Straubing, 12 September 2006

## TEST-REPORT

No. 57403-060316-1 (Edition 2)

for

### WNCA01

**Nurse Call Transceiver** 

Applicant: Vigil Health Solutions Inc.

Test Specifications: FCC Code of Federal Regulations,

CFR 47, Part 15,

Sections 15.107, 15.109, 15.207 15.215

and 15.247

Industry Canada Radio Standards

**Specifications** 

RSS-Gen Issue 1, Sectons 7.2.2, 7.2.3 and

RSS-210 Issue 6, Section A8

(Category I Equipment)

#### Note:

The test data of this report is related only to the individual item which has been tested. This report shall not be reproduced except in full extent without the written approval of the testing laboratory.



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## **Description of the Equipment Under Test (EUT)**

General data of EUT			
Type designation <sup>1</sup> :	WNCA01		
Parts <sup>2</sup> :			
Serial number(s):			
Manufacturer:	Vigil Health Solutions Inc.		
Type of equipment:	Nurse Call Transceiver		
Version:	As delivered		
FCC ID:			
Additional parts/accessories:			

Technical data of EUT			
Application frequency range:	902 - 928 MHz		
Frequency range:	902 - 928 MHz		
Operating frequency:	915 MHz		
Type of modulation:	FM		
Pulse train:			
Pulse width:			
Number of RF-channels:			
Channel spacing:			
Designation of emissions <sup>3</sup> :	250kF1D		
Type of antenna:	Integrated		
Size/length of antenna:			
Connection of antenna:	detachable	⊠ not detachable	
Type of power supply:	Battery supply - lithium	type	
Specifications for power supply:	nominal voltage:	3.6 V	

 $<sup>^{\</sup>rm 1}$  Type designation of the system if EUT consists of more than one part.  $^{\rm 2}$  Type designations of the parts of the system, if applicable.  $^{\rm 3}$  Also known as "Class of Emission".



## 2 Administrative Data

**Application details** 

Applicant (full address): Vigil Health Solutions Inc.

2102-4464 Markham Street

V8Z 7X8 Victoria British Columbia

Canada

Contact person: Steven Smith

Contract identification:

Receipt of EUT: 30 June 2006

Date(s) of test: July - August 2006

Note(s):

Report details

Report number: 57403-060316-1

Edition: 2

Issue date: 12 September 2006



## 3 Identification of the Test Laboratory

**Details of the Test Laboratory** 

Company name: Senton GmbH EMI/EMC Test Center

Address: Aeussere Fruehlingstrasse 45

D-94315 Straubing

Germany

Laboratory accreditation: DAR-Registration No. DAT-P-171/94-02

FCC test site registration number 90926 Industry Canada test site registration: IC 3050

Contact person: Mr. Johann Roidt

Phone: (+49) (0)9421 5522-0 Fax: (+49) (0)9421 5522-99



## 4 Summary

### Summary of test results

The tested sample complies with the requirements set forth in the

Code of Federal Regulations CFR 47, Part 15, Sections 15.109, 15.215 and 15.247

of the Federal Communication Commission (FCC) and the

Radio Standards Specifications RSS-Gen Issue 1, Sections 7.2.3 and RSS-210 Issue 6, Section A8 (Category I Equipment)

of Industry Canada (IC).

Personnel involved in this report		
Laboratory Manager:		
	He Col	
	Mr. Johann Roidt	
Responsible for testing:		
	Skinell Martin	
	Mr. Martin Steindl	
Responsible for test report:	Mr. Martin Steindl	



## 5 Operation Mode and Configuration of EUT

## **Operation Mode**

Tests were performed with on lowest, middle and highest channel.

## **Configuration of EUT**

The EUT was configured as stand alone device. The SDK board was used for adjusting the channel and mode only.

List	List of ports and cables					
Port	Description	Classification <sup>4</sup>	Cable type	Cable length		
	Not applicable					

List of devices connected to EUT				
Item Description  Not applicable	Type Designation	Serial no. or ID	Manufacturer	

List	List of support devices				
Item	Description	Type Designation	Serial no. or ID	Manufacturer	
1	SDK board with remote connector	Test board		Aerocomm	

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<sup>&</sup>lt;sup>4</sup> Ports shall be classified as ac power, dc power or signal/control port



#### 6 Measurement Procedures

### 6.1 Bandwidth Measurements

Measurement Procedure:				
Rules and specifications:	CFR 47 Part 2, section 2.202(a) CFR 47 Part 15, section 15.215(c) and 15.247(a)(2) IC RSS-Gen Issue 1, sections 4.4.1 and 4.4.2 IC RSS-210 Issue 6, section A1.1.3 ANSI C63.4, annex H.6			
Guide:	ANSI C63.4			
Measurement setup:	☐ Conducted: See below ☐ Radiated: Radiated Emission in Fully or Semi Anechoic Room (6.2)			

If antenna is detachable bandwidth measurements shall be performed at the antenna connector (conducted measurement) when the transmitter is adjusted in accordance with the tune-up procedure, if applicable. The RF output terminals are connected to a spectrum analyzer. If required, a resistive matching network equal to the impedance specified or employed for the antenna is used as well as dc block and appropriate attenuators (50 Ohms). The electrical characteristics of the radio frequency load attached to the output terminals shall be stated, if applicable.

If radiated measurements are performed the same test setups and instruments are used as with radiated emission measurements for the appropriate frequency range.

The analyzer settings are specified by the test description of the appropriate test record(s).



## 6.2 Radiated Emission in Fully or Semi Anechoic Room

Measurement Procedure:		
Rules and specifications:	CFR 47 Part 15, sections 15.215(b) and 15.249 IC RSS-210 Issue 6, section A2.9	
Guide:	ANSI C63.4	

Radiated emission in fully or semi anechoic room is measured in the frequency range from 30 MHz to the maximum frequency as specified in CFR 47 Part 15 section 15.33.

Measurements are made in both the horizontal and vertical planes of polarization in a fully anechoic room using a spectrum analyzer with the detector function set to peak and resolution as well as video bandwidth set to 100 kHz (below 1 GHz) or 1 MHz (above 1 GHz).

Testing up to 1 GHz is performed with a linear polarized logarithmic periodic antenna combined with a 4:1 broadband dipole ("Trilog broadband antenna"). For testing above 1 GHz horn antennas are used.

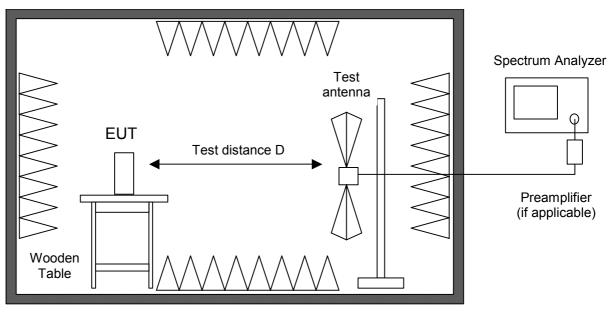
All tests below 18 GHz are performed at a test distance D of 3 meters. For higher frequencies the test distance is reduced (e.g. to 1 meter) due to the sensitivity of the measuring instrument(s) and the test results are calculated according to CFR 47 Part 15 section 15.31(f)(1) using an extrapolation factor of 20 dB/decade. If required, preamplifiers are used for the whole frequency range. Special care is taken to avoid overload, using appropriate attenuators and filters, if necessary.

If the radiated emission limits are expressed in terms of the average value of the emission there also is a peak limit corresponding to 20 dB above the maximum permitted average limit. Additionally, if pulsed operation is employed, the average field strength is determined by averaging over one complete pulse train, including blanking intervals, as specified in CFR 47 Part 15 section 15.35(c). If the pulse train exceeds 0.1 second that 0.1 second interval during which the value of the emission is at its maximum is selected for calculation. The pulse train correction is added to the peak value of the emission to get the average value.

Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission relative to the limit and therefore shall be used for final testing.

During testing the EUT is rotated all around to find the maximum levels of emissions. Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.

For final testing below 1 GHz an open field test-site is used and the plots recorded in the fully or semi anechoic room are indicated as prescans.



Fully or semi anechoic room



## Test instruments used:

Used	Туре	Model	Serial No. or ID	Manufacturer
$\boxtimes$	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
	Spectrum analyzer	R 3271	05050023	Advantest
	EMI test receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
$\boxtimes$	Preamplifier	CPA9231A	3393	Schaffner
	Preamplifier	R14601		Advantest
$\boxtimes$	Preamplifier 1-8 GHz	AFS3-00100800-32-LN	847743	Miteq
	Preamplifier 0.5-8 GHz	AMF-4D-005080-25-13P	860149	Miteq
$\boxtimes$	Preamplifier 8-18 GHz	ACO/180-3530	32641	CTT
	External Mixer	WM782A	845881/005	Tektronix
	Harmonic Mixer Accessories	FS-Z30	843389/007	Rohde & Schwarz
$\boxtimes$	Trilog broadband antenna	VULB 9163	9163-188	Schwarzbeck
$\boxtimes$	Horn antenna	3115	9508-4553	EMCO
	Horn antenna	3160-03	9112-1003	EMCO
$\boxtimes$	Horn antenna	3160-04	9112-1001	EMCO
$\boxtimes$	Horn antenna	3160-05	9112-1001	EMCO
$\boxtimes$	Horn antenna	3160-06	9112-1001	EMCO
$\boxtimes$	Horn antenna	3160-07	9112-1008	EMCO
	Horn antenna	3160-08	9112-1002	EMCO
	Horn antenna	3160-09	9403-1025	EMCO
	Horn antenna	3160-10	399185	EMCO
$\boxtimes$	Fully anechoic room	No. 2	1452	Albatross Projects
	Semi-anechoic room	No. 3	1453	Siemens



## 6.3 Radiated Emission at Open Field Test Site

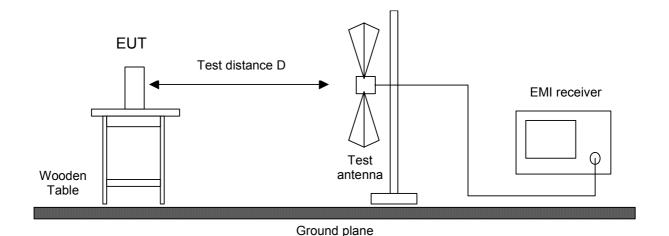
Measurement Procedure:		
Rules and specifications:	CFR 47 Part 15, sections 15.215(b) and 15.249 IC RSS-210 Issue 6, section A2.9	
Guide:	ANSI C63.4	

Radiated emission at open field test site is measured in the frequency range 30 MHz to 1 GHz using a biconical antenna up to 300 MHz and a logarithmic periodic antenna above. The measurement bandwidth of the test receiver is set to 120 kHz with guasi-peak detector selected.

If the radiated emission limits are expressed in terms of the average value of the emission there also is a peak limit corresponding to 20 dB above the maximum permitted average limit. Additionally, if pulsed operation is employed, the average field strength is determined by averaging over one complete pulse train, including blanking intervals, as specified in CFR 47 Part 15 section 15.35(c). If the pulse train exceeds 0.1 second that 0.1 second interval during which the value of the emission is at its maximum is selected for calculation. The pulse train correction is added to the peak value of the emission to get the average value.

Hand-held or body-worn devices are tested in the position producing the highest emission relative to the limit as verified by prescans in the fully anechoic room. EUT is rotated all around and receiving antenna is raised and lowered within 1 meter to 4 meters to find the maximum levels of emission. Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.

For measuring emissions of intentional radiators and receivers a test distance D of 3 meters is selected. Testing of unintentional radiators is performed at a distance of 10 meters. If limits specified for 3 meters shall be used for measurements performed at 10 meters distance the limits are calculated according to CFR 47 Part 15 section 15.31(d) and (f)(1) using an inverse linear-distance extrapolation factor of 20 dB/decade.



#### Test instruments used:

Used	Туре		Model	Serial No. or ID	Manufacturer
$\boxtimes$	EMI receiver		ESVP	881120/024	Rohde & Schwarz
$\boxtimes$	Biconical antenna	EG 1	HK 116	842204/001	Rohde & Schwarz
$\boxtimes$	Log. per. antenna	EG 1	HL 223	841516/023	Rohde & Schwarz
$\boxtimes$	Open field test site		EG 1	1450	Senton



# 7 Photographs Taken During Testing



# Test setup for radiated emission measurement (fully anechoic room)







# Test setup for radiated emission measurement (open field test site)







# Test setup for radiated emission measurement (open field test site) - continued -







## 8 Test Results for Transmitter

FCC CFR 47 Parts 2 and 15			
Section(s)	Test	Page	Result
2.1046(a)	Conducted output power		Not applicable
2.1093	RF Exposure Requirement	58	Test passed
2.202(a)	Occupied bandwidth	18	Recorded
15.215(c)	Bandwidth of the emission	29	Test passed
2.201, 2.202	Class of emission	33	Calculated
15.35(c)	Pulse train measurement for pulsed operation		Not applicable
15.207	Conducted AC powerline emission 150 kHz to 30 MHz		Not applicable
15.247(a)(1)	Channel Bandwidth	34	Test passed
15.247(a)(1)	Hopping channel separation	35	Test passed
15.247(a)(1)(i)	Number of hopping frequencies used	39	Test passed
15.247(a)(1)(i)	Dwell time of each frequency within a 10 second period of time	41	Test passed
15.247(b)(2)	Maximum Peak Output Power	48	Test passed
15.247(c)	Spurious emissions 30 MHz to 10 GHz - conducted		Not applicable
15.247(c)	Spurious emissions 30 MHz to 10 GHz - radiated	52	Test passed
15.247(g)	Compliance with applicable requirements for FHSS		Test passed
15.247(h)	Limitation on avoidance on hopping in occupied channel		Test passed



IC RSS-Gen Issue 1			
Section(s)	Test	Page	Result
4.6	Transmitter output power (conducted)		Not applicable
4.4.1	Occupied Bandwidth	18	Recorded
3.2(h), 8	Designation of emissions	33	Calculated
4.3	Pulsed operation		Not applicable
7.2.2	Transmitter AC power lines conducted emissions 150 kHz to 30 MHz		Not applicable
5.5	Exposure of Humans to RF Fields	59	Exempted from SAR and RF evaluation

IC RSS-210 Issue 6			
Section(s)	Test	Page	Result
A8.1(2)	Channel bandwidth	34	Test passed
A8.1(2)	Hopping channel separation	35	Test passed
A8.1(4)	Number of hopping frequencies used	39	Test passed
A8.1(4)	Time occupancy on any channel	41	Test passed
A8.4(2)	Maximum peak output power	48	Test passed
A8.5	Spurious emissions 30 MHz to 10 GHz - conducted		Not applicable
A8.5	Spurious emissions 30 MHz to 10 GHz - radiated	52	Test passed



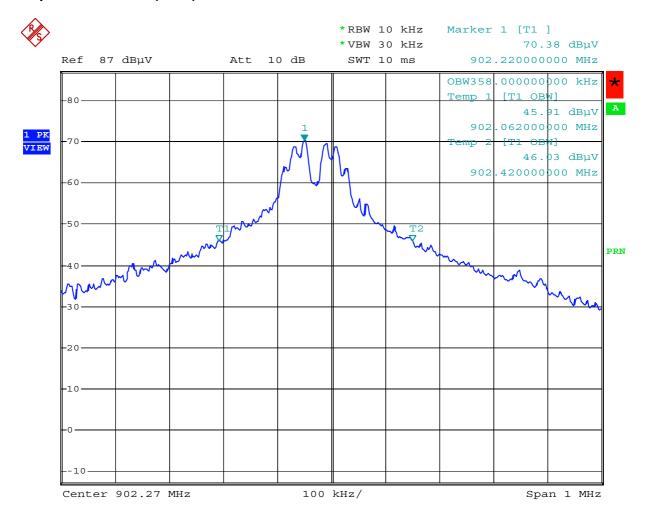
# 8.1 Occupied Bandwidth

Rules and specifications:	CFR 47 Part 2, section 2.202(a) ANSI C63.4, annex H.6	
Guide:	ANSI C63.4	
Description:	The occupied bandwidth according to CFR 47 Part 2, section 2.202(a), is measured as the 99% emission bandwidth, i.e. below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5% of the total mean power radiated by a given emission.	
	The occupied bandwidth according to ANSI C63.4, annex H.6; is measured as the frequency range defined by the points that are 26 dB down relative to the maximum level of the modulated carrier.	
	The resolution bandwidth of the spectrum analyzer shall be set to a value greater than 5.0% of the allowed bandwidth. If no bandwidth specifications are given, the following guidelines are used:	
	Fundamental frequency  Minimum resolution bandwidth  9 kHz to 30 MHz  1 kHz  30 MHz to 1000 MHz  1000 MHz  1000 MHz  1000 MHz  1000 kHz  The video bandwidth shall be at least three times greater than the resolution bandwidth.	
Measurement procedure:	Bandwidth Measurements (6.1)	

Comment:	
Date of test:	4 August 2006
Test site:	Fully anechoic room, cabin no. 2



## Occupied Bandwidth (99 %) on lowest channel:



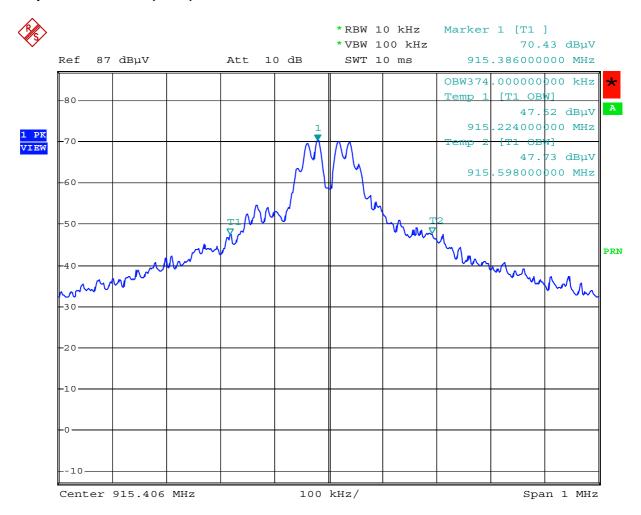
Comment: vigil 060316: Occupied Bandwidth

Date: 4.AUG.2006 12:38:05

Occupied Bandwidth (99 %): 358 kHz



## Occupied Bandwidth (99 %) on middle channel:



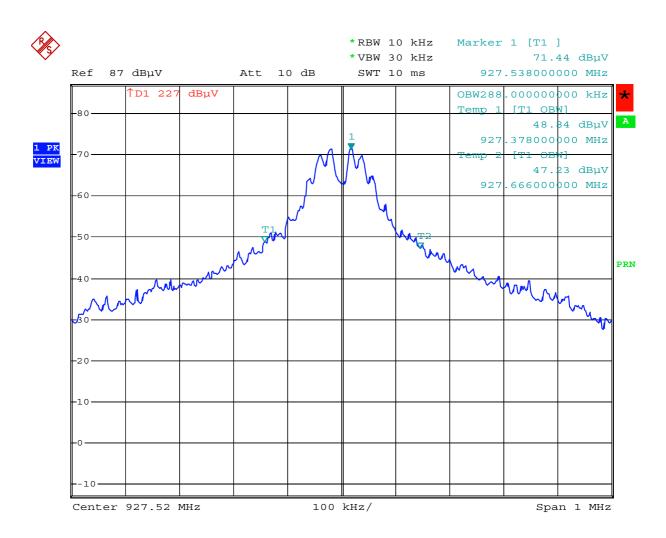
Comment: vigil 060316: Occupied Bandwidth

Date: 4.AUG.2006 13:19:57

Occupied Bandwidth (99 %): 374 kHz



## Occupied Bandwidth (99 %) on highest channel:

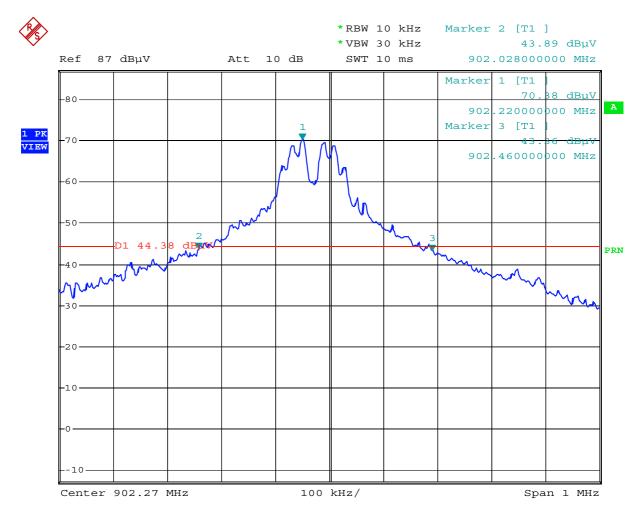


Comment: vigil 060316: Occupied Bandwidth Date: 4.AUG.2006 12:09:52

Occupied Bandwidth (99 %): 288 kHz



## Occupied Bandwidth (-26 dB) on lowest channel:



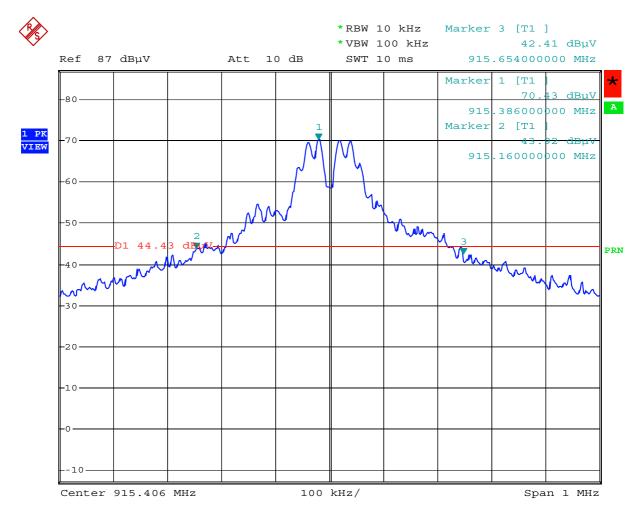
Comment: vigil 060316: Occupied Bandwidth

Date: 4.AUG.2006 12:37:47

Occupied Bandwidth (-26 dB): 432 kHz



## Occupied Bandwidth (-26 dB) on middle channel:



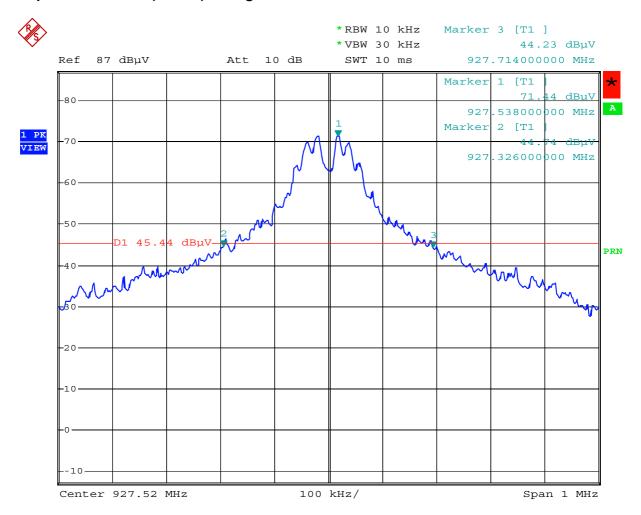
Comment: vigil 060316: Occupied Bandwidth

Date: 4.AUG.2006 13:20:51

Occupied Bandwidth (-26 dB): 494 kHz



## Occupied Bandwidth (-26 dB) on highest channel:



Comment: vigil 060316: Occupied Bandwidth

Date: 4.AUG.2006 12:11:21

Occupied Bandwidth (-26 dB): 388 kHz



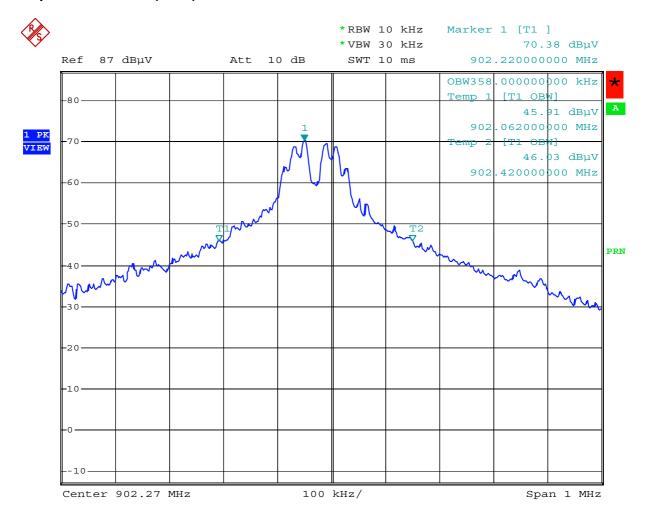
# **Occupied Bandwidth (continued)**

Rules and specifications:	IC RSS-Gen Issue 1, section 4.4.1
Guide:	IC RSS-Gen Issue 1, section 4.4.1
Description:	If not specified in the applicable RSS the occupied bandwidth is measuredas the 99% emission bandwidth.  The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth.  The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is also recorded. The span between the two recorded frequencies is the occupied bandwidth.
Measurement procedure:	Bandwidth Measurements (6.1)

Comment:	
Date of test:	4 August 2006
Test site:	Fully anechoic room, cabin no. 2



## Occupied Bandwidth (99 %) on lowest channel:



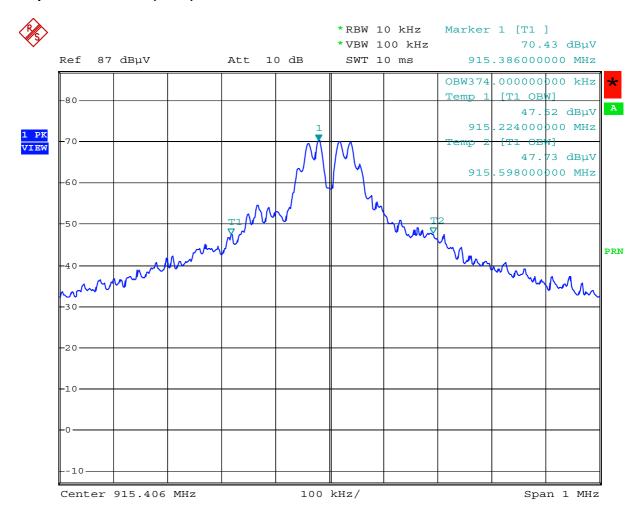
Comment: vigil 060316: Occupied Bandwidth

Date: 4.AUG.2006 12:38:05

Occupied Bandwidth (99 %): 358 kHz



## Occupied Bandwidth (99 %) on middle channel:



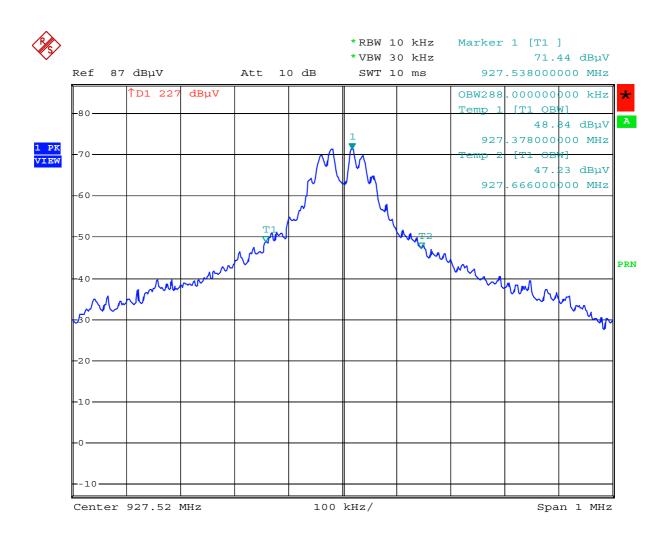
Comment: vigil 060316: Occupied Bandwidth

Date: 4.AUG.2006 13:19:57

Occupied Bandwidth (99 %): 374 kHz



## Occupied Bandwidth (99 %) on highest channel:



Comment: vigil 060316: Occupied Bandwidth

Date: 4.AUG.2006 12:09:52

Occupied Bandwidth (99 %): 288 kHz



## 8.2 Bandwidth of the Emission

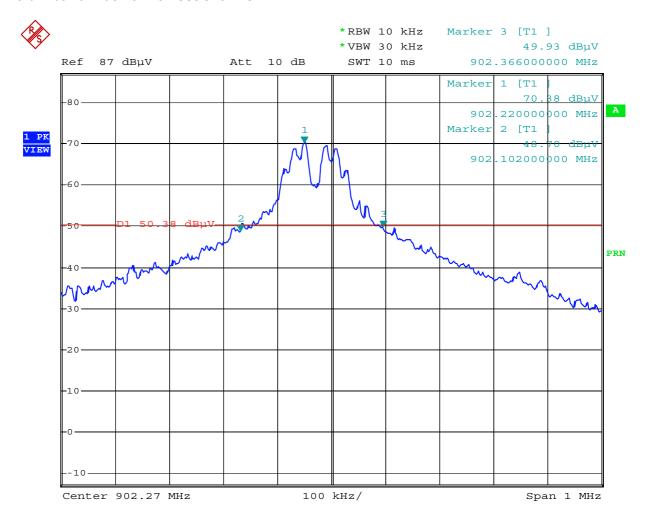
Rules and specifications:	CFR 47 Part 15, section 15.215(c)	
Guide:	ANSI C63.4	
Description:	The 20 dB bandwidth of the emission is measured as the frequency range defined by the points that are 20 dB down relative to the maximum level of the modulated carrier.  For intentional radiators operating under the alternative provisions to the general emission limits the requirement to contain the 20 dB bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.  The resolution bandwidth of the spectrum analyzer shall be set to a value greater than 5.0% of the allowed bandwidth. If no bandwidth specifications are given, the following guidelines are used:	
	Fundamental frequency	Minimum resolution bandwidth
	9 kHz to 30 MHz	1 kHz
	30 MHz to 1000 MHz 10 kHz 1000 MHz to 40 GHz 1000 kHz	
	The video bandwidth shall be at least three times greater than the resolution bandwidth.	
Measurement procedure:	Bandwidth Measurements (6.1)	

Comment:	
Date of test:	8 August 2006
Test site:	Fully anechoic room, cabin no. 2

Test Result:	Test passed



### -20 dB bandwidth on lowest channel:



Comment: vigil 060316: Emission Bandwidth Date: 4.AUG.2006 12:36:40

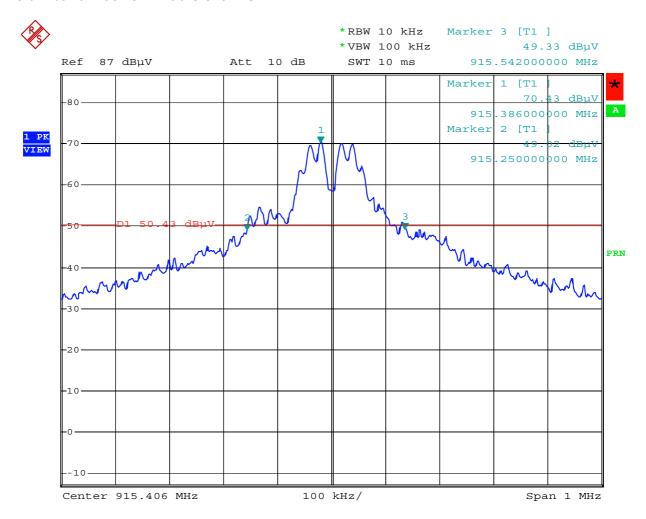
Permitted frequency band:	<b>902 - 928</b> MHz	
20 dB bandwidth:	264 kHz	
Carrier frequency stability: Maximum frequency tolerances:	specified	⊠ not specified
Bandwidth of the emission:		within permitted frequency band <sup>5</sup> :  ☑ yes ☐ no

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<sup>&</sup>lt;sup>5</sup> If a frequency stability is not specified, it is recommended that the fundamental emission is kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.



#### -20 dB bandwidth on middle channel:



Comment: vigil 060316: Emission Bandwidth Date: 4.AUG.2006 13:21:32

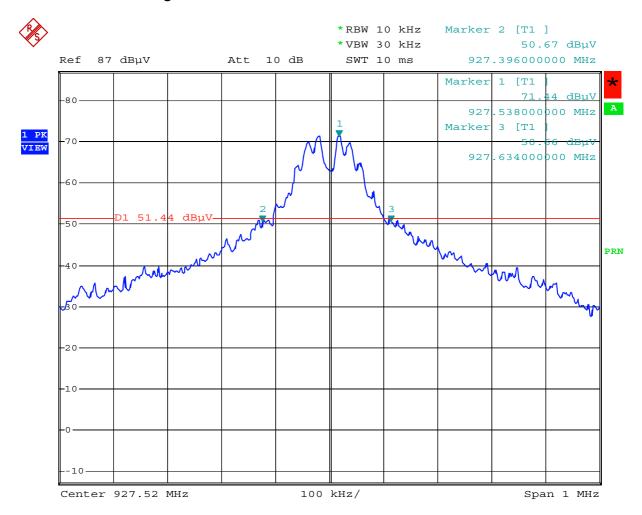
Permitted frequency band:	<b>902 - 928</b> MHz	
20 dB bandwidth:	292 kHz	
Carrier frequency stability: Maximum frequency tolerances:	specified	⊠ not specified
Bandwidth of the emission:		within permitted frequency band <sup>6</sup> :  ☑ yes ☐ no

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<sup>&</sup>lt;sup>6</sup> If a frequency stability is not specified, it is recommended that the fundamental emission is kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.



## -20 dB bandwidth on highest channel:



Comment: vigil 060316: Emission Bandwidth Date: 4.AUG.2006 12:12:34

Permitted frequency band:	<b>902 - 928</b> MHz	
20 dB bandwidth:	238 kHz	
Carrier frequency stability: Maximum frequency tolerances:	specified	⊠ not specified
Bandwidth of the emission:		within permitted frequency band <sup>7</sup> :  ☑ yes ☐ no

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<sup>&</sup>lt;sup>7</sup> If a frequency stability is not specified, it is recommended that the fundamental emission is kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.



# 8.3 Designation of Emissions

Rules and specifications:	CFR 47 Part 2, sections 2.201 and 2.202 IC RSS-Gen Issue 1, sections 3.2(h) and 8	
Guide:	ANSI C63.4 / TRC-43	

Type of modulation:	Frequency Modulation
---------------------	----------------------

B <sub>n</sub> = Necessary Bandwidth	$B_n = 2M + 2DK$	
M = Modulation frequency	M = 105 kHz	
D = Peak deviation	D = 20 kHz	
K = Overall numerical factor	K = 1	
Calculation:	B <sub>n</sub> = 2 · (105 kHz) + 2 · (20 kHz)· 1 = 250 kHz	

Designation of Emissions:
---------------------------



## 8.4 Channel Bandwidth

Rules and specifications:	CFR 47 Part 15, section 15.247(a)(1)(i) RSS-210, Issue 6, section A8(3)	
Guide:	ANSI C63.4	
Limit:	The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.	
Measurement procedure:	Bandwidth Measurements (6.1)	

Comment:		
Date of test:	8 August 2006	
Test site:	Fully anechoic room, cabin no. 2	

Channel Frequency	Channel Bandwidth		Result
	Measured	Limit	
Low (902.22 MHz)	264 kHz	≤ 500 kHz	Passed
Middle (915.39 MHz)	292 kHz	≤ 500 kHz	Passed
High (927.40 MHz)	238 kHz	≤ 500 kHz	Passed

Test Result: Test passed	
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# 8.5 Hopping Channel Separation

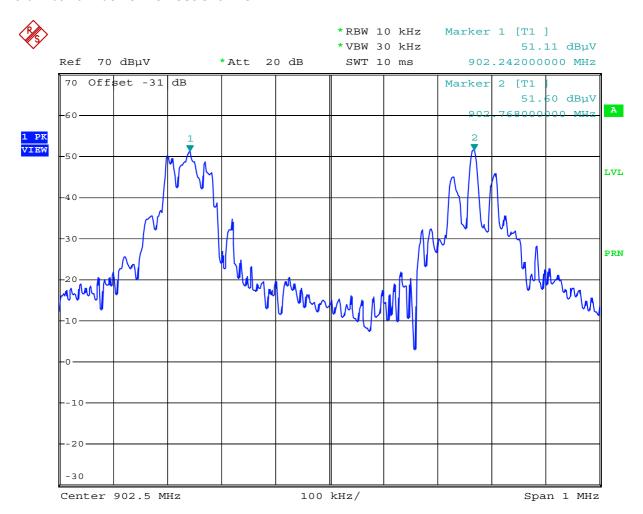
Rules and specifications:	CFR 47 Part 15, section 15.247(a)(1)(i) RSS-210, Issue 6, section A8(3)	
Guide:	ANSI C63.4	
Limit:	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth, whichever is greater	
Measurement procedure:	Bandwidth Measurements (6.1)	

Comment:		
Date of test:	8 August 2006	
Test site:	Fully anechoic room, cabin no. 2	

Channel Frequency	Hopping Channel Separation		Result
	Measured	Required	
Low (902.22 MHz)	526 kHz	≤ 264 kHz	Passed
Middle (915.39 MHz)	530 kHz	≤ 292 kHz	Passed
High (927.40 MHz)	278 kHz	≤ 238 kHz	Passed



## -20 dB bandwidth on lowest channel:

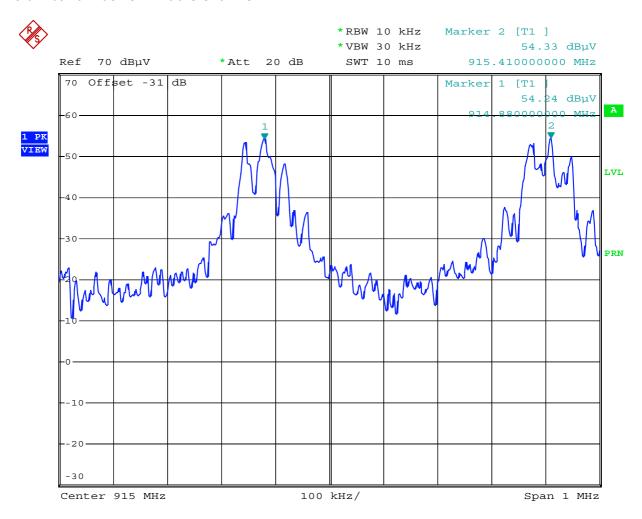


Comment: vigil 060316: Hopping Channel Separation

Date: 4.AUG.2006 11:26:17



#### -20 dB bandwidth on middle channel:

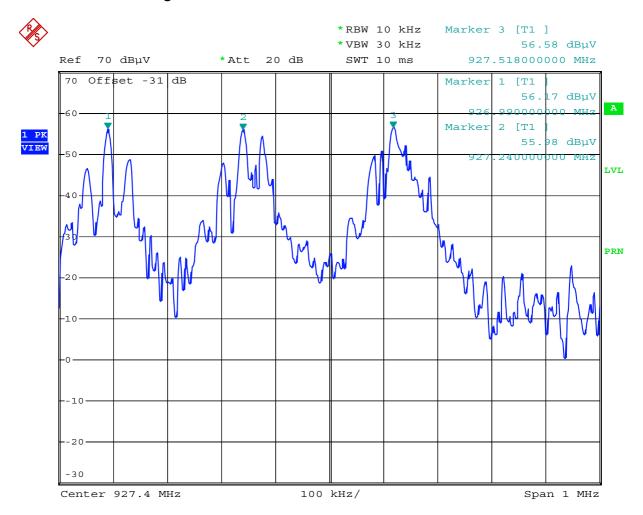


Comment: vigil 060316: Hopping Channel Separation

Date: 4.AUG.2006 11:30:20



#### -20 dB bandwidth on highest channel:



Comment: vigil 060316: Hopping Channel Separation

Date: 4.AUG.2006 11:27:57



## 8.6 Number of Hopping Frequencies

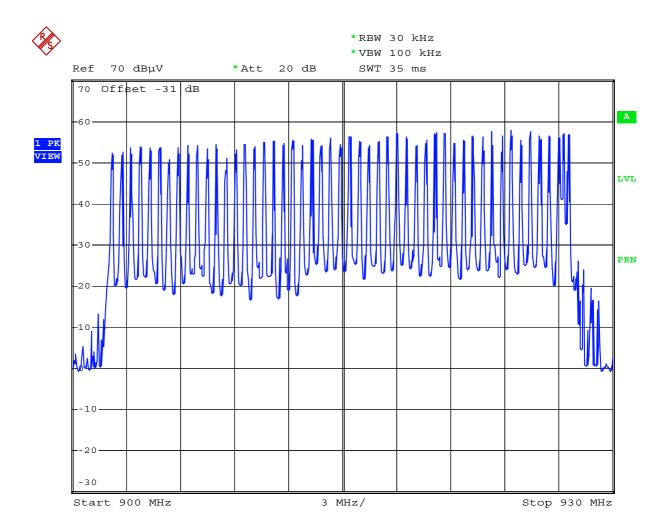
Rules and specifications:	CFR 47 Part 15, section 15.247(a)(1)(i) RSS-210, Issue 6, section A8(3)
Guide:	ANSI C63.4
Limit:	If the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies; if the 20 dB bandwith of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies.
Measurement procedure:	Bandwidth Measurements (6.1)

Comment:	
Date of test:	8 August 2006
Test site:	Fully anechoic room, cabin no. 2

Number of Hopping Frequencies		Result
Measured	Required	
50	≥50	Passed

Test Result: Test passed	
--------------------------	--





Comment: vigil 060316: Number of Hopping Channels

Date: 4.AUG.2006 11:23:18



## 8.7 Time Occupancy on any Channel

Rules and specifications:	CFR 47 Part 15, section 15.247(a)(1)(i) RSS-210, Issue 6, section A8(3)
Guide:	ANSI C63.4
Limit:	If the 20 dB bandwidth of the hopping channel is less than 250 kHz, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwith of the hopping channel is 250 kHz or greater, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 seconds period.
Measurement procedure:	Bandwidth Measurements (6.1)

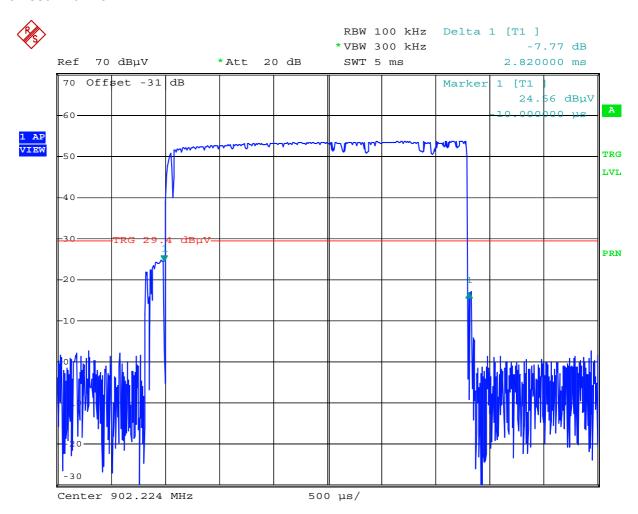
Comment:	
Date of test:	8 August 2006
Test site:	Fully anechoic room, cabin no. 2

Channel Frequency	Time Occupancy		Result
	Measured	Required	
Low (902.22 MHz)	2.82 ms · 11 = 31.02 ms in 10 s period	< 400 ms in 10 s period	Passed
Middle (915.39 MHz)	2.82 ms · 11 = 31.02 ms in 10 s period	< 400 ms in 10 s period	Passed
High (927.40 MHz)	2.82 ms · 11 = 31.02 ms in 10 s period	< 400 ms in 20 s period	Passed

Test Result:	Test passed	
--------------	-------------	--



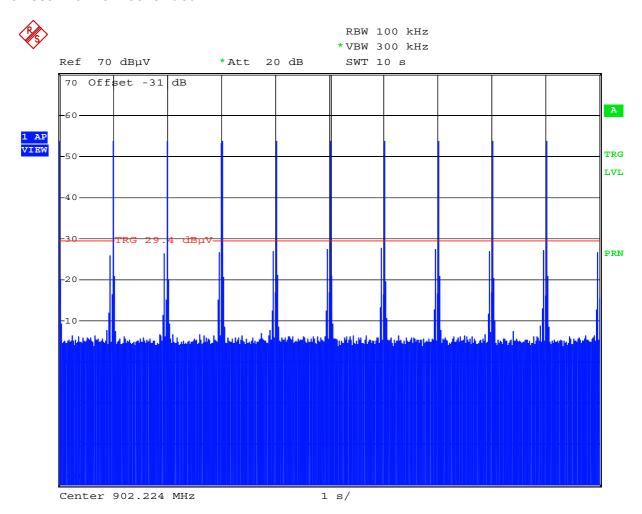
#### **Lowest Channel**



Comment: vigil 060316: Time Occupancy Date: 4.AUG.2006 11:32:38



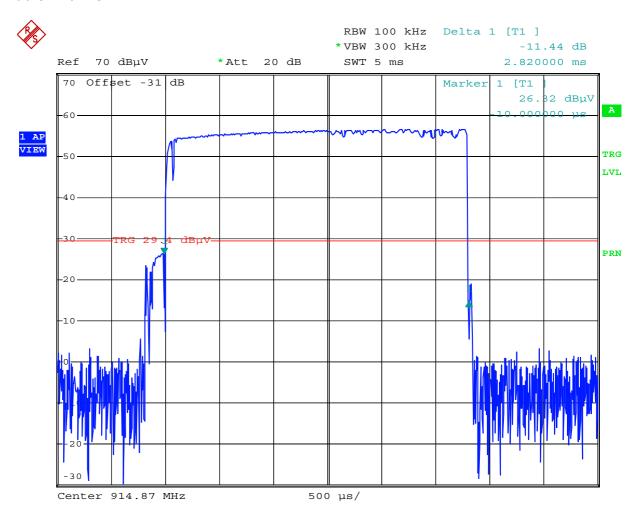
#### **Lowest Channel - continued**



Comment: vigil 060316: Time Occupancy Date: 4.AUG.2006 11:33:22



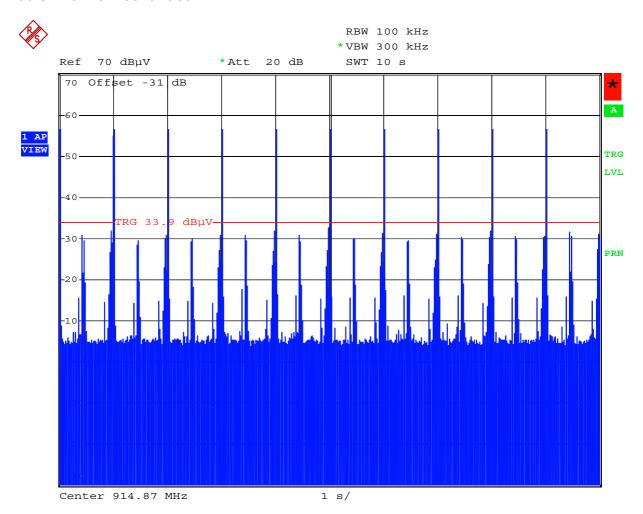
#### **Middle Channel**



Comment: vigil 060316: Time Occupancy Date: 4.AUG.2006 11:34:36



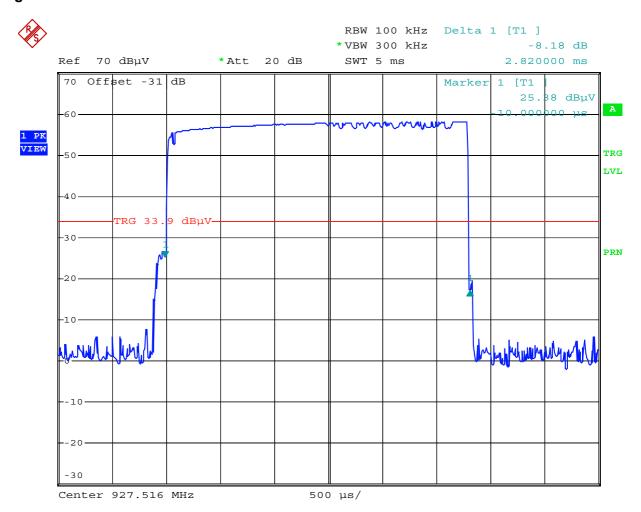
#### Middle Channel - continued



Comment: vigil 060316: Time Occupancy Date: 4.AUG.2006 11:35:31



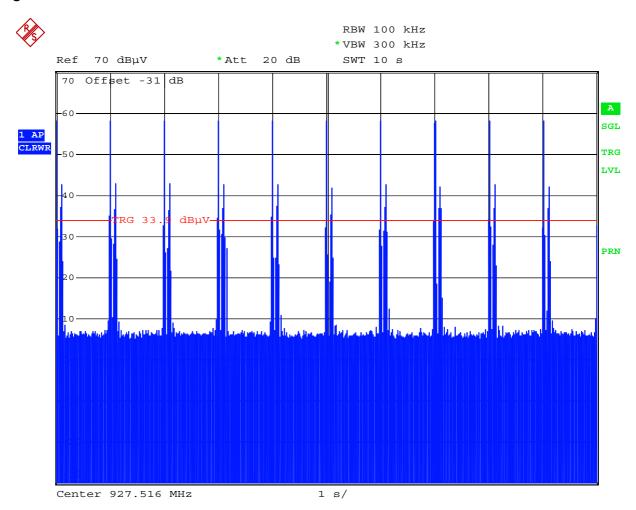
### **Highest Channel**



Comment: vigil 060316: Time Occupancy Date: 4.AUG.2006 11:37:12



### **Highest Channel - continued**



Comment: vigil 060316: Time Occupancy Date: 4.AUG.2006 11:37:50



### 8.8 Carrier Power

Rules and specifications:	CFR 47 Part 15, section 15.247(b)(2) IC RSS-210, issue 6, section A8.4
Guide:	ANSI C63.4
Limit:	For frequency hopping systems operation in the 902 - 928 MHz band: 1 watt for systems employing at least 50 hopping channels; and 0.25 watt for systems employing less than 50 hopping channels, but at leas 25 hopping channels.
Measurement procedures:	Radiated Emission in Fully or Semi Anechoic Room (6.2) Radiated Emission at Open Field Test Site (6.3)

Comment:	Since the device does not feature an antenna connector the carrier power was calculated from the radiated carrier emission
Date of test:	8 August 2006
Test site:	Open Field Test Side
Test distance:	3 meters

Test Result:	Test passed
--------------	-------------



Comment:	
Mode:	Transmitting continuously on lowest channel
Date of test:	8 August 2006

 $P = (FS D)^2 / (30 G_i)$ 

Where: P = Conducted Output Power

FS = Field Strength

D = Distance to the center of radiation of the antenna

G<sub>i</sub> = Gain of Antenna

Fieldstrength (measured)	05.1 dBμV/m = 179.89 mV/m					
Test Distance	3 m					
Gain (declared by applicant):	0.99 dBi = 0.796					
	12.20 mW					
Limit:	1 W					

Test Result:	Test passed
--------------	-------------



Comment:	
Mode:	Transmitting continuously on middle channel
Date of test:	8 August 2006

 $P = (FS D)^2 / (30 G_i)$ 

Where: P = Conducted Output Power

FS = Field Strength

D = Distance to the center of radiation of the antenna

G<sub>i</sub> = Gain of Antenna

Fieldstrength (measured)	104.8 dBμV/m = 173.78 mV/m					
Test Distance	3 m					
Gain (declared by applicant):	0.99 dBi = 0.796					
	11.38 mW					
Limit:	1 W					

Test Result:
--------------



Comment:	
Mode:	Transmitting continuously on highest channel
Date of test:	8 August 2006

 $P = (FS D)^2 / (30 G_i)$ 

Where: P = Conducted Output Power

FS = Field Strength

D = Distance to the center of radiation of the antenna

G<sub>i</sub> = Gain of Antenna

Fieldstrength (measured)	02.8 dBμV/m = 138.04 mV/m				
Test Distance	3 m				
Gain (declared by applicant):	-0.99 dBi = 0.796				
	7.18 mW				
Limit:	1 W				

Test Result:
--------------



## 8.9 Spurious emissions 30 MHz to 10 GHz - radiated

Rules and specifications:	CFR 47 Part 15, sections 15.247(d) IC RSS-210 Issue 6, section A8.5			
Guide:	ANSI C63.4			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is prduced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. In addition, radiated emissions which fall in the restricted bands, as specified in section 15.205(a), must also comply with the radiated emission limits. specified in section 15.209(a).			
Measurement procedures:	Radiated Emission in Fully or Semi Anechoic Room (6.2) Radiated Emission at Open Field Test Site (6.3)			

Test Result:	Test passed	
--------------	-------------	--



 Comment:

 Date of test:
 1 August 2006

 Mode:
 Transmitting continuously on lowest channel

 Test site:
 Frequencies ≤ 1 GHz: Open field test site

 Frequencies > 1 GHz: Fully anechoic room, cabin no. 2

 Test distance:
 3 meters for frequencies ≤ 8.2 GHz

 1 meters for frequencies > 8.2 GHz

Test Result:	Test passed
--------------	-------------

Frequency	Antenna	Detector	Receiver	Correction	Pulse Train	Final	Limit	Margin
	Polarization		Reading	Factor	Correction	Value		
(MHz)			(dBµV)	(dB/m)	(dB)	$(dB\mu V/m)$	(dBµV/m)	(dB)
902.270	vertical	Quasi-Peak	78.7	26.4		105.1		
1804.000	vertical	Peak	7.8	31.3		39.1	85.1	46.1
2710.000	vertical	Peak	11.5	34.6		46.2	54.0	7.8
3610.000	vertical	Peak	12.8	38.1		51.0	54.0	3.1
4512.400	vertical	Peak	15.6	34.0		49.6	54.0	4.4
5413.000	vertical	Peak	11.7	34.9		46.5	54.0	7.5
7217.700	horizontal	Peak	10.1	39.0		49.1	85.1	36.0
7603.100	vertical	Peak	7.8	39.3		47.2	54.0	6.9
9024.400	horizontal	Peak	9.8	43.7		53.5	63.5	10.0

Note: For test distances other 3 meters the limit was extrapolated using a extrapolation factor of 20 dB/decade.

#### Sample calculation of final values:

Final Value ( $dB\mu V/m$ ) = Reading Value ( $dB\mu V$ ) + Correction Factor (dB/m) + Pulse Train Correction (dB)



 Comment:

 Date of test:
 1 August 2006

 Mode:
 Transmitting continuously on middle channel

 Test site:
 Frequencies ≤ 1 GHz: Open field test site

 Frequencies > 1 GHz: Fully anechoic room, cabin no. 2

 Test distance:
 3 meters for frequencies ≤ 8.2 GHz

 1 meters for frequencies > 8.2 GHz

Test Result:	Test passed	
--------------	-------------	--

Frequency	Antenna	Detector	Receiver	Correction	Pulse Train	Final	Limit	Margin
	Polarization		Reading	Factor	Correction	Value		
(MHz)			(dBµV)	(dB/m)	(dB)	$(dB\mu V/m)$	(dBµV/m)	(dB)
915.430	vertical	Quasi-Peak	78.5	26.3		104.8		
1828.000	vertical	Peak	7.7	31.4		39.1	84.8	45.7
2746.000	vertical	Peak	10.3	34.8		45.1	54.0	8.9
3664.000	horizontal	Peak	11.1	38.3		49.4	54.0	4.6
4577.000	vertical	Peak	14.4	34.1		48.4	54.0	5.6
5492.800	horizontal	Peak	9.9	34.9		44.8	84.8	40.0
5496.600	vertical	Peak	10.8	34.9		45.7	84.8	39.1
6409.300	horizontal	Peak	10.6	38.3		48.9	84.8	35.9
7325.800	vertical	Peak	11.3	39.1		50.4	54.0	3.6

Note: For test distances other 3 meters the limit was extrapolated using a extrapolation factor of 20 dB/decade.

#### Sample calculation of final values:

Final Value ( $dB\mu V/m$ ) = Reading Value ( $dB\mu V$ ) + Correction Factor (dB/m) + Pulse Train Correction (dB)



 Comment:

 Date of test:
 1 August 2006

 Mode:
 Transmitting continuously on highest channel

 Test site:
 Frequencies ≤ 1 GHz: Open field test site

 Frequencies > 1 GHz: Fully anechoic room, cabin no. 2

 Test distance:
 3 meters for frequencies ≤ 8.2 GHz

 1 meters for frequencies > 8.2 GHz

Test Result: Test passed
--------------------------

Frequency	Antenna	Detector	Receiver	Correction	Pulse Train	Final	Limit	Margin
	Polarization		Reading	Factor	Correction	Value		
(MHz)			(dBµV)	(dB/m)	(dB)	$(dB\mu V/m)$	(dBµV/m)	(dB)
927.520	vertical	Quasi-Peak	76.6	26.2		102.8		
1918.000	vertical	Peak	6.6	31.9		38.5	82.8	44.3
2782.000	horizontal	Peak	10.8	35.0		45.8	54.0	8.2
3712.000	horizontal	Peak	10.3	38.4		48.7	54.0	5.3
4637.800	horizontal	Peak	19.9	34.1		54.0	54.0	0.0
5568.800	vertical	Peak	9.9	35.0		44.9	82.8	37.9
6493.900	horizontal	Peak	10.4	38.3		48.8	82.8	34.1
7419.800	vertical	Peak	14.1	39.2		53.3	54.0	0.7
8347.600	horizontal	Peak	13.5	43.3		56.7	63.5	6.8

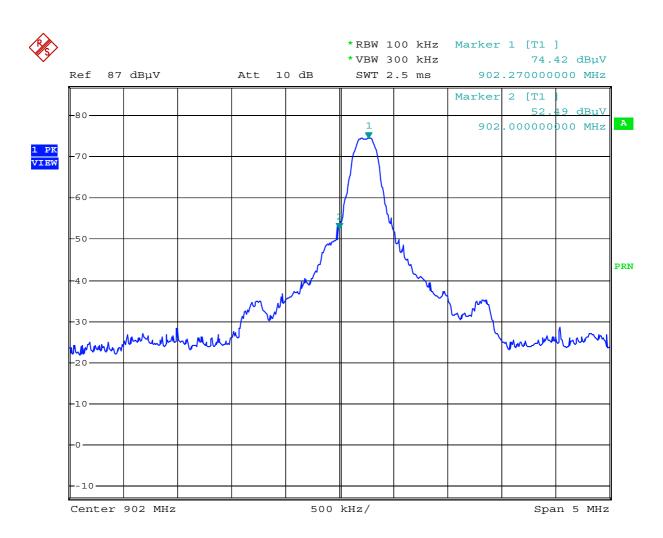
Note: For test distances other 3 meters the limit was extrapolated using a extrapolation factor of 20 dB/decade.

#### Sample calculation of final values:

Final Value ( $dB\mu V/m$ ) = Reading Value ( $dB\mu V$ ) + Correction Factor (dB/m) + Pulse Train Correction (dB)



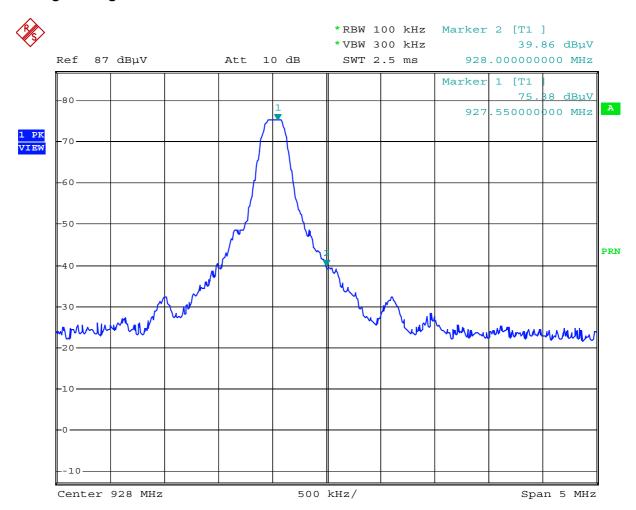
#### Band edge on lowest channel:



Comment: vigil 060316: Band Edge Date: 4.AUG.2006 12:34:34



## Bandedge on highest channel



Comment: vigil 060316: Band Edge Date: 4.AUG.2006 12:31:02



### 8.10 RF-Exposure

Rules and specifications:	CFR 47 Part 1, section 1.1310 CFR 47 Part 15, section 15.247(b)(4)						
Guide:	OET Bulletin 65, E	OET Bulletin 65, Edition 97-01					
Limit:	Limits for General	Population / Unconti	rolled Exposure:				
	Frequency range Electric field Magnetic field Power density [MHz] strength [V/m] strength [A/m] [mW/cm²]						
	0.3 – 1.34	614	1.63	*(100)			
	1.34 – 30 824 / f 2.19 / f *(180 / f						
	30 – 300 27.5 0.073 0.2						
	300 – 1500 f / 1500						
	1500 - 100000 1.0						
	Averaging time is 30 minutes for all frequency ranges.						
	f: Frequency in MH *: Plane-wave equi	lz valent power densit	y				

MPE Prediction of MPE according to equation from page 19 of OET Bulletin 65, Edition 97-01:

$$S = (EIRP) / (4 \pi R^2)$$

Where: S = Power Density

EIRP = Equivalent Isotropic Radiated Power

R = Distance to the center of radiation of the antenna

Equivalent Isotropic Radiated Power (maximum measured):	4.6 dBm = 2.88 mW
Prediction distance:	20 cm
Power density at 20 cm:	573 nW/cm²
Limit:	601 mW/cm <sup>2</sup>

Test Result:	Test passed
	'



### 8.11 Exposure of Humans to RF Fields

Rules and specifications:	IC RSS-Gen Issue 1, section 5.5
Guide:	IC RSS-102 Issue 2, section 2.5

Exposure of Humans to RF Fields	Applicable	Declared by applicant	Measured	Exemption
The antenna is				
detachable				
The conducted output power (CP in watts) is measured at the antenna connector:				
$CP = \dots$ W				
The effective isotropic radiated power (EIRP in watts) is calculated using				
the numerical antenna gain: $G = \dots$ $\mathbf{W}$				
$\Box$ the field strength <sup>8</sup> in V/m: $FS = \dots V/m$				
$EIRP = \frac{(FS \cdot D)^2}{30} \Rightarrow EIRP = \dots $				
with:				
Distance between the antennas in m: $D = \dots $ m			Ш	
⊠ not detachable		ı		
A field strength measurement is used to determine the effective isotropic radiated power (EIRP in watts) given by <sup>8</sup> :				
$EIRP = \frac{(FS \cdot D)^2}{30} \Rightarrow EIRP = 9.7 \text{ mW}$				
with:				
Field strength in V/m: $FS = 105.1 \text{ dB}\mu\text{V/m}$ $= 180 \text{ mV/m}$				
Distance between the two antennas in m: $D = 3 \text{ m}$				
Selection of output power				
The output power TP is the higher of the conducted or effective isotropic radiated power (e.i.r.p.):				
TP = 9.7 mW				

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<sup>&</sup>lt;sup>8</sup> The conversion formula is valid only for properly matched antennas. In other cases the transmitter output power may have to be measured by a terminated measurement when applying the exemption clauses. If an open area test site is used for field strength measurement, the effect due to the metal ground reflecting plane should be subtracted from the maximum field strength value in order to reference it to free space, before calculating TP.



Exposure of Humans to RF Fields (continued)	Applicable	Declared by applicant	Measured	Exemption
Separation distance between the user and the transmitting device is				
☐ greater than 20 cm		$\boxtimes$		
Transmitting device is				
☐ in the vicinity of the human head ☐ body-worn				
SAR evaluation				
SAR evaluation is required if the separation distance between the user and the device is less than or equal to 20 cm.				
The device operates from 3 kHz up to 1 GHz inclusively and its source-based time-averaged output power is less than, or equal to 200 mW for General Public Use and 1000 mW for Controlled Use.				
☐ The device operates above 1 GHz up to 2.2 GHz inclusively and its source-based time-averaged output power is less than, or equal to 100 mW for General Public Use and 500 mW for Controlled Use.				
☐ The device operates above 2.2 GHz up to 3 GHz inclusively and its source-based time-averaged output power is less than, or equal to 20 mW for General Public Use and 100 mW for Controlled Use.				
☐ The device operates above 3 GHz up to 6 GHz inclusively and its source-based time-averaged output power) is less than, or equal to 10 mW for General Public Use and 50 mW for Controlled Use.				
☐ SAR evaluation is documented in test report no				
RF exposure evaluation				
RF exposure evaluation is required if the separation distance between the user and the device is greater than 20 cm.				
☐ The device operates below 1.5 GHz and its e.i.r.p. is equal to or less than 2.5 W.				
☐ The device operates at or above 1.5 GHz and the e.i.r.p. of the device is equal to or less than 5 W.				
RF exposure evaluation is documented in test report no				



### 9 Test Results for Receiver

FCC CFR 47 Part 15						
Section(s)	Test	Page	Result			
15.107	Conducted AC powerline emission 150 kHz to 30 MHz		Not applicable			
15.109	Radiated emission 30 MHz to 5 GHz	62	Test passed			
15.111(a)	Antenna power conduction emission of receivers 9 kHz to 5 GHz		Not applicable			

IC RSS-Gen Issue 1							
Section(s)	Test	Page	Result				
7.2.2	Transmitter AC power lines conducted emissions 150 kHz to 30 MHz		Not applicable				
6(a), 7.2.3.2	Receiver spurious emissions (radiated) 30 MHz to 5 GHz	62	Test passed				
6(b), 7.2.3.1	Receiver spurious emissions (antenna conducted) 9 kHz to 5 GHz		Not applicable				



### 9.1 Radiated Emission Measurement 30 MHz to 5 GHz

Rules and specifications:	CFR 47 Part 15, section 15.109 (Class B) IC RSS-Gen Issue 1, sections 6(a) and 7.2.3.2		
Guide:	ANSI C63.4		
Limit:	Frequency of Emission (MHz)	Field Strength (μV/m)	Field Strength (dBµV/m)
	30 - 88	100	40.0
	88 - 216	150	43.5
	216 - 960	200	46.0
	Above 960	500	54.0
Measurement procedures:	Radiated Emission in Fully or Semi Anechoic Room (6.2) Radiated Emission at Open Field Test Site (6.3)		

Comment:	
Date of test:	25 July 2006
Test site:	Frequencies ≤ 1 GHz: Open field test site Frequencies > 1 GHz: Fully anechoic room, cabin no. 2
Test distance:	3 meters

Test Result:	Test passed
--------------	-------------

Frequency	Antenna	Detector	Receiver	Correction	Final	Limit	Margin
	Polarization		Reading	Factor	Value		
(MHz)			(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
516.090	vertical	Quasi-Peak	16.7	20.8	37.5	46.0	8.5
545.590	vertical	Quasi-Peak	17.1	20.9	38.0	46.0	8.0
604.570	vertical	Quasi-Peak	18.0	22.1	40.1	46.0	5.9
915.280	vertical	Quasi-Peak	17.4	26.3	43.7	46.0	2.3

### Sample calculation of field final values:

Final Value ( $dB\mu V/m$ ) = Reading Value ( $dB\mu V$ ) + Correction Factor (dB/m)



## 10 Referenced Regulations

All tests were performed with reference to the following regulations and standards:

CFR 47 Part 2	Code of Federal Regulations Part 2 (Frequency allocation and radio treaty matters; General rules and regulations) of the Federal Communication Commission (FCC)	October 10, 2004
CFR 47 Part 15	Code of Federal Regulations Part 15 (Radio Frequency Devices) of the Federal Communication Commission (FCC)	September 19, 2005
ANSI C63.4	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	December 11, 2003 (published on January 30, 2004)
RSS-Gen	Radio Standards Specification RSS-Gen Issue 1 containing General Requirements and Information for the Certification of Radiocommunication Equimpment, published by Industry Canada	September 2005
RSS-210	Radio Standards Specification RSS-210 Issue 6 for Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment, published by Industry Canada	September 2005
RSS-310	Radio Standards Specification RSS-310 Issue 1 for Low Power Licence-Ecempt Radiocommunicaton Devices (All Frequency Bands): Category II Equipment, published by Industry Canada	September 2005
RSS-102	Radio Standards Specification RSS-102 Issue 2: Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)	November 2005
ICES-003	Interference-Causing Equipment Standard ICES-003 Issue 4 for Digital Apparatus, published by Industry Canada	February 7, 2004
CISPR 22	Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, "Information Technology Equipment – Radio Disturbance Characteristics – Limits and Methods of Measurement"	1997
CAN/CSA- CEI/IEC CISPR 22	Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment	2002
TRC-43	Notes Regarding Designation of Emission (Including Necessary Bandwidth and Classification), Class of Station and Nature of Service, published by Industry Canada	October 9, 1982



## 11 Charts taken during Testing

# Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model:	
WNCA01	
Serial no.:	
Applicant:	
Vigil Health Solutions Inc	
Test site:	
Fully anechoic room, cabir	n no. 2
Tested on:	
Test distance 3 metres Horizontal Polarization	
Date of test:	Operator:
07/20/2006	M. Steindl
Test performed:	File name:
automatically	default.emi
Datastan	

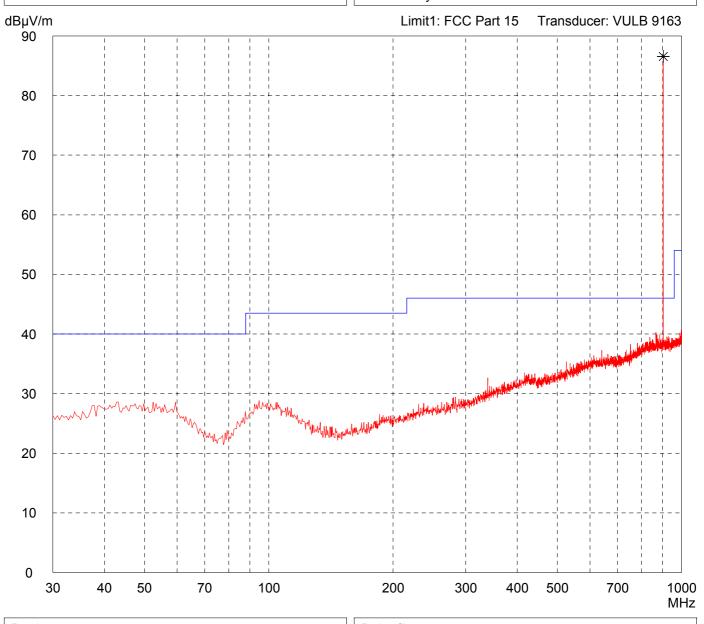
Comment:

- 3.6 V battery supply
- TX on lowest channel

Detector:

Peak

List of values:
Selected by hand



Result: Prescan Project file: 57403-60316-1

# Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: WNCA01			
Serial no.:		-	
Applicant:			
Vigil Health Solutions Inc			
Test site:	Test site:		
Fully anechoic room, cab	in no. 2		
Tested on:			
Test distance 3 metres Vertical Polarization			
Date of test:	Operator:		
07/20/2006	M. Steindl		
Test performed:	File name:		
automatically	default.emi		
Detector		$\neg$	

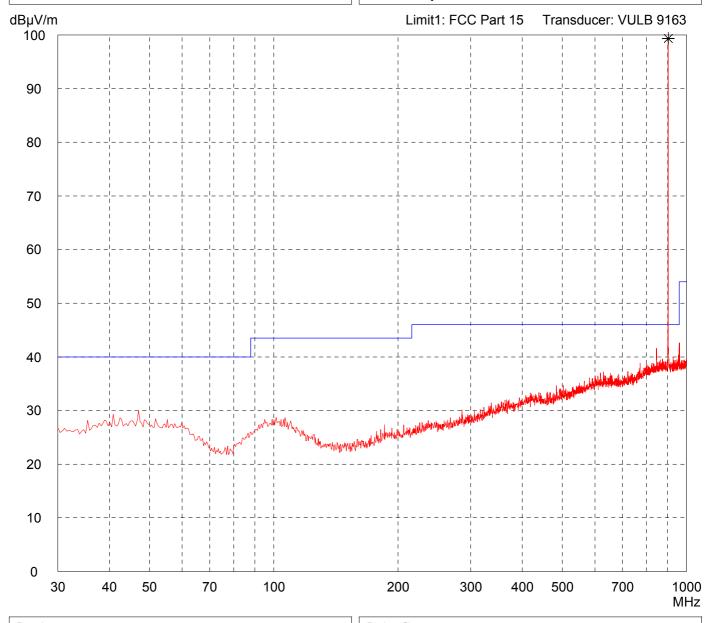
Comment:

- 3.6 V battery supply
- TX on lowest channel

Detector:

Peak

List of values:
Selected by hand



Result: Prescan Project file: 57403-60316-1

# Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (EMCO 3115)

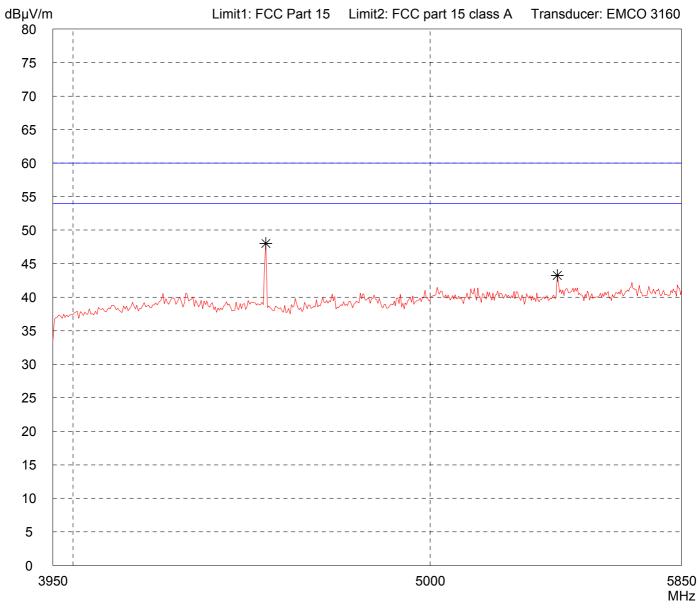
Model: WNCA	A01		Comment: - 3.6 V battery supply	
Serial no	0.:		- TX on lowest channel	
Applicar Vigil H	nt: lealth Solutions Inc.			
Test site	<b>e</b> :			
Tested of	nechoic room, cabir	no. 2		
Test d	istance 3 metres ontal Polarization			
Date of		Operator:		
07/25/ Test per		M. Steindl File name:		
	atically	default.emi		
Detector Peak	r:		List of values: Selected by hand	
dBµV/m	1	Limit1: FCC Part 15	Limit2: FCC part 15 class /	A Transducer: EMCO 3115
80			 	
75				
70				
65				
60				
55				
50			i 	
45			    	* 
40		*		Emmonder of the second of the
35			Manual Company	
30			 	
25				
20				
15				
10				
5				
0			; ; !	
10	000		2000	3000 400 MH
Result:	an		Project file: 57403-60316-1	

# Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (EMCO 3115)

Model: WNCA01		Comment: - 3.6 V battery sup	ply	
Serial no.:		- TX on lowest cha		
Applicant: Vigil Health Solution	s Inc.			
Test site:		-		
Fully anechoic room	, cabin no. 2	_		
Tested on: Test distance 3 metr Vertical Polarization	res			
Date of test:	Operator:	=		
07/25/2006 Test performed:	M. Steindl File name:	-		
automatically	default.emi			
Detector: Peak		List of values: Selected by hand		
dBµV/m 80	Limit1: FCC Part 15	Limit2: FCC part 15 o	class A Transducer: EN	MCO 3115
75				
70				
65				
60				
55				
50				- <del>*</del>
45			· <del> </del>	
40	· <del>*</del>		Marin	may from high man and
35		mymmmmmmmm	), *****	
30	·			
25				
20				
15				
10				
5				
0 1000		2000	3000	400 MH
Result: Prescan		Project file: 57403-60316-1		IVIT
i i cocali				

# Radiated Emission Test 3.95 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

Model: WNCA01 Serial no.:		Comment: - 3.6 V battery supply - TX on lowest channel
Applicant: Vigil Health Solutions Inc.  Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 3 metres Horizontal Polarization		
Date of test: 07/25/2006	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector: Peak		List of values: Selected by hand

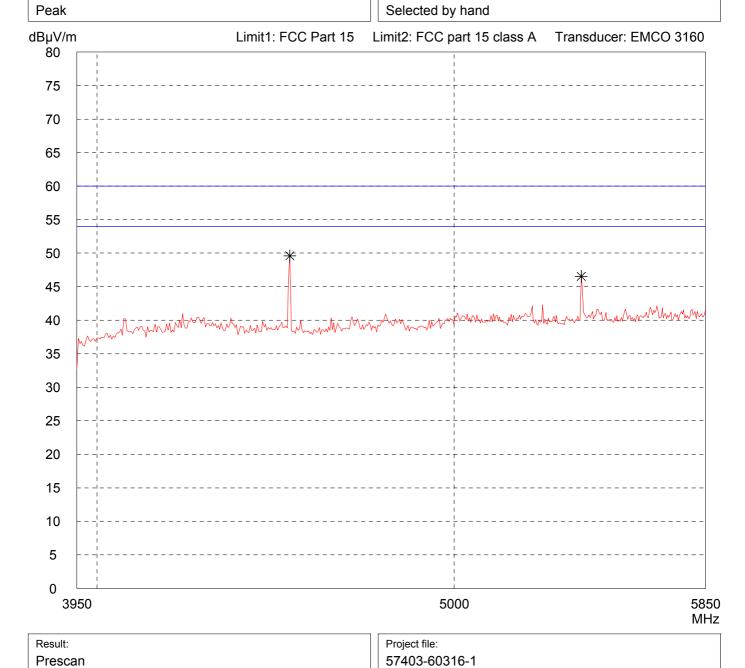


Result:
Prescan

Project file:
57403-60316-1

# Radiated Emission Test 3.95 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

Model:		Comment:
WNCA01		- 3.6 V battery supply
Serial no.:		
		- TX on lowest channel
Applicant:		
Vigil Health Solutions	Inc.	
Test site:		
Fully anechoic room,	cabin no. 2	
Tested on:		
Test distance 3 metre	S	
Vertical Polarization		
Date of test:	Operator:	
07/25/2006	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:		List of values:
Detector.		List of values.



## Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

	acc. to FCC Pa	rt 15 (EMCO 3160)
Model: WNCA	.01	Comment: - 3.6 V battery supply
Serial no	).:	- TX on lowest channel
Applican		
Vigil H	ealth Solutions Inc.	
1	nechoic room, cabin no. 2	
Tested o		
	stance 3 metres ntal Polarization	
Date of t	•	
07/25/2 Test per		_
automa		
Detector Peak	:	List of values: Selected by hand
dBμV/m	Limit1: FCC Part 15	Limit2: FCC part 15 class A Transducer: EMCO 3160
80		1
75		
70		
65	    	
60		
55		
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45		many damped has been properly the second of
40		
35		
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25		
20		
15		
10		
5		

 Result:
 Project file:

 57403-60316-1
 57403-60316-1

7000

8000

8200

MHz

6000

5850

## Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

	acc. to FCC Pa	art 1	15 (EMCO 3160)
Model: WNCA01			Comment: - 3.6 V battery supply
Serial no.:			- TX on lowest channel
Applicant	t:		
Vigil Health Solutions Inc.			
Test site:			
Fully anechoic room, cabin no. 2  Tested on:			
Test distance 3 metres Vertical Polarization			
Date of test: Operator: 07/25/2006 M. Steindl			
Test perfe			
automa	atically default.emi		
Detector: Peak			List of values: Selected by hand
dBµV/m 80	Limit1: FCC Part 15	Li	imit2: FCC part 15 class A Transducer: EMCO 3160
00			
75			
70			
70			
65			
60			
55			
50			
			***************************************
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0			
58	50 6000	7000 8000 820	

Prescan 57403-60316-1

Project file:

MHz

Result:

Model: WNCA01	Comment: - 3.6 V battery supply
Serial no.:	- TX on lowest channel
Applicant:	
Vigil Health Solutions Inc.  Test site:	
Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: Operator: 07/25/2006 M. Steindl	
Test performed: File name: automatically default.emi	
Detector: Peak	List of values: Selected by hand
dBμV/m 80	Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160
75	
70	
65	
60	
55	
	*
45	
40	
35	
30	
25	
20	
15	
10	
5	
0 8200	10000 MHz
Result:	Project file:
Prescan	57403-60316-1

Model: WNCA	۸01		Comment: - 3.6 V battery supply	
Serial no	o.:		- TX on lowest channel	
Applican	nt:			
Vigil H Test site	ealth Solutions Inc.			
	e: inechoic room, cabin	ı no. 2		
	on: istance 1 meter al Polarization			
Date of t		Operator: M. Steindl		
Test per	formed:	File name: default.emi		
Detector Peak	r:		List of values: 10 dB Margin	50 Subranges
dBµV/m	1		Limit1: FCC Part 15 (1 m)	Transducer: EMCO 3160
80			1 1 1 1	
75			T	
70			 	
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60			 	
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20			 	
15			 	
10			 	
5			; 	
0			 	
82	200			10000 MHz
Result: Presca	an		Project file: 57403-60316-1	

Model: WNCA01	
Serial no.:	
Applicant:	
Vigil Health Solutions Inc.	
Test site:	
Fully anechoic room, cabin	no. 2
Tested on:	
Test distance 3 metres Horizontal Polarization	
Date of test:	Operator:
07/21/2006	M. Steindl
Test performed:	File name:
automatically	default.emi
<b>5</b>	

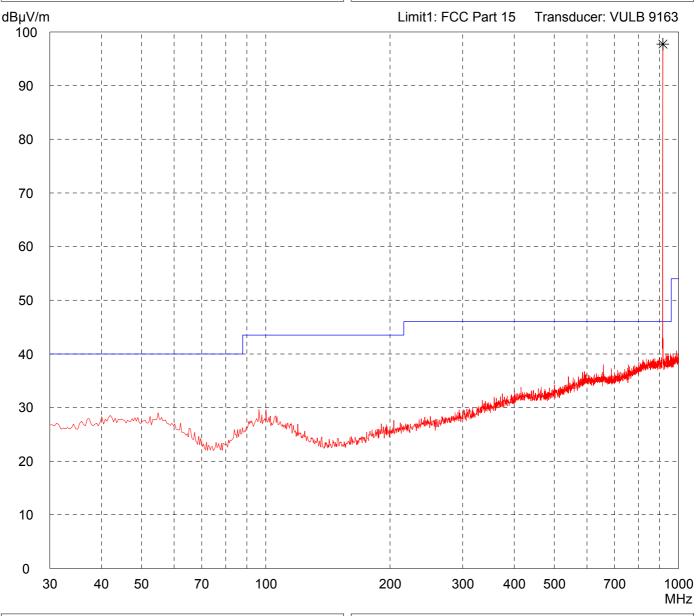
Comment:

- 3.6 V battery supply
- TX on middle channel

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan

Project file: 50516-60368

Model:	
WNCA01	
Serial no.:	
Applicant:	
Vigil Health Solutions Inc.	
Test site:	
Fully anechoic room, cab	in no. 2
Tested on:	
Test distance 3 metres	
Vertical Polarization	
Date of test:	Operator:
07/21/2006	M. Steindl
Test performed:	File name:
automatically	default.emi
Datastan	

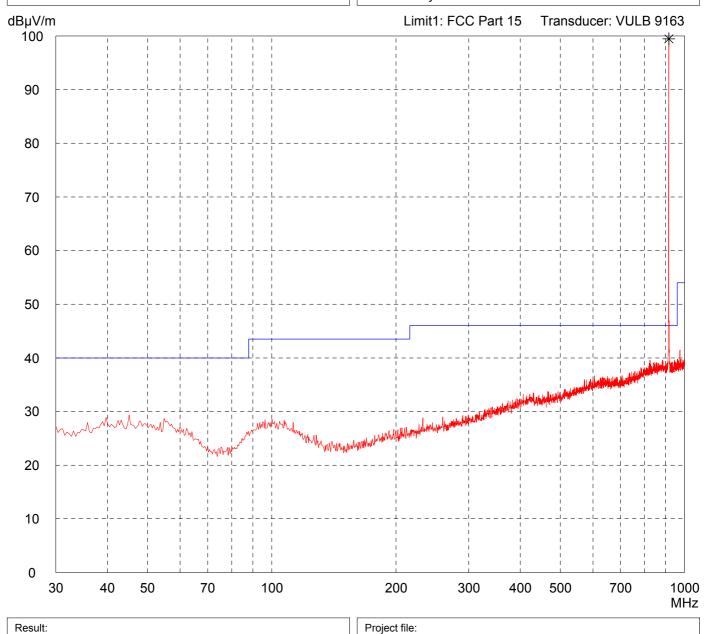
Comment:

- 3.6 V battery supply
- TX on middle channel

Detector:

Peak

List of values:
Selected by hand



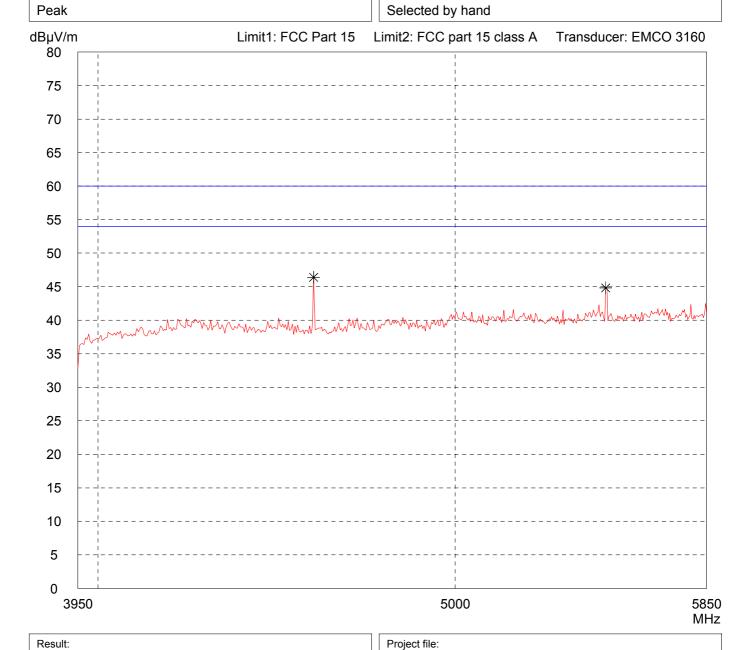
Prescan

Project file: 50516-60368

			•			
Model:	<b>A</b> 01		Comment	t: battery supply		
Serial n			<b>T</b>	middle channe		
Applica	nt:		- 17 011	middle chamin	Ci	
Vigil H	lealth Solutions In	C.				
Test site	<sup>e:</sup> anechoic room, ca	bin no. 2				
Tested	on:					
	listance 3 metres ontal Polarization					
Date of		Operator:	-			
07/25/	/2006 rformed:	M. Steindl File name:				
1	natically	default.emi				
Detecto	or:		List of val			
Peak	_	Limita, ECC Dort 15		ed by hand		
dBµV/n 80	n	Limit1: FCC Part 15	LIMILZ: FC	CC part 15 clas		ducer: EMCO 3115
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70					 	
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Result:			Project file	 e:		MH
Presc	an			60316-1		

Model: WNCA0	1	Comment: - 3.6 V battery supply	
Serial no.:		- TX on middle channel	
Applicant:			
Vigil Hea	alth Solutions Inc.		
1	echoic room, cabin no. 2		
Tested on			
	tance 3 metres Polarization		
Date of tes	•		
07/25/20 Test perfo			
automat			
Detector: Peak		List of values:	
dBµV/m	Limit1: FCC Par	Selected by hand  15 Limit2: FCC part 15 class A	Transducer: EMCO 3115
80	2		
75		 	
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0 100	00	2000	3000 400 MH
Result: Prescan	1	Project file: 57403-60316-1	

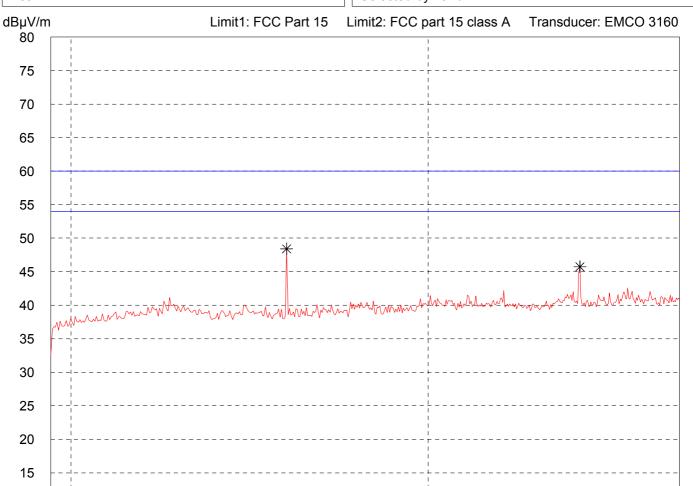
Model: WNCA01		Comment: - 3.6 V battery supply
Serial no.:		- TX on middle channel
Applicant: Vigil Health Solutions	s Inc.	
Test site: Fully anechoic room,	cabin no. 2	
Tested on: Test distance 3 metre Horizontal Polarization	<del></del>	
Date of test: 07/25/2006	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		List of values:



57403-60316-1

Prescan

Model: WNCA01		Comment:
Serial no.:		- 3.6 V battery supply - TX on middle channel
Applicant: Vigil Health Solutions	s Inc.	
Test site: Fully anechoic room,	, cabin no. 2	
Tested on: Test distance 3 metro Vertical Polarization	es	
Date of test: 07/25/2006	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		List of values: Selected by hand



| MHz | Result: | Project file: | 57403-60316-1 |

		Part 15 (EMCO 3160)
Model: WNCA01		Comment: - 3.6 V battery supply
Serial no.:		- TX on middle channel
Applicant: Vigil Health Solutions	s Inc	
Test site: Fully anechoic room,		
Tested on:	odom no. 2	
Test distance 3 metro Horizontal Polarization		
Date of test: 07/25/2006	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector: Peak		List of values: Selected by hand
dBμV/m 80	Limit1: FCC Part	15 Limit2: FCC part 15 class A Transducer: EMCO 3160
75		·
70		
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 $\mathsf{MHz}$ Project file: Result: Prescan 57403-60316-1

		st 5.85 GHz - 8.2 GHz 15 (EMCO 3160)
Model:		Comment:
WNCA	<del>\</del> 01	- 3.6 V battery supply
Serial n	0.:	- TX on middle channel
Applicar Vigil H	<sup>nt:</sup> lealth Solutions Inc.	
Test site	e: anechoic room, cabin no. 2	
Tested	on:	
	listance 3 metres al Polarization	
Date of 07/25/	·	
1	rformed: File name: atically default.emi	
Detecto Peak	r:	List of values: Selected by hand
dBµV/m	n Limit1: FCC Part 15	Limit2: FCC part 15 class A Transducer: EMCO 3160
80	!	!!!!
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 $\mathsf{MHz}$ Project file: Result: Prescan 57403-60316-1

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5850

6000

7000

8000

Model: WNCA0	01	Comment: - 3.6 V battery supply
Serial no.:		- TX on middle channel
Applicant:		
Vigil Hea	alth Solutions Inc.	
	echoic room, cabin no. 2	
Tested on:		
	tance 1 meter tal Polarization	
Date of tes	•	
07/25/20 Test perfo	,	
automat		
Detector: Peak		List of values: 10 dB Margin 50 Subranges
dBµV/m		Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160
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65		
60		
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Result:		Project file: 57403 60316 1

Model:			Comment:	
WNCA	.01		- 3.6 V battery supply	
Serial no				
			- TX on middle channel	
Applican Vigil H	t: ealth Solutions Inc.			
Test site Fully a	: nechoic room, cabin	no. 2		
Tested o				
	stance 1 meter Il Polarization			
Date of t 07/25/2		Operator: M. Steindl		
Test per		File name: default.emi		
Detector Peak	:		List of values: 10 dB Margin	50 Subranges
dBµV/m	1		Limit1: FCC Part 15 (1 m)	Transducer: EMCO 3160
80		 	· ,	
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Deri !!		7	Duning the file	MHz
Result: Presca	ın		Project file: 57403-60316-1	

Model: WNCA01				
Serial no.:				
Applicant:				
Vigil Health Solutions Inc.				
Test site: Fully anechoic room, cabin no. 2				
Tested on:				
Test distance 3 metres Horizontal Polarization				
Date of test:	Operator:			
07/21/2006	M. Steindl			
Test performed:	File name:			
automatically	default.emi			

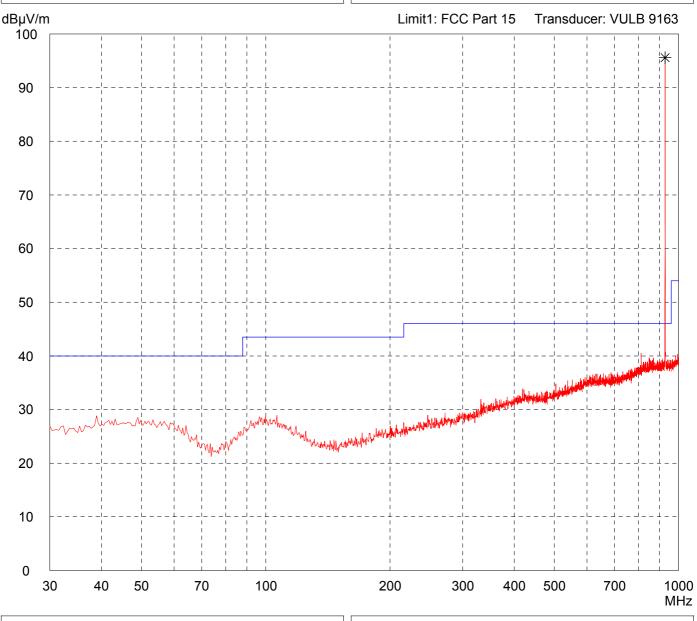
Comment:

- 3.6 V battery supply
- TX on highest channel

Detector:

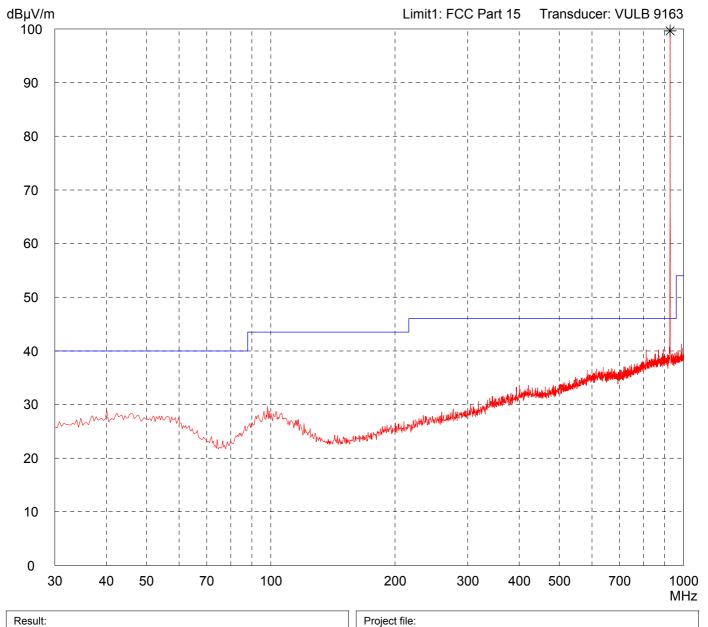
Peak

List of values:
Selected by hand



Result: Prescan Project file: 50516-60368

Model: WNCA01		Comment: - 3.6 V battery supply
Serial no.:		- TX on highest channel
Applicant: Vigil Health Solutions	Inc.	
Test site: Fully anechoic room,	cabin no. 2	
Tested on: Test distance 3 metre Vertical Polarization	es	
Date of test: 07/21/2006	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector: Peak		List of values: Selected by hand



50516-60368

Prescan

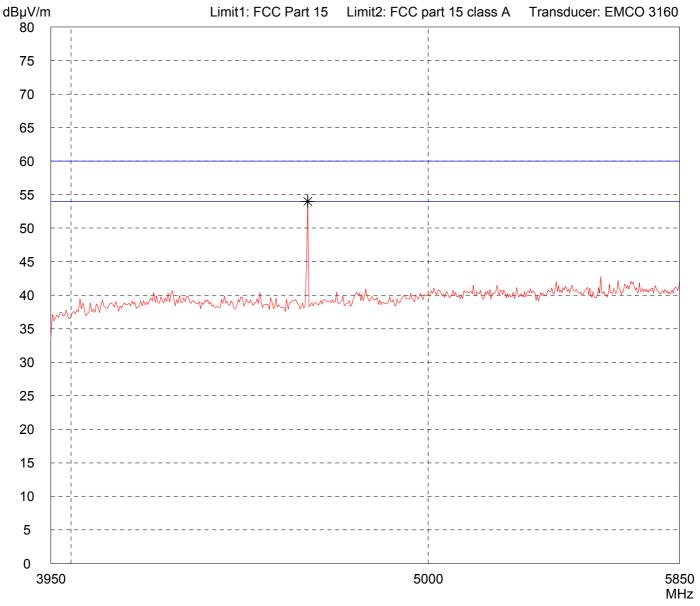
Model: WNCA	A01		Comment: - 3.6 V battery supply		
Serial no	0.:		- TX on highest chanr	nel	
Applicar Vigil H	nt: lealth Solutions Inc	c.			
Test site	<b>e</b> :				
	nechoic room, cal	bin no. 2			
	istance 3 metres intal Polarization				
Date of		Operator:			
07/25/2 Test per		M. Steindl File name:			
	atically	default.emi			
Detector Peak	r:		List of values: Selected by hand		
dBµV/m	1	Limit1: FCC Part 15	Limit2: FCC part 15 clas	ss A Transducer: EMCO 31	15
80			 	 	
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0	000		2000	3000	400
					MH
Result:	an		Project file: 57403-60316-1		

Model: WNCA	\01		Comment: - 3.6 V battery supply	
Serial n			- TX on highest channel	
Applicar	nt:		- 1X on highest channel	
Vigil H	lealth Solutions Inc			
Test site	e: anechoic room, cab	in no. 2		
Tested	on:			
	istance 3 metres al Polarization			
Date of		Operator:		
07/25/	rformed:	M. Steindl File name:		
	atically	default.emi		
Detecto	r:		List of values:	
Peak dBµV/m	n	Limit1: FCC Part 15	Selected by hand Limit2: FCC part 15 class A Transducer: EMCO 31	15
80	'	Limit. 1 001 art 10	Transducer. Livide of	
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Result:	an		Project file: 57403-60316-1	

Model:		С	omment:
WNCA01		-	3.6 V batte
Serial no.:			
		-	TX on high
Applicant:			
Vigil Health Solutions I	Inc.		
Test site:			
Fully anechoic room, o	abin no. 2		
Tested on:			
Test distance 3 metres	3		
Horizontal Polarization	1		
Date of test:	Operator:		
07/25/2006	M. Steindl		
Test performed:	File name:		
automatically	default.emi		
Detectors			-t -f.,-l.,

- ry supply
- est channel

Detector: Peak Selected by hand



Result: Project file: Prescan 57403-60316-1

Model: WNCA01				
Serial no.:				
Applicant:				
Vigil Health Solutions Inc.				
Test site:				
Fully anechoic room, cabin no. 2				
Tested on:				
Test distance 3 metres Vertical Polarization				
Date of test:	Operator:			
07/25/2006	M. Steindl			
Test performed:	File name:			
automatically	default.emi			
5				

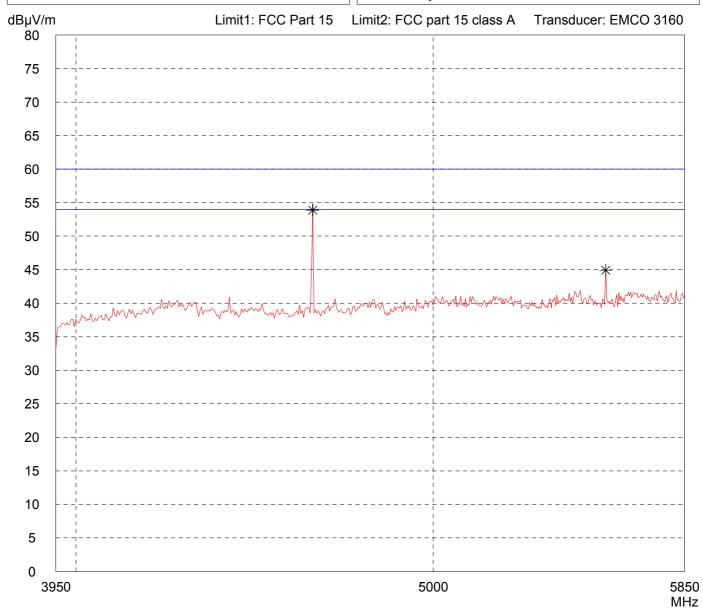
Comment:

- 3.6 V battery supply
- TX on highest channel

Detector:

Peak

List of values:
Selected by hand



 Result:
 Project file:

 57403-60316-1
 57403-60316-1

	est 5.85 GHz - 8.2 GHz t 15 (EMCO 3160)
Model: WNCA01 Serial no.: Applicant: Vigil Health Solutions Inc. Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization	Comment: - 3.6 V battery supply - TX on highest channel
Date of test:  O7/25/2006  Test performed:  automatically  Operator:  M. Steindl  File name:  default.emi	
Detector: Peak	List of values: Selected by hand
dBµV/m Limit1: FCC Part 15	Limit2: FCC part 15 class A Transducer: EMCO 3160
75	
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 $\mathsf{MHz}$ Project file: Result: 57403-60316-1 Prescan

	Test 5.85 GHz - 8.2 GHz art 15 (EMCO 3160)
Model: WNCA01 Serial no.: Applicant: Vigil Health Solutions Inc.  Test site: Fully anechoic room, cabin no. 2  Tested on: Test distance 3 metres Vertical Polarization  Date of test: O7/25/2006 M. Steindl  Test performed: automatically default.emi	Comment: - 3.6 V battery supply - TX on highest channel
Detector: Peak	List of values: Selected by hand
dBµV/m Limit1: FCC Part 18	5 Limit2: FCC part 15 class A Transducer: EMCO 3160
70	
60	
55	*
45	
35	
30	

 $\mathsf{MHz}$ Project file: Result: 57403-60316-1 Prescan

		,
Model: WNCA	.01	Comment: - 3.6 V battery supply
Serial no	).:	- TX on highest channel
Applican Vigil H	ealth Solutions Inc.	
Test site	nechoic room, cabin no. 2	
Tested of		
	istance 1 meter ntal Polarization	
Date of t	•	
Test per	formed: File name:	
automa	atically default.emi	
Detector Peak	:	List of values:  10 dB Margin  50 Subranges
dBµV/m 80	1	Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160
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	200	10000 MHz
Result:	an	Project file: 57403-60316-1
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75				
80		 		
L dΒμV/m	1		Limit1: FCC Part 15 (1 m)	Transducer: EMCO 3160
Detector Peak	···		List of values: Selected by hand	
automa		default.emi		
07/25/2 Test per		M. Steindl File name:		
Date of t		Operator:		
Test di	istance 1 meter al Polarization			
Fully a	nechoic room, cabin	no. 2		
Vigil H Test site	ealth Solutions Inc.			
Applican	nt:		- 17 of highest channel	
Serial no			- 3.6 V battery supply - TX on highest channel	
Model: WNCA	.01		Comment:	

57403-60316-1

Prescan

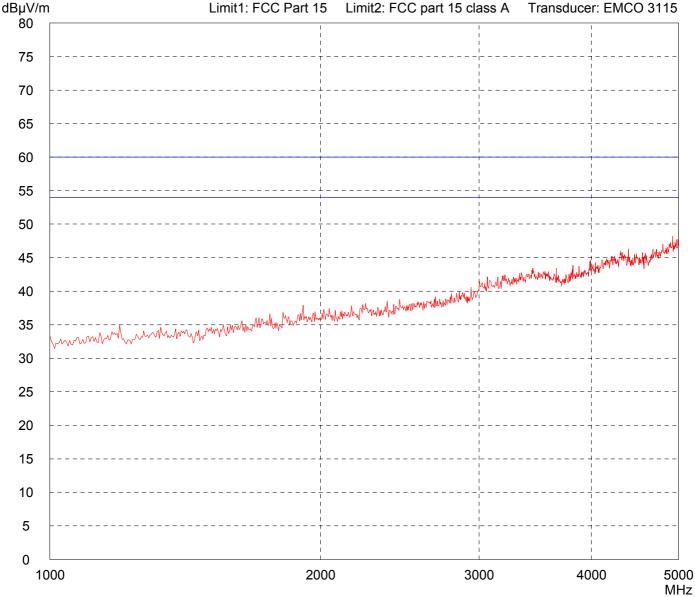
Model: WNCA	A01								Comm		y supply					
Serial n												_1				
									- RX	on midd	lle chann	el				
	lealth So	lutions	Inc.													
Test site	e: anechoic	room,	cabin	no. 2												
Tested		4														
	listance 3 ontal Pola															
Date of 07/25/				Oper M. S												
	rformed:			File												
	atically			defa												
Detecto Peak	r:									values: 3 Margir	า		50 Subra	naes		
dBµV/n	n								10 42		: FCC Pa		Transdu		B 91	163
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Result: Presca	an								Projec 5740	t file: 3-60316	6-1					

Model: WNCA01				Comment:	m., a., mmh.,		
Serial no.:				- 3.6 V batter			
				- RX on midd	die channei		
Applicant: Vigil Health S	Solutions Inc.						
Test site:	io room, oobin	no 2					
Tested on:	ic room, cabin	110. 2					
Test distance Vertical Pola							
Date of test: 07/25/2006		Operator: M. Steind	I				
Test performed:		File name:					
automatically	/	default.en	ni 				
Detector: Peak				List of values: 10 dB Margir	n	50 Subranges	
dBµV/m					: FCC Part 15	Transducer: \	
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0 30	40 50	70	100	200	300 400	500 70	00 100
Result:				Project file:			MH
Prescan				57403-60316	<b>3-1</b>		

Model: WNCA01		Comment: - 3.6 V battery supply
Serial no.:		- RX on middle chann
Applicant: Vigil Health Solutions	s Inc.	
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 3 metro Horizontal Polarization		
Date of test: 07/25/2006	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		List of values:
Peak		Selected by hand

- 3.6 V battery supply
- RX on middle channel





 Result:
 Project file:

 Prescan
 57403-60316-1

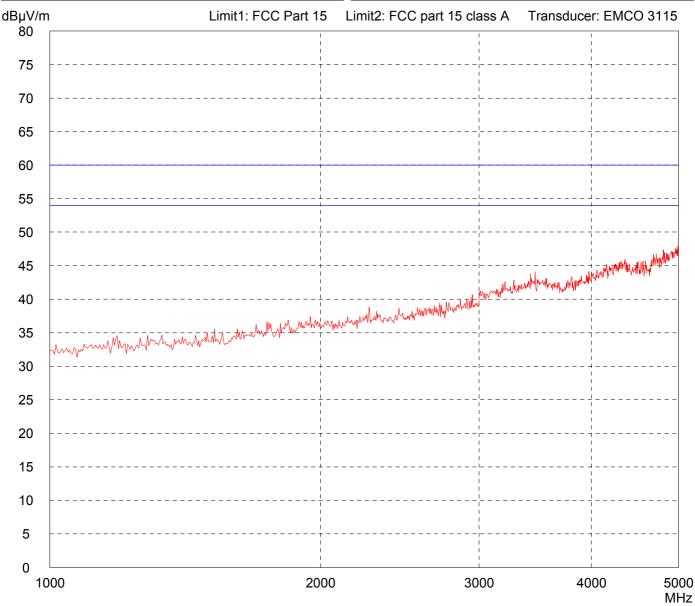
Model:			
WNCA01			
Serial no.:			
Applicant:			
Vigil Health Solutions Inc.			
Test site:			
Fully anechoic room, cabin no. 2			
Tested on:			
Test distance 3 metres			
Vertical Polarization			
Date of test:	Operator:		
07/25/2006	M. Steindl		
Test performed:	File name:		
automatically	default.emi		
Detector:			

Peak

Comment:

- 3.6 V battery supply
- RX on middle channel

List of values:
Selected by hand



Result:
Prescan

Project file:
57403-60316-1