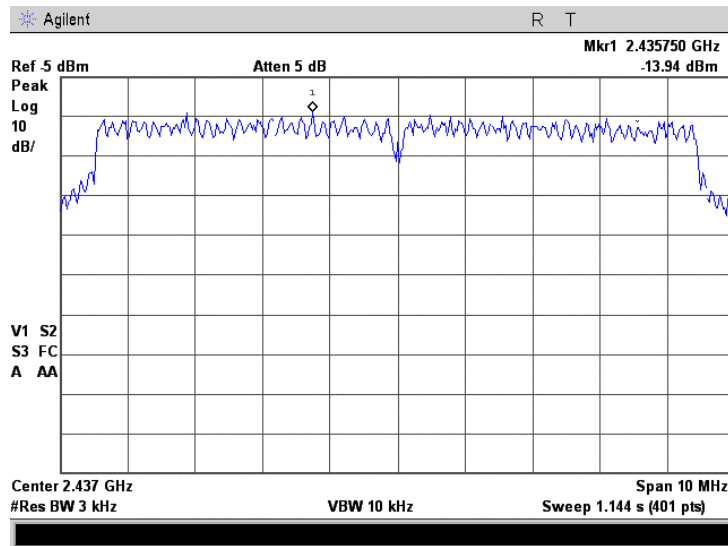


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

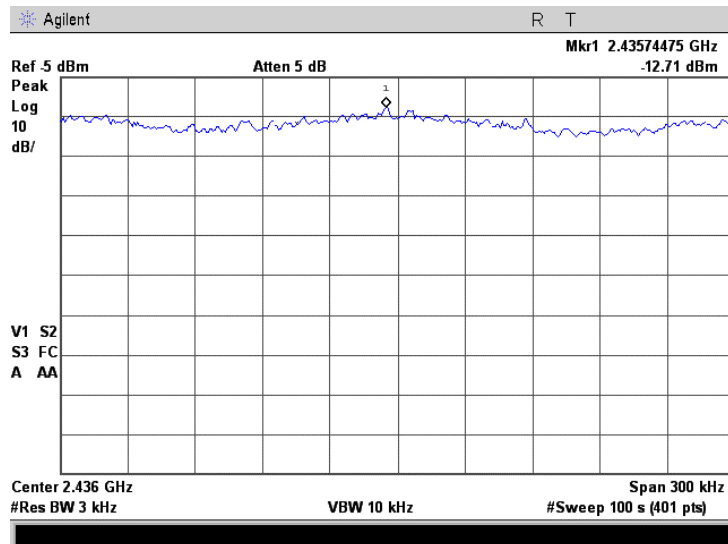
Plot 7.5.32 Peak spectral power density at mid frequency 2437 MHz within 6 dB band, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



Plot 7.5.33 Peak spectral power density at mid frequency 2437 MHz zoomed at the peak, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



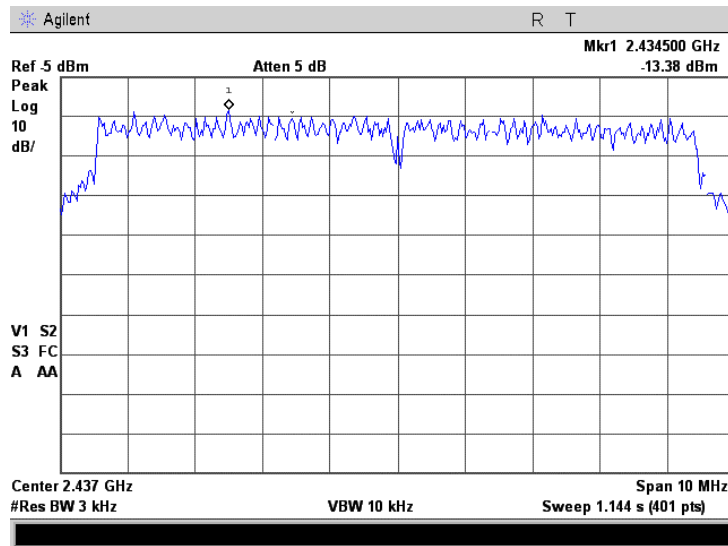


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

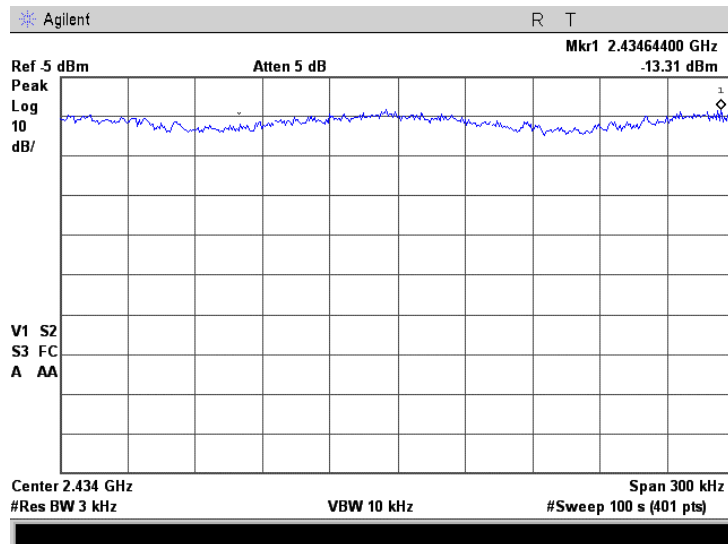
Plot 7.5.34 Peak spectral power density at mid frequency 2437 MHz within 6 dB band, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65



Plot 7.5.35 Peak spectral power density at mid frequency 2437 MHz zoomed at the peak, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65

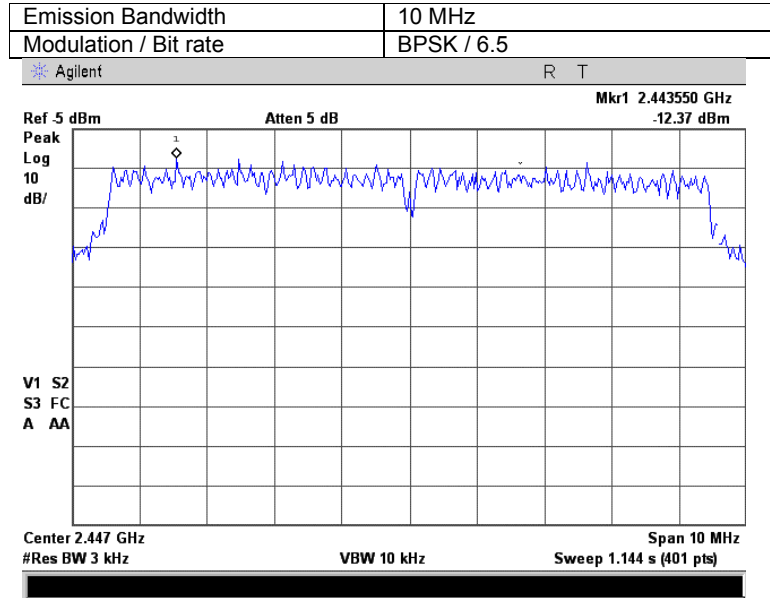




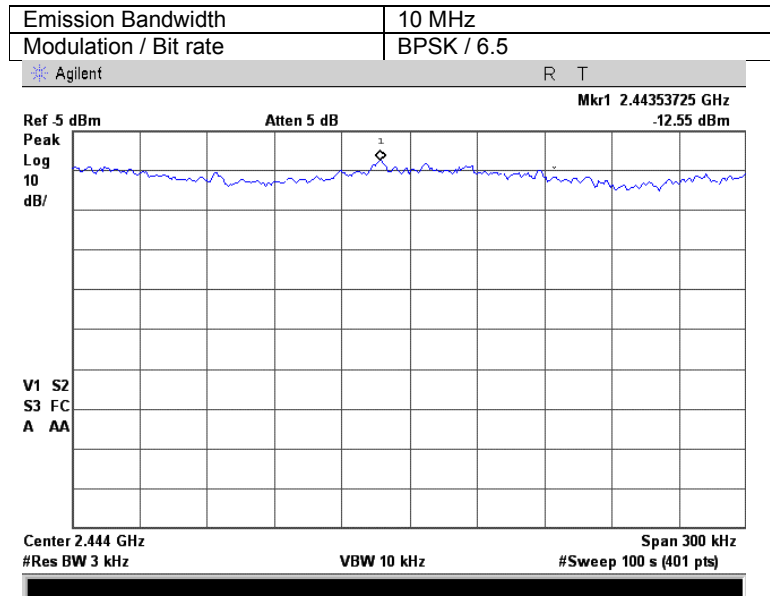
HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

Plot 7.5.36 Peak spectral power density at mid frequency 2447 MHz within 6 dB band, antenna 1



Plot 7.5.37 Peak spectral power density at mid frequency 2447 MHz zoomed at the peak, antenna 1



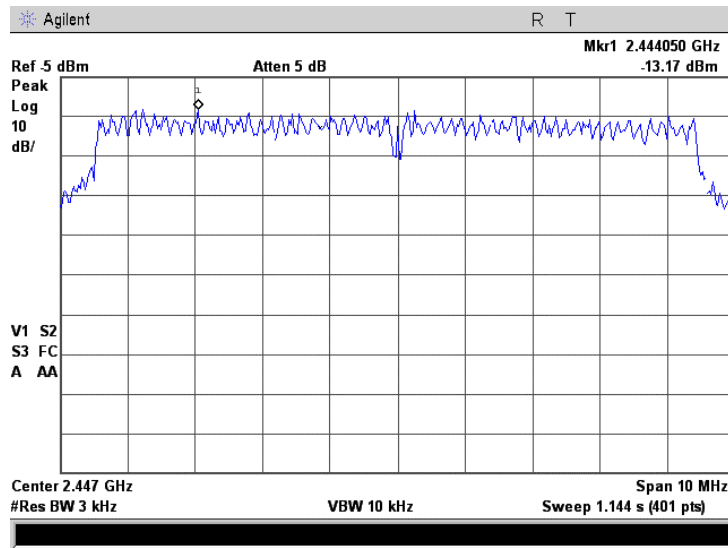


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

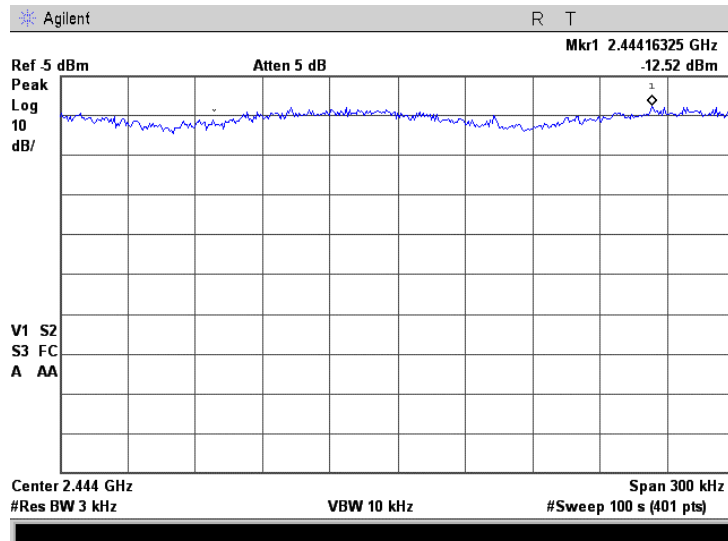
Plot 7.5.38 Peak spectral power density at high frequency 2447 MHz within 6 dB band, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65



Plot 7.5.39 Peak spectral power density at high frequency 2447 MHz zoomed at the peak, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65



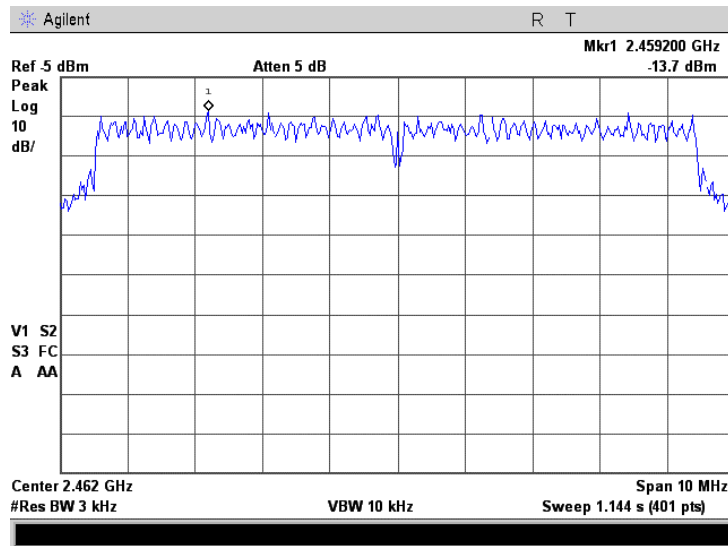


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

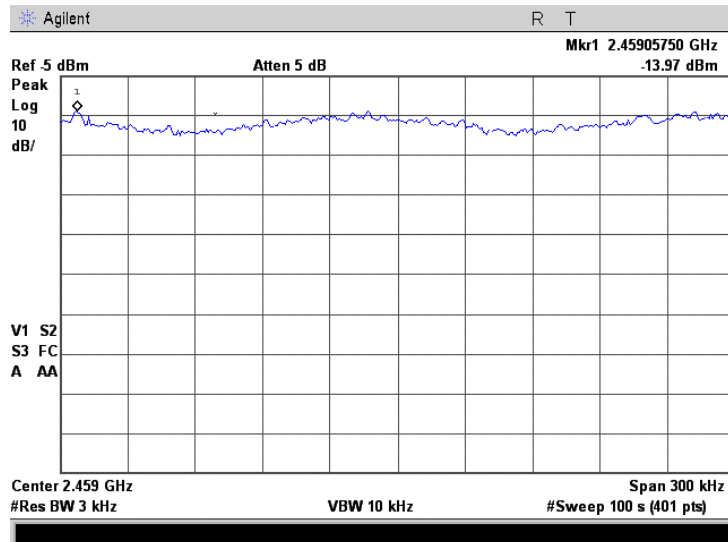
Plot 7.5.40 Peak spectral power density at high frequency 2462 MHz within 6 dB band, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



Plot 7.5.41 Peak spectral power density at high frequency 2462 MHz zoomed at the peak, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



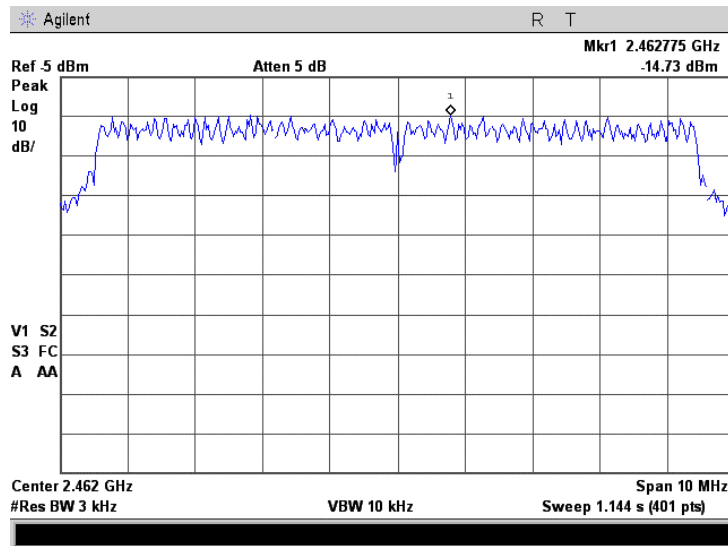


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

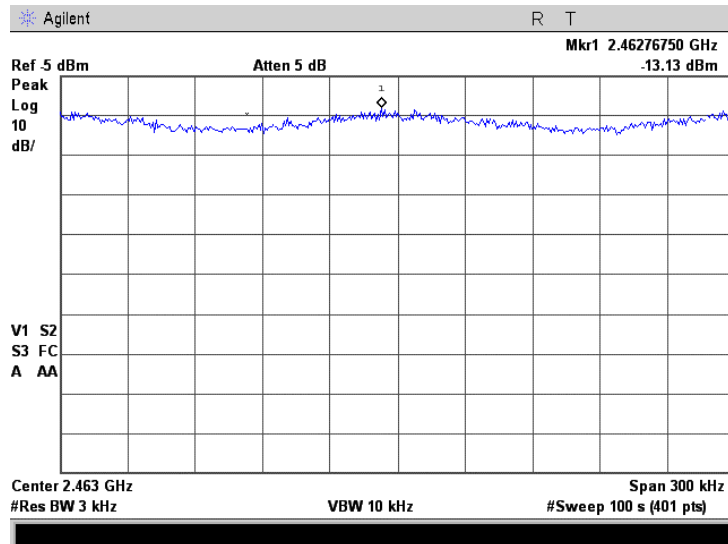
Plot 7.5.42 Peak spectral power density at high frequency 2462 MHz within 6 dB band, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65



Plot 7.5.43 Peak spectral power density at high frequency 2462 MHz zoomed at the peak, antenna 1

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65



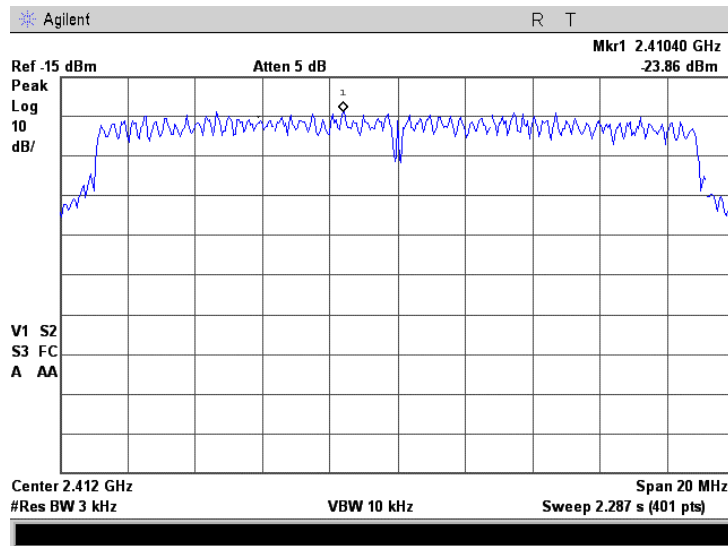


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

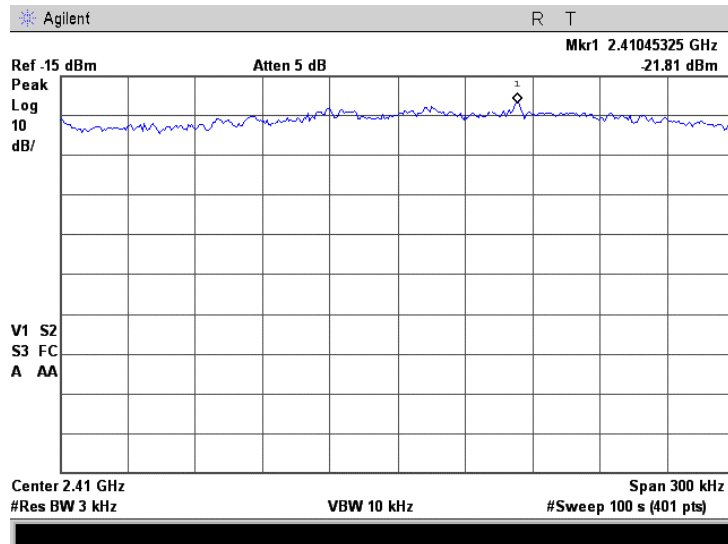
Plot 7.5.44 Peak spectral power density at low frequency 2412 MHz within 6 dB band, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13



Plot 7.5.45 Peak spectral power density at low frequency 2412 MHz zoomed at the peak, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13



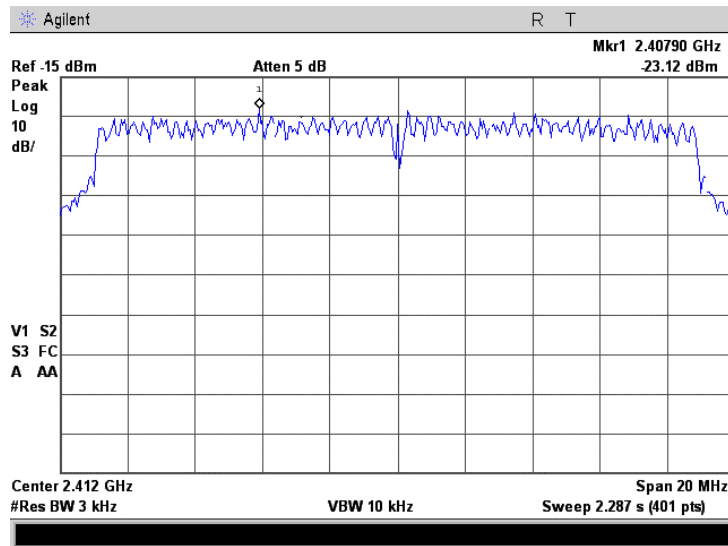


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

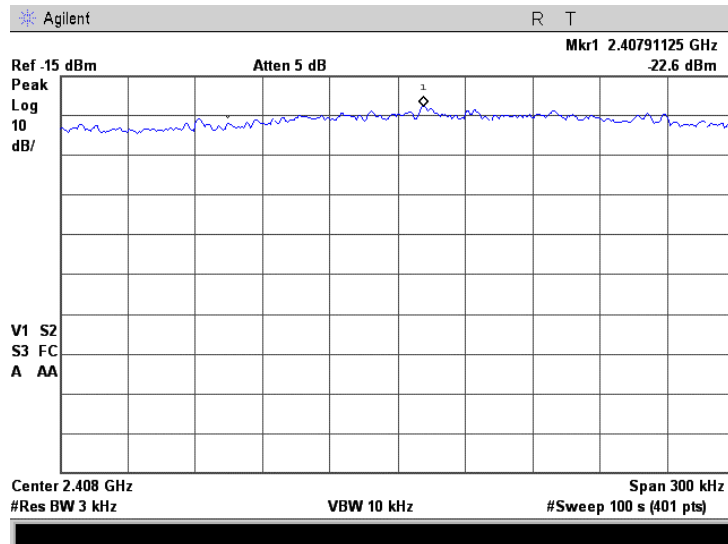
Plot 7.5.46 Peak spectral power density at low frequency 2412 MHz within 6 dB band, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	64QAM / 130



Plot 7.5.47 Peak spectral power density at low frequency 2412 MHz zoomed at the peak, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	64QAM / 130

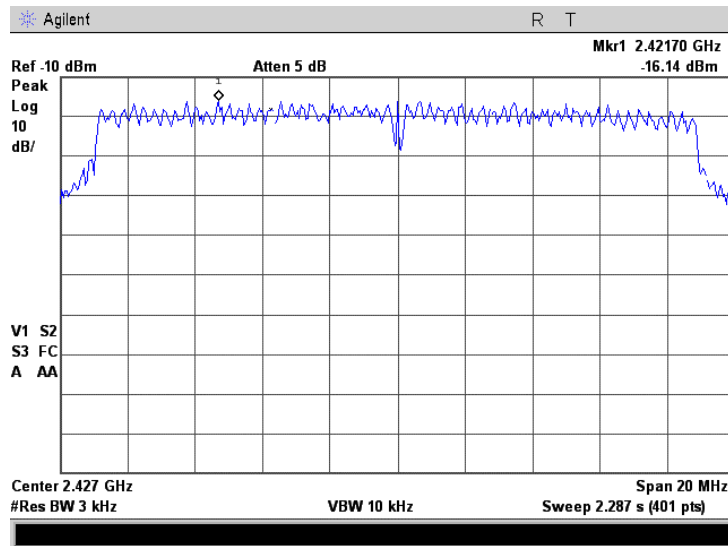




Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

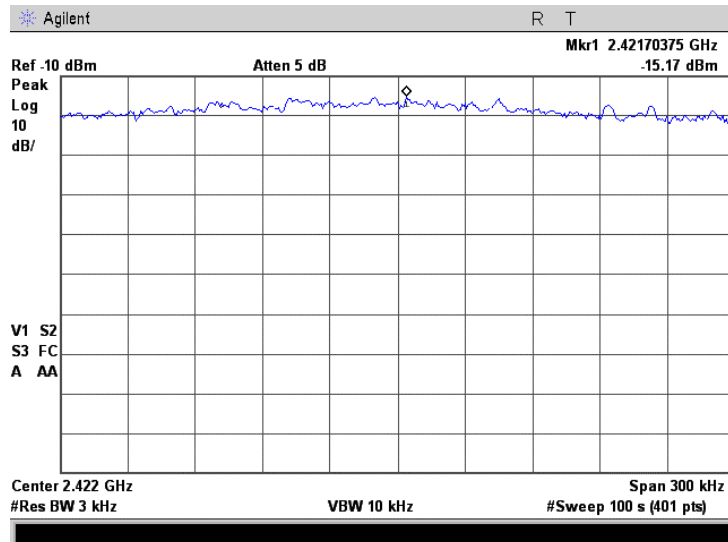
Plot 7.5.48 Peak spectral power density at mid frequency 2427 MHz within 6 dB band, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13



Plot 7.5.49 Peak spectral power density at mid frequency 2427 MHz zoomed at the peak, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13



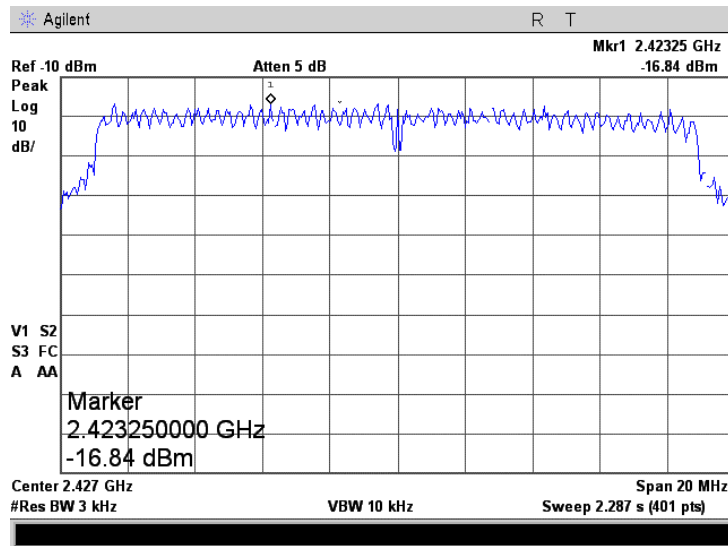


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

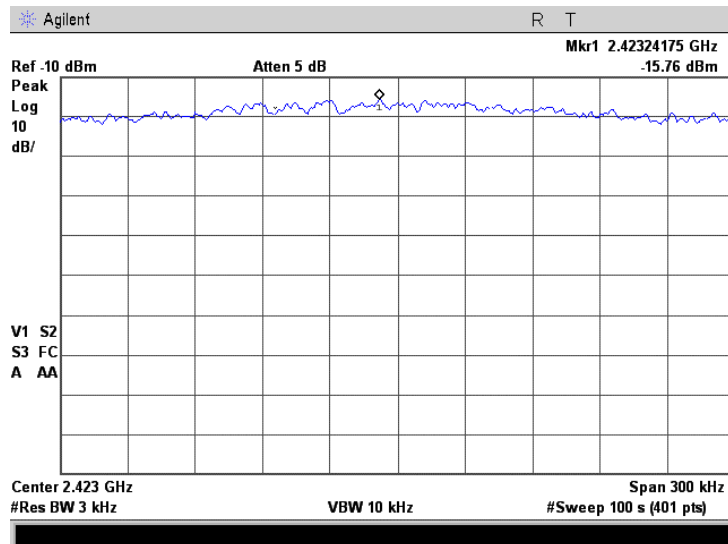
Plot 7.5.50 Peak spectral power density at mid frequency 2427 MHz within 6 dB band, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	64QAM / 130



Plot 7.5.51 Peak spectral power density at mid frequency 2427 MHz zoomed at the peak, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	64QAM / 130



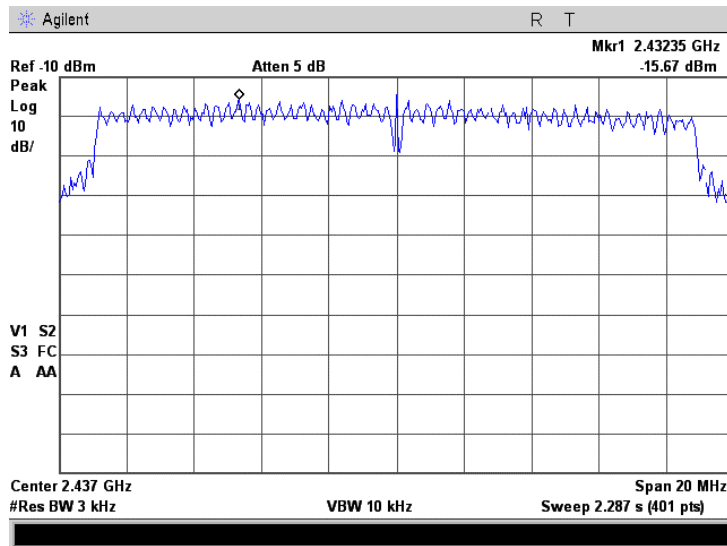


HERMON LABORATORIES

Test specification: Section 15.247(e), RSS-210 section A8.2(b), Peak power density			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/13/2009 1:47:06 PM			
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

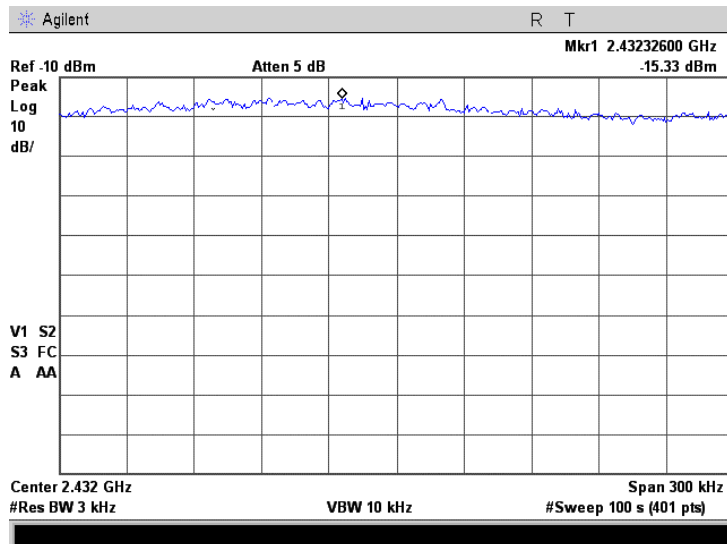
Plot 7.5.52 Peak spectral power density at mid frequency 2437 MHz within 6 dB band, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13



Plot 7.5.53 Peak spectral power density at mid frequency 2437 MHz zoomed at the peak, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13

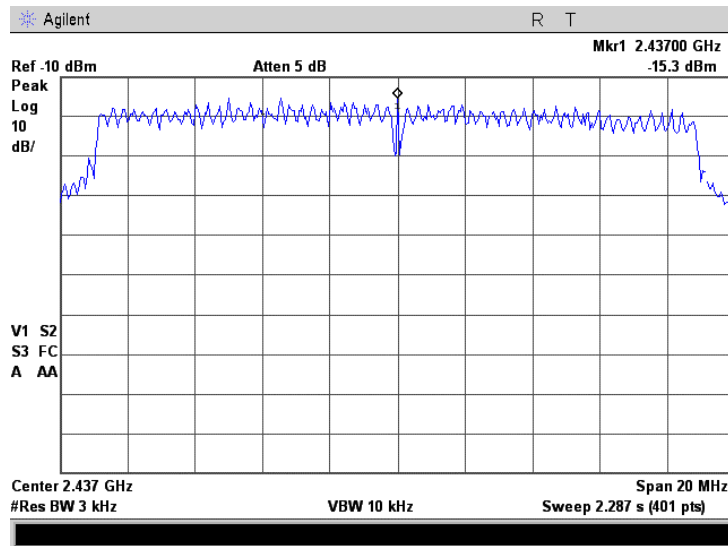




Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

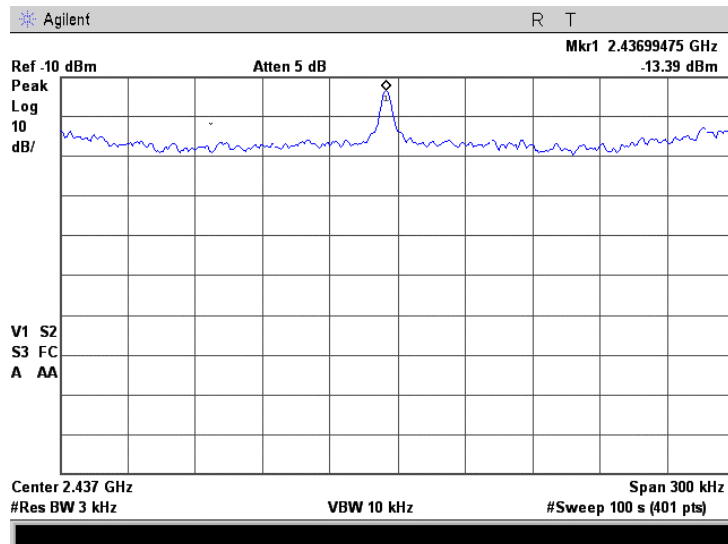
Plot 7.5.54 Peak spectral power density at mid frequency 2437 MHz within 6 dB band, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	64QAM / 130



Plot 7.5.55 Peak spectral power density at mid frequency 2437 MHz zoomed at the peak, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	64QAM / 130

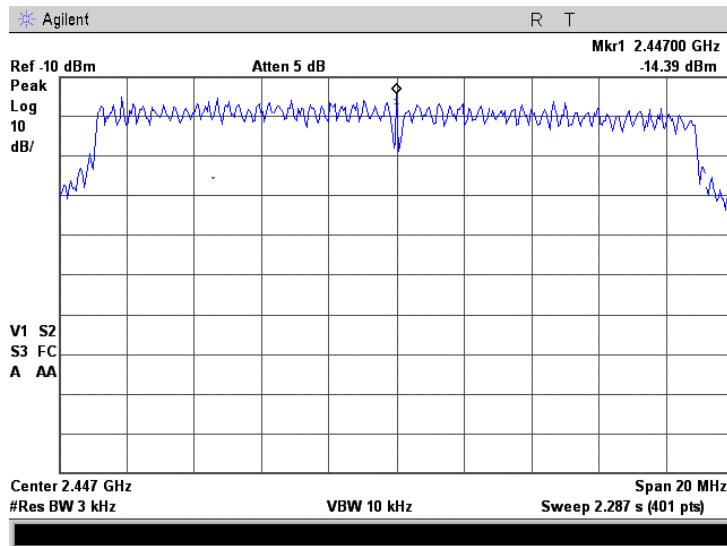




Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

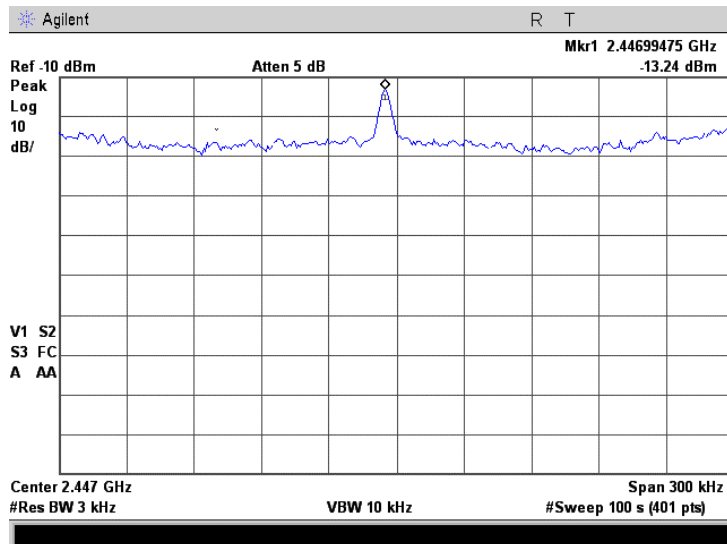
Plot 7.5.56 Peak spectral power density at high frequency 2447 MHz within 6 dB band, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13



Plot 7.5.57 Peak spectral power density at high frequency 2447 MHz zoomed at the peak, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13

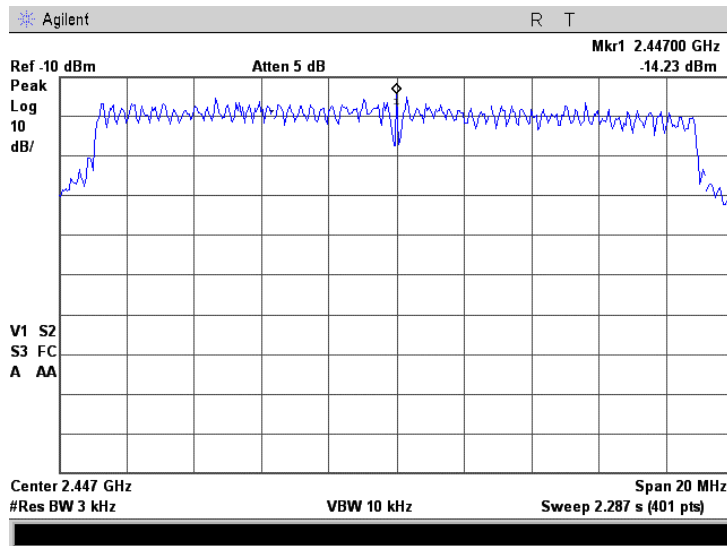




Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

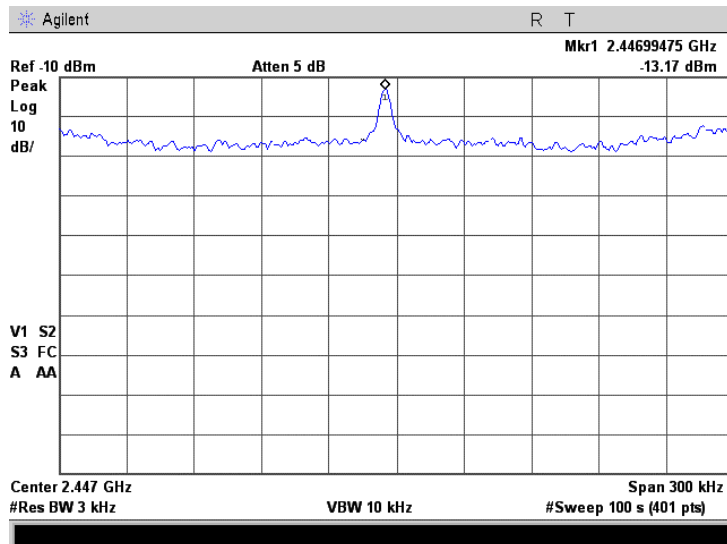
Plot 7.5.58 Peak spectral power density at high frequency 2447 MHz within 6 dB band, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 130



Plot 7.5.59 Peak spectral power density at high frequency 2447 MHz zoomed at the peak, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 130

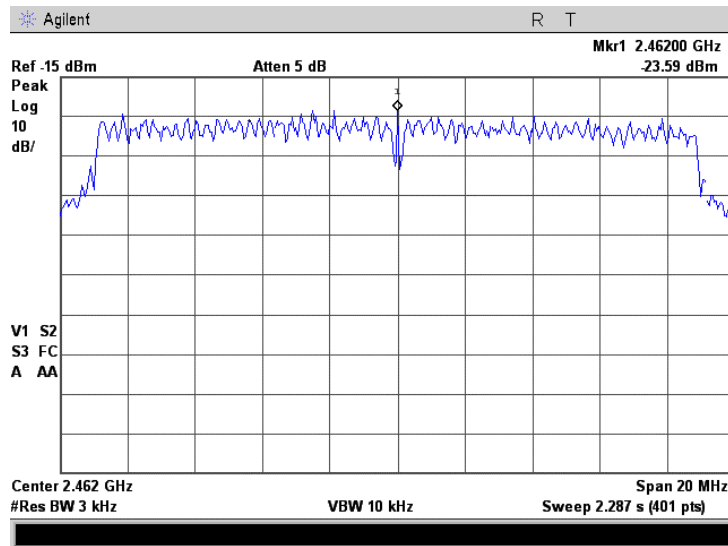




Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

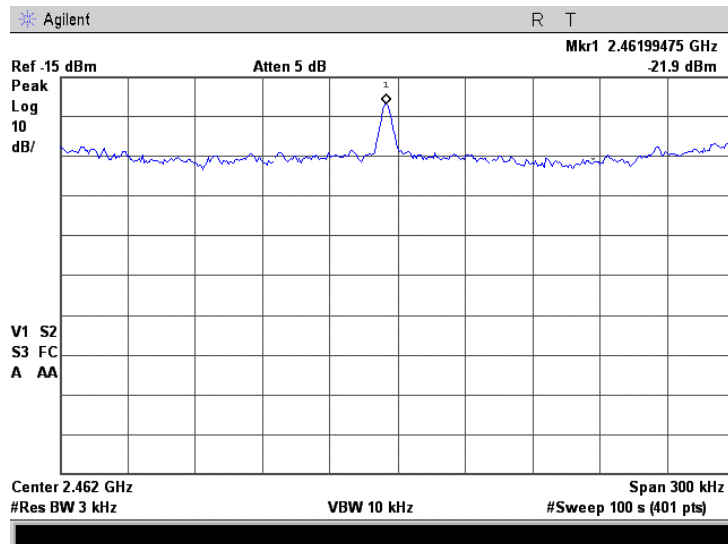
Plot 7.5.60 Peak spectral power density at high frequency 2462 MHz within 6 dB band, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13



Plot 7.5.61 Peak spectral power density at high frequency 2462 MHz zoomed at the peak, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13

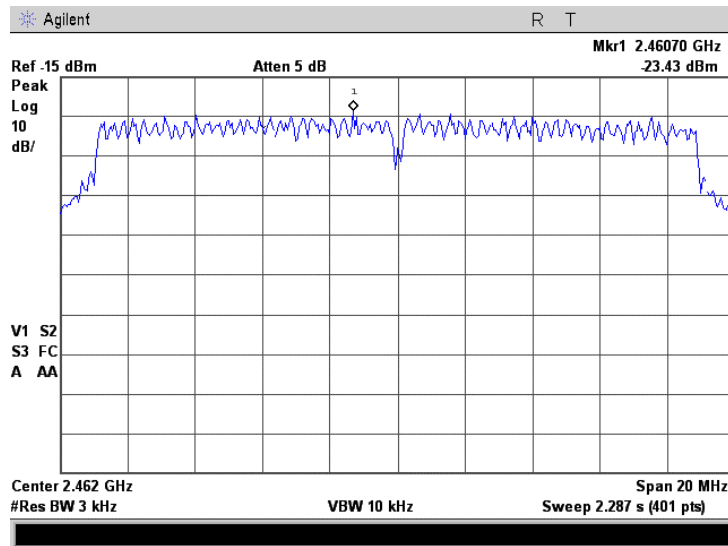




Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

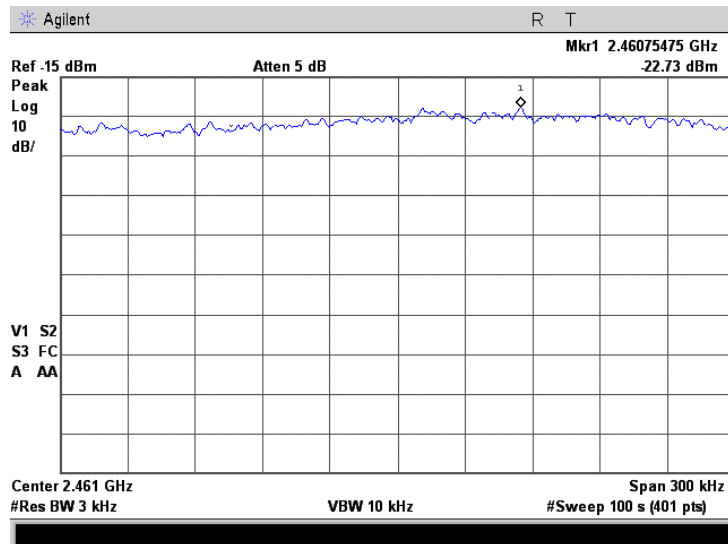
Plot 7.5.62 Peak spectral power density at high frequency 2462 MHz within 6 dB band, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	64QAM / 130



Plot 7.5.63 Peak spectral power density at high frequency 2462 MHz zoomed at the peak, antenna 1

Emission Bandwidth	20 MHz
Modulation / Bit rate	64QAM / 130



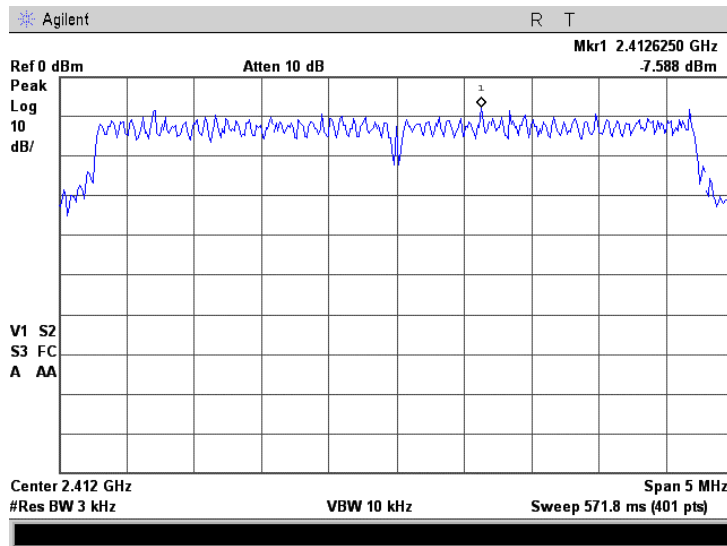


HERMON LABORATORIES

Test specification: Section 15.247(e), RSS-210 section A8.2(b), Peak power density			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/13/2009 1:47:06 PM			
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

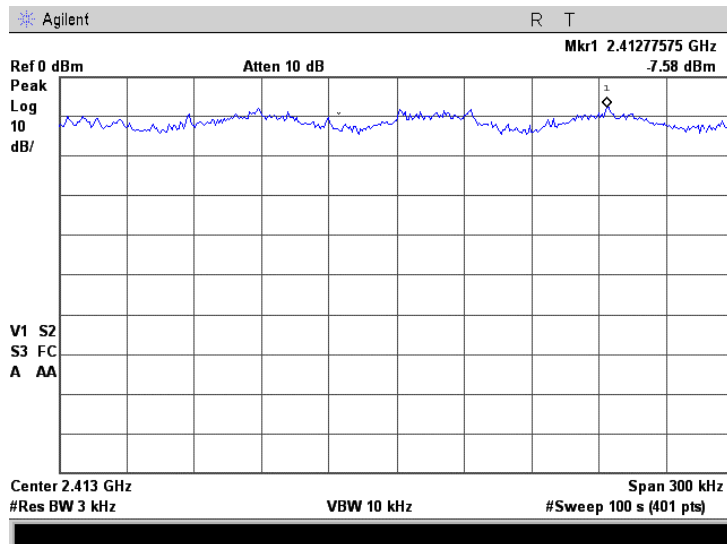
Plot 7.5.64 Peak spectral power density at low frequency 2412 MHz within 6 dB band, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



Plot 7.5.65 Peak spectral power density at low frequency 2412 MHz zoomed at the peak, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



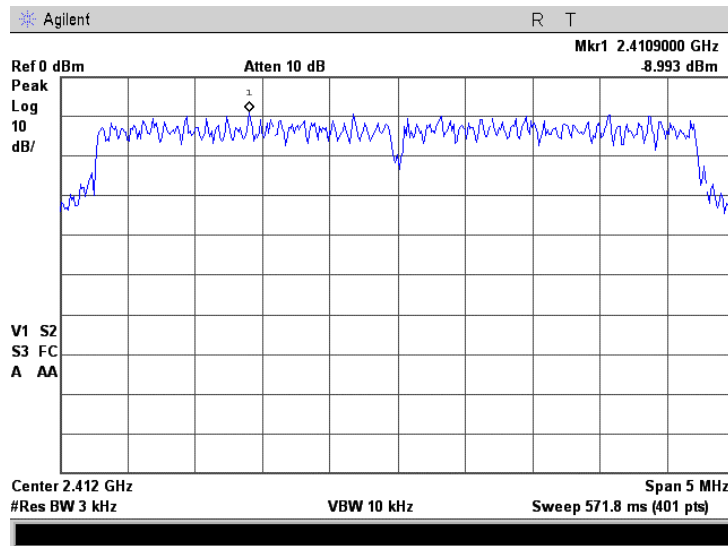


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

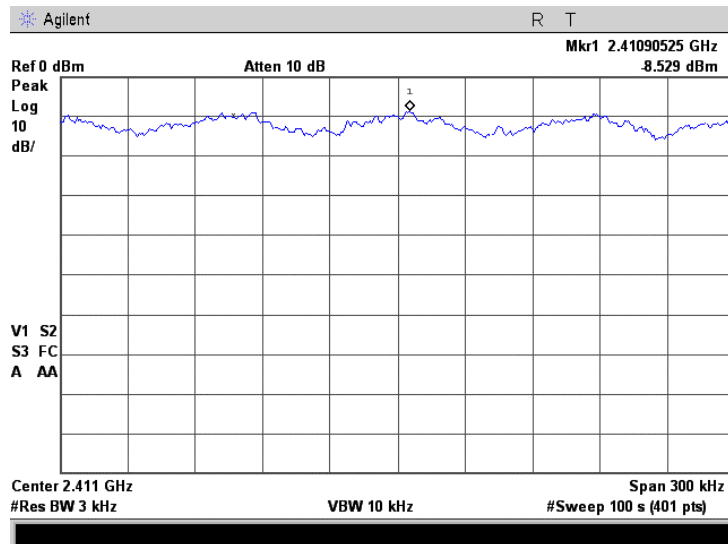
Plot 7.5.66 Peak spectral power density at low frequency 2412 MHz within 6 dB band, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



Plot 7.5.67 Peak spectral power density at low frequency 2412 MHz zoomed at the peak, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



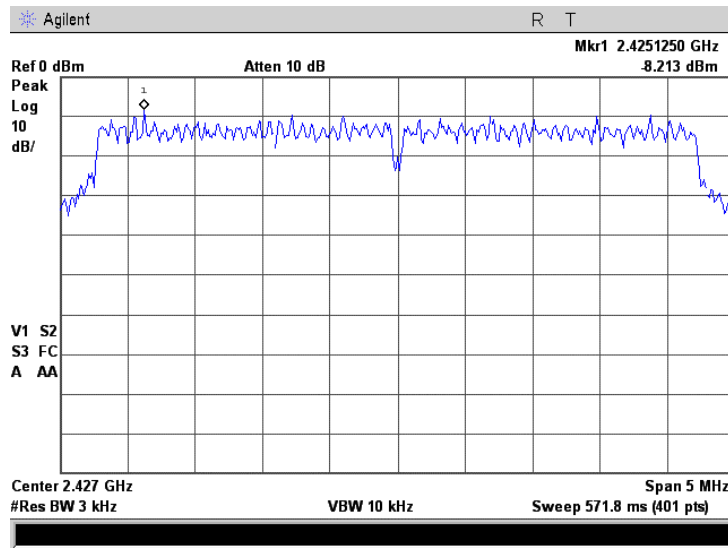


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

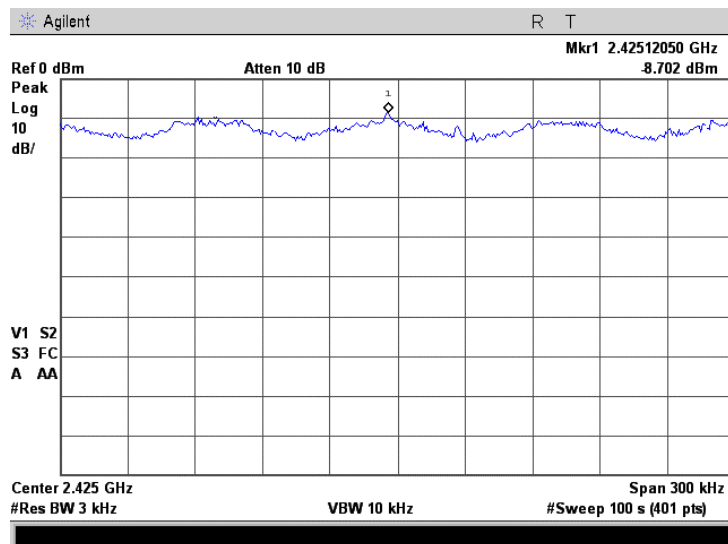
Plot 7.5.68 Peak spectral power density at low frequency 2427 MHz within 6 dB band, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



Plot 7.5.69 Peak spectral power density at low frequency 2427 MHz zoomed at the peak, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



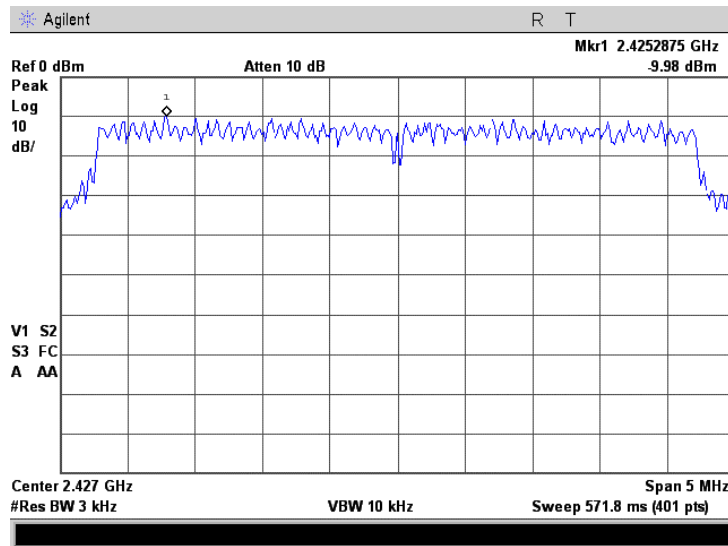


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

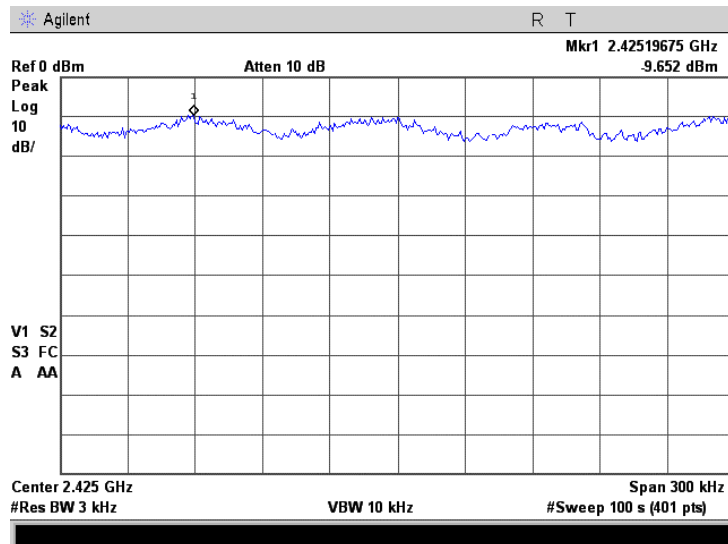
Plot 7.5.70 Peak spectral power density at low frequency 2427 MHz within 6 dB band, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



Plot 7.5.71 Peak spectral power density at low frequency 2427 MHz zoomed at the peak, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



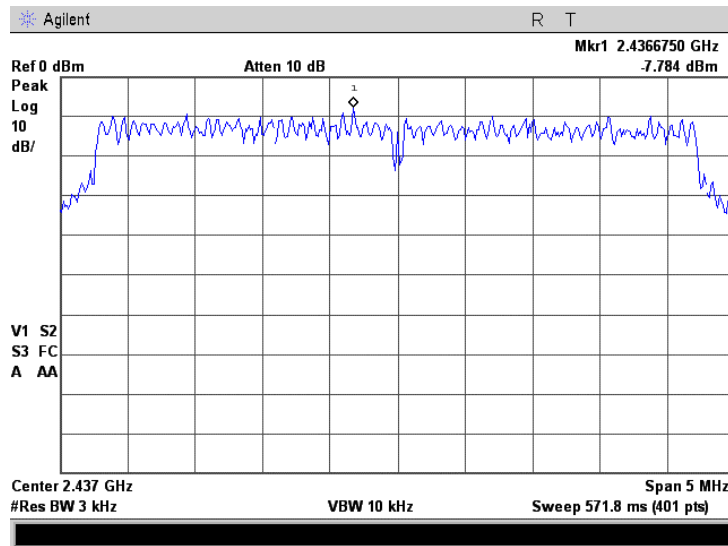


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

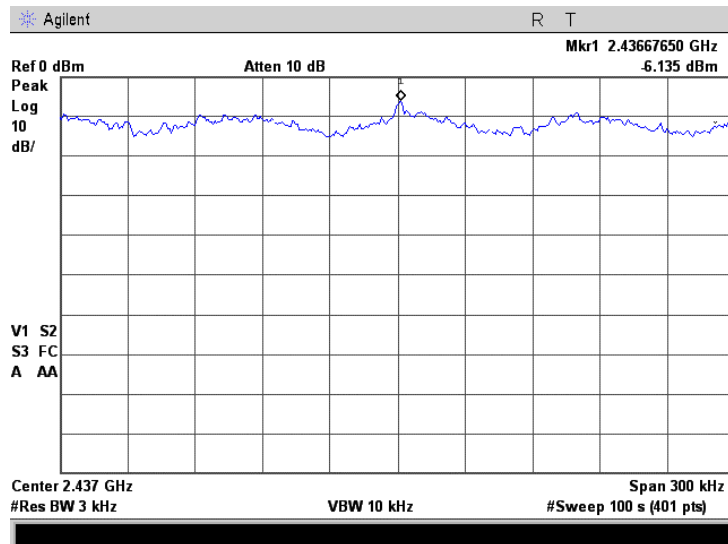
Plot 7.5.72 Peak spectral power density at mid frequency 2437 MHz within 6 dB band, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



Plot 7.5.73 Peak spectral power density at mid frequency 2437 MHz zoomed at the peak, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



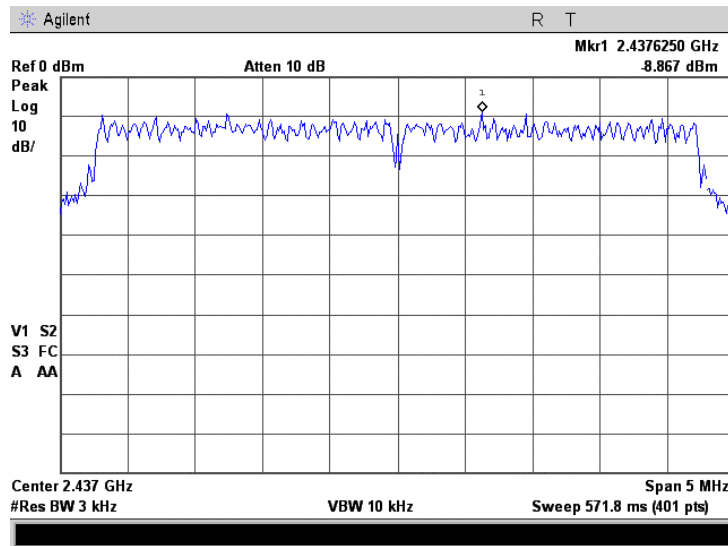


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

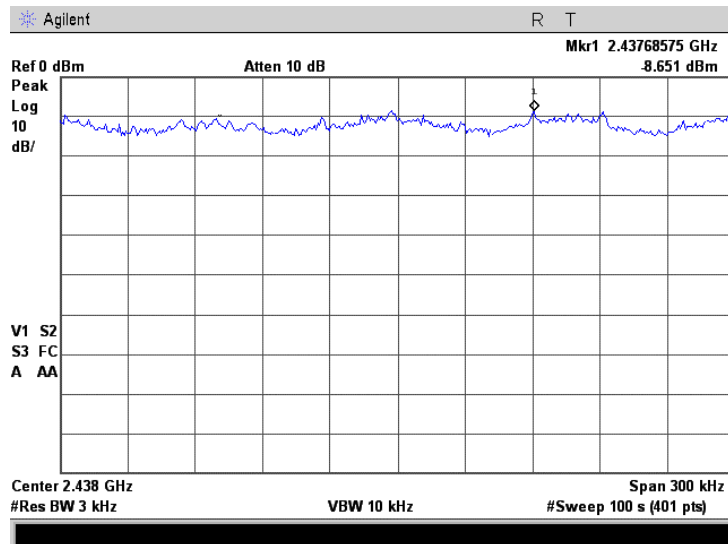
Plot 7.5.74 Peak spectral power density at mid frequency 2437 MHz within 6 dB band, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



Plot 7.5.75 Peak spectral power density at mid frequency 2437 MHz zoomed at the peak, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



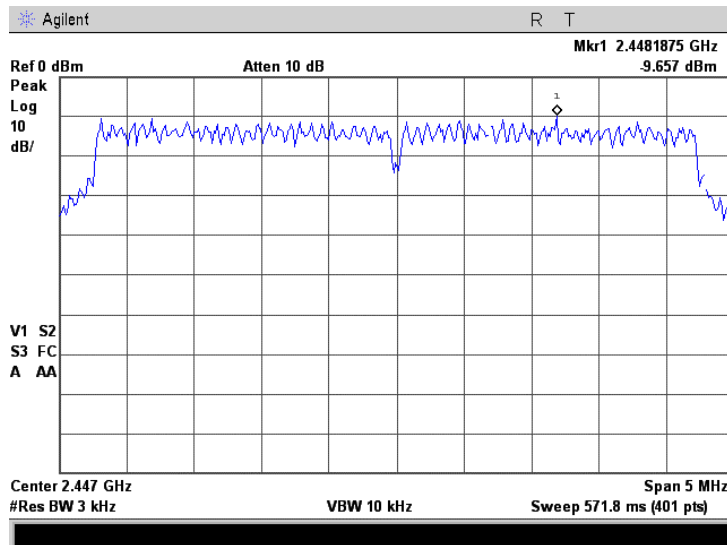


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

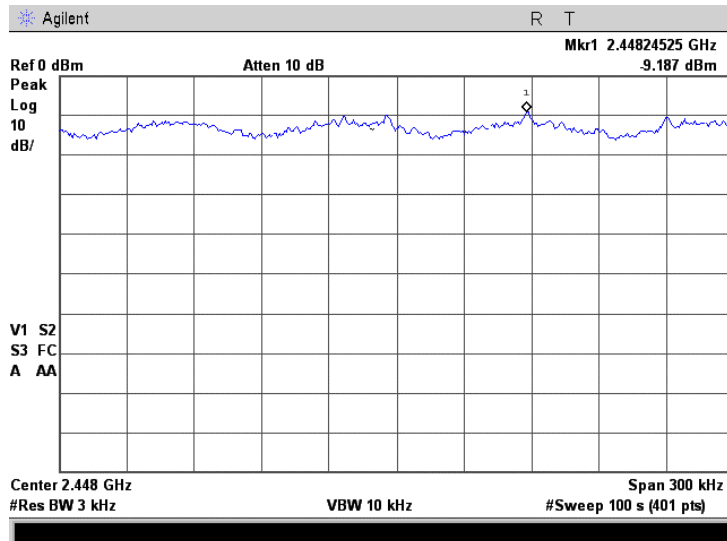
Plot 7.5.76 Peak spectral power density at high frequency 2447 MHz within 6 dB band, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



Plot 7.5.77 Peak spectral power density at high frequency 2447 MHz zoomed at the peak, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



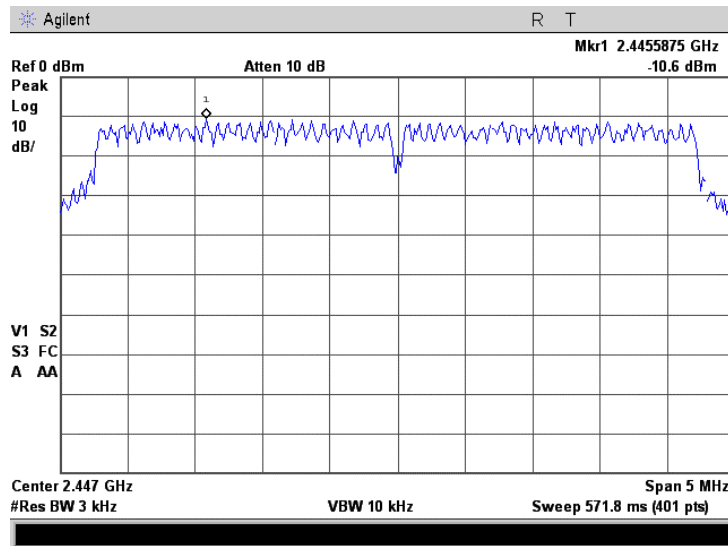


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

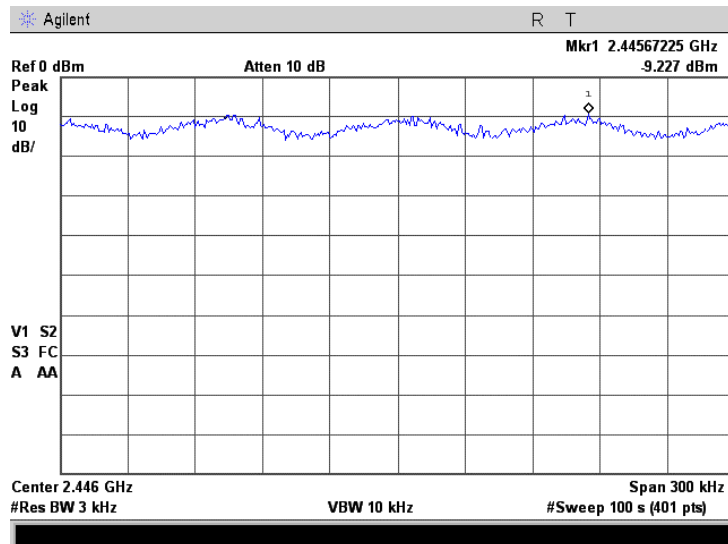
Plot 7.5.78 Peak spectral power density at high frequency 2447 MHz within 6 dB band, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



Plot 7.5.79 Peak spectral power density at high frequency 2447 MHz zoomed at the peak, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



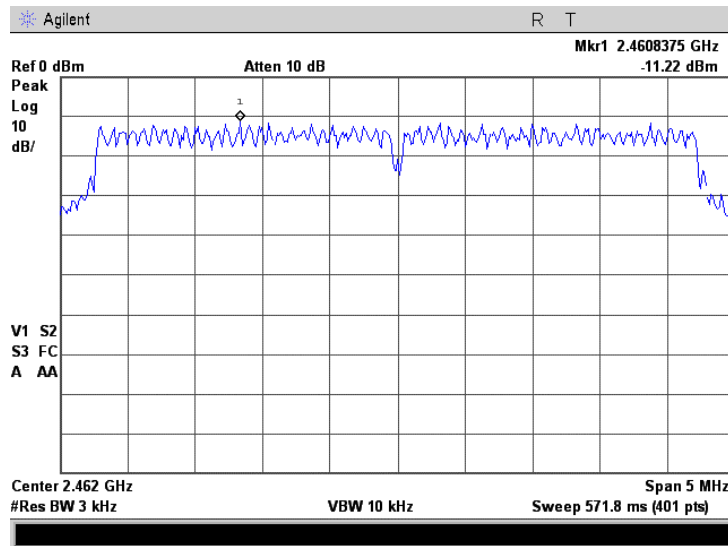


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

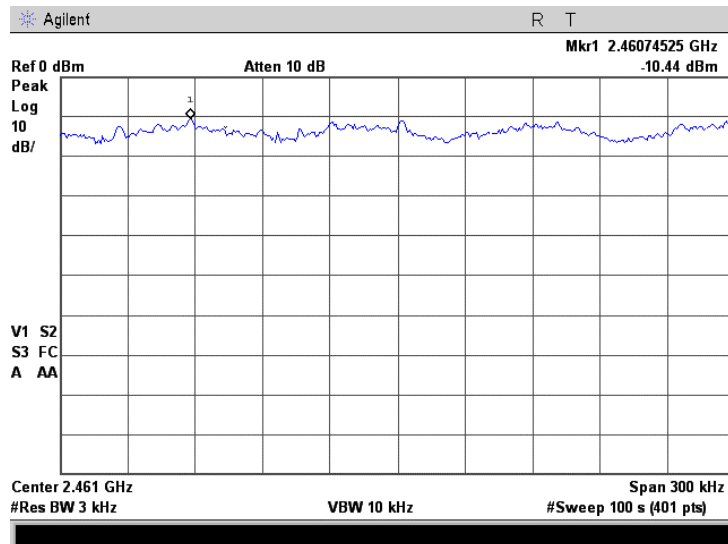
Plot 7.5.80 Peak spectral power density at high frequency 2462 MHz within 6 dB band, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



Plot 7.5.81 Peak spectral power density at high frequency 2462 MHz zoomed at the peak, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	BPSK / 3.25



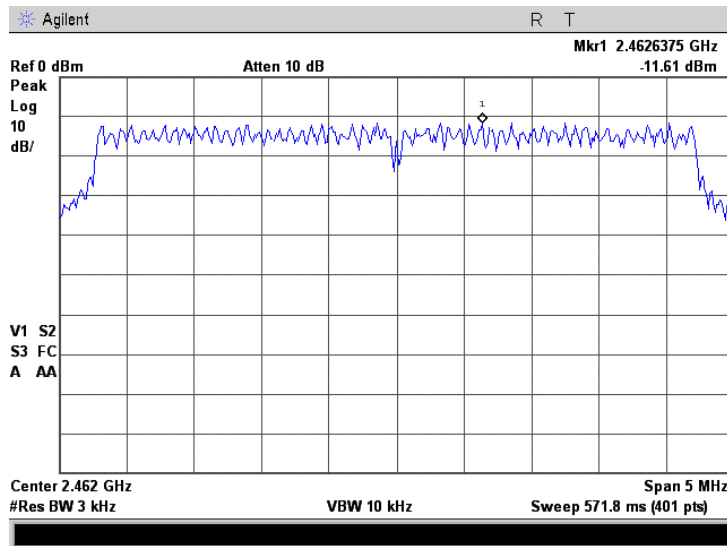


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

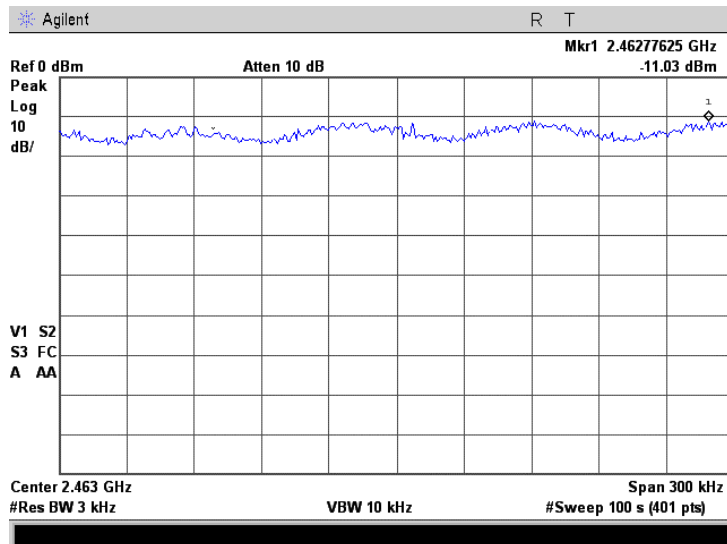
Plot 7.5.82 Peak spectral power density at high frequency 2462 MHz within 6 dB band, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



Plot 7.5.83 Peak spectral power density at high frequency 2462 MHz zoomed at the peak, antenna 2

Emission Bandwidth	5 MHz
Modulation / Bit rate	64QAM / 32.5



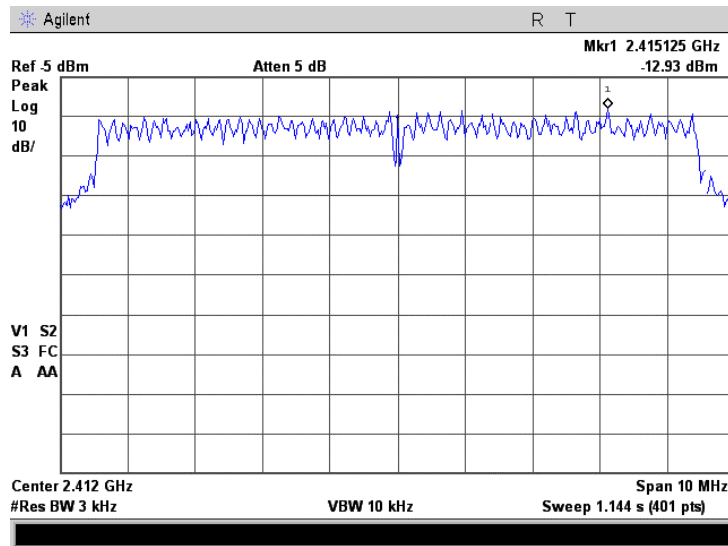


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

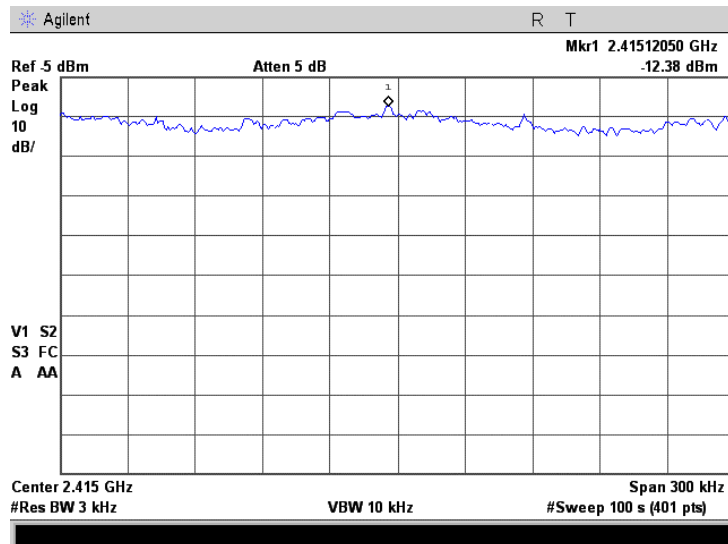
Plot 7.5.84 Peak spectral power density at low frequency 2412 MHz within 6 dB band, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



Plot 7.5.85 Peak spectral power density at low frequency 2412 MHz zoomed at the peak, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



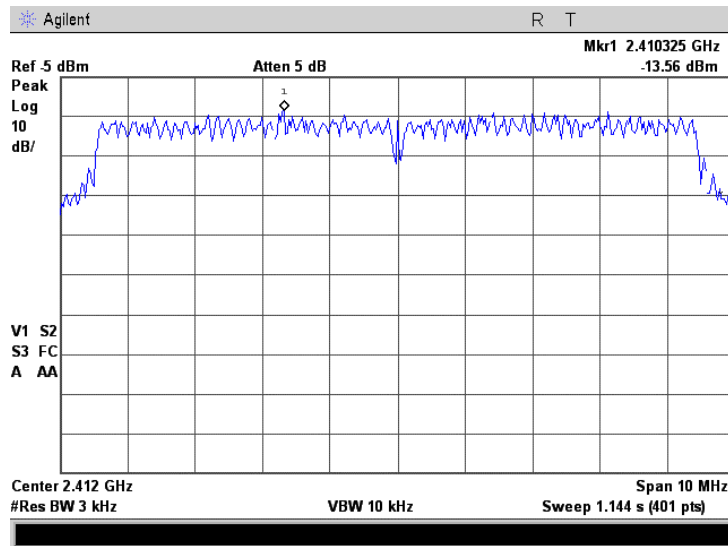


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

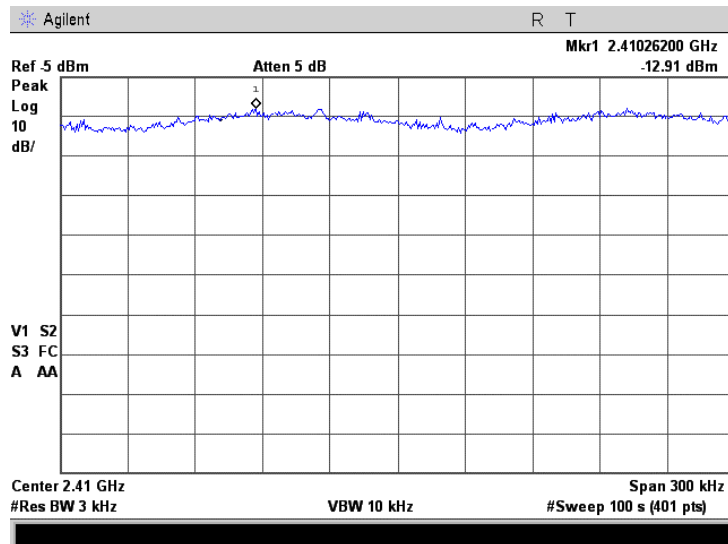
Plot 7.5.86 Peak spectral power density at low frequency 2412 MHz within 6 dB band, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65



Plot 7.5.87 Peak spectral power density at low frequency 2412 MHz zoomed at the peak, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65



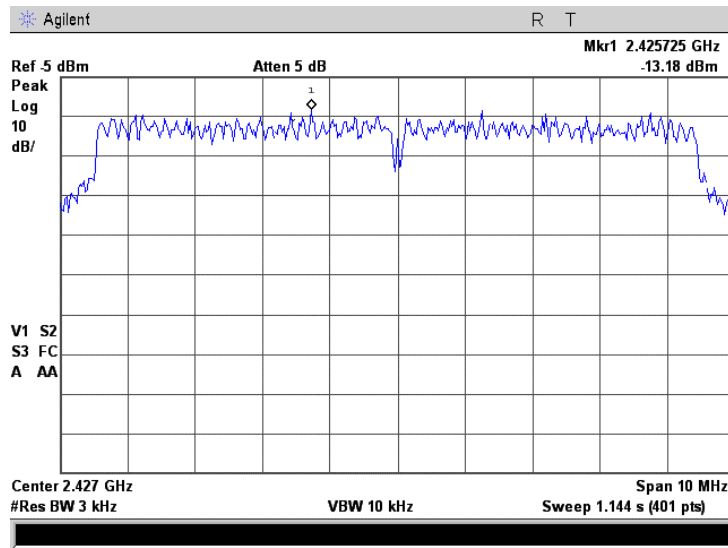


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

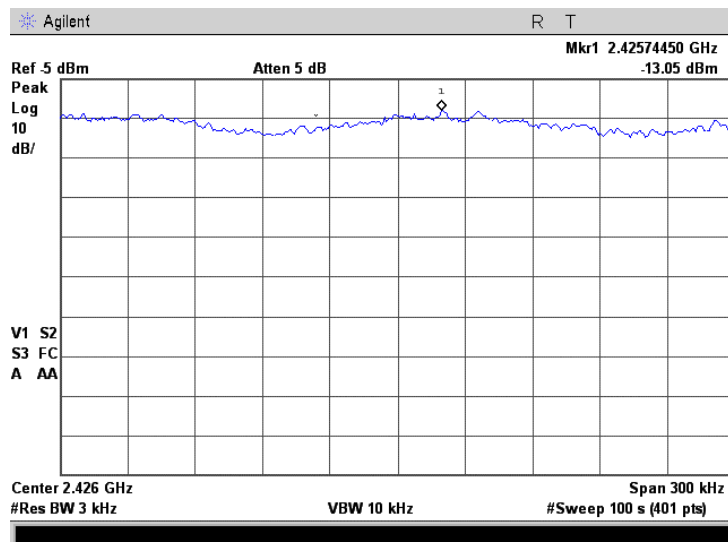
Plot 7.5.88 Peak spectral power density at low frequency 2427 MHz within 6 dB band, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



Plot 7.5.89 Peak spectral power density at low frequency 2427 MHz zoomed at the peak, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



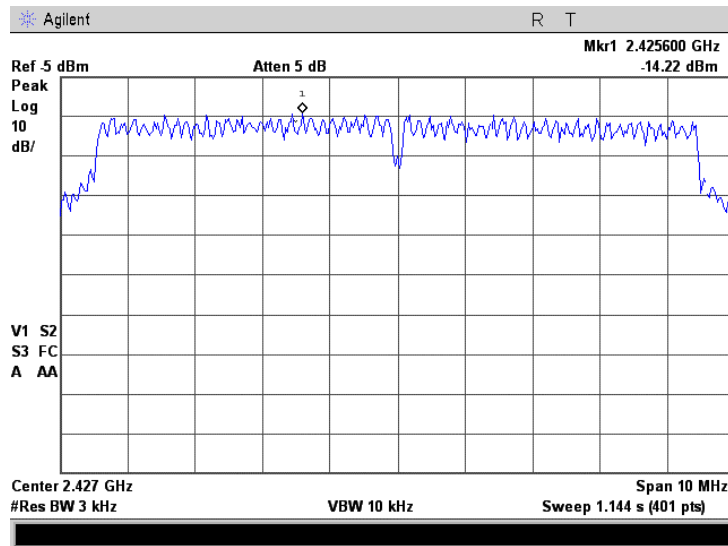


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

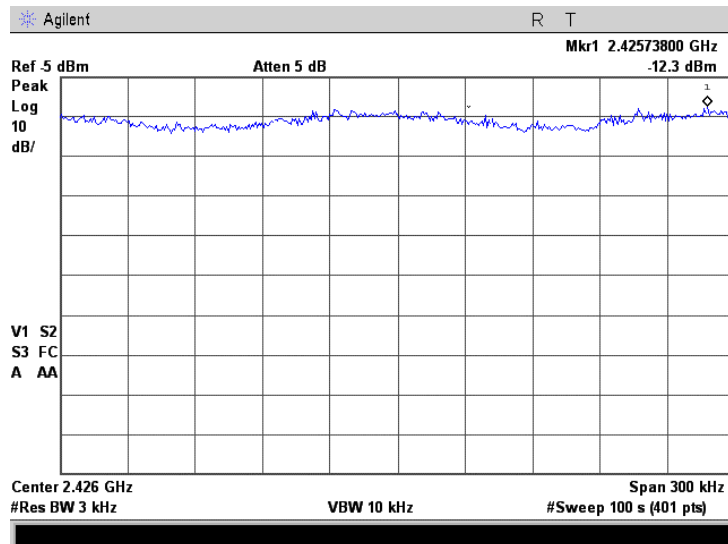
Plot 7.5.90 Peak spectral power density at low frequency 2427 MHz within 6 dB band, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65



Plot 7.5.91 Peak spectral power density at low frequency 2427 MHz zoomed at the peak, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65



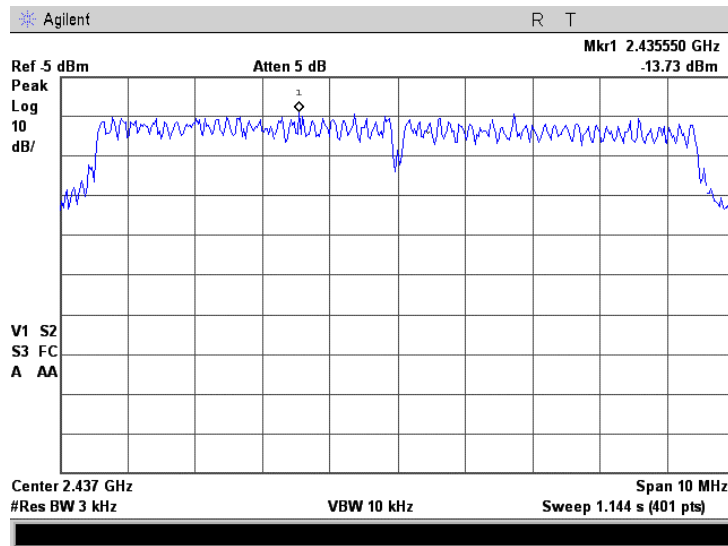


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

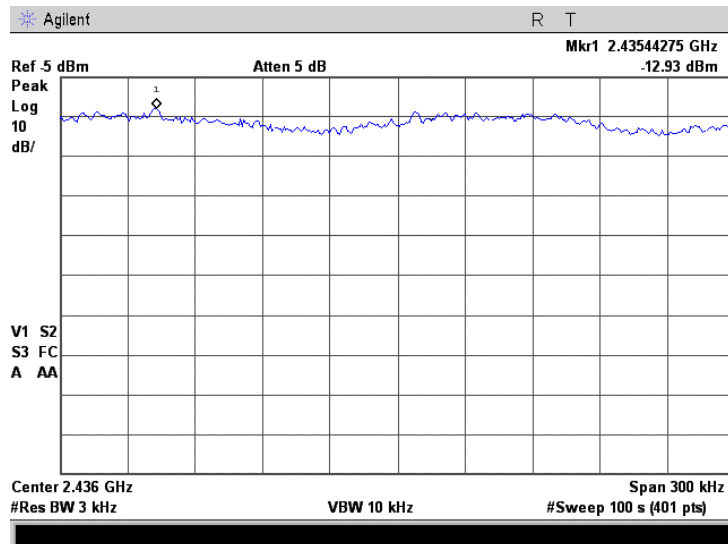
Plot 7.5.92 Peak spectral power density at mid frequency 2437 MHz within 6 dB band, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



Plot 7.5.93 Peak spectral power density at mid frequency 2437 MHz zoomed at the peak, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



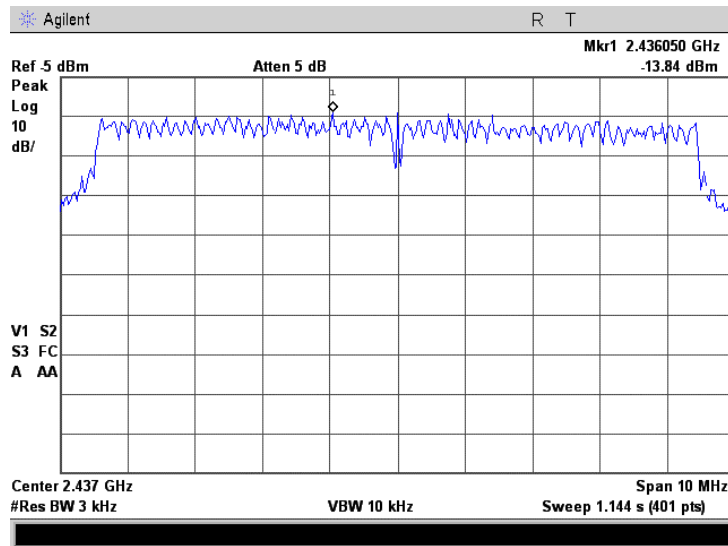


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

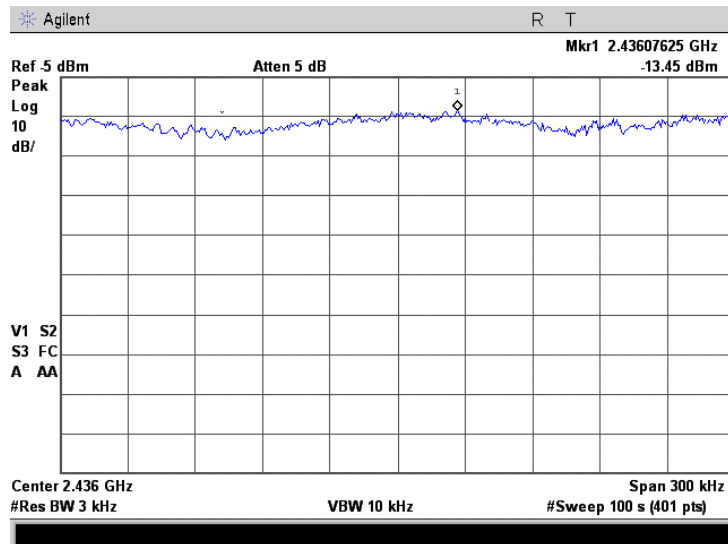
Plot 7.5.94 Peak spectral power density at mid frequency 2437 MHz within 6 dB band, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65



Plot 7.5.95 Peak spectral power density at mid frequency 2437 MHz zoomed at the peak, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65



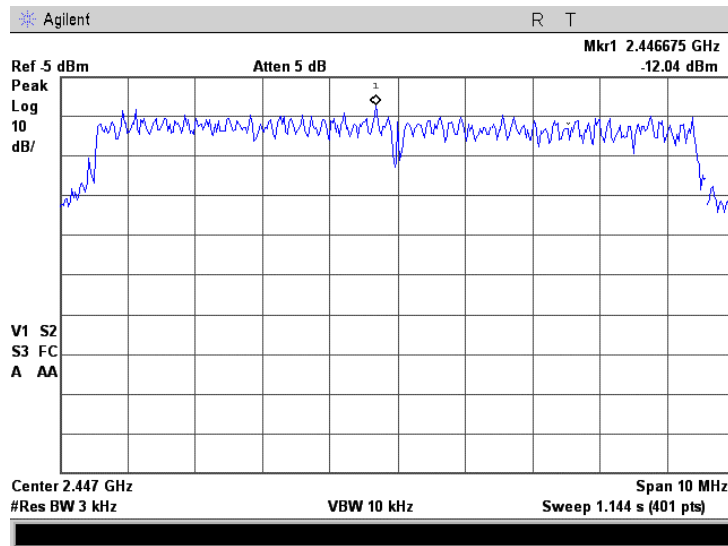


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

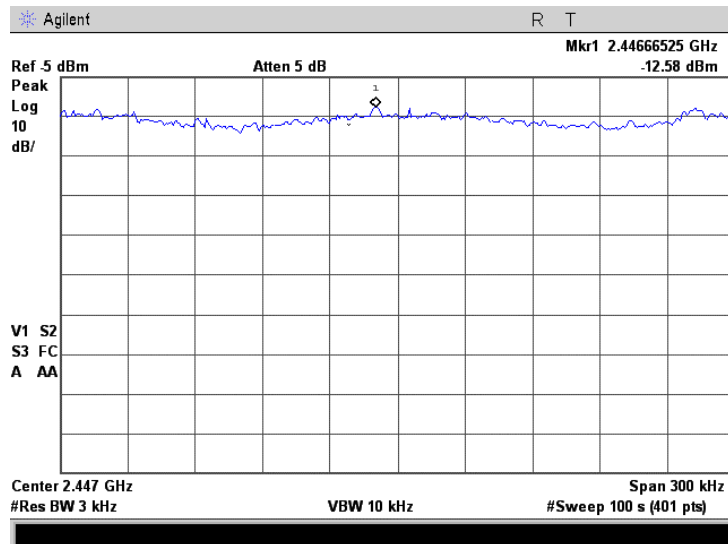
Plot 7.5.96 Peak spectral power density at mid frequency 2447 MHz within 6 dB band, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



Plot 7.5.97 Peak spectral power density at mid frequency 2447 MHz zoomed at the peak, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



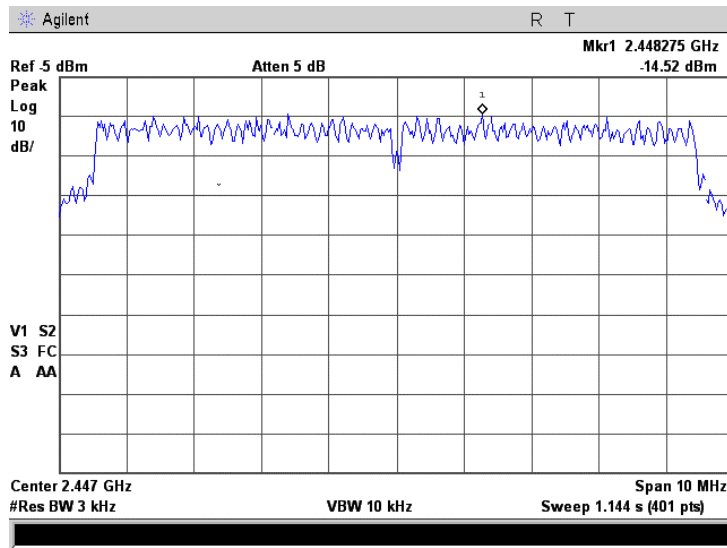


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

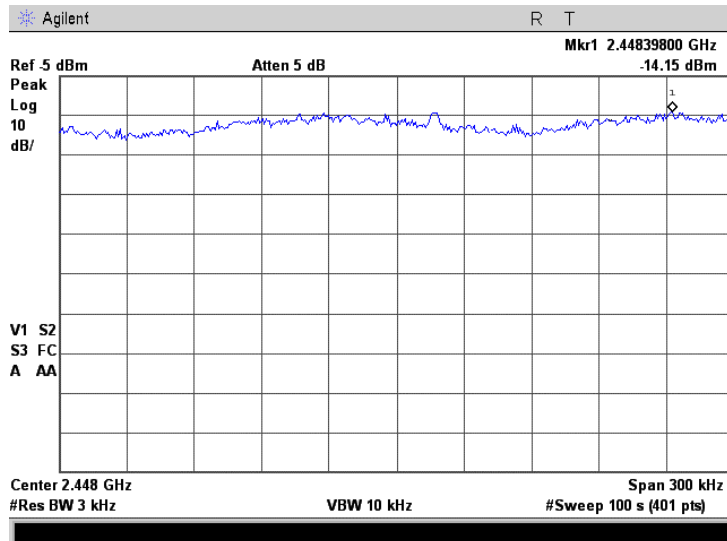
Plot 7.5.98 Peak spectral power density at high frequency 2447 MHz within 6 dB band, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 65



Plot 7.5.99 Peak spectral power density at high frequency 2447 MHz zoomed at the peak, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 65



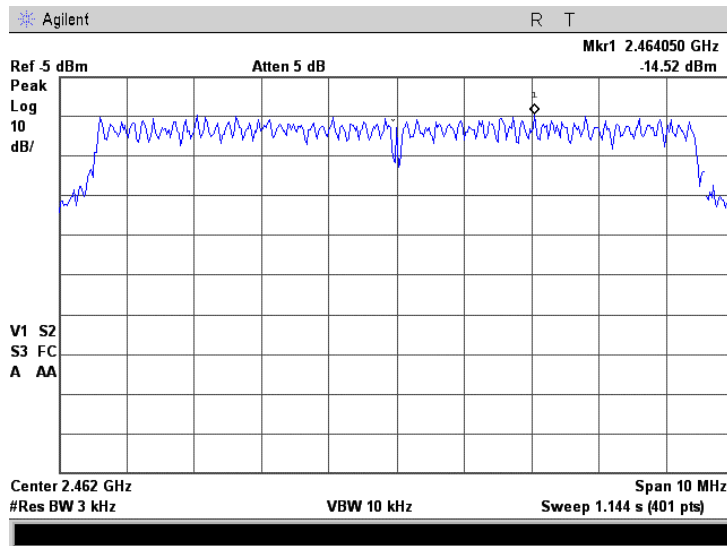


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

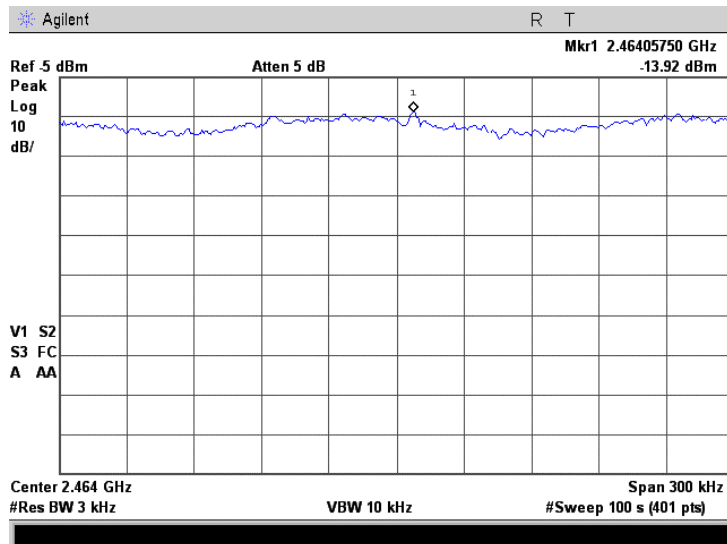
Plot 7.5.100 Peak spectral power density at high frequency 2462 MHz within 6 dB band, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



Plot 7.5.101 Peak spectral power density at high frequency 2462 MHz zoomed at the peak, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	BPSK / 6.5



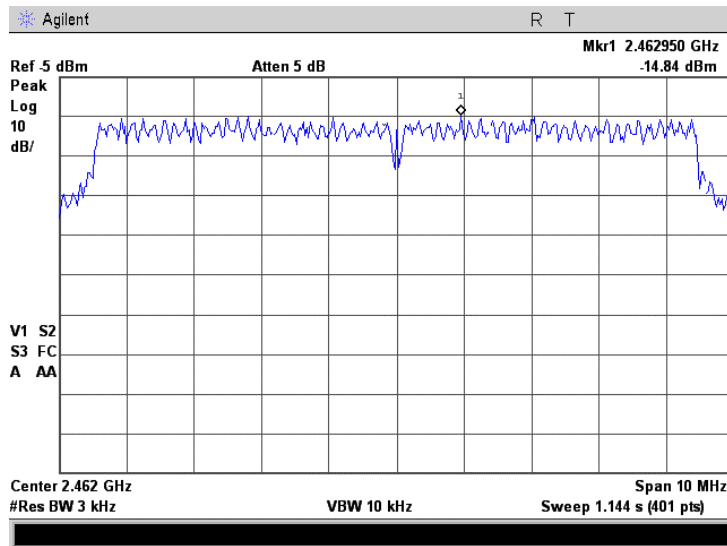


HERMON LABORATORIES

Test specification: Section 15.247(e), RSS-210 section A8.2(b), Peak power density			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/13/2009 1:47:06 PM			
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

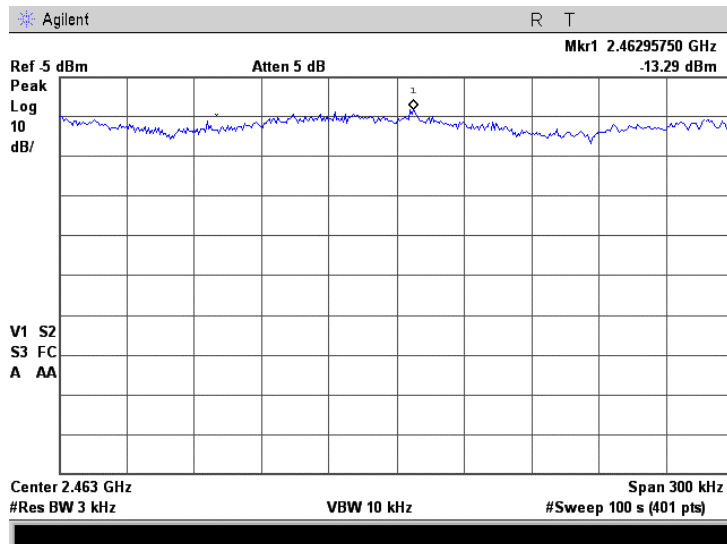
Plot 7.5.102 Peak spectral power density at high frequency 2462 MHz within 6 dB band, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65



Plot 7.5.103 Peak spectral power density at high frequency 2462 MHz zoomed at the peak, antenna 2

Emission Bandwidth	10 MHz
Modulation / Bit rate	64QAM / 65



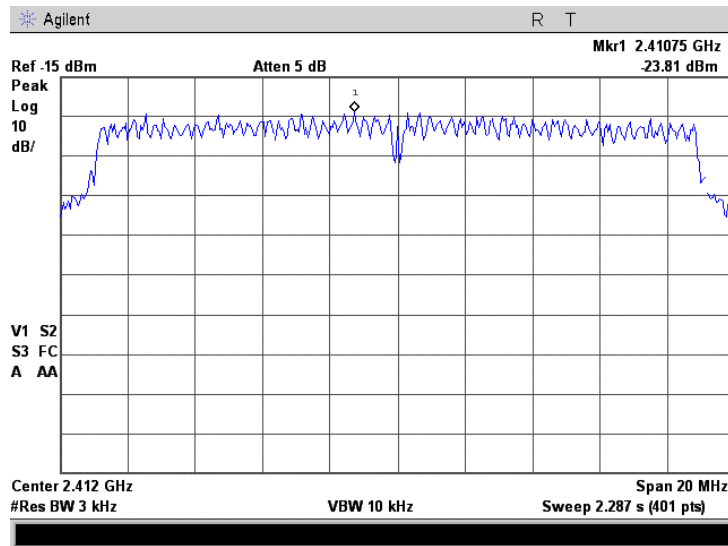


HERMON LABORATORIES

Test specification: Section 15.247(e), RSS-210 section A8.2(b), Peak power density			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/13/2009 1:47:06 PM			
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

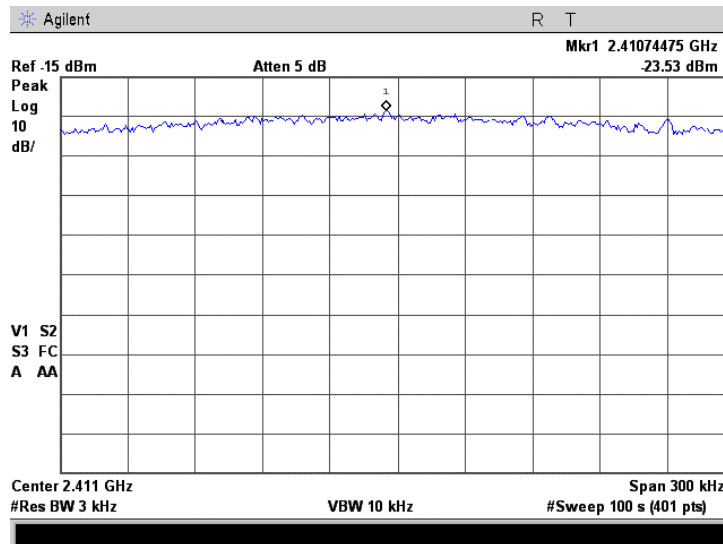
Plot 7.5.104 Peak spectral power density at low frequency 2412 MHz within 6 dB band, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13



Plot 7.5.105 Peak spectral power density at low frequency 2412 MHz zoomed at the peak, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13

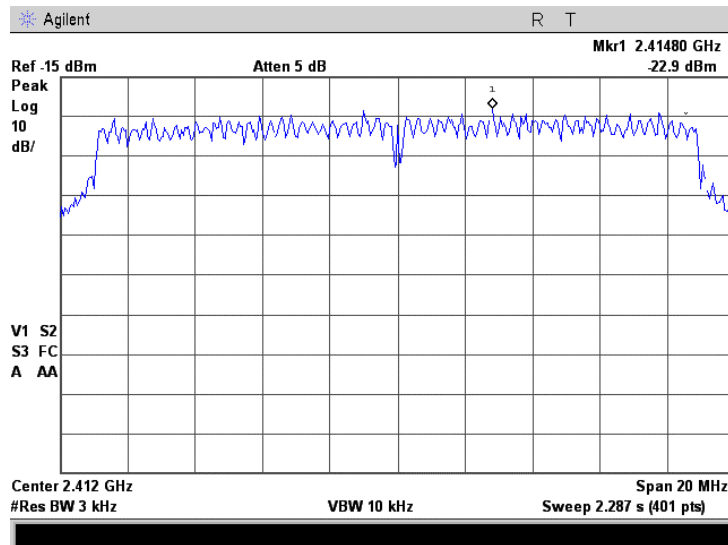




Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

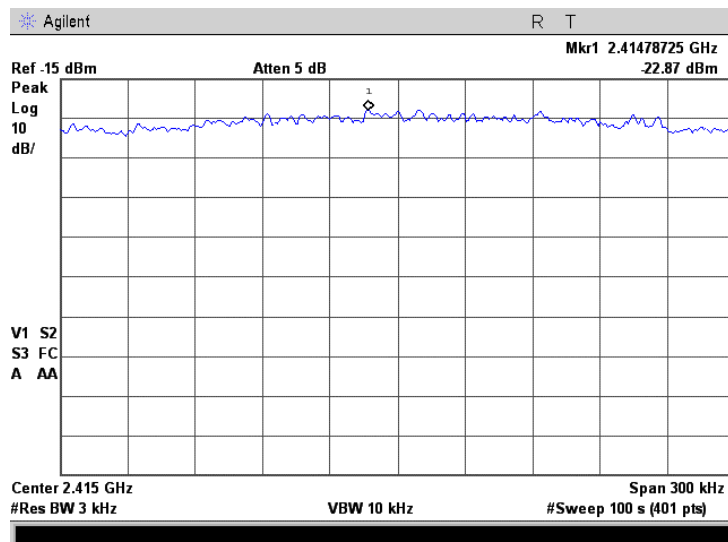
Plot 7.5.106 Peak spectral power density at low frequency 2412 MHz within 6 dB band, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	64QAM / 130



Plot 7.5.107 Peak spectral power density at low frequency 2412 MHz zoomed at the peak, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	64QAM / 130



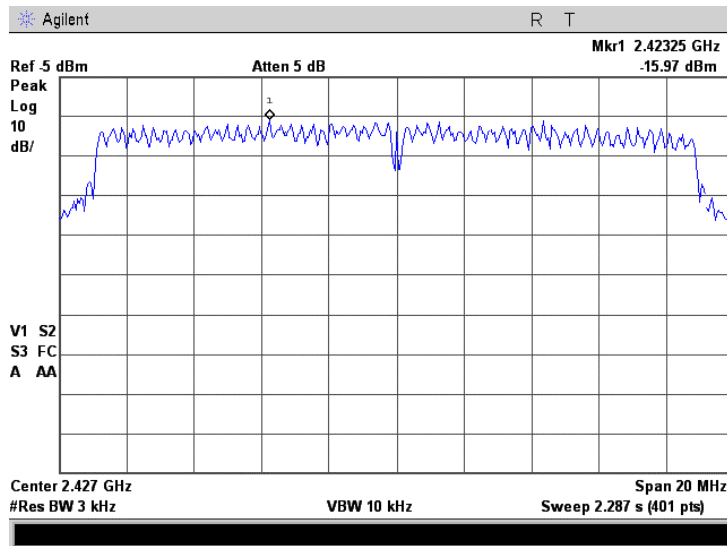


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

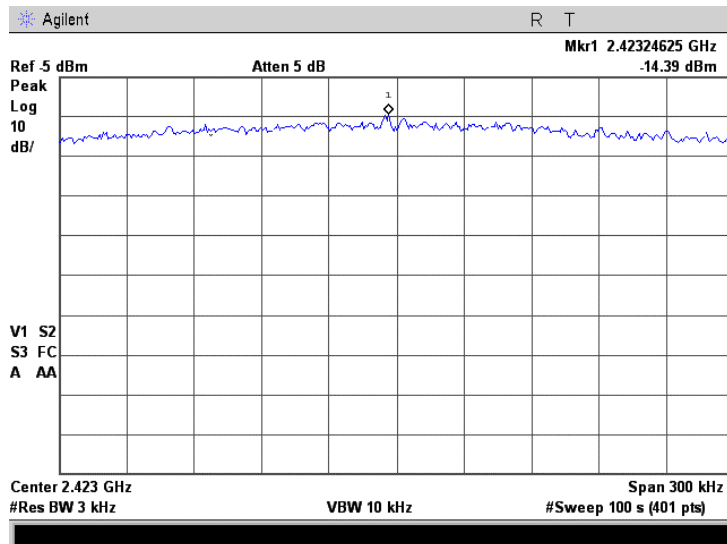
Plot 7.5.108 Peak spectral power density at mid frequency 2427 MHz within 6 dB band, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13



Plot 7.5.109 Peak spectral power density at mid frequency 2427 MHz zoomed at the peak, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13

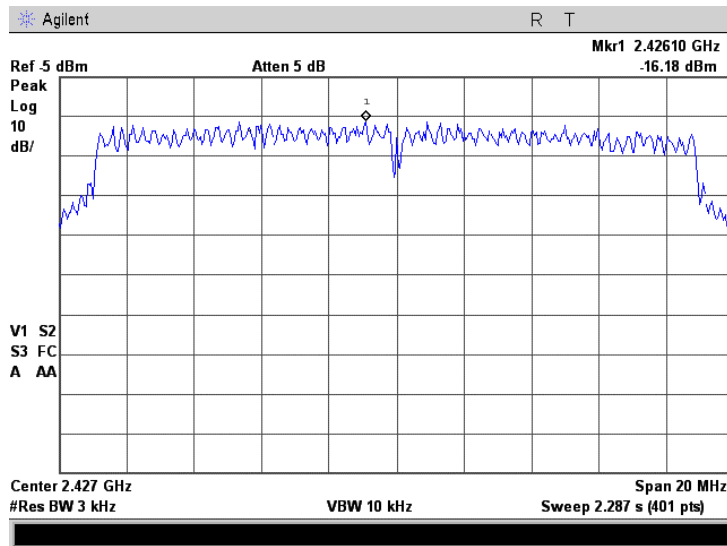




Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

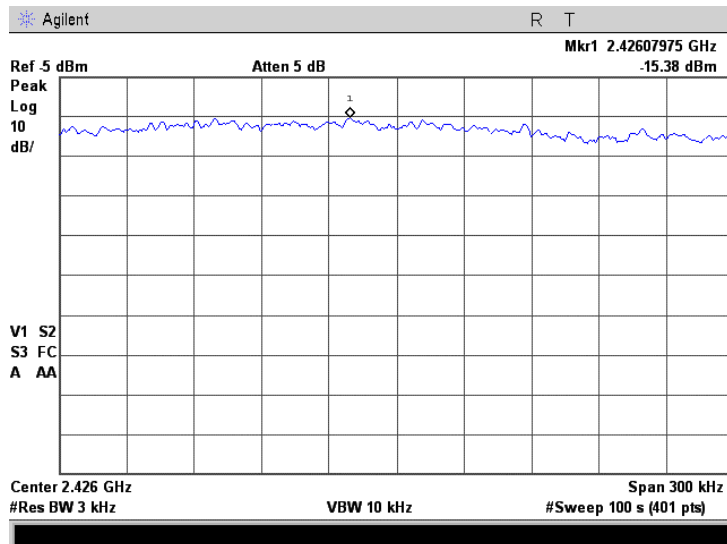
Plot 7.5.110 Peak spectral power density at mid frequency 2427 MHz within 6 dB band, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	64QAM / 130



Plot 7.5.111 Peak spectral power density at mid frequency 2427 MHz zoomed at the peak, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	64QAM / 130

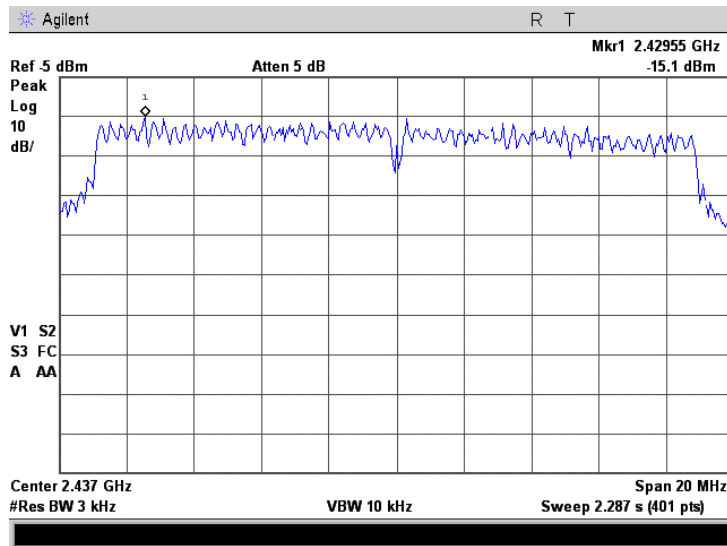




Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

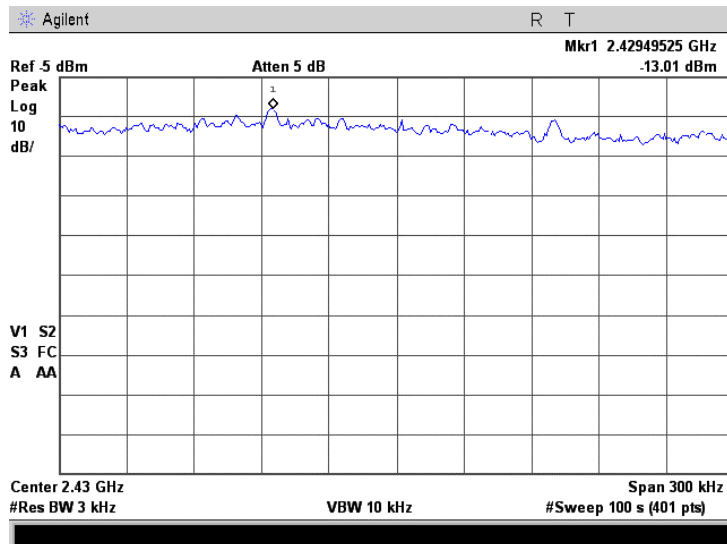
Plot 7.5.112 Peak spectral power density at mid frequency 2437 MHz within 6 dB band, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13



Plot 7.5.113 Peak spectral power density at mid frequency 2437 MHz zoomed at the peak, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13



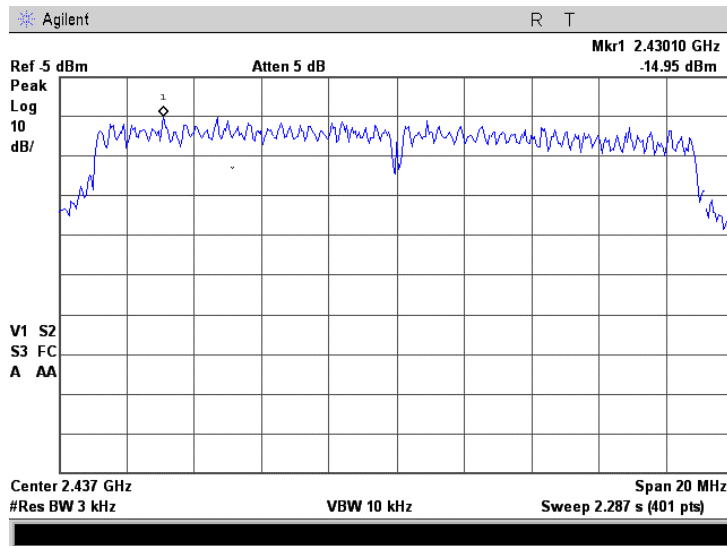


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

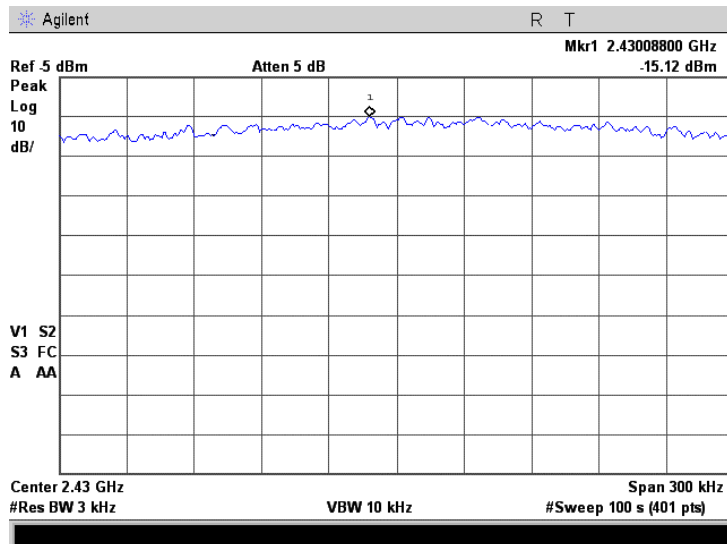
Plot 7.5.114 Peak spectral power density at mid frequency 2437 MHz within 6 dB band, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	64QAM / 130



Plot 7.5.115 Peak spectral power density at mid frequency 2437 MHz zoomed at the peak, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	64QAM / 130



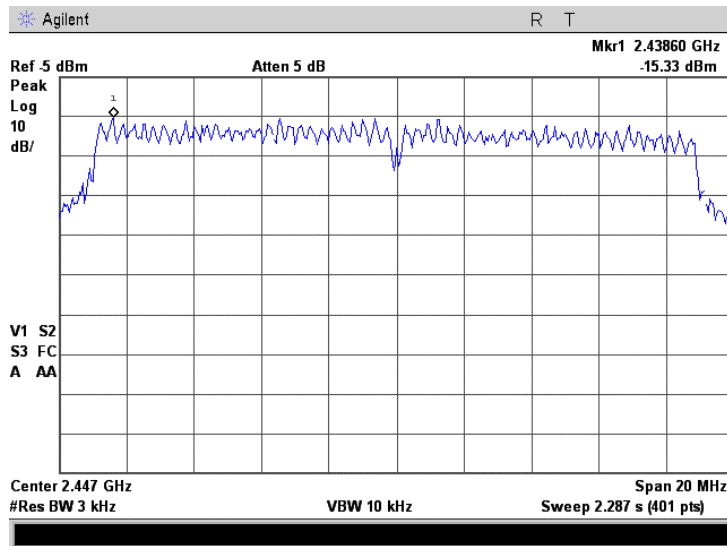


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

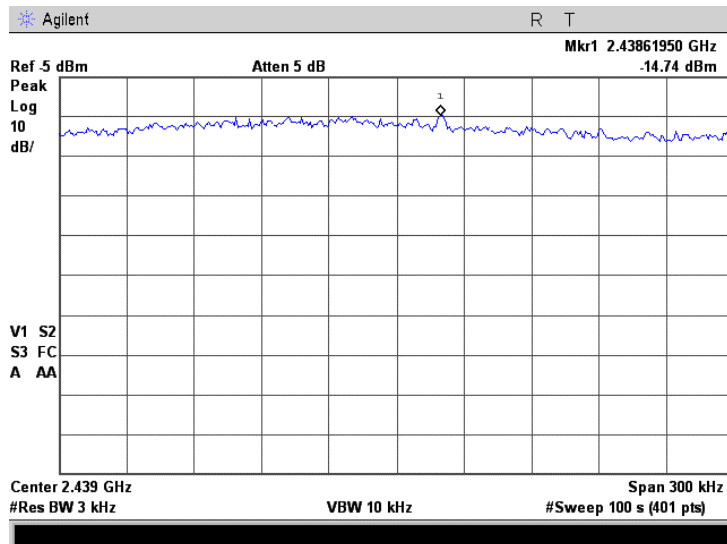
Plot 7.5.116 Peak spectral power density at high frequency 2447 MHz within 6 dB band, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13



Plot 7.5.117 Peak spectral power density at high frequency 2447 MHz zoomed at the peak, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13



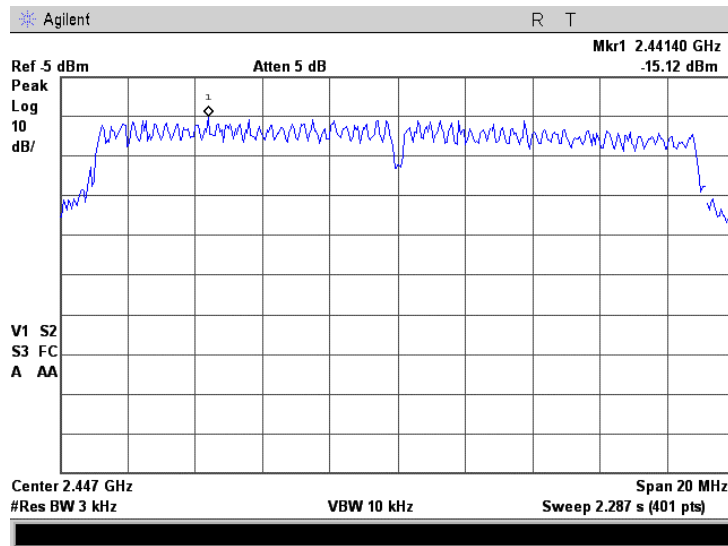


HERMON LABORATORIES

Test specification: Section 15.247(e), RSS-210 section A8.2(b), Peak power density			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/13/2009 1:47:06 PM			
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

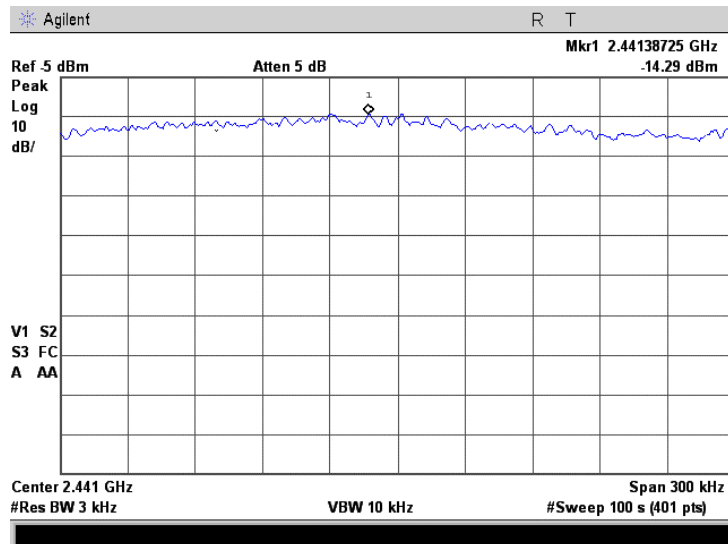
Plot 7.5.118 Peak spectral power density at high frequency 2447 MHz within 6 dB band, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 130



Plot 7.5.119 Peak spectral power density at high frequency 2447 MHz zoomed at the peak, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 130



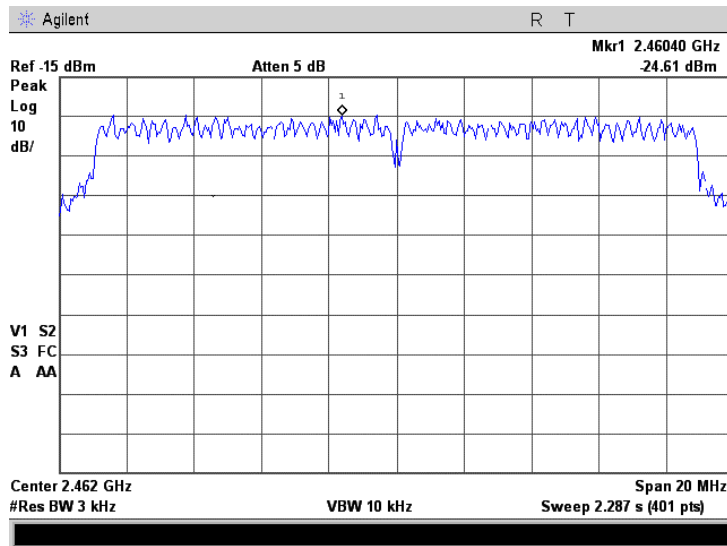


HERMON LABORATORIES

Test specification: Section 15.247(e), RSS-210 section A8.2(b), Peak power density			
Test procedure: FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/13/2009 1:47:06 PM			
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

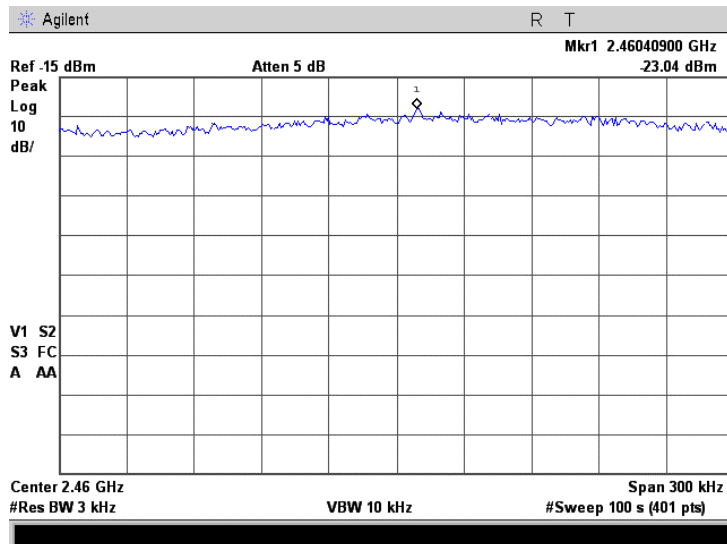
Plot 7.5.120 Peak spectral power density at high frequency 2462 MHz within 6 dB band, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13



Plot 7.5.121 Peak spectral power density at high frequency 2462 MHz zoomed at the peak, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	BPSK / 13



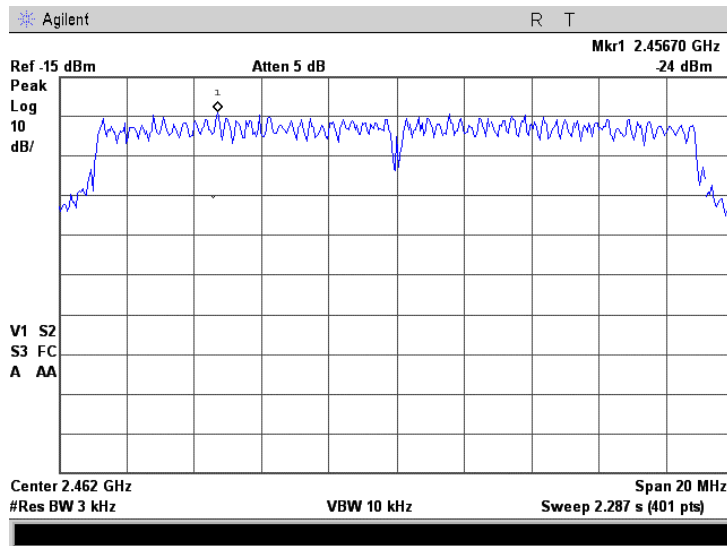


HERMON LABORATORIES

Test specification:	Section 15.247(e), RSS-210 section A8.2(b), Peak power density		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(d), Option 2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/13/2009 1:47:06 PM		
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

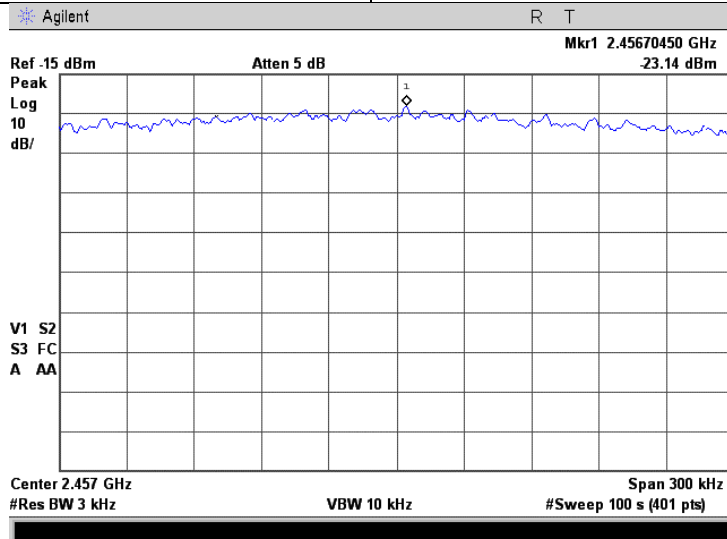
Plot 7.5.122 Peak spectral power density at high frequency 2462 MHz within 6 dB band, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	64QAM / 130



Plot 7.5.123 Peak spectral power density at high frequency 2462 MHz zoomed at the peak, antenna 2

Emission Bandwidth	20 MHz
Modulation / Bit rate	64QAM / 130





Test specification: FCC section 15.207(a), RSS-Gen section 7.2.2, Conducted emission			
Test procedure: ANSI C63.4, Section 13.1.3			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 8:56:33 AM			
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

7.6 Conducted emissions

7.6.1 General

This test was performed to measure common mode conducted emissions at the power port. Specification test limits are given in Table 7.6.1.

Table 7.6.1 Limits for conducted emissions according to FCC Part 15, Section 207 / RSS-Gen, Section 7.2.2

Frequency, MHz	Class B limit, dB(μV)	
	QP	AVRG
0.15 - 0.5	66 - 56*	56 - 46*
0.5 - 5.0	56	46
5.0 - 30	60	50

* - The limit decreases linearly with the logarithm of frequency.

7.6.2 Test procedure

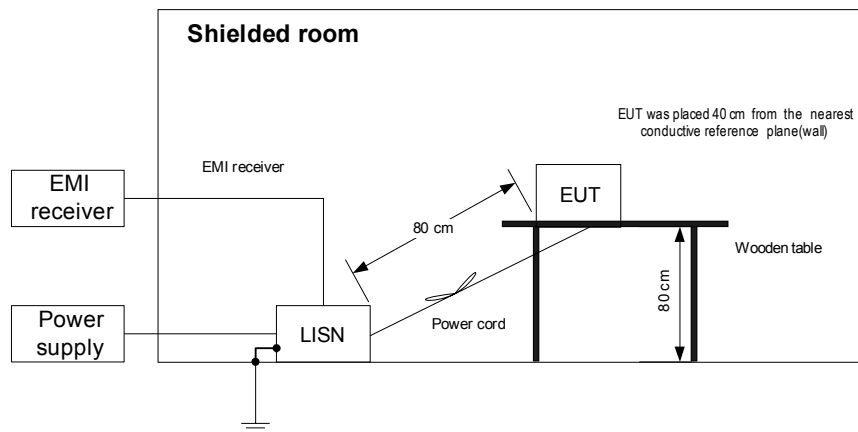
7.6.2.1 The EUT was set up as shown in Figure 7.6.1 and associated photographs, energized and the performance check was conducted.

7.6.2.2 The measurements were performed at power terminals with the LISN, connected to a spectrum analyzer while unused coaxial connector of the LISN was terminated with 50 Ohm.

7.6.2.3 The position of the device cables was varied to determine maximum emission level.

7.6.2.4 The worst test results (the lowest margins) were recorded in Table 7.6.2 and shown in the associated plots.

Figure 7.6.1 Setup for conducted emission measurements, table-top equipment





HERMON LABORATORIES

Test specification: FCC section 15.207(a), RSS-Gen section 7.2.2, Conducted emission			
Test procedure: ANSI C63.4, Section 13.1.3			
Test mode: Compliance		Verdict: PASS	
Date & Time: 4/20/2009 8:56:33 AM			
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Table 7.6.2 Conducted emission test results

LINE: AC mains
 EUT OPERATING MODE: Transmit
 EUT SET UP: TABLE-TOP
 TEST SITE: SHIELDED ROOM
 FREQUENCY RANGE: 150 kHz - 30 MHz
 RESOLUTION BANDWIDTH: 9 kHz

Frequency, MHz	Peak emission, dB(μV)	Quasi-peak			Average			Line ID	Verdict
		Measured emission, dB(μV)	Limit, dB(μV)	Margin, dB*	Measured emission, dB(μV)	Limit, dB(μV)	Margin, dB*		
0.155492	55.26	49.68	65.73	-16.05	45.67	55.73	-10.06	L1	Pass
0.530713	42.81	42.16	56.00	-13.84	41.94	46.00	-4.06		
2.807361	45.00	43.86	56.00	-12.14	42.06	46.00	-3.94		
3.113028	45.14	44.43	56.00	-11.57	43.76	46.00	-2.24		
3.417707	45.04	44.45	56.00	-11.55	42.85	46.00	-3.15		
3.795902	44.97	44.23	56.00	-11.77	42.86	46.00	-3.14		
0.153556	56.02	51.39	65.83	-14.44	47.61	55.83	-8.22	L2	Pass
0.528906	44.32	43.14	56.00	-12.86	42.81	46.00	-3.19		
2.801441	44.39	43.34	56.00	-12.66	41.36	46.00	-4.64		
3.180725	44.18	43.19	56.00	-12.81	40.76	46.00	-5.24		
3.479709	44.14	43.39	56.00	-12.61	42.77	46.00	-3.23		

*- Margin = Measured emission - specification limit.

Reference numbers of test equipment used

HL 0447	HL 0787	HL 1430	HL 1503	HL 3612			
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Full description is given in Appendix A.



HERMON LABORATORIES

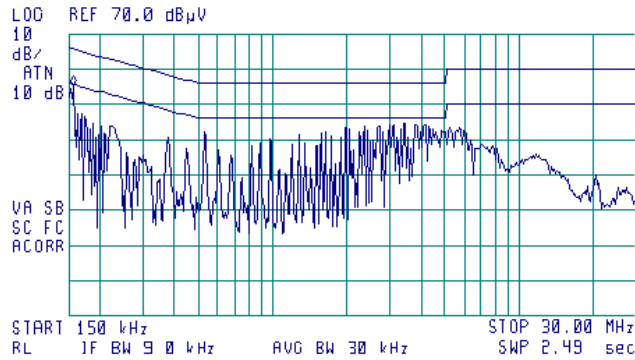
Test specification: FCC section 15.207(a), RSS-Gen section 7.2.2, Conducted emission			
Test procedure: ANSI C63.4, Section 13.1.3			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/20/2009 8:56:33 AM			
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.6.1 Conducted emission measurements

LINE: L1
EUT OPERATING MODE: Transmit
LIMIT: QUASI-PEAK, AVERAGE
DETECTOR: PEAK



ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 150 kHz
55.13 dBµV

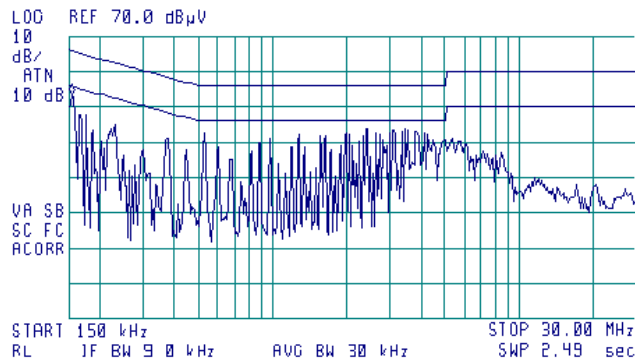


Plot 7.6.2 Conducted emission measurements

LINE: L2
EUT OPERATING MODE: Transmit
LIMIT: QUASI-PEAK, AVERAGE
DETECTOR: PEAK



ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 150 kHz
53.34 dBµV





Test specification: FCC section 15.203, RSS-Gen section 7.1.4, Antenna requirement	
Test procedure:	Visual inspection
Test mode:	Compliance
Date & Time:	4/20/2009 9:09:18 AM
Temperature: 23.4 °C	Air Pressure: 1015 hPa
Relative Humidity: 35 %	Power Supply: 120VAC
Remarks:	
Verdict: PASS	

7.7 Antenna requirements

The EUT was verified for compliance with antenna requirements. A transmitter shall be designed to ensure that no antenna other than that furnished by the responsible party will be used with the device. It may be either permanently attached or employs a unique antenna connector for every antenna proposed for use with the EUT. This requirement does not apply to professionally installed transmitters. The rationale for compliance with the above requirements was either visual inspection results or supplier declaration. The summary of results is provided in Table 7.7.1.

Table 7.7.1 Antenna requirements

Requirement	Rationale	Verdict
The transmitter antenna is permanently attached	NA	Comply
The transmitter employs a unique antenna connector	NA	
The transmitter requires professional installation	Supplier declaration	



Test specification:		RSS-Gen Section 7.2.3.2, Receiver spurious emission	
Test procedure:		RSS-Gen, Section 4.10	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/19/2009 11:02:09 PM		
Temperature: 24 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

8 Receiver tests

8.1 Receiver spurious emissions at RF antenna connector

8.1.1 General

This test was performed to measure spurious emissions at RF antenna connector of receiver. Specification test limits are given in Table 8.1.1.

Table 8.1.1 Receiver spurious emission limits

Frequency range, MHz	Maximum ERP, nW	Maximum ERP, dBm	Measurement bandwidth, (min) kHz
30 – 1000	2	-57	4
1000 - 15000	5	-53	4

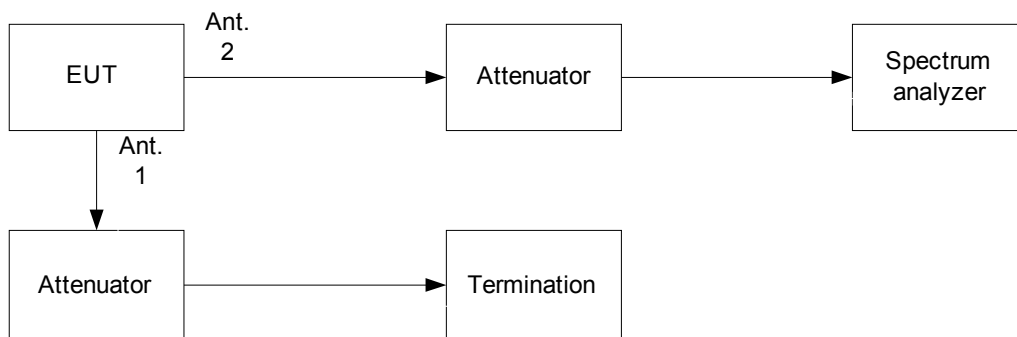
8.1.2 Test procedure

8.1.2.1 The EUT was set up as shown in Figure 8.1.1, energized and its proper operation was checked.

8.1.2.2 The EUT was set in receive mode.

8.1.2.3 Spurious emission was measured with spectrum analyzer as provided in Table 8.1.2 and the associated plots.

Figure 8.1.1 Receiver spurious emission test set up





Test specification:		RSS-Gen Section 7.2.3.2, Receiver spurious emission	
Test procedure:		RSS-Gen, Section 4.10	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/19/2009 11:02:09 PM		
Temperature: 24 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Table 8.1.2 Receiver spurious emission test results

ASSIGNED FREQUENCY RANGE: 2400 – 2483.5 MHz
DETECTOR USED: Peak
RESOLUTION BANDWIDTH: 120 kHz in the 30 – 1000 MHz frequency range;
1000 kHz in the 1000 – 15000 MHz frequency range
VIDEO BANDWIDTH: > RBW

Receive frequency, MHz	Unwanted frequency, MHz	Unwanted emission, dBm	Unwanted emission limit, dBm	Margin, dB	Verdict
Antenna 1					
No emissions were found					Pass
Antenna 2					
No emissions were found					Pass

Reference numbers of test equipment used

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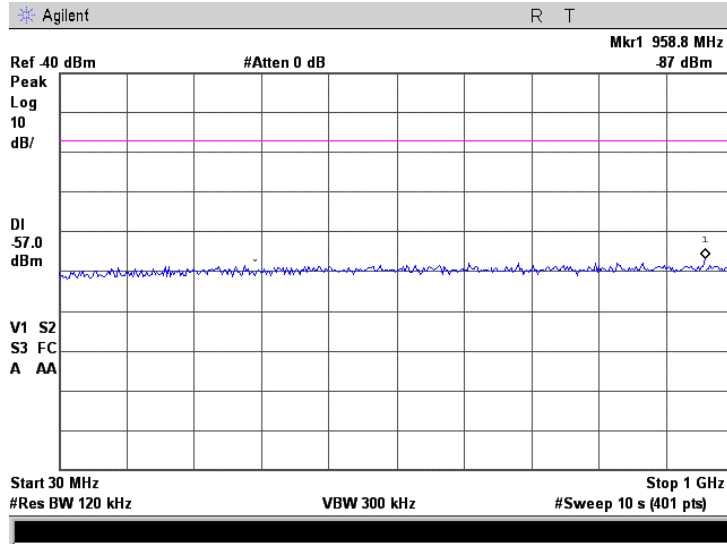
Full description is given in Appendix A.



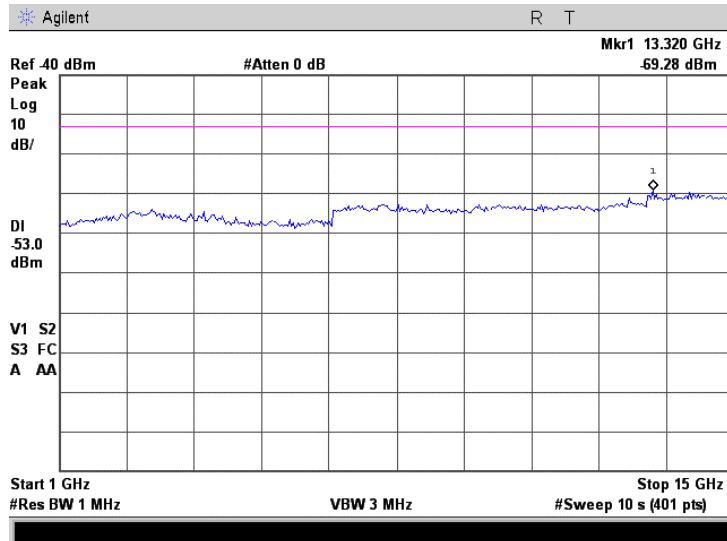
HERMON LABORATORIES

Test specification: RSS-Gen Section 7.2.3.2, Receiver spurious emission			
Test procedure: RSS-Gen, Section 4.10			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/19/2009 11:02:09 PM			
Temperature: 24 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 8.1.1 Receiver spurious emission test results in 30 – 1000 MHz range at antenna 1



Plot 8.1.2 Receiver spurious emission test results in 1.0 – 15.0 GHz range at antenna 1

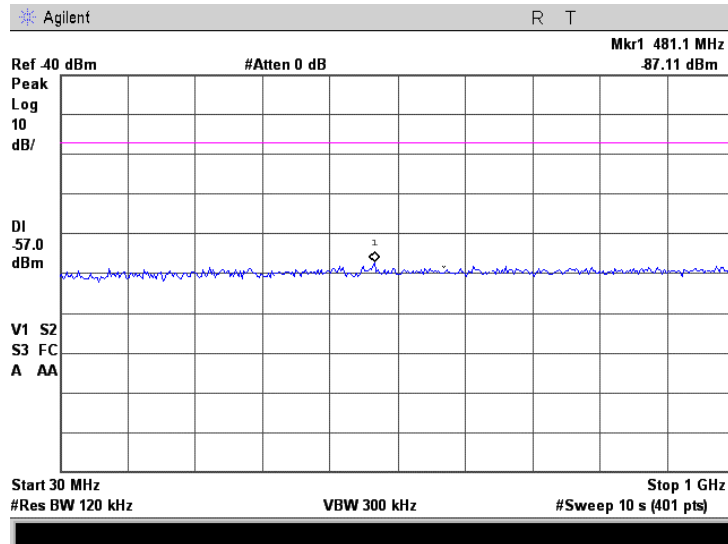




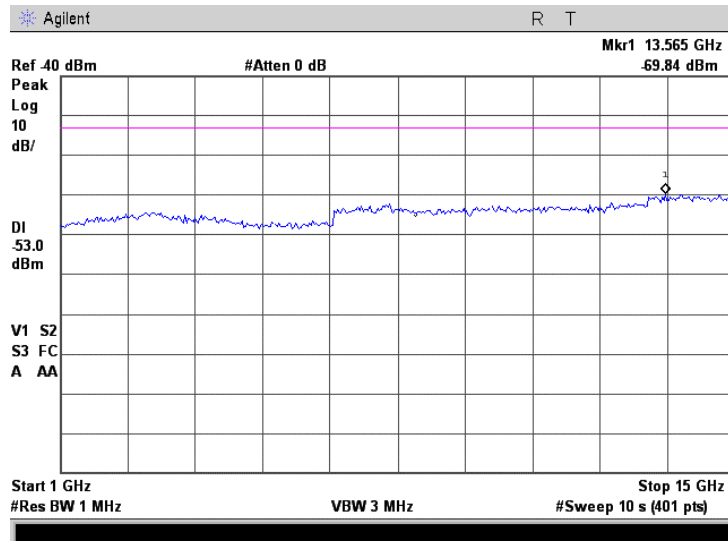
HERMON LABORATORIES

Test specification: RSS-Gen Section 7.2.3.2, Receiver spurious emission			
Test procedure: RSS-Gen, Section 4.10			
Test mode: Compliance	Verdict: PASS		
Date & Time: 4/19/2009 11:02:09 PM			
Temperature: 24 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 8.1.3 Receiver spurious emission test results in 30 – 1000 MHz range at antenna 2



Plot 8.1.4 Receiver spurious emission test results in 1.0 – 15.0 GHz range at antenna 2



**9 APPENDIX A Test equipment and ancillaries used for tests**

HL No	Description	Manufacturer	Model	Ser. No.	Last Cal.	Due Cal.
0446	Antenna, Loop, Active, 10 kHz - 30 MHz	EMCO	6502	2857	29-Jun-08	29-Jun-09
0447	LISN, 16/2, 300V RMS, 50 Ohm/50 uH + 5 Ohm, STD CISPR 16-1	Hermon Laboratories	LISN 16 - 1	066	04-Nov-08	04-Nov-09
0521	EMI Receiver (Spectrum Analyzer) with RF filter section 9 kHz-6.5 GHz	Hewlett Packard Co	8546A	3617A 00319, 3448A002 53	29-Aug-08	29-Aug-09
0604	Antenna BiconiLog Log-Periodic/T Bow-TIE, 26 - 2000 MHz	EMCO	3141	9611-1011	11-Jan-09	11-Jan-10
0787	Transient Limiter 9 kHz-200 MHz	Hewlett Packard Co	11947A	3107A018 77	16-Oct-08	16-Oct-09
1430	EMI Receiver, 9 kHz - 2.9 GHz, System: HL1431, HL1432	Agilent Technologies	8542E	3807A002 62,3705A0 0217	31-Aug-08	31-Aug-09
1503	Cable RF, 6 m, BNC/BNC	Belden	M17/167 MIL-C-17	1503	30-Dec-08	30-Dec-09
1984	Antenna, Double-Ridged Waveguide Horn, 1-18 GHz, 300 W	EMC Test Systems	3115	9911-5964	23-Jan-09	23-Jan-10
2013	Power Divider, 0.5-18.0 GHz, 80 W	Omni Spectra	2090- 6204-00	2013	01-Dec-08	01-Dec-09
2432	Antenna, Double-Ridged Waveguide Horn 1-18 GHz	EMC Test Systems	3115	00027177	23-Jan-09	23-Jan-10
2643	Load Termination 50 Ohm, 0.5 W, DC-1.0 GHz	RELM	LT-50	2643	19-Nov-08	19-Nov-09
2883	Cable, 18 GHz N-type, M-F, 3 m	Bird	TC- MNFN-3.0	211539 003	07-Dec-08	07-Dec-09
2909	Spectrum analyzer, ESA-E, 100 Hz to 26.5 GHz	Agilent Technologies	E4407B	MY414447 62	07-May-08	07-May-09
2952	Cable, RF, 18 GHz, 1.2 m, SMA-SMA	Gore	10020014	NA	05-Oct-08	05-Oct-09
3122	Microwave Cable Assembly, 18 GHz, 6.4 m, SMA - SMA	Huber-Suhner	198-9155- 00	3122	07-Dec-08	07-Dec-09
3123	Microwave Cable Assembly, 18 GHz, 6.4 m, SMA - SMA	Huber-Suhner	198-9155- 00	3123	30-Dec-08	30-Dec-09
3174	Attenuator, N-type, 10 dB, DC to 18 GHz, 5 W	Mini-Circuits	BW- N10W5+	NA	07-May-08	07-May-09
3176	Attenuator, N-type, 10 dB, DC to 18 GHz, 5 W	Mini-Circuits	BW- N10W5+	NA	07-May-08	07-May-09
3179	Attenuator, N-type, 20 dB, DC to 18 GHz, 5 W	Mini-Circuits	BW- N20W5+	NA	07-May-08	07-May-09
3301	Power Meter, P-series, 50 MHz to 40 GHz	Agilent Technologies	N1911A	MY451010 57	03-Dec-08	03-Dec-09
3302	Power sensor, P-Series, 50 MHz to 40 GHz, -35/30 to 20 dBm	Agilent Technologies	N1922A	MY452405 86	05-Dec-08	05-Dec-09
3355	Low Pass Filter, 50 Ohm, DC to 1450 MHz.	Mini-Circuits	VLF- 1450+	NA	26-Oct-08	26-Oct-09
3439	Precision Fixed Attenuator, 50 Ohm, 5 W, 20 dB, DC to 18 GHz	Mini-Circuits	BW- S20W5+	NA	08-Mar-09	08-Mar-10



HL No	Description	Manufacturer	Model	Ser. No.	Last Cal.	Due Cal.
3441	Precision Fixed Attenuator, 50 Ohm, 5 W, 20 dB, DC to 18 GHz	Mini-Circuits	BW-S20W5+	NA	08-Mar-09	08-Mar-10
3472	Cable, Coax, Microwave, DC-18 GHz, SMA-SMA, 1.0 m	Gore	GORE 65474	1003478	12-May-08	12-May-09
3473	Cable, Coax, Microwave, DC-18 GHz, SMA-SMA, 0.6 m	Gore	GORE 65474	1003478	12-May-08	12-May-09
3531	Amplifier, low noise, 2 to 8 GHz	Quinstar Technology	QLJ-02084040-J0	11159002002	07-Dec-08	07-Dec-09
3532	Amplifier, low noise, 2 to 8 GHz	Quinstar Technology	QLJ-02084040-J0	11159002001	23-Nov-08	23-Nov-09
3533	Amplifier, low noise, 6 to 18 GHz	Quinstar Technology	QLJ-06184040-J0	11159001001	07-Dec-08	07-Dec-09
3612	Cable RF, 17.5 m, N type-N type	Teldor	RG-214/U	NA	17-Nov-08	17-Nov-09
3616	Cable RF, 6.5 m, N type-N type, DC-6.5 GHz	Suhner Switzerland	Rg 214/U	NA	07-Dec-08	07-Dec-09

10 APPENDIX B Measurement uncertainties

Expanded uncertainty at 95% confidence in Hermon Labs EMC measurements

Test description	Expanded uncertainty
Conducted carrier power at RF antenna connector	Below 12.4 GHz: ± 1.7 dB 12.4 GHz to 40 GHz: ± 2.3 dB
Conducted emissions at RF antenna connector	9 kHz to 2.9 GHz: ± 2.6 dB 2.9 GHz to 6.46 GHz: ± 3.5 dB 6.46 GHz to 13.2 GHz: ± 4.3 dB 13.2 GHz to 22.0 GHz: ± 5.0 dB 22.0 GHz to 26.8 GHz: ± 5.5 dB 26.8 GHz to 40.0 GHz: ± 4.8 dB
Occupied bandwidth	± 8.0 %
Duty cycle, timing (Tx ON / OFF) and average factor measurements	± 1.0 %
Conducted emissions with LISN	9 kHz to 150 kHz: ± 3.9 dB 150 kHz to 30 MHz: ± 3.8 dB
Radiated emissions at 3 m measuring distance Horizontal polarization Vertical polarization	Biconilog antenna: ± 5.3 dB Biconical antenna: ± 5.0 dB Log periodic antenna: ± 5.3 dB Double ridged horn antenna: ± 5.3 dB Biconilog antenna: ± 6.0 dB Biconical antenna: ± 5.7 dB Log periodic antenna: ± 6.0 dB Double ridged horn antenna: ± 6.0 dB

Hermon Laboratories is accredited by A2LA for calibration according to present requirements of ISO/IEC 17025 and NCSL Z540-1. The accreditation is granted to perform calibration of parameters that are listed in the Scope of Hermon Laboratories Accreditation.

Hermon Laboratories calibrates its reference and transfer standards by calibration laboratories accredited to ISO/IEC 17025 by a mutually recognized Accreditation Body or by a recognized national metrology institute. All reference and transfer standards used in the calibration system are traceable to national or international standards.

In-house calibration of all test and measurement equipment is performed on a regular basis according to Hermon Laboratories calibration procedures, manufacturer calibration/verification procedures or procedures defined in the relevant standards. The Hermon Laboratories test and measurement equipment is calibrated within the tolerances specified by the manufacturers and/or by the relevant standards.

11 APPENDIX C Test laboratory description

Tests were performed at Hermon Laboratories Ltd., which is a fully independent, private, EMC, safety, environmental and telecommunication testing facility. Hermon Laboratories is listed by the Federal Communications Commission (USA) for all parts of Code of Federal Regulations 47 (CFR 47) and by Industry Canada for electromagnetic emissions (file numbers IC 2186A-1 for OATS and IC 2186A-2 for anechoic chamber), certified by VCCI, Japan (the registration numbers are R-808 for OATS, R-1082 for anechoic chamber, C-845 for conducted emissions site), assessed by TNO Certification EP&S (Netherlands) for a number of EMC, telecommunications, environmental, safety standards, and by AMTAC (UK) for safety of medical devices. The laboratory is accredited by American Association for Laboratory Accreditation (USA) according to ISO/IEC 17025 for electromagnetic compatibility, product safety, telecommunications testing and environmental simulation (for exact scope please refer to Certificate No. 839.01).

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website: www.hermonlabs.com

Person for contact: Mr. Alex Usoskin, CEO.

12 APPENDIX D Specification references

FCC 47CFR part 15: 2008	Radio Frequency Devices.
FR Vol.62	Federal Register, Volume 62, May 13, 1997
FCC New Guidance:2004	FCC New Guidance on Measurements for DTS
ANSI C63.2: 1996	American National Standard for Instrumentation-Electromagnetic Noise and Field Strength, 10 kHz to 40 GHz-Specifications.
ANSI C63.4: 2003	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.
RSS-210 Issue 7: 2007	Low Power Licence- Exempt Radiocommunication Devices
RSS-Gen Issue 2: 2007	General Requirements and Information for the Certification of Radiocommunication Equipment

13 APPENDIX E Test equipment correction factors

Antenna Factor
Active Loop Antenna
EMC Test Systems, model 6502, S/N 2857, HL 0446

Frequency, MHz	Magnetic Antenna Factor, dB(S/m)	Electric Antenna Factor, dB(1/m)
0.009	-32.8	18.7
0.010	-33.8	17.7
0.020	-38.3	13.2
0.050	-41.1	10.4
0.075	-41.3	10.2
0.100	-41.6	9.9
0.150	-41.7	9.8
0.250	-41.6	9.9
0.500	-41.8	9.7
0.750	-41.9	9.6
1.000	-41.4	10.1
2.000	-41.5	10.0
3.000	-41.4	10.1
4.000	-41.4	10.1
5.000	-41.5	10.0
10.000	-41.9	9.6
15.000	-41.9	9.6
20.000	-42.2	9.3
25.000	-42.8	8.7
30.000	-44.0	7.5

Antenna factor in dB(S/m) is to be added to receiver meter reading in dB(μ V) to convert it into field intensity in dB(μ A/m).
Antenna factor in dB(1/m) is to be added to receiver meter reading in dB(μ V) to convert it into field intensity in dB(μ V/m).

Antenna factor
Biconilog antenna EMCO, model 3141, serial number 1011, HL 0604

Frequency, MHz	Antenna factor, dB(1/m)	Frequency, MHz	Antenna factor, dB(1/m)	Frequency, MHz	Antenna factor, dB(1/m)
26	7.8	560	19.8	1300	27.0
28	7.8	580	20.6	1320	27.8
30	7.8	600	21.3	1340	28.3
40	7.2	620	21.5	1360	28.2
60	7.1	640	21.2	1380	27.9
70	8.5	660	21.4	1400	27.9
80	9.4	680	21.9	1420	27.9
90	9.8	700	22.2	1440	27.8
100	9.7	720	22.2	1460	27.8
110	9.3	740	22.1	1480	28.0
120	8.8	760	22.3	1500	28.5
130	8.7	780	22.6	1520	28.9
140	9.2	800	22.7	1540	29.6
150	9.8	820	22.9	1560	29.8
160	10.2	840	23.1	1580	29.6
170	10.4	860	23.4	1600	29.5
180	10.4	880	23.8	1620	29.3
190	10.3	900	24.1	1640	29.2
200	10.6	920	24.1	1660	29.4
220	11.6	940	24.0	1680	29.6
240	12.4	960	24.1	1700	29.8
260	12.8	980	24.5	1720	30.3
280	13.7	1000	24.9	1740	30.8
300	14.7	1020	25.0	1760	31.1
320	15.2	1040	25.2	1780	31.0
340	15.4	1060	25.4	1800	30.9
360	16.1	1080	25.6	1820	30.7
380	16.4	1100	25.7	1840	30.6
400	16.6	1120	26.0	1860	30.6
420	16.7	1140	26.4	1880	30.6
440	17.0	1160	27.0	1900	30.6
460	17.7	1180	27.0	1920	30.7
480	18.1	1200	26.7	1940	30.9
500	18.5	1220	26.5	1960	31.2
520	19.1	1240	26.5	1980	31.6
540	19.5	1260	26.5	2000	32.0
		1280	26.6		

Antenna factor in dB(1/m) is to be added to receiver meter reading in dB(μ V) to convert it into field intensity in dB(μ V/m).

**Antenna factor
Double-ridged wave guide horn antenna
Model 3115, S/N 9911-5964, HL 1984**

Frequency, MHz	Antenna factor, dB(1/m)
1000.0	24.7
1500.0	25.7
2000.0	27.6
2500.0	28.9
3000.0	31.2
3500.0	32.0
4000.0	32.5
4500.0	32.7
5000.0	33.6
5500.0	35.1
6000.0	35.4
6500.0	34.9
7000.0	36.1
7500.0	37.8
8000.0	38.0
8500.0	38.1
9000.0	39.1
9500.0	38.3
10000.0	38.6
10500.0	38.2
11000.0	38.7
11500.0	39.5
12000.0	40.0
12500.0	40.4
13000.0	40.5
13500.0	41.1
14000.0	41.6
14500.0	41.7
15000.0	38.7
15500.0	38.2
16000.0	38.8
16500.0	40.5
17000.0	42.5
17500.0	45.9
18000.0	49.4

Antenna factor in dB(1/m) is to be added to receiver meter reading in dB(μ V) to convert it into field intensity in dB(μ V/m).

**Antenna factor
Double-ridged guide horn antenna
Model 3115, serial number: 00027177, HL 2432**

Frequency, MHz	Antenna factor. dB(1/m)
1000.0	24.7
1500.0	25.7
2000.0	27.8
2500.0	28.9
3000.0	30.7
3500.0	31.8
4000.0	33.0
4500.0	32.8
5000.0	34.2
5500.0	34.9
6000.0	35.2
6500.0	35.4
7000.0	36.3
7500.0	37.3
8000.0	37.5
8500.0	38.0
9000.0	38.3
9500.0	38.3
10000.0	38.7
10500.0	38.7
11000.0	38.9
11500.0	39.5
12000.0	39.5
12500.0	39.4
13000.0	40.5
13500.0	40.8
14000.0	41.5
14500.0	41.3
15000.0	40.2
15500.0	38.7
16000.0	38.5
16500.0	39.8
17000.0	41.9
17500.0	45.8
18000.0	49.1

Antenna factor in dB(1/m) is to be added to receiver meter reading in dB(μ V) to convert it into field intensity in dB(μ V/m).



Cable loss
Cable coaxial, 6 m, model: M17/167 MIL-C-17, HL 1503

Frequency, MHz	Cable loss, dB
0.15	0.043
1	0.077
3	0.139
5	0.169
10	0.248
30	0.430
50	0.561
75	0.697
100	0.822
300	1.446
500	1.901
800	2.663
1000	2.829
1500	3.569
2000	4.179



Cable loss
Cable coaxial, Bird, 18 GHz, N-type, M-F, model TC-MNFN-3.0, S/N 211539 003
HL 2883

Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB
10	0.06	5750	1.70	12000	2.46
30	0.12	6000	1.75	12250	2.48
100	0.21	6250	1.80	12500	2.52
250	0.34	6500	1.81	12750	2.50
500	0.47	6750	1.86	13000	2.54
750	0.59	7000	1.86	13250	2.48
1000	0.67	7250	1.92	13500	2.63
1250	0.76	7500	1.96	13750	2.65
1500	0.84	7750	1.98	14000	2.72
1750	0.92	8000	2.02	14250	2.67
2000	0.98	8250	2.03	14500	2.70
2250	1.05	8500	2.05	14750	2.72
2500	1.12	8750	2.11	15000	2.79
2750	1.17	9000	2.17	15250	2.80
3000	1.22	9250	2.17	15500	2.83
3250	1.27	9500	2.20	15750	2.75
3500	1.33	9750	2.19	16000	2.82
3750	1.38	10000	2.22	16250	2.85
4000	1.42	10250	2.25	16500	2.90
4250	1.46	10500	2.30	16750	2.89
4500	1.51	10750	2.28	17000	2.88
4750	1.54	11000	2.32	17250	2.85
5000	1.59	11250	2.34	17500	2.96
5250	1.62	11500	2.39	17750	3.04
5500	1.65	11750	2.42	18000	3.04



Cable loss
Cable coaxial, Gore, 18 GHz, 1.2 m, SMA-SMA, S/N 10020014
HL 2952

Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB
10	0.03	5750	0.97	12000	1.50
30	0.05	6000	1.01	12250	1.45
100	0.11	6250	1.03	12500	1.48
250	0.19	6500	1.06	12750	1.57
500	0.26	6750	1.08	13000	1.51
750	0.32	7000	1.10	13250	1.64
1000	0.38	7250	1.13	13500	1.60
1250	0.43	7500	1.13	13750	1.63
1500	0.47	7750	1.21	14000	1.59
1750	0.53	8000	1.20	14250	1.66
2000	0.55	8250	1.24	14500	1.60
2250	0.59	8500	1.29	14750	1.65
2500	0.63	8750	1.23	15000	1.72
2750	0.66	9000	1.27	15250	1.68
3000	0.69	9250	1.27	15500	1.73
3250	0.72	9500	1.29	15750	1.70
3500	0.75	9750	1.30	16000	1.82
3750	0.78	10000	1.38	16250	1.79
4000	0.82	10250	1.44	16500	1.81
4250	0.84	10500	1.47	16750	1.91
4500	0.86	10750	1.45	17000	1.92
4750	0.90	11000	1.50	17250	1.98
5000	0.91	11250	1.46	17500	2.05
5250	0.94	11500	1.47	17750	2.04
5500	0.96	11750	1.44	18000	2.05



Cable loss
Microwave Cable Assembly, 18 GHz, 6.4 m, SMA – SMA, Huber-Suhner, model 198-9155-00
HL 3122

Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB
10	0.11	3600	2.08	7400	3.07	11200	3.92	15100	4.61
30	0.17	3700	2.12	7500	3.09	11300	3.95	15200	4.58
50	0.23	3800	2.15	7600	3.14	11400	3.93	15300	4.62
100	0.32	3900	2.18	7700	3.15	11500	3.93	15400	4.62
200	0.47	4000	2.21	7800	3.19	11600	3.94	15500	4.65
300	0.58	4100	2.24	7900	3.22	11700	3.97	15600	4.66
400	0.66	4200	2.27	8000	3.20	11800	3.98	15700	4.66
500	0.74	4300	2.31	8100	3.21	11900	4.08	15800	4.72
600	0.81	4400	2.31	8200	3.24	12000	4.03	15900	4.78
700	0.88	4500	2.36	8300	3.27	12100	4.06	16000	4.89
800	0.95	4600	2.37	8400	3.32	12200	4.05	16100	4.95
900	1.00	4700	2.40	8500	3.35	12300	4.16	16200	4.92
1000	1.06	4800	2.43	8600	3.35	12400	4.18	16300	4.95
1100	1.11	4900	2.45	8700	3.33	12500	4.20	16400	5.02
1200	1.16	5000	2.50	8800	3.37	12600	4.22	16500	5.04
1300	1.21	5100	2.51	8900	3.39	12700	4.23	16600	5.06
1400	1.26	5200	2.55	9000	3.45	12800	4.28	16700	5.17
1500	1.31	5300	2.56	9100	3.46	12900	4.26	16800	5.16
1600	1.35	5400	2.59	9200	3.47	13000	4.28	16900	5.19
1700	1.39	5500	2.62	9300	3.46	13100	4.28	17000	5.23
1800	1.44	5600	2.65	9400	3.50	13200	4.28	17100	5.30
1900	1.47	5700	2.67	9500	3.50	13300	4.29	17200	5.26
2000	1.52	5800	2.71	9600	3.53	13400	4.34	17300	5.30
2100	1.55	5900	2.72	9700	3.52	13500	4.31	17400	5.30
2200	1.60	6000	2.73	9800	3.54	13600	4.35	17500	5.36
2300	1.63	6100	2.76	9900	3.56	13700	4.36	17600	5.40
2400	1.67	6200	2.78	10000	3.57	13800	4.37	17700	5.47
2500	1.70	6300	2.81	10100	3.60	13900	4.41	17800	5.56
2600	1.74	6400	2.85	10200	3.69	14000	4.42	17900	5.45
2700	1.78	6500	2.87	10300	3.69	14100	4.45	18000	5.47
2800	1.83	6600	2.87	10400	3.67	14200	4.49		
2900	1.85	6700	2.90	10500	3.70	14300	4.55		
3000	1.89	6800	2.91	10600	3.70	14400	4.62		
3100	1.92	6900	2.96	10700	3.76	14600	4.54		
3200	1.96	7000	2.99	10800	3.88	14700	4.58		
3300	1.99	7100	3.01	10900	3.88	14800	4.57		
3400	2.03	7200	3.04	11000	3.85	14900	4.65		
3500	2.06	7300	3.08	11100	3.85	15000	4.64		

Cable loss
Microwave Cable Assembly, 18 GHz, 6.4 m, SMA – SMA, Huber-Suhner, model 198-9155-00
HL 3123

Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB	Frequency, MHz	Cable loss, dB
10	0.11	3600	1.97	7400	3.12	11200	3.90	15100	4.74
30	0.17	3700	1.97	7500	3.13	11300	3.93	15200	4.70
50	0.25	3800	2.03	7600	3.16	11400	3.88	15300	4.73
100	0.32	3900	2.04	7700	3.18	11500	3.87	15400	4.78
200	0.46	4000	2.10	7800	3.20	11600	3.90	15500	4.75
300	0.58	4100	1.97	7900	3.23	11700	3.86	15600	4.76
400	0.65	4200	1.97	8000	3.25	11800	3.88	15700	4.75
500	0.74	4300	2.03	8100	3.26	11900	3.86	15800	4.78
600	0.82	4400	2.04	8200	3.28	12000	3.89	15900	4.79
700	0.89	4500	2.10	8300	3.31	12100	3.94	16000	4.73
800	0.95	4600	1.97	8400	3.31	12200	3.92	16100	4.78
900	1.01	4700	1.97	8500	3.32	12300	3.96	16200	4.84
1000	1.07	4800	2.03	8600	3.34	12400	4.01	16300	4.90
1100	1.11	4900	2.04	8700	3.35	12500	4.07	16400	4.87
1200	1.17	5000	2.10	8800	3.37	12600	4.08	16500	4.90
1300	1.22	5100	2.53	8900	3.39	12700	4.17	16600	4.98
1400	1.27	5200	2.55	9000	3.42	12800	4.26	16700	5.05
1500	1.29	5300	2.60	9100	3.43	12900	4.16	16800	5.04
1600	1.35	5400	2.61	9200	3.51	13000	4.21	16900	5.02
1700	1.40	5500	2.64	9300	3.52	13100	4.24	17000	5.09
1800	1.44	5600	2.70	9400	3.54	13200	4.27	17100	5.07
1900	1.51	5700	2.67	9500	3.63	13300	4.31	17200	5.10
2000	1.49	5800	2.71	9600	3.61	13400	4.33	17300	5.13
2100	1.55	5900	2.74	9700	3.71	13500	4.25	17400	5.23
2200	1.58	6000	2.80	9800	3.66	13600	4.27	17500	5.21
2300	1.62	6100	2.79	9900	3.77	13700	4.33	17600	5.22
2400	1.72	6200	2.81	10000	3.75	13800	4.33	17700	5.36
2500	1.76	6300	2.83	10100	3.77	13900	4.31	17800	5.35
2600	1.78	6400	2.86	10200	3.80	14000	4.30	17900	5.45
2700	1.80	6500	2.88	10300	3.79	14100	4.30	18000	5.43
2800	1.86	6600	2.90	10400	3.87	14200	4.31		
2900	1.90	6700	2.92	10500	3.83	14300	4.37		
3000	1.90	6800	2.98	10600	3.88	14400	4.35		
3100	1.97	6900	2.98	10700	3.86	14600	4.53		
3200	1.97	7000	3.00	10800	3.87	14700	4.50		
3300	2.03	7100	3.02	10900	3.90	14800	4.62		
3400	2.04	7200	3.04	11000	3.84	14900	4.65		
3500	2.10	7300	3.06	11100	3.88	15000	4.79		

Cable loss
Cable coaxial, RG-214/U, N type-N type, 17 m
Teldor, HL 3612

Frequency, GHz	Cable loss, dB
0.1	0.05
0.5	0.07
1	0.10
3	0.22
5	0.29
10	0.39
30	0.68
50	0.90
100	1.27
150	1.58
200	1.80
250	2.12
300	2.36
350	2.60
400	2.82
450	2.99
500	3.23
550	3.40
600	3.56
650	3.71
700	3.90
750	4.04
800	4.23
850	4.39
900	4.55
950	4.65
1000	4.79

Correction factor
Line impedance stabilization network
Model LISN 16 - 1
Hermon Laboratories, HL 0447

Frequency, kHz	Correction factor, dB
10	4.9
15	2.86
20	1.83
25	1.25
30	0.91
35	0.69
40	0.53
50	0.35
60	0.25
70	0.18
80	0.14
90	0.11
100	0.09
125	0.06
150	0.04

The correction factor in dB is to be added to meter readings of an interference analyzer or a spectrum analyzer.

14 APPENDIX F Abbreviations and acronyms

A	ampere
AC	alternating current
A/m	ampere per meter
AM	amplitude modulation
AVRG	average (detector)
BB	broad band
cm	centimeter
dB	decibel
dBm	decibel referred to one milliwatt
dB(μ V)	decibel referred to one microvolt
dB(μ V/m)	decibel referred to one microvolt per meter
dB(μ A)	decibel referred to one microampere
dB Ω	decibel referred to one Ohm
DC	direct current
EIRP	equivalent isotropically radiated power
ERP	effective radiated power
EUT	equipment under test
F	frequency
GHz	gigahertz
GND	ground
H	height
HL	Hermon laboratories
Hz	hertz
k	kilo
kHz	kilohertz
LO	local oscillator
m	meter
MHz	megahertz
min	minute
mm	millimeter
ms	millisecond
μ s	microsecond
NA	not applicable
NB	narrow band
NT	not tested
OATS	open area test site
Ω	Ohm
QP	quasi-peak
PCB	printed circuit board
PM	pulse modulation
PS	power supply
RE	radiated emission
RF	radio frequency
rms	root mean square
Rx	receive
s	second
T	temperature
Tx	transmit
V	volt
VA	volt-ampere

END OF DOCUMENT