

FCC TEST REPORT FCC 47 CFR Part 15C Industry Canada RSS-247 Digital transmission systems operating within the 902 – 928 MHz band	
Report Reference No.	G0M-1509-5067-TFC247DT-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	  A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, Reg.-No.: 96970 IC OATS Filing assigned code: 3470A
Applicant's name	Kamstrup A/S
Address	Industrivej 28 8660 Skanderborg DENMARK
Test specification:	
Standard	47 CFR Part 15C RSS-247, Issue 1, 2015-05 RSS-Gen, Issue 4, 2014-11 ANSI C63.10:2013 ANSI C63.4:2014
Test scope	complete Radio compliance test
Equipment under test (EUT):	
Product description	READY Gateway for Siemens MAG8000 [Us]
Model No.	READY Gateway
Additional Model(s)	None
Brand Name(s)	None
Hardware version	55501431 B8 + 5550 1429 D3 + 55501350 A6 (antenna)
Firmware / Software version	50981200 B1 (fw) + 5514 1416 A1 Eeprom
	FCC-ID: OUY-READYGW1 IC: N/A
Test result	Passed

Possible test case verdicts:

- neither assessed nor tested : N/N
- required by standard but not appl. to test object : N/A
- required by standard but not tested : N/T
- not required by standard for the test object : N/R
- test object does meet the requirement : P (Pass)
- test object does not meet the requirement : F (Fail)

Testing:

Test Lab Temperature : 20 – 23 °C

Test Lab Humidity : 32 – 38 %

Date of receipt of test item : 2015-10-22

Date (s) of performance of tests : 2015-10-22

Compiled by : Matthias Handrik

Tested by (+ signature) : Matthias Handrik
(Responsible for Test)

Approved by (+ signature) : Christian Weber
(Head of Lab)

Date of issue : 2015-10-29

Total number of pages : 66

Handrik

C. Weber

General remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Additional comments:

Version History

Version	Issue Date	Remarks	Revised by
01	2015-10-29	Initial Release	

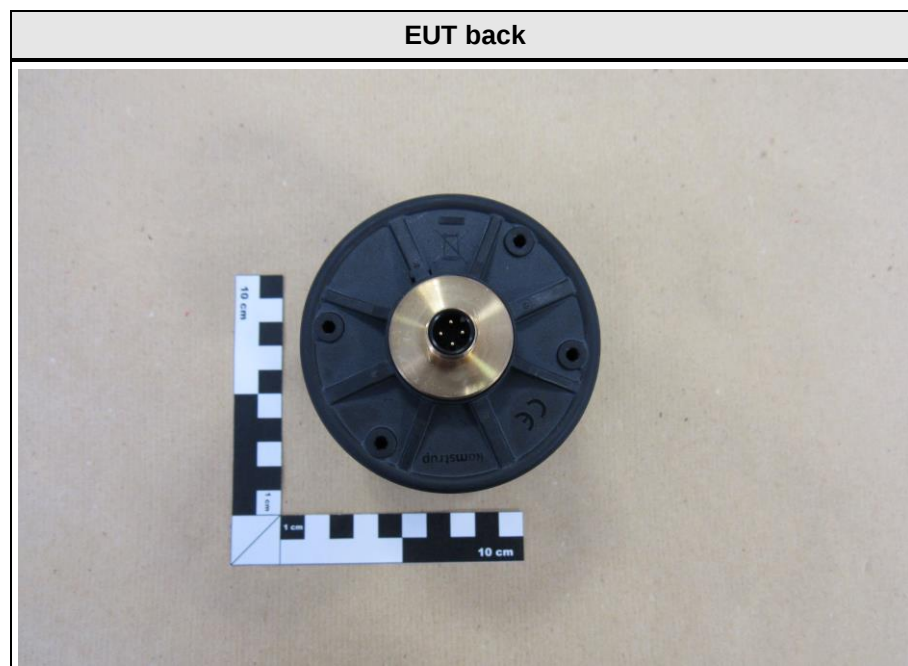
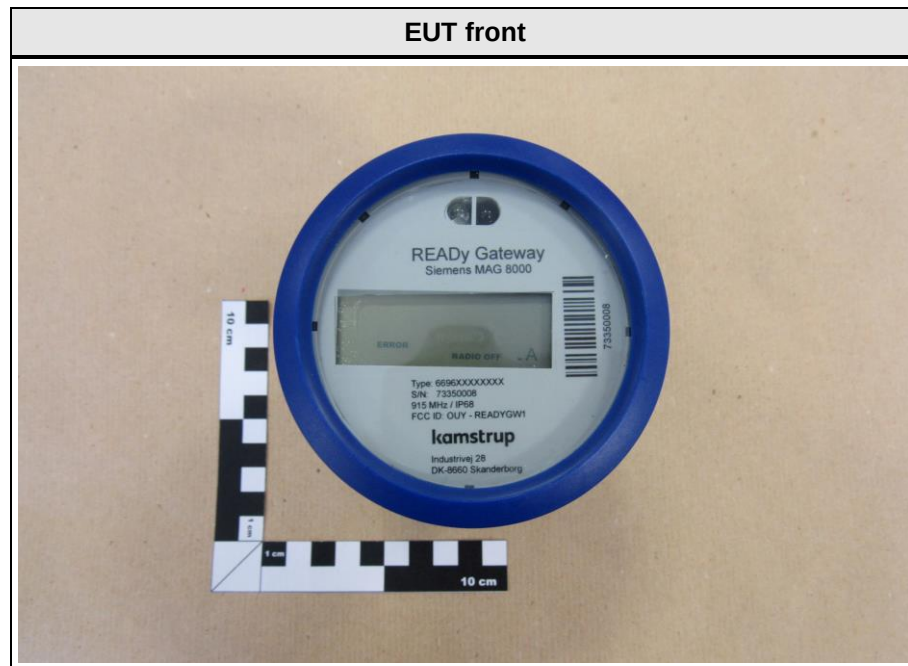
REPORT INDEX

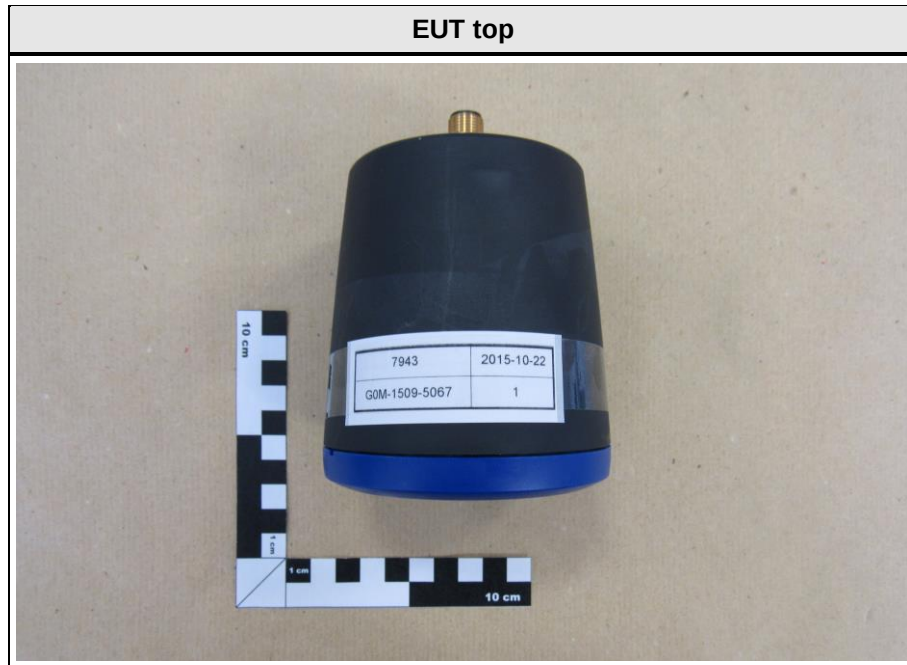
1	EQUIPMENT (TEST ITEM) DESCRIPTION	5
1.1	Photos – Equipment External	6
1.2	Photos – Equipment internal	8
1.3	Photos – Test setup	12
1.4	Supporting Equipment Used During Testing	13
1.5	Test Modes	14
1.6	Test Equipment Used During Testing	15
1.7	Sample emission level calculation	16
2	RESULT SUMMARY	17
3	TEST CONDITIONS AND RESULTS	18
3.1	Test Conditions and Results – Occupied Bandwidth	18
3.2	Test Conditions and Results – 6dB Bandwidth	22
3.3	Test Conditions and Results – Maximum peak conducted power	26
3.4	Test Conditions and Results – Power spectral density	27
3.5	Test Conditions and Results – Band edge compliance	31
3.6	Test Conditions and Results – Conducted spurious emissions	34
3.7	Test Conditions and Results – Transmitter radiated emissions	37
ANNEX A	Transmitter radiated spurious emissions	39

1 Equipment (Test item) Description

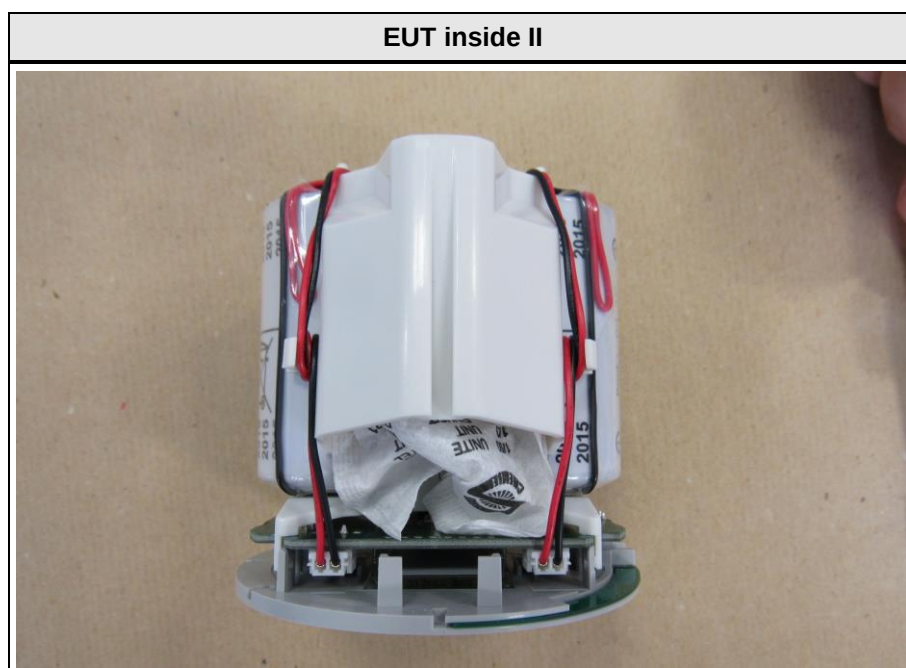
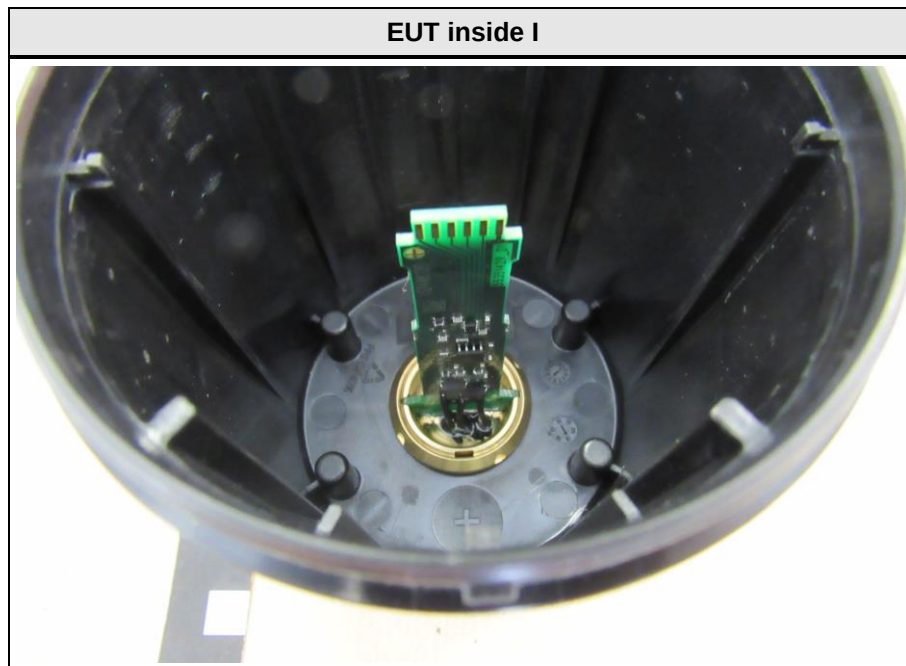
Description	READY Gateway for Siemens MAG8000 [Us]	
Model	READY Gateway	
Additional Model(s)	None	
Brand Name(s)	None	
Serial number	None	
Hardware version	55501431 B8 + 5550 1429 D3 + 55501350 A6 (antenna)	
Software / Firmware version	50981200 B1 (fw) + 5514 1416 A1 Eeprom	
FCC-ID	OUY-READYGW1	
IC	N/A	
Equipment type	End product	
Radio type	Transmitter only	
Radio technology	custom	
Operating frequency range	912.5 - 918.5 MHz	
Assigned frequency band	902 - 928 MHz	
Frequency range	F _{LOW}	912.5 MHz
	F _{MID}	915 MHz
	F _{HIGH}	918.5 MHz
Spreading	None	
Modulations	2-FSK	
Number of channels	3 Channel	
Channel spacing	2.5 MHz	
Number of antennas	1	
Antenna	Type	integrated
	Model	pcb antenna 55501350
	Manufacturer	Kamstrup
	Gain	1 dBi (customer declaration)
Manufacturer	Kamstrup A/S Industrivej 28 8660 Skanderborg DENMARK	
Power supply	V _{NOM}	3.6 VDC
	V _{MIN}	3.0 VDC
	V _{MAX}	3.6 VDC
AC/DC-Adaptor	Model	N/A
	Vendor	N/A
	Input	N/A
	Output	N/A

1.1 Photos – Equipment External

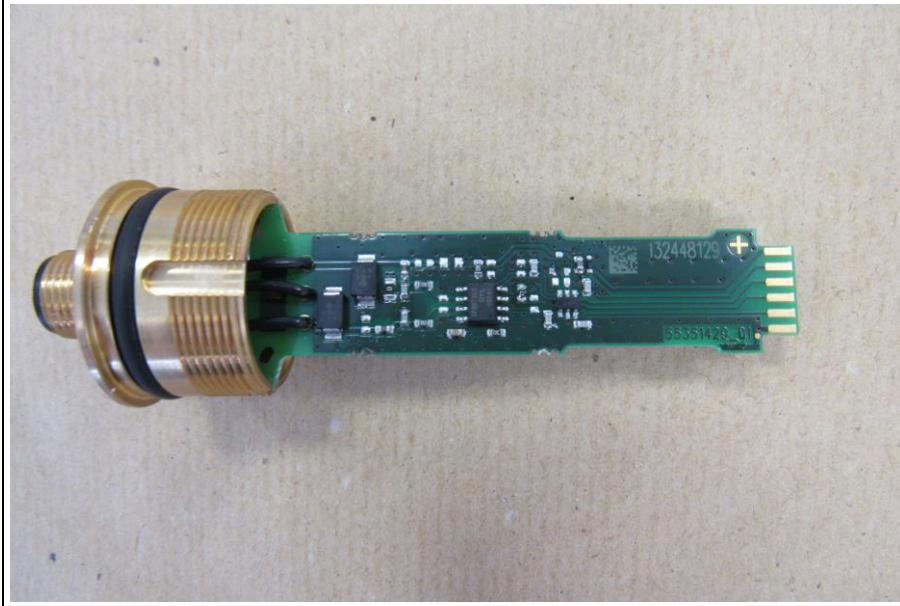




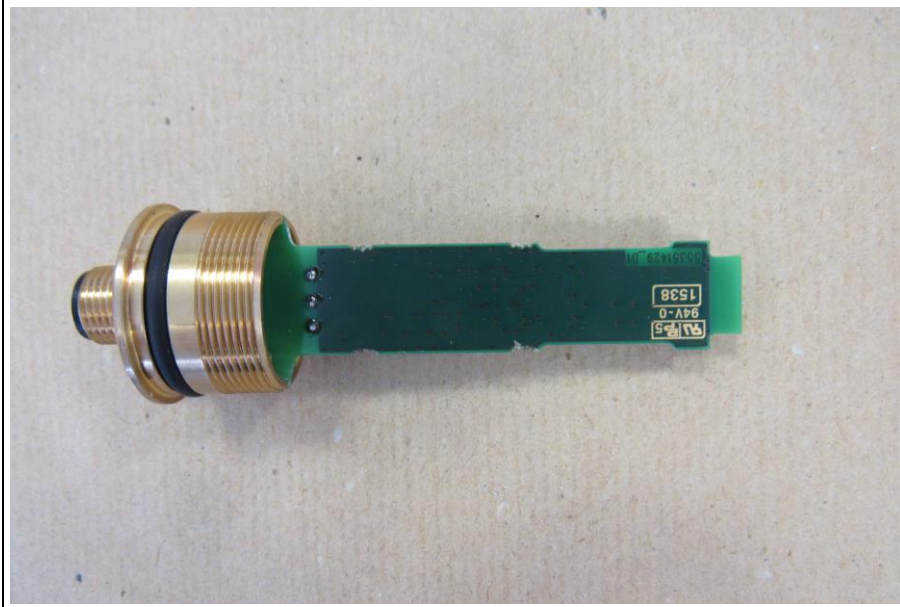
1.2 Photos – Equipment internal



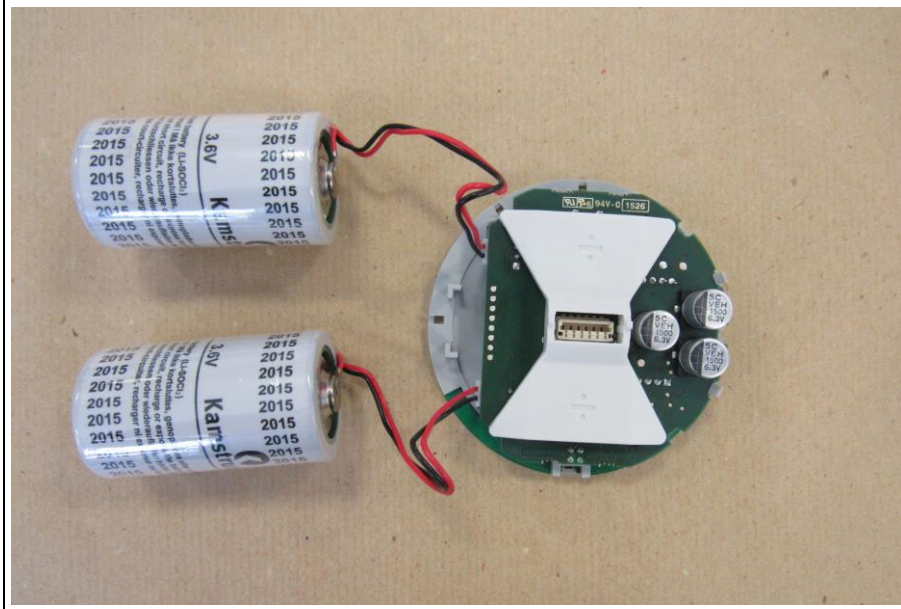
EUT PCB I front



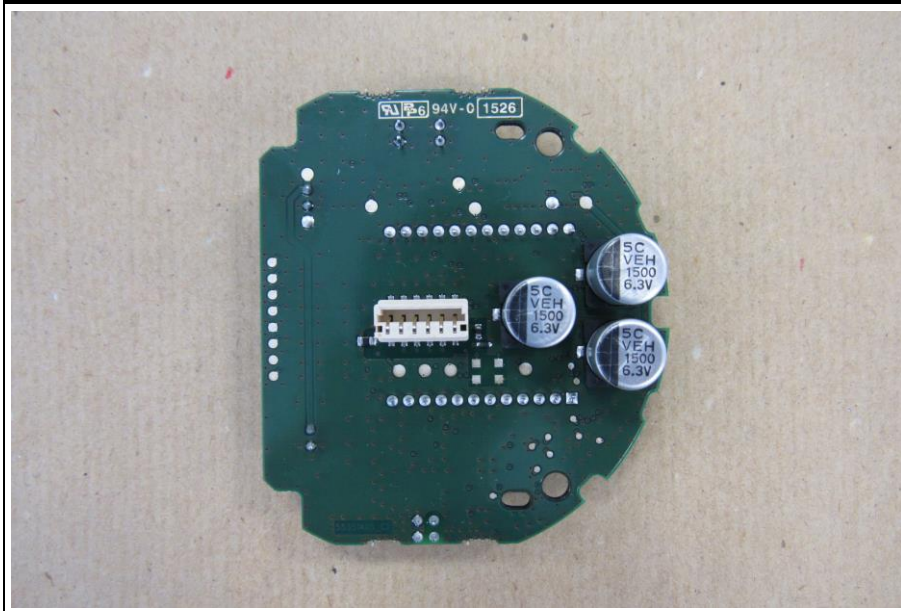
EUT PCB I back



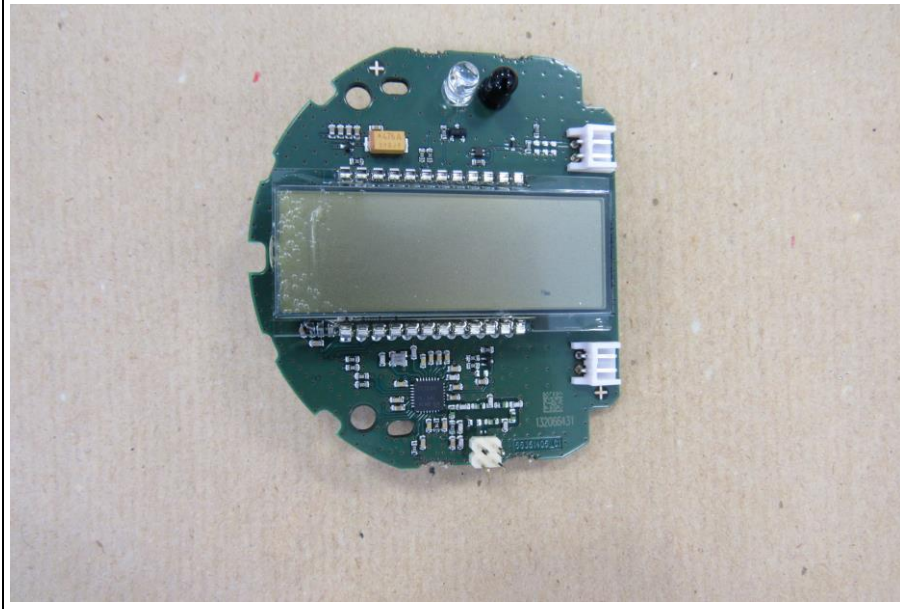
EUT PCB II back I



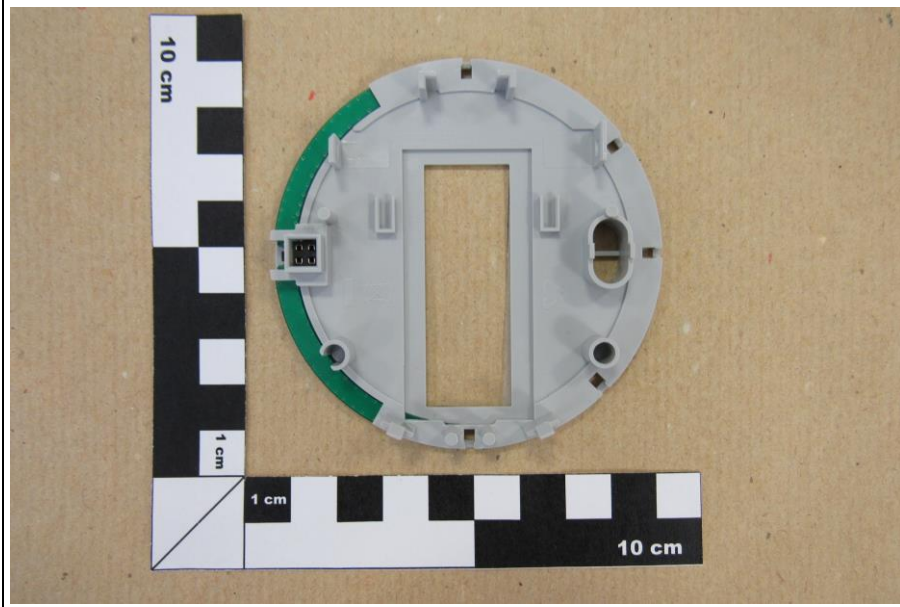
EUT PCB II back II



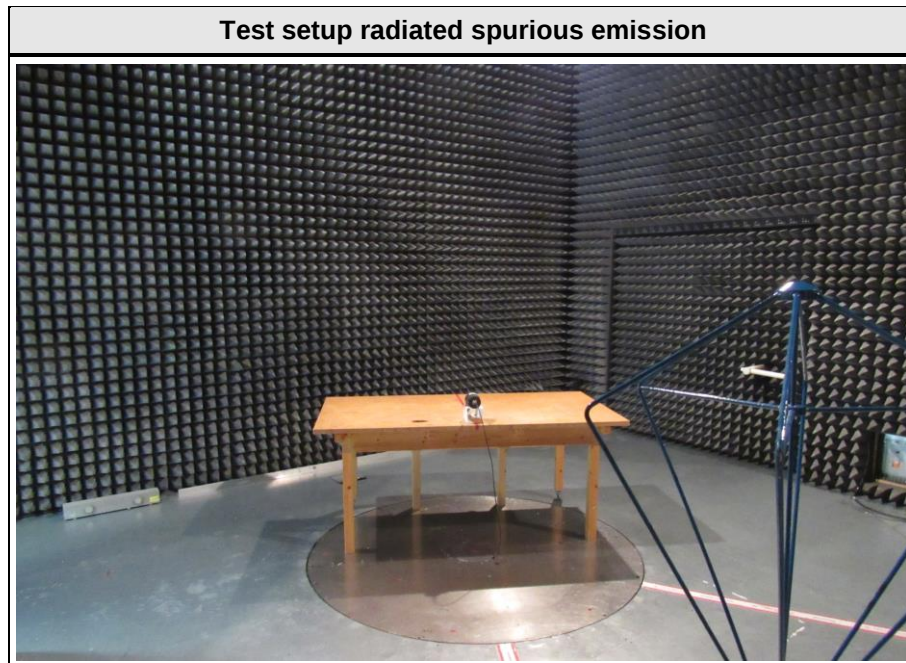
EUT PCB II front



EUT antenna



1.3 Photos – Test setup



1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
None				
*Note: Use the following abbreviations: AE : Auxiliary/Associated Equipment, or SIM : Simulator (Not Subjected to Test) CABL : Connecting cables				

1.5 Test Modes

Mode #	Description	
TX	General conditions:	EUT powered by battery.
	Radio conditions:	Mode = standalone transmit Spreading = None Modulation = 2-FSK Duty cycle = 100 % (Test mode) Power level = power key: 60

1.6 Test Equipment Used During Testing

Measurement Software			
Description	Manufacturer	Name	Version
EMC Test Software	Dare Instruments	Radimation	2014.1.15

Occupied Bandwidth					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum analyzer	R&S	FSU 26	EF01003	2015-04	2016-04

6dB Bandwidth					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum analyzer	R&S	FSU 26	EF01003	2015-04	2016-04

Maximum peak conducted power					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum analyzer	R&S	FSU 26	EF01003	2015-04	2016-04

Power spectral density					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum analyzer	R&S	FSU 26	EF01003	2015-04	2016-04

Band edge compliance					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum analyzer	R&S	FSU 26	EF01003	2015-04	2016-04

Conducted spurious emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum analyzer	R&S	FSU 26	EF01003	2015-04	2016-04

Radiated spurious emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-anechoic chamber	Frankonia	AC 1	EF00062	-	-
EMI Test Receiver	R&S	ESU26	EF00887	2015-01	2016-01
Biconical Antenna	R&S	HK 116	EF00012	2013-02	2016-02
LPD Antenna	R&S	HL 223	EF00187	2014-03	2017-03
LPD Antenna	R&S	HL 025	EF00327	2013-02	2016-02

Test Report No.: G0M-1509-5067-TFC247DT-V01

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

1.7 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in dBμV. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyzer (dB}\mu\text{V)} + \text{A.F. (dB)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dBμV/m). The FCC limits are given in units of μV/m. The following formula is used to convert the units of μV/m to dBμV/m:

$$\text{Limit (dB}\mu\text{V/m)} = 20 * \log (\mu\text{V/m})$$

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

Reading	+	AF	=	Net Reading	:	Net reading - FCC limit	=	Margin
21.5 dBμV	+	26 dB	=	47.5 dBμV/m	:	47.5 dBμV/m - 57.0 dBμV/m	=	-9.5 dB

2 Result Summary

FCC 47 CFR Part 15C, IC RSS-247				
Product Specific Standard Section	Requirement – Test	Reference Method	Result	Remarks
RSS-Gen 6.6	Occupied Bandwidth	ANSI C63.10	N/R	Informational only
FCC § 15.247(a)(2) IC RSS-247 § 5.2	6dB Bandwidth	ANSI C63.10	PASS	
FCC § 15.247(b)(3) IC RSS-247 § 5.4	Maximum peak conducted power	ANSI C63.10	PASS	
FCC § 15.247(e) IC RSS-247 § 5.2	Power spectral density	ANSI C63.10	PASS	
47 CFR 15.207 IC RSS-247 § 3.1	AC power line conducted emissions	ANSI C63.4	N/A	Not powered directly or indirectly via AC-Mains
FCC § 15.247(d) IC RSS-247 § 5.5	Band edge compliance	ANSI C63.10	PASS	
FCC § 15.247(d) IC RSS-247 § 5.5	Conducted spurious emissions	ANSI C63.10	PASS	
FCC § 15.247(d) FCC § 15.209 IC RSS-247 § 5.5	Transmitter radiated spurious emissions	ANSI C63.10	PASS	
IC RSS-247 § 3.1	Receiver radiated spurious emissions	ANSI C63.10	N/A	Transmitter only
Remarks:				

3 Test Conditions and Results

3.1 Test Conditions and Results – Occupied Bandwidth

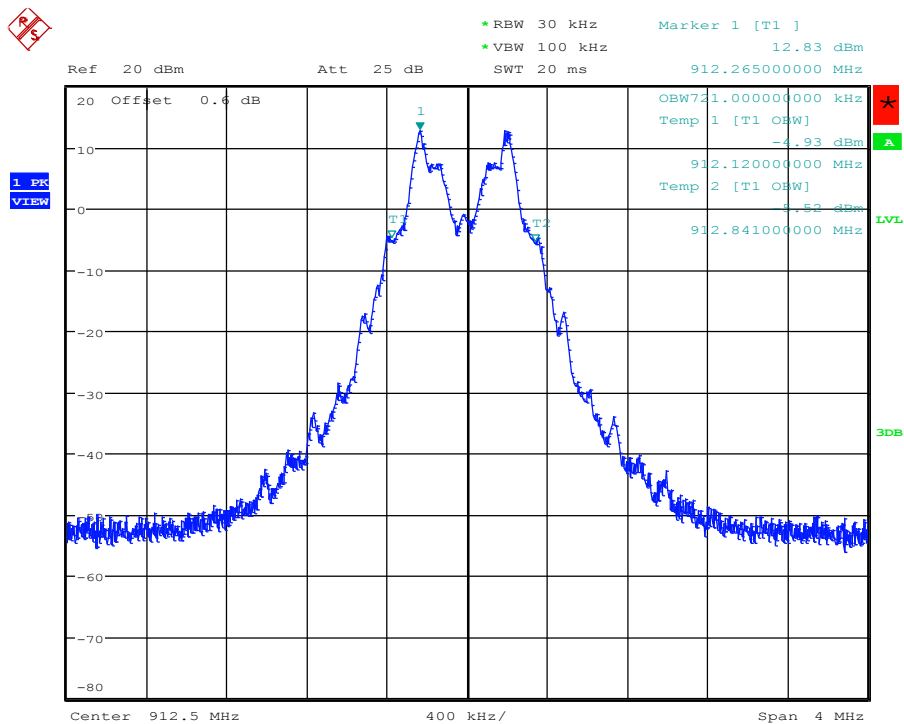
Occupied Bandwidth acc. to IC RSS-Gen			Verdict: PASS
Test according to measurement reference	Reference Method		
	ANSI C63.10		
Test frequency range	Tested frequencies		
	F _{LOW} , F _{MID} , F _{HIGH}		
EUT test mode	TX		
Limits			
None (Informational only)			
Test setup			
Spectrum Analyzer EUT			
Test procedure			
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to at least twice the emission spectrum 3. Resolution bandwidth set to 1 % of span 4. Occupied Bandwidth (99 %) measurement with spectrum analyzer built in measurement function			
Test results			
Channel	Frequency [MHz]	Occupied Bandwidth [kHz]	
F _{LOW}	912.5	721	
F _{MID}	915	736	
F _{HIGH}	918.5	736	
Comments:			

Occupied Bandwidth – F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1509-5067

Applicant: Kamstrup A/S
EUT Name: READY Gateway for Siemens MAG8000 [Us]
Model: READY Gateway
Test Site: Eurofins Product Service GmbH
Operator: Handrik
Test Conditions: Tnom / Vnom
Mode: TX, 912.5, 2FSK
Test Date: 2015-10-22
Verdict: PASS
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: conducted measurement



Occupied bandwidth: 721 KHz

Date: 22.OCT.2015 09:06:06

Test Report No.: G0M-1509-5067-TFC247DT-V01

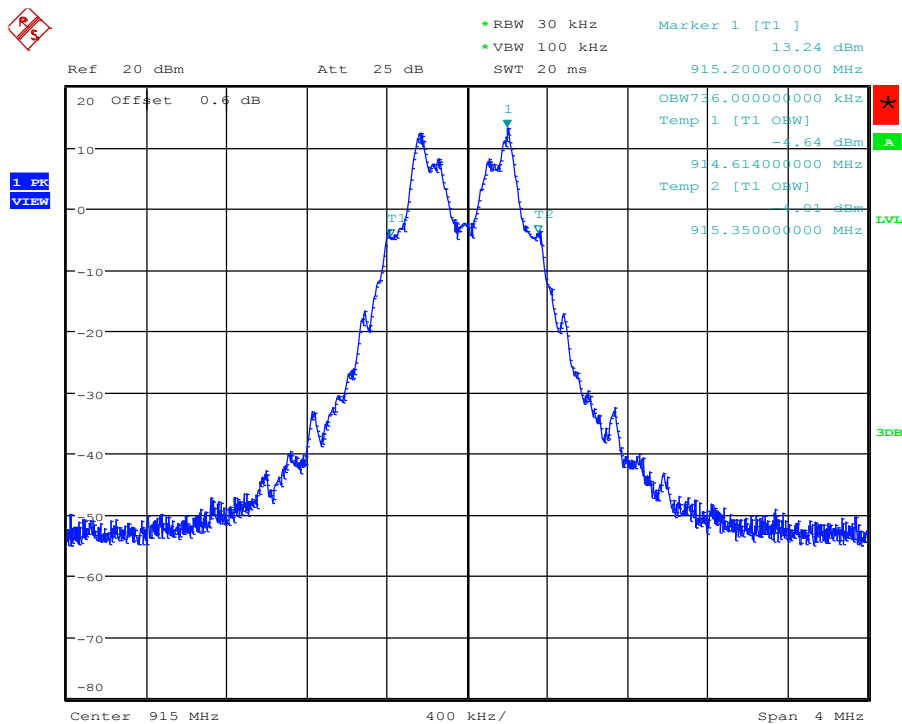
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Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth - F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1509-5067

Applicant: Kamstrup A/S
EUT Name: READY Gateway for Siemens MAG8000 [Us]
Model: READY Gateway
Test Site: Eurofins Product Service GmbH
Operator: Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, 915, 2FSK
Test Date: 2015-10-22
Verdict: PASS
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: conducted measurement



Occupied bandwidth: 736 KHz
Date: 22.OCT.2015 09:04:57

Test Report No.: G0M-1509-5067-TFC247DT-V01

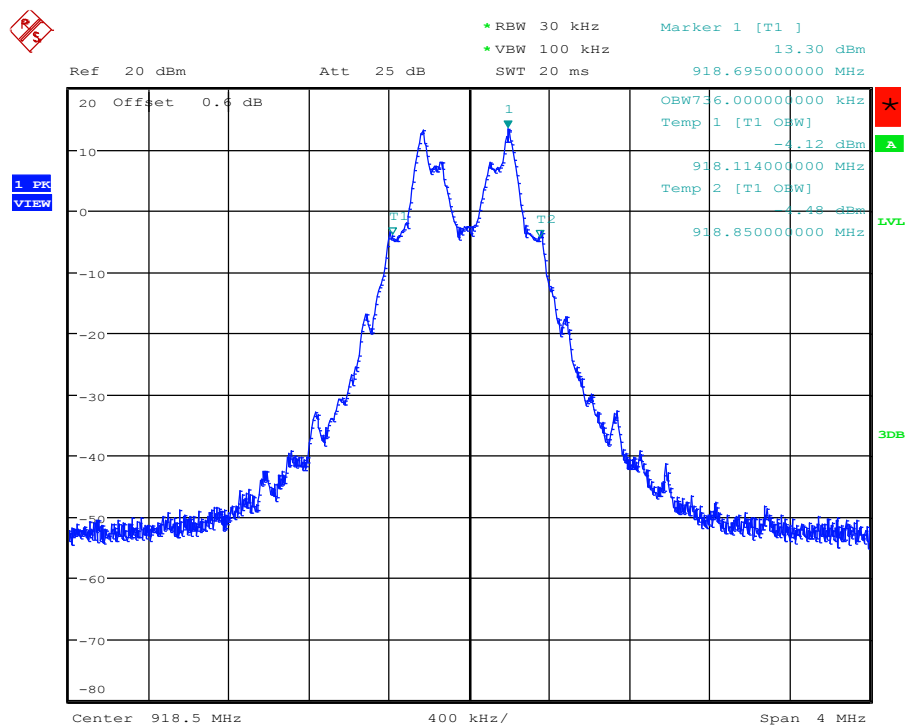
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, 918.5, 2FSK
 Test Date: 2015-10-22
 Verdict: PASS
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: conducted measurement



Occupied bandwidth: 736 KHz

Date: 22.OCT.2015 09:02:36

Test Report No.: G0M-1509-5067-TFC247DT-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

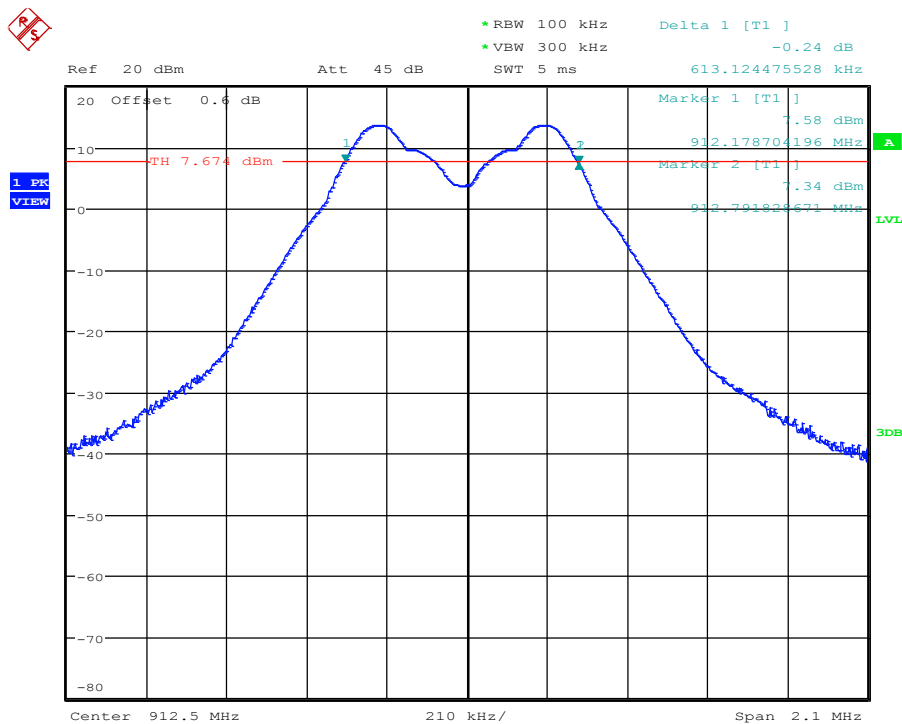
3.2 Test Conditions and Results – 6dB Bandwidth

6dB Bandwidth acc. to FCC 15.247 / IC RSS-247				Verdict: PASS
EUT requirement rule parts and clause	Reference			
	FCC 15.247(a)(2) / IC RSS-247 5.2			
Test according to measurement reference	Reference Method			
	ANSI C63.10			
Test frequency range	Tested frequencies			
	F _{LOW} , F _{MID} , F _{HIGH}			
EUT test mode	TX			
Limits				
≥ 500 kHz				
Test setup				
Spectrum Analyzer EUT				
Test procedure				
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to at least twice the emission spectrum 3. Detector set to peak and max hold 4. Envelope peak value of emission spectrum is selected 5. Marker on envelope of spectrum is set to level of -6 dB to the left of the peak 6. Marker on envelope of spectrum is set to level of -6 dB to the right of the peak 7. 6dB Bandwidth is determined by marker frequency separation				
Test results				
Channel	Frequency [MHz]	6 dB Bandwidth [kHz]	Limit [kHz]	Result
F _{LOW}	912.5	613.1	≥ 500	PASS
F _{MID}	915	611.1	≥ 500	PASS
F _{HIGH}	918.5	613.1	≥ 500	PASS
Comments:				

6dB Bandwidth – F_{LOW}
Minimum 6 dB Bandwidth acc. to FCC 15.247

Project Number: GOM-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, 912.5 MHz, 2FSK
 Test Date: 2015-10-22
 Verdict: PASS
 Note 1: Procedure according to ANSI C63.10
 Note 2: Minimum 6 dB Bandwidth conducted



6 dB bandwidth: 613.1 KHz > 500 KHz; verdict: PASS
 Date: 22.OCT.2015 09:08:40

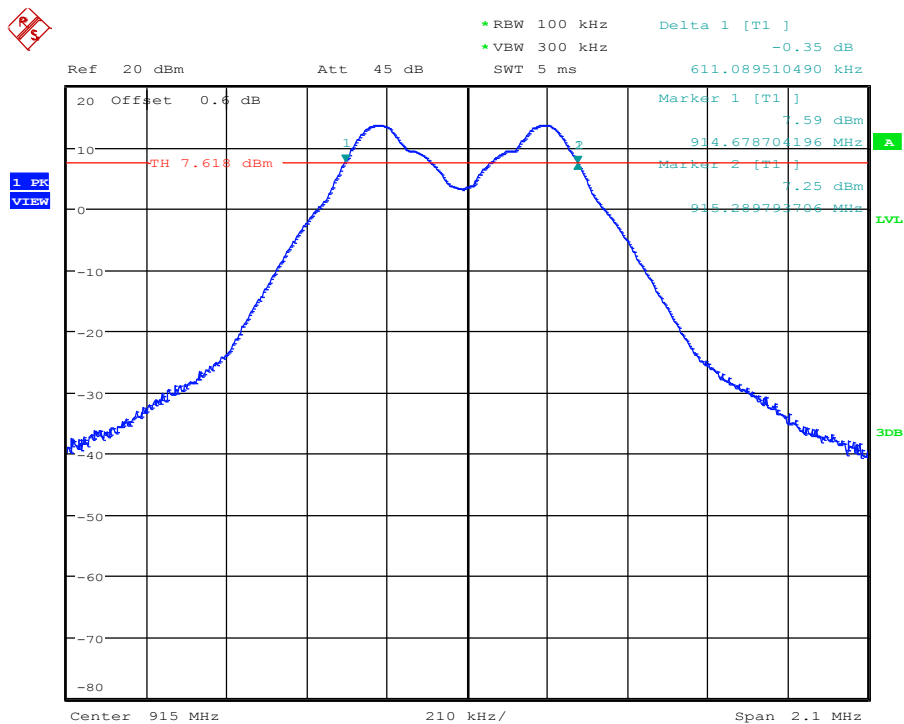
Test Report No.: GOM-1509-5067-TFC247DT-V01

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6dB Bandwidth - F_{MID}
Minimum 6 dB Bandwidth acc. to FCC 15.247

Project Number: GOM-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, 915 MHz, 2FSK
 Test Date: 2015-10-22
 Verdict: PASS
 Note 1: Procedure according to ANSI C63.10
 Note 2: Minimum 6 dB Bandwidth conducted



6 dB bandwidth: 611.1 KHz > 500 KHz; verdict: PASS
 Date: 22.OCT.2015 09:09:39

Test Report No.: GOM-1509-5067-TFC247DT-V01

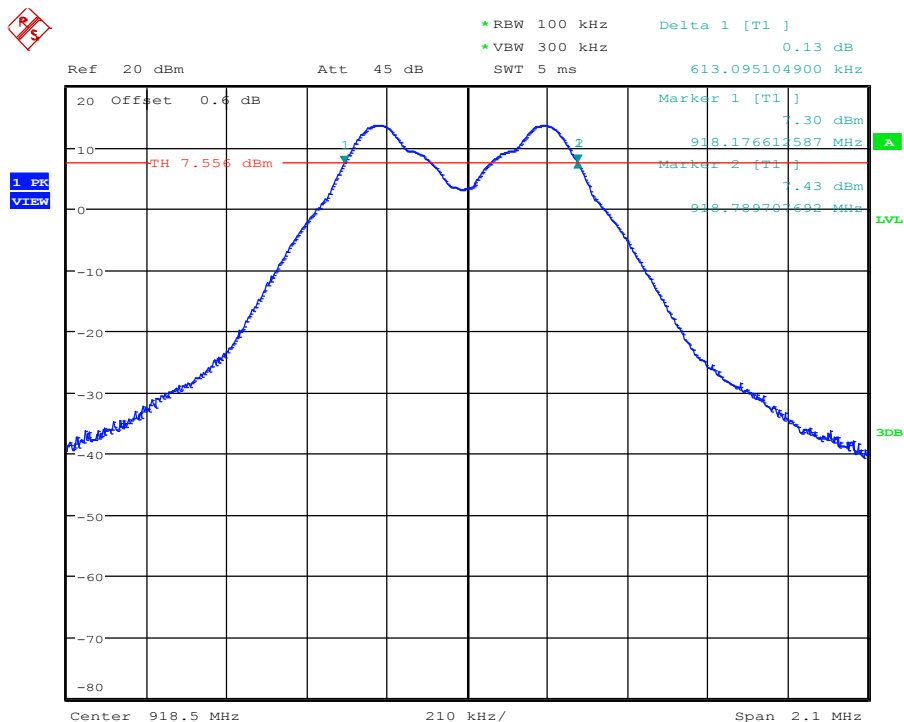
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

6dB Bandwidth – F_{HIGH}

Minimum 6 dB Bandwidth acc. to FCC 15.247

Project Number: GOM-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, 918.5 MHz, 2FSK
 Test Date: 2015-10-22
 Verdict: PASS
 Note 1: Procedure according to ANSI C63.10
 Note 2: Minimum 6 dB Bandwidth conducted



6 dB bandwidth: 613.1 KHz > 500 KHz; verdict: PASS
 Date: 22.OCT.2015 09:11:18

Test Report No.: GOM-1509-5067-TFC247DT-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

3.3 Test Conditions and Results – Maximum peak conducted power

Maximum peak conducted power acc. to FCC 15.247 / IC RSS-247					Verdict: PASS		
EUT requirement rule parts and clause		Reference					
		FCC 15.247(b)(3) / IC RSS-247 5.4					
Test according to measurement reference		Reference Method					
		ANSI C63.10					
Test frequency range		Tested frequencies					
		F _{LOW} , F _{MID} , F _{HIGH}					
EUT test mode		TX					
Measurement mode		Peak					
Maximum antenna gain		1 dBi ⇒ Limit correction = 0 dB					
Limits							
1W (30dBm)							
The conducted output power limit specified above is based on the use of antennas with directional gains that do not exceed 6dBi. If transmitting antennas of directional gain greater than 6dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in the table, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6dBi.							
Test setup							
Spectrum Analyzer EUT							
Test procedure							
1. EUT set to test mode (Communication tester is used if needed) 2. Center frequency set to test channel center frequency 3. Span is set to be larger than the 6 dB bandwidth and RBW is set to be at least the 6 dB bandwidth 4. Peak output power is determined from the maximum of the emission envelope							
Test results							
Channel	Frequency [MHz]	Voltage	Peak power [dBm]	Peak power [W]	Limit [dBm]	Margin [dB]	Result
F _{LOW}	912.5	*3.6 VDC	13.84	0.024	30	-16.16	PASS
F _{MID}	915	3.6 VDC	13.78	0.024	30	-16.22	PASS
F _{HIGH}	918.5	3.6 VDC	13.69	0.023	30	-16.31	PASS
F _{LOW}	912.5	3.0 VDC	13.03	0.020	30	-16.97	PASS
F _{MID}	915	3.0 VDC	12.98	0.020	30	-17.02	PASS
F _{HIGH}	918.5	3.0 VDC	12.90	0.019	30	-17.10	PASS
Comments: *V _{nom} = V _{max}							

Test Report No.: GOM-1509-5067-TFC247DT-V01

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

3.4 Test Conditions and Results – Power spectral density

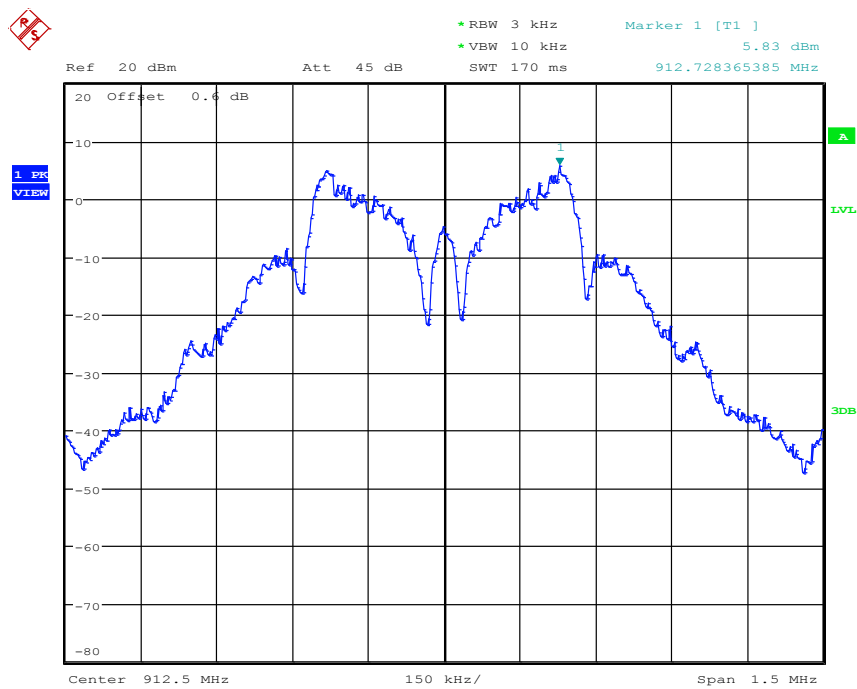
Power spectral density acc. to FCC 15.247 / IC RSS-247						Verdict: PASS	
EUT requirement rule parts and clause			Reference				
			FCC 15.247(e) / IC RSS-247 5.2				
Test according to measurement reference			Reference Method				
			ANSI C63.10				
Test frequency range			Tested frequencies				
			F _{LOW} , F _{MID} , F _{HIGH}				
EUT test mode			TX				
Measurement mode			Peak				
Limits							
8 dBm / 3 kHz							
Test setup							
Spectrum Analyzer EUT							
Test procedure							
1. EUT set to test mode (Communication tester is used if needed) 2. Center frequency set to test channel center frequency 3. Span is set large enough to capture maximum emissions in passband, RBW is set to 3 kHz 4. Peak power density is determined from peak emission of envelope							
Test results							
Channel	Frequency [MHz]	Voltage	Peak frequency [MHz]	Peak power density [dBm]	Limit [dBm/3kHz]	Margin [dB]	Result
F _{LOW}	912.5	3.6 VDC	912.728	5.83	8.0	-02.17	PASS
F _{MID}	915	3.6 VDC	915.214	5.59	8.0	-02.41	PASS
F _{HIGH}	918.5	3.6 VDC	918.712	5.10	8.0	-02.90	PASS
Comments:							

Power spectral density – F_{LOW}

Power spectral density acc. to FCC 15.247

Project Number: G0M-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Handrik
 Test Conditions: Tnom / Vnom
 Mode: TX, 912.5 MHz, 2FSK
 Test Date: 2015-10-22
 Verdict: PASS
 Note 1: Procedure according to ANSI C63.10
 Note 2: Power spectral density conducted



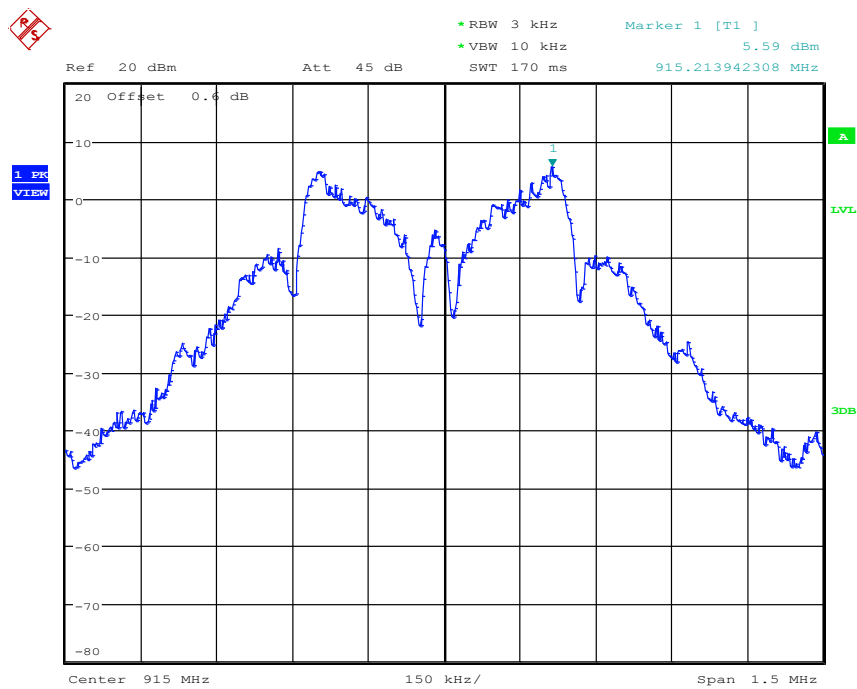
Maximum Power Spectral Density=5.83dBm
 f=912.728 MHz RBW= 3kHz , Limit <8dBm/3kHz
 Date: 22.OCT.2015 08:55:57

Power spectral density – F_{MD}

Power spectral density acc. to FCC 15.247

Project Number: G0M-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, 915 MHz, 2FSK
 Test Date: 2015-10-22
 Verdict: PASS
 Note 1: Procedure according to ANSI C63.10
 Note 2: Power spectral density conducted



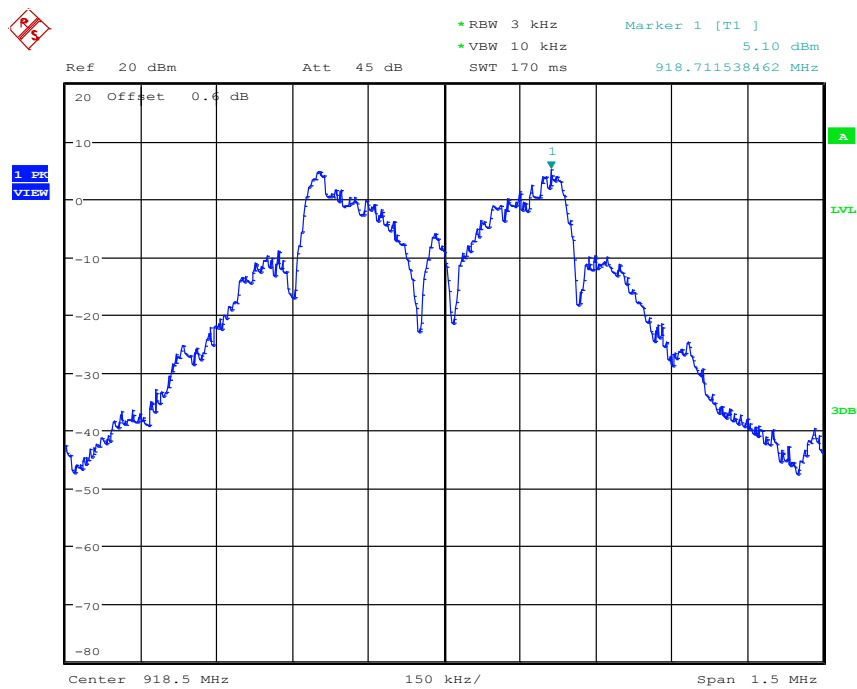
Maximum Power Spectral Density=5.59dBm
 f=915.214 MHz RBW= 3kHz , Limit <8dBm/3kHz
 Date: 22.OCT.2015 08:58:02

Power spectral density – F_{HIGH}

Power spectral density acc. to FCC 15.247

Project Number: G0M-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, 918.5 MHz, 2FSK
 Test Date: 2015-10-22
 Verdict: PASS
 Note 1: Procedure according to ANSI C63.10
 Note 2: Power spectral density conducted



Maximum Power Spectral Density=5.1dBm
 f=918.712 MHz RBW= 3kHz , Limit <8dBm/3kHz
 Date: 22.OCT.2015 08:59:49

3.5 Test Conditions and Results – Band edge compliance

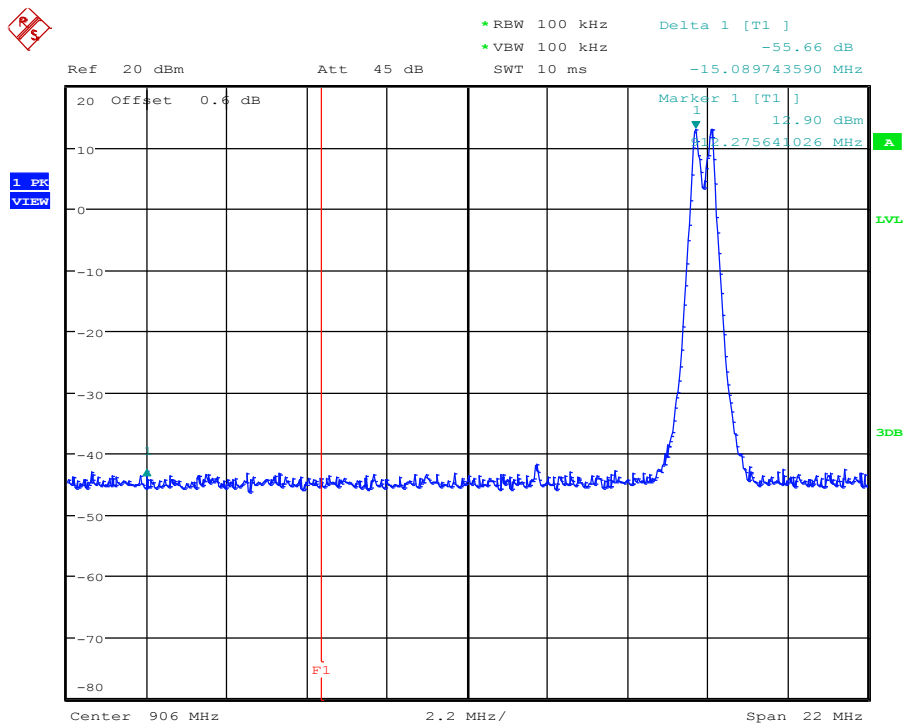
Band-edge compliance acc. to FCC 15.247 / IC RSS-247					Verdict: PASS	
EUT requirement rule parts and clause		Reference				
		FCC 15.247(d) / IC RSS-247 5.5				
Test according to measurement reference		Reference Method				
		ANSI C63.10				
Test frequency range		Tested frequencies				
		F _{LOW} , F _{HIGH}				
EUT test mode		TX				
Limits						
Limit			Condition			
≤ -20 dB / 100 kHz			Peak power measurement detector = Peak			
≤ -30 dB / 100 kHz			Peak power measurement detector = RMS			
Test setup						
Spectrum Analyzer EUT						
Test procedure						
1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels within frequency band and outside frequency band 5. Band edge attenuation is determined from level difference						
Test results						
Channel	Frequency [MHz]	Mode	Level [dBc]	Limit [dBc]	Margin [dB]	Result
F _{LOW}	912.5	Single	-55.66	-20	-35.66	PASS
F _{HIGH}	918.5	Single	-54.97	-20	-34.97	PASS
Comments:						

Band-edge compliance – F_{Low} – Lower Edge

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1509-5067

Applicant: Kamstrup A/S
EUT Name: READy Gateway for Siemens MAG8000 [Us]
Model: READy Gateway
Test Site: Eurofins Product Service GmbH
Operator: Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, 912.5 MHz, 2FSK
Test Date: 2015-10-22
Verdict: PASS
Note 1: Reference Method according to ANSI C63.10
Note 2: lower Band-edge, conducted measurement



Limit: Marker Delta value >20 dB; Result: PASS

Date: 22.OCT.2015 09:23:40

Test Report No.: G0M-1509-5067-TFC247DT-V01

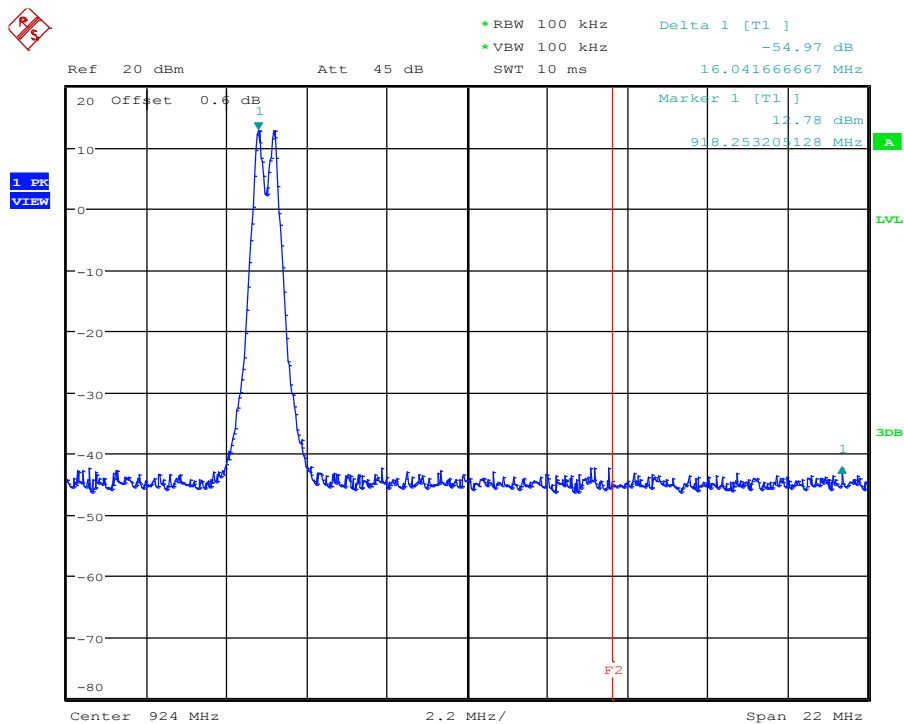
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Band-edge compliance – F_{HIGH} – Upper Edge

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1509-5067

Applicant: Kamstrup A/S
EUT Name: READY Gateway for Siemens MAG8000 [Us]
Model: READY Gateway
Test Site: Eurofins Product Service GmbH
Operator: Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, 918.5 MHz, 2FSK
Test Date: 2015-10-22
Verdict: PASS
Note 1: Reference Method according to ANSI C63.10
Note 2: lower Band-edge, conducted measurement



Limit: Marker Delta value >20 dB; Result: PASS

Date: 22.OCT.2015 09:24:54

Test Report No.: G0M-1509-5067-TFC247DT-V01

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

3.6 Test Conditions and Results – Conducted spurious emissions

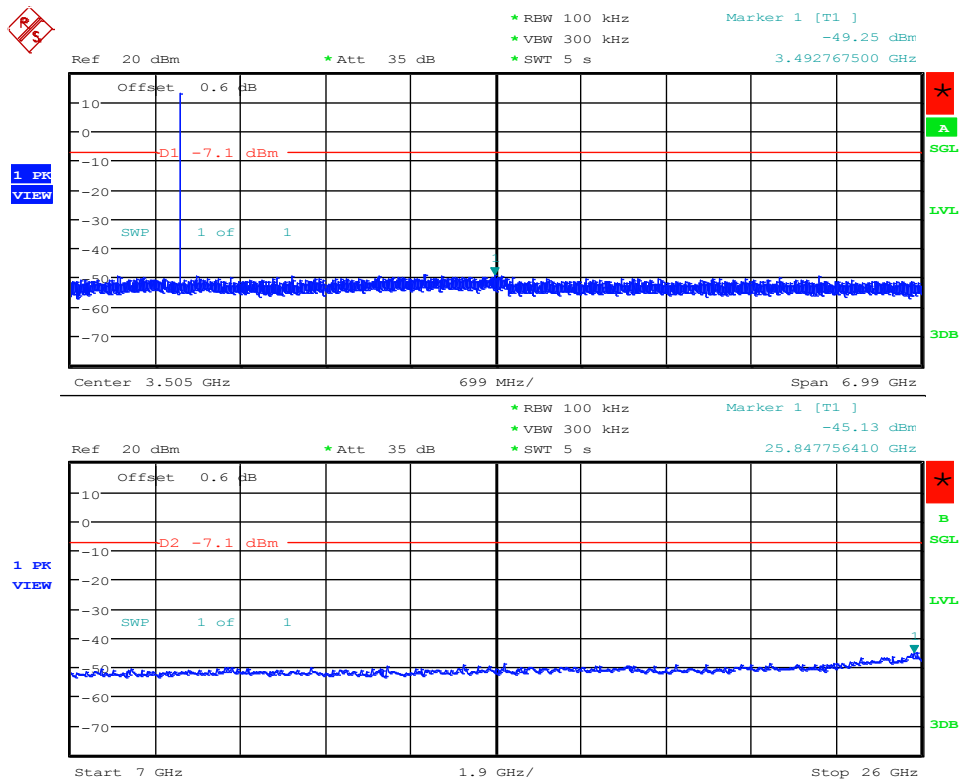
Conducted spurious emissions acc. to FCC 15.247 / IC RSS-247						Verdict: PASS	
EUT requirement rule parts and clause			Reference				
			FCC 15.247(d) / IC RSS-247 5.5				
Test according to measurement reference			Reference Method				
			ANSI C63.10				
Test frequency range			Tested frequencies				
			10 MHz – 10 th Harmonic				
EUT test mode			TX				
Limits							
Limit				Condition			
≤ -20 dB / 100 kHz				Peak power measurement detector = Peak			
≤ -30 dB / 100 kHz				Peak power measurement detector = RMS			
Test setup							
Spectrum Analyzer EUT							
Test procedure							
1. EUT set to test mode (Communication tester is used if needed) 2. Span it set according to measurement range 3. Resolution bandwidth is set to 100 kHz and detector to peak and max hold 4. Markers are set to peak emission levels within frequency band 5. Emission level is determined by second marker on emission peak 6. Attenuation is determined from level difference							
Test results							
Channel	Frequency [MHz]	Emission [MHz]	Emission Level [dBm]	Peak power [dBm]	Limit [dBm]	Margin [dB]	Result
F _{LOW}	912.5	25848	-45.13	12.9	-7.1	-38.03	PASS
F _{HIGH}	918.5	25696	-45.23	12.7	-7.3	-37.93	PASS
Comments:							

Conducted spurious emissions – F_{Low}

Spurious Emissions acc. to FCC 15.247

Project Number: GOM-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, 912.5 MHz, 2FSK
 Test Date: 2015-10-22
 Verdict: PASS
 Note 1: Spurious in non-restricted frequency bands (ANSI C63.10)
 Note 2: conducted measurement



Date: 22.OCT.2015 09:32:04

Test Report No.: GOM-1509-5067-TFC247DT-V01

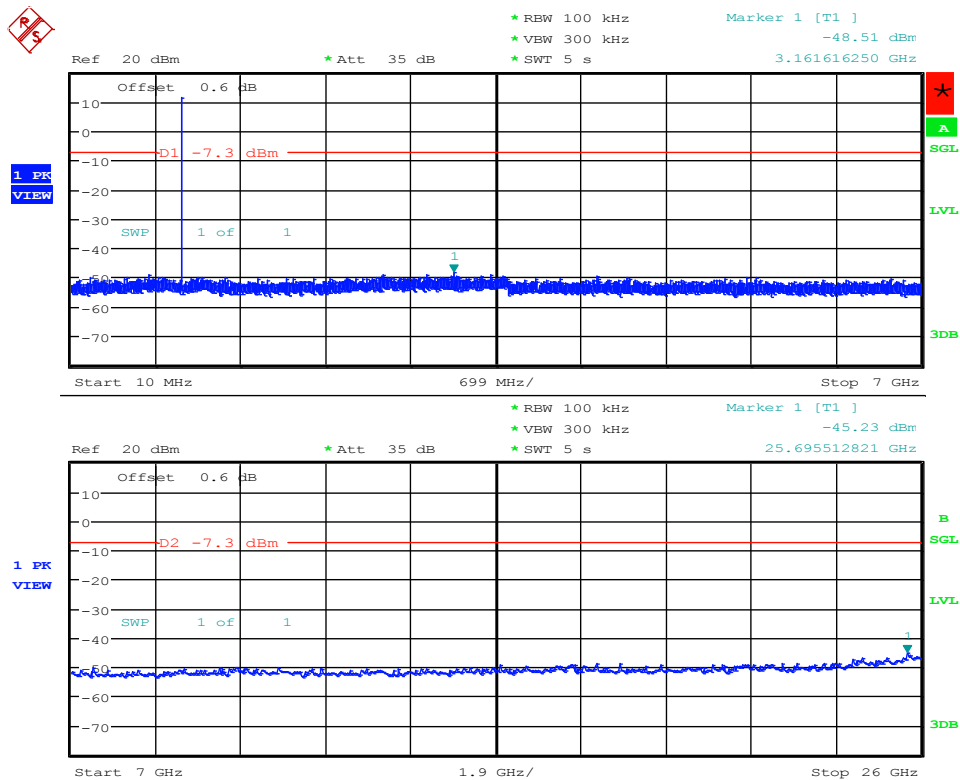
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted spurious emissions – F_{HIGH}

Spurious Emissions acc. to FCC 15.247

Project Number: GOM-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, 918.5 MHz, 2FSK
 Test Date: 2015-10-22
 Verdict: PASS
 Note 1: Spurious in non-restricted frequency bands (ANSI C63.10)
 Note 2: conducted measurement

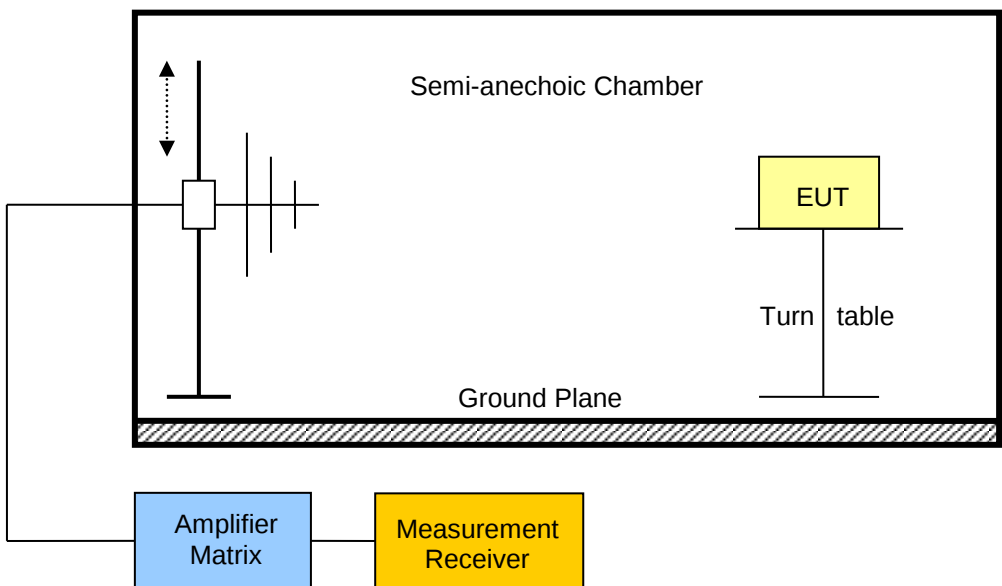


Date: 22.OCT.2015 09:29:36

Test Report No.: GOM-1509-5067-TFC247DT-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

3.7 Test Conditions and Results – Transmitter radiated emissions

Transmitter radiated emissions acc. to FCC 47 CFR 15.247 / IC RSS-247				Verdict: PASS
Test according referenced standards	Reference Method			
	FCC 15.247(d) / IC RSS-247 5.5			
Test according to measurement reference	Reference Method			
	ANSI C63.10			
Test frequency range	Tested frequencies			
	30 MHz – 10 th Harmonic			
EUT test mode	TX			
Limits				
Frequency range [MHz]	Detector	Limit [µV/m]	Limit [dBµV/m]	Limit Distance [m]
30 – 88	Quasi-Peak	100	40	3
88 – 216	Quasi-Peak	150	43.5	3
216 – 960	Quasi-Peak	200	46	3
960 – 1000	Quasi-Peak	500	54	3
> 1000	Average	500	54	3
Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)). When average radiated emission measurements are specified, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.				
Test setup				
				

Test Report No.: G0M-1509-5067-TFC247DT-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Test procedure								
1. EUT set to test mode (Communication tester is used if needed) 2. Span it set according to measurement range 3. Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz 4. Markers are set to peak emission levels within restricted bands								
Test results – Internal Antenna								
Channel	Frequency [MHz]	Emission [MHz]	Level [dBμV/m]	Detector	Pol.	Limit [dBμV/m]	Limit distance [m]*	Margin [dB]
F _{LOW}	912.5	2738	52.64	pk	ver	74.00	3	-21.36
F _{LOW}	912.5	2738	46.79	avg	ver	54.00	3	-07.21
F _{LOW}	912.5	2738	53.37	pk	hor	74.00	3	-20.63
F _{LOW}	912.5	2738	47.62	avg	hor	54.00	3	-06.38
F _{LOW}	912.5	3651	51.57	pk	ver	74.00	3	-22.43
F _{LOW}	912.5	3651	44.44	avg	ver	54.00	3	-09.56
F _{LOW}	912.5	3651	53.38	pk	hor	74.00	3	-20.62
F _{LOW}	912.5	3651	46.35	avg	hor	54.00	3	-07.65
F _{LOW}	912.5	4560	48.76	pk	ver	74.00	3	-25.24
F _{HIGH}	918.5	2755	51.55	pk	ver	74.00	3	-22.45
F _{HIGH}	918.5	2755	45.32	avg	ver	54.00	3	-08.68
F _{HIGH}	918.5	2755	53.03	pk	hor	74.00	3	-20.97
F _{HIGH}	918.5	2755	47.21	avg	hor	54.00	3	-06.79
F _{HIGH}	918.5	3673	52.79	pk	ver	74.00	3	-21.21
F _{HIGH}	918.5	3673	45.73	avg	ver	54.00	3	-08.27
F _{HIGH}	918.5	3675	54.85	pk	hor	74.00	3	-19.15
F _{HIGH}	918.5	3675	48.11	avg	hor	54.00	3	-05.89
F _{HIGH}	918.5	4584	48.06	pk	ver	74.00	3	-25.94
Comments: * Physical distance between EUT and measurement antenna.								

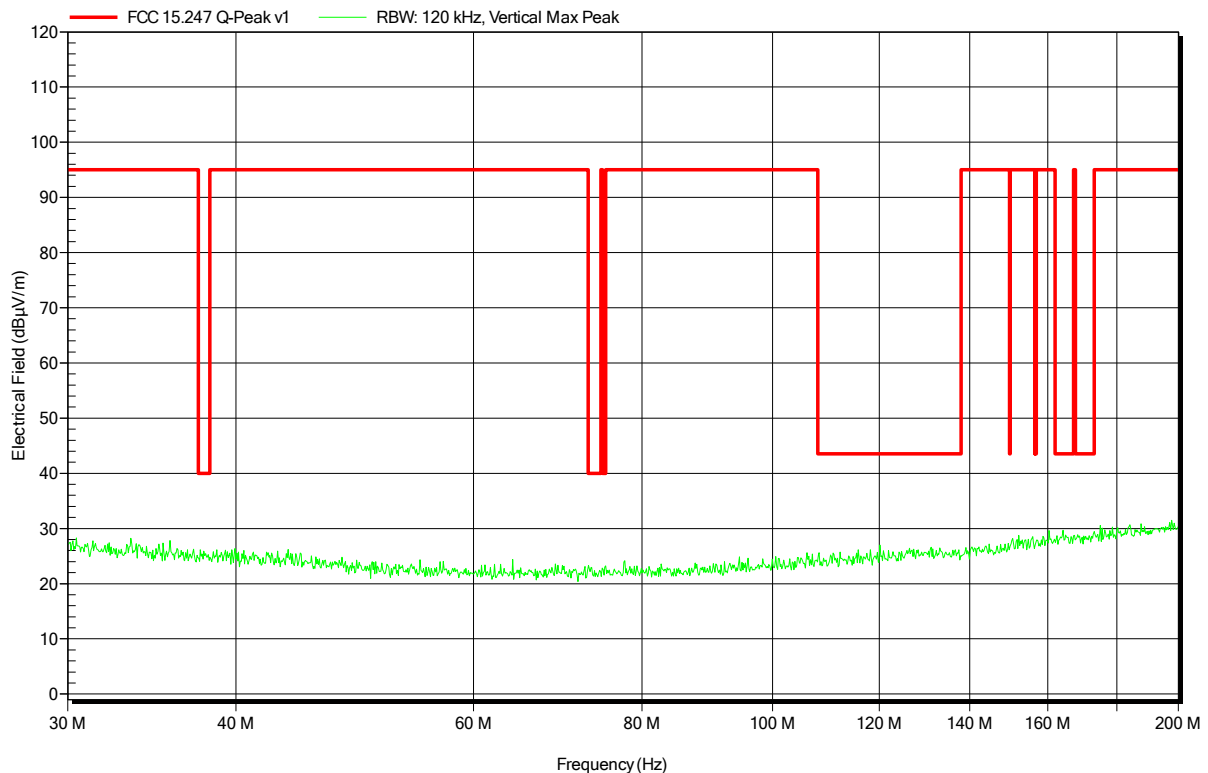
ANNEX A Transmitter radiated spurious emissions

Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant:	Kamstrup A/S
EUT Name:	READY Gateway for Siemens MAG8000 [Us]
Model:	READY Gateway
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.6 VDC (battery)
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; 912.5MHz, 2FSK
Test Date:	2015-10-22
Note:	EUT horizontal

Index 1

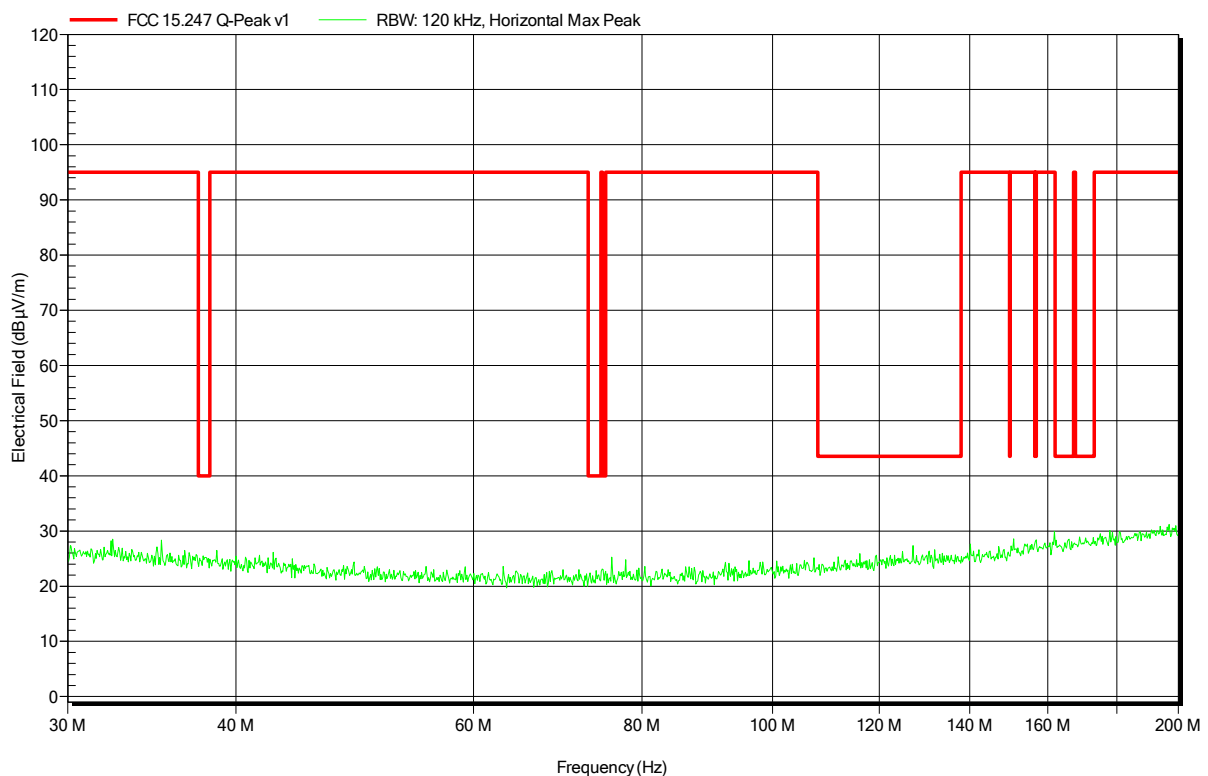


Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant:	Kamstrup A/S
EUT Name:	READY Gateway for Siemens MAG8000 [Us]
Model:	READY Gateway
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.6 VDC (battery)
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; 912.5MHz, 2FSK
Test Date:	2015-10-22
Note:	EUT horizontal

Index 2

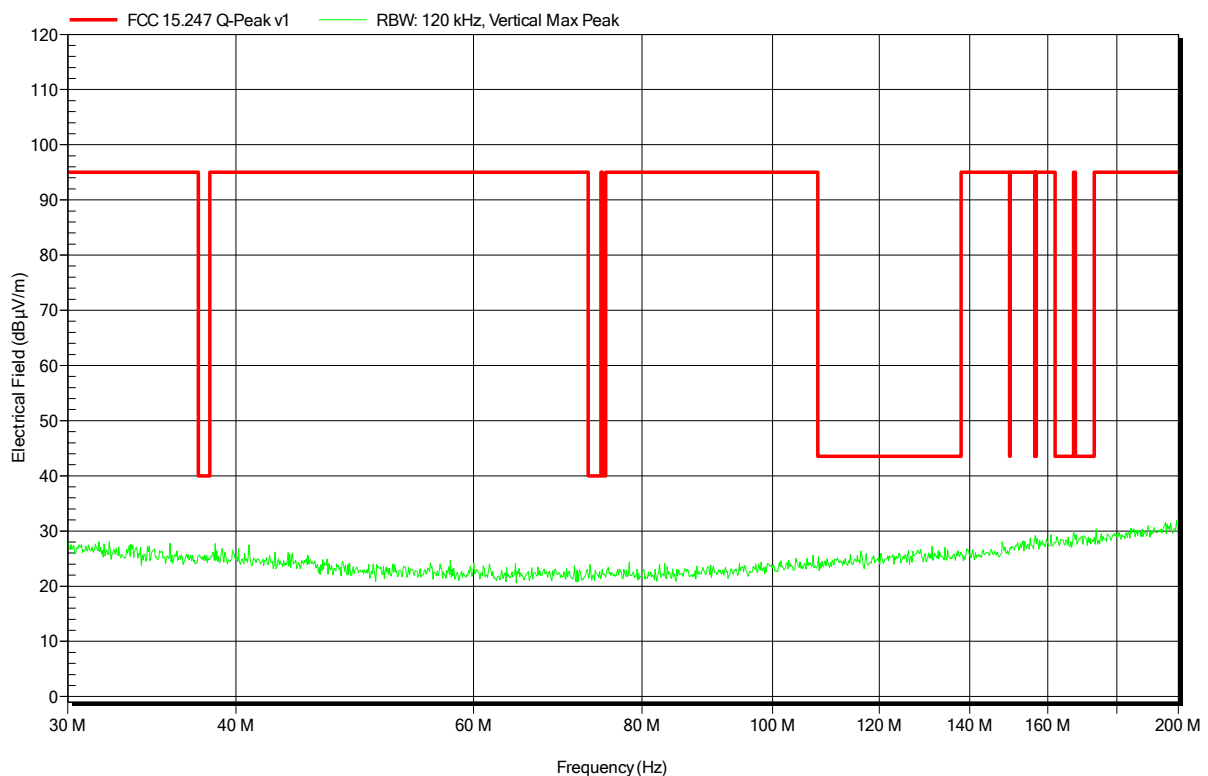


Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant:	Kamstrup A/S
EUT Name:	READy Gateway for Siemens MAG8000 [Us]
Model:	READy Gateway
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.6 VDC (battery)
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; 918.5MHz, 2FSK
Test Date:	2015-10-22
Note:	EUT horizontal

Index 4

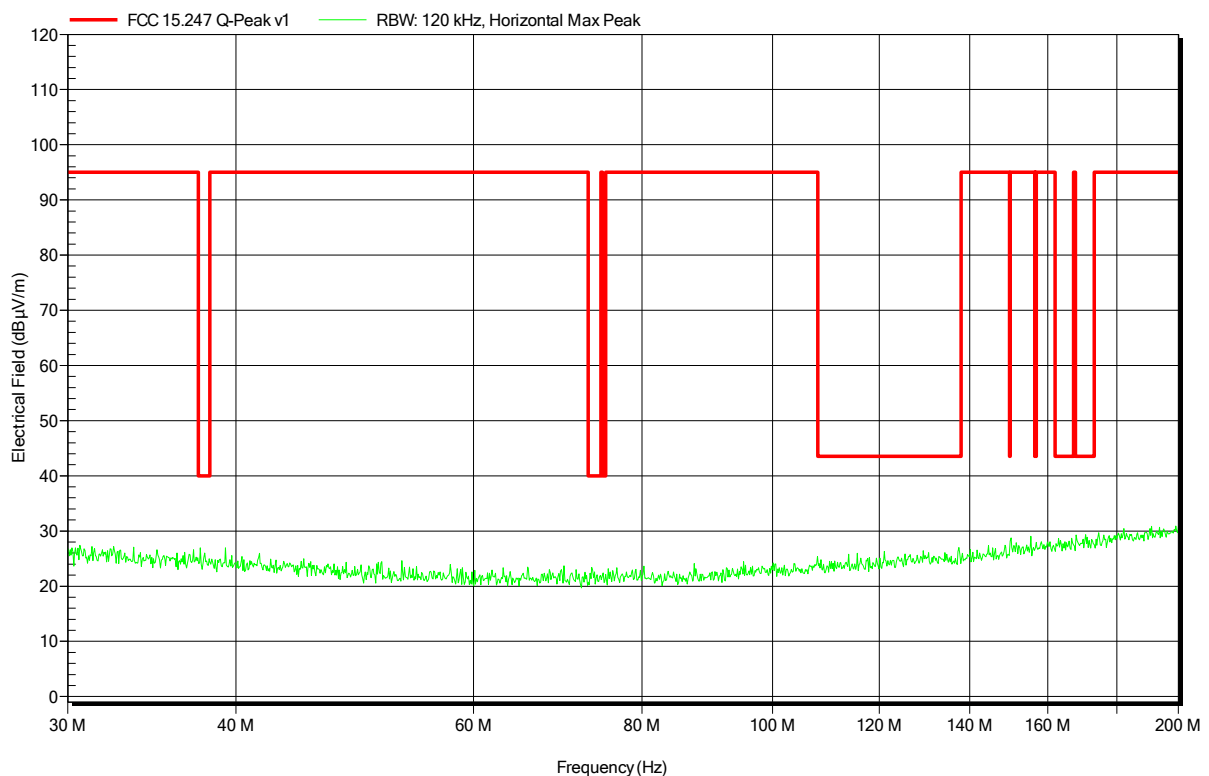


Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant:	Kamstrup A/S
EUT Name:	READY Gateway for Siemens MAG8000 [Us]
Model:	READY Gateway
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.6 VDC (battery)
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; 918.5MHz, 2FSK
Test Date:	2015-10-22
Note:	EUT horizontal

Index 3

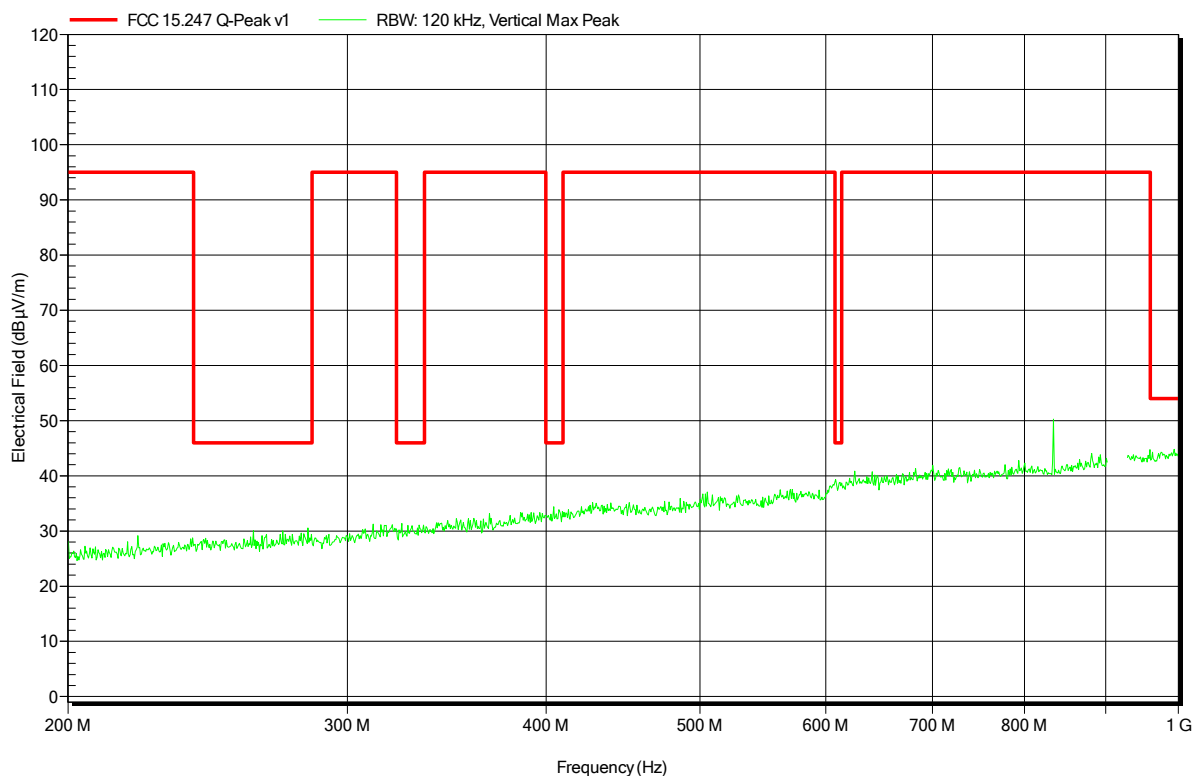


Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant:	Kamstrup A/S
EUT Name:	READY Gateway for Siemens MAG8000 [Us]
Model:	READY Gateway
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.6 VDC (battery)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; 912.5MHz, 2FSK
Test Date:	2015-10-22
Note:	EUT horizontal

Index 9

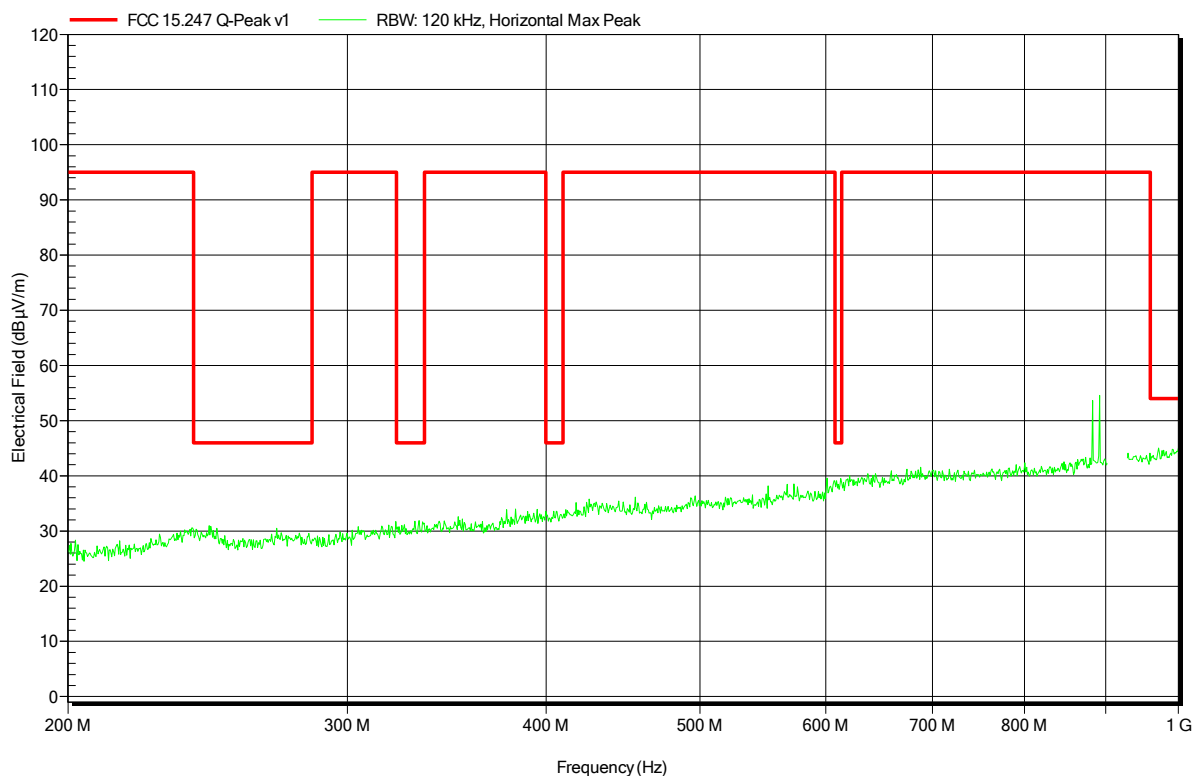


Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant:	Kamstrup A/S
EUT Name:	READY Gateway for Siemens MAG8000 [Us]
Model:	READY Gateway
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.6 VDC (battery)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; 912.5MHz, 2FSK
Test Date:	2015-10-22
Note:	EUT horizontal

Index 8

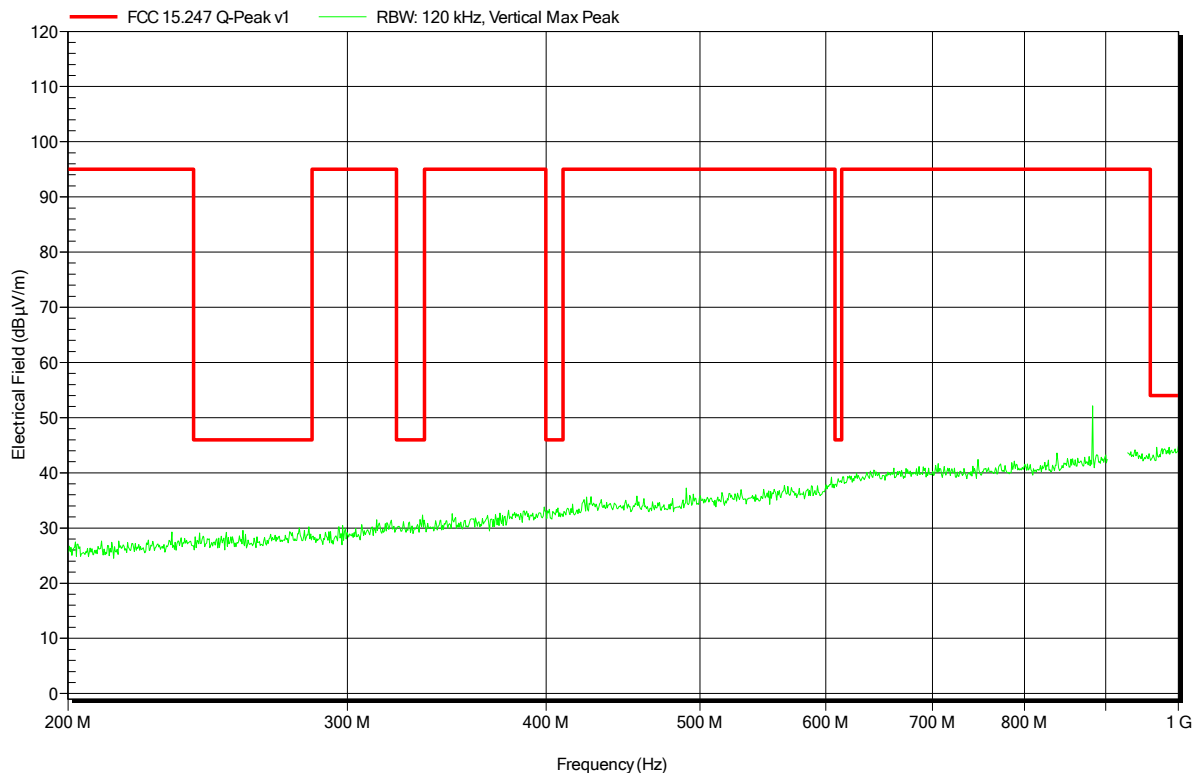


Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant:	Kamstrup A/S
EUT Name:	READY Gateway for Siemens MAG8000 [Us]
Model:	READY Gateway
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.6 VDC (battery)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; 918.5MHz, 2FSK
Test Date:	2015-10-22
Note:	EUT horizontal

Index 5

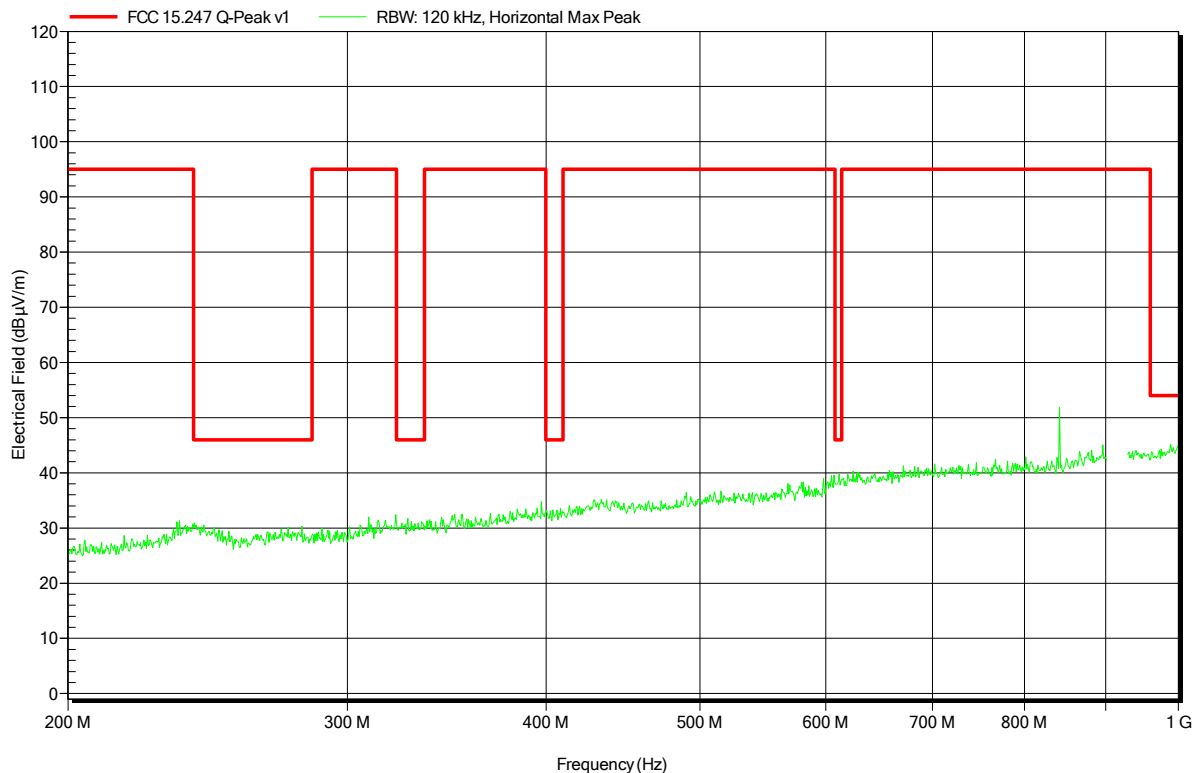


Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant:	Kamstrup A/S
EUT Name:	READY Gateway for Siemens MAG8000 [Us]
Model:	READY Gateway
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.6 VDC (battery)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; 918.5MHz, 2FSK
Test Date:	2015-10-22
Note:	EUT horizontal

Index 7

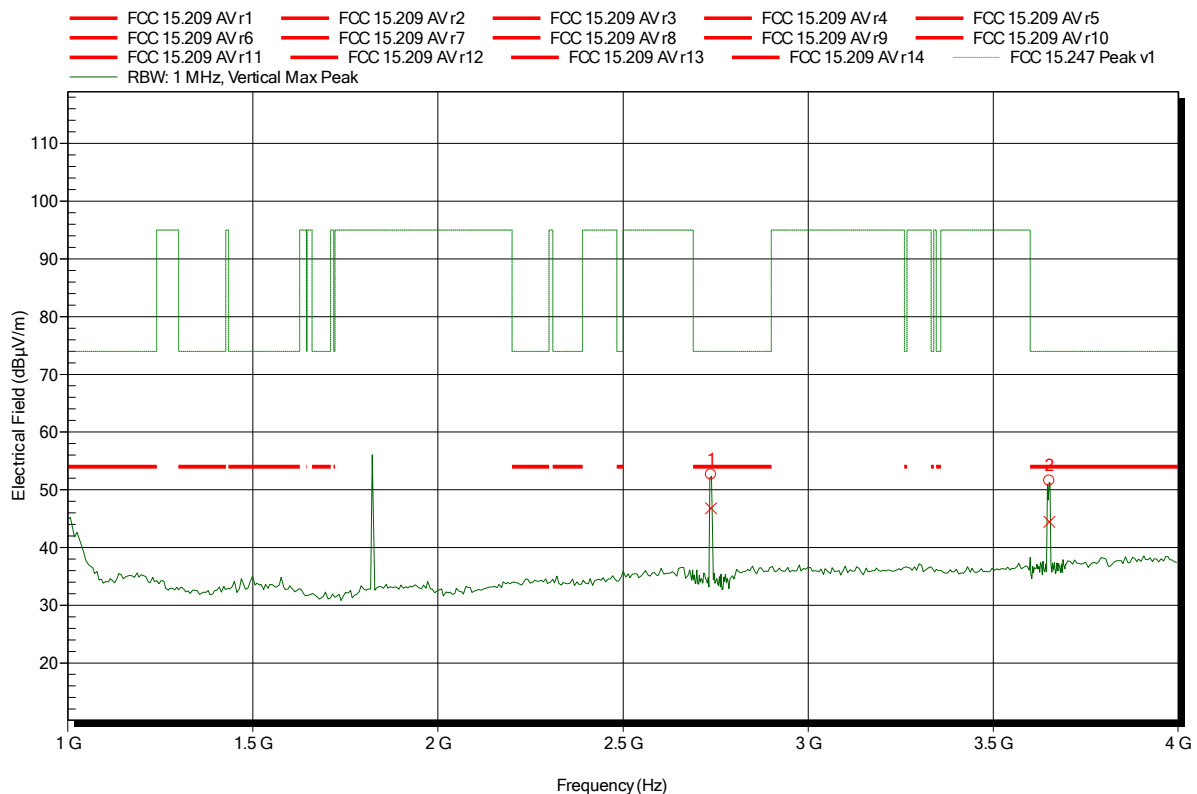


Spurious emissions according to FCC 15.247

Project number: GOM-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.6 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; 912.5MHz, 2FSK
 Test Date: 2015-10-22
 Note: EUT horizontal

Index 1



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.738 GHz	52.64 dBµV/m	74 dBµV/m	-21.36 dB	Pass
3.651 GHz	51.57 dBµV/m	74 dBµV/m	-22.43 dB	Pass

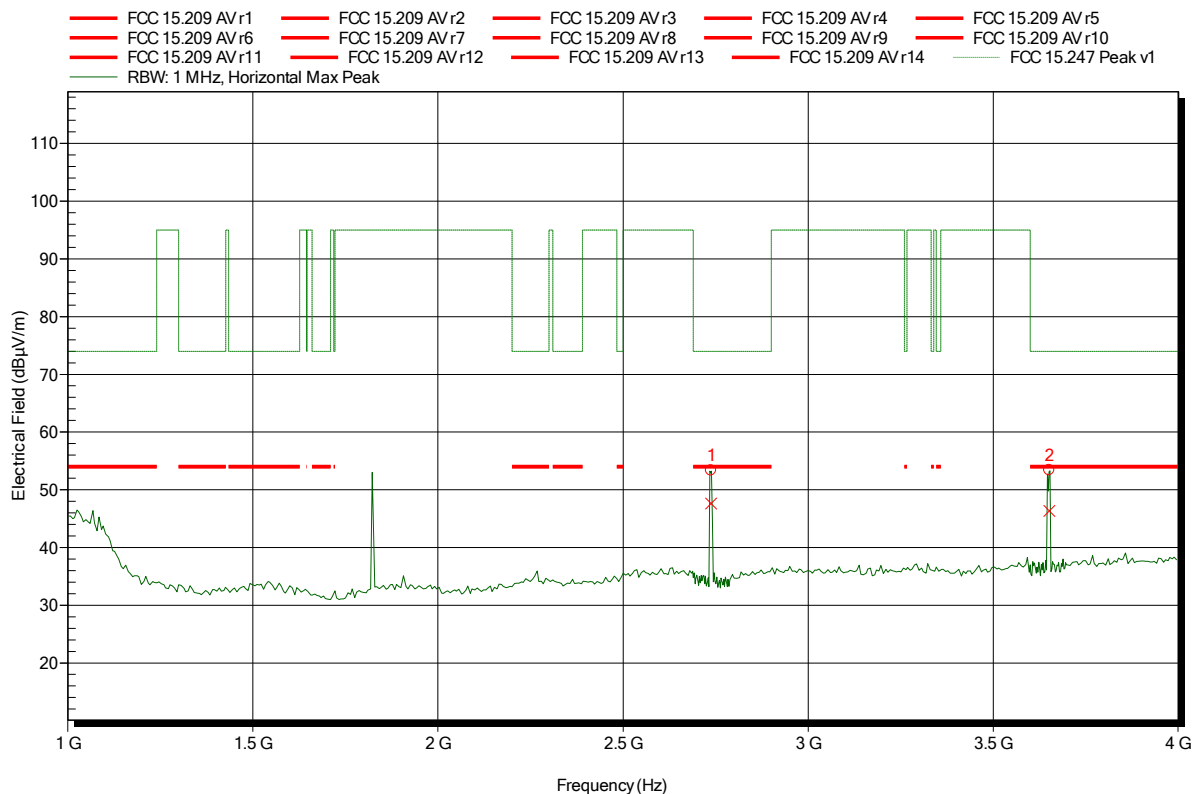
Frequency	Average	Average Limit	Average Difference	Average Status
2.738 GHz	46.79 dBµV/m	54 dBµV/m	-7.21 dB	Pass
3.651 GHz	44.44 dBµV/m	54 dBµV/m	-9.56 dB	Pass

Spurious emissions according to FCC 15.247

Project number: GOM-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.6 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; 912.5MHz, 2FSK
 Test Date: 2015-10-22
 Note: EUT horizontal

Index 2



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.738 GHz	53.37 dBμV/m	74 dBμV/m	-20.63 dB	Pass
3.651 GHz	53.38 dBμV/m	74 dBμV/m	-20.62 dB	Pass

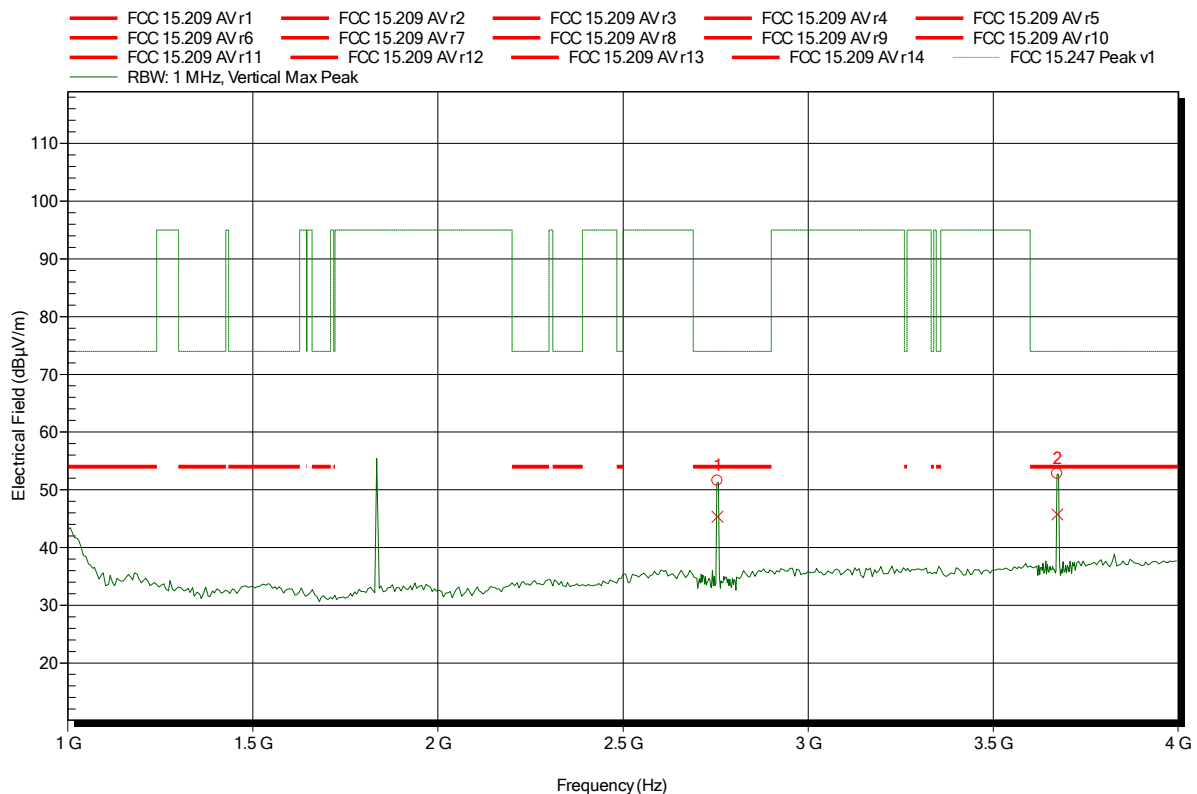
Frequency	Average	Average Limit	Average Difference	Average Status
2.738 GHz	47.62 dBμV/m	54 dBμV/m	-6.38 dB	Pass
3.651 GHz	46.35 dBμV/m	54 dBμV/m	-7.65 dB	Pass

Spurious emissions according to FCC 15.247

Project number: GOM-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.6 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; 918.5MHz, 2FSK
 Test Date: 2015-10-22
 Note: EUT horizontal

Index 5



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.755 GHz	51.55 dBμV/m	74 dBμV/m	-22.45 dB	Pass
3.673 GHz	52.79 dBμV/m	74 dBμV/m	-21.21 dB	Pass

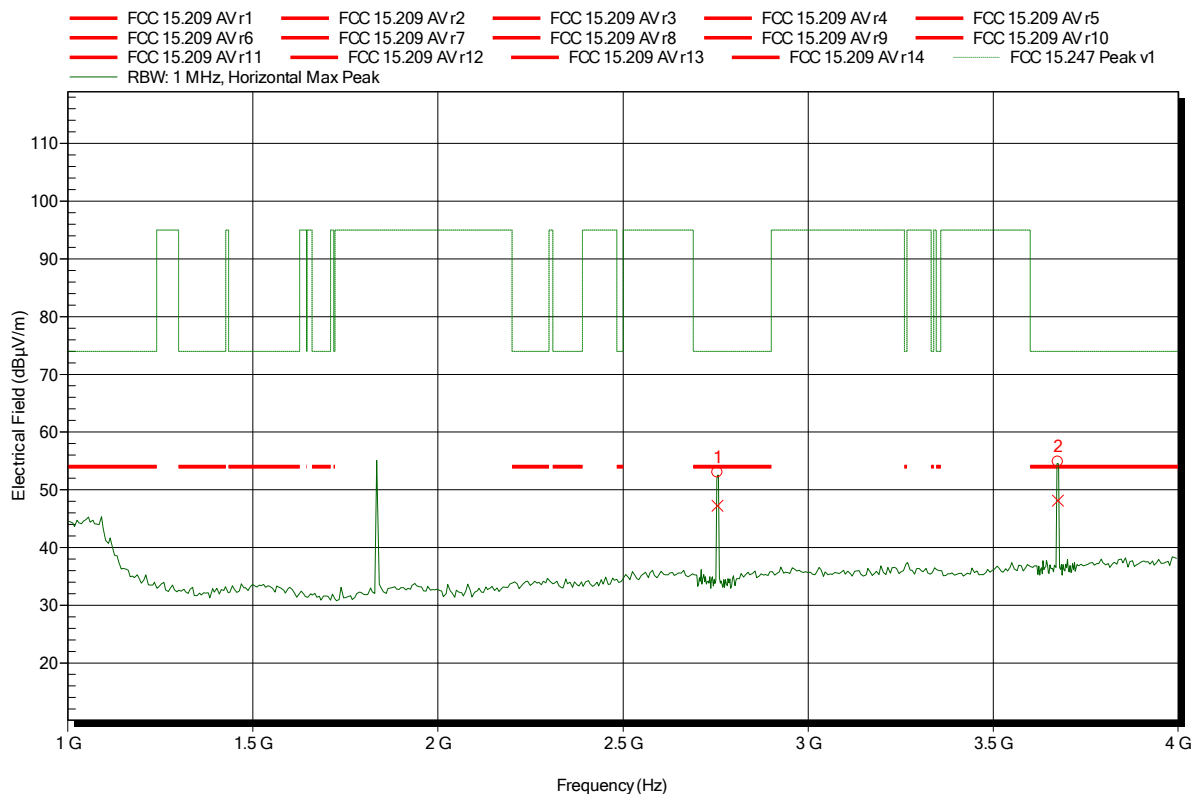
Frequency	Average	Average Limit	Average Difference	Average Status
2.755 GHz	45.32 dBμV/m	54 dBμV/m	-8.68 dB	Pass
3.673 GHz	45.73 dBμV/m	54 dBμV/m	-8.27 dB	Pass

Spurious emissions according to FCC 15.247

Project number: GOM-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.6 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; 918.5MHz, 2FSK
 Test Date: 2015-10-22
 Note: EUT horizontal

Index 6



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.755 GHz	53.03 dBμV/m	74 dBμV/m	-20.97 dB	Pass
3.675 GHz	54.85 dBμV/m	74 dBμV/m	-19.15 dB	Pass

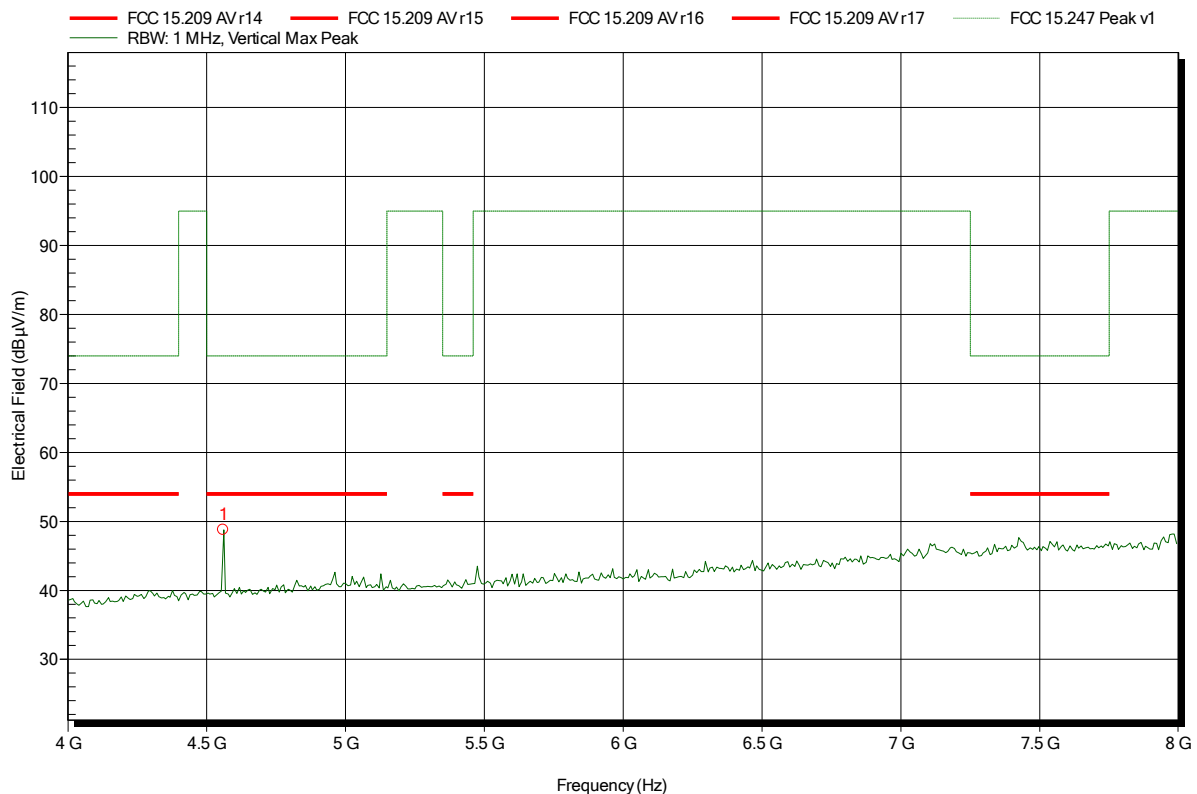
Frequency	Average	Average Limit	Average Difference	Average Status
2.755 GHz	47.21 dBμV/m	54 dBμV/m	-6.79 dB	Pass
3.675 GHz	48.11 dBμV/m	54 dBμV/m	-5.89 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.6 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; 912.5MHz, 2FSK
 Test Date: 2015-10-22
 Note: EUT horizontal

Index 10



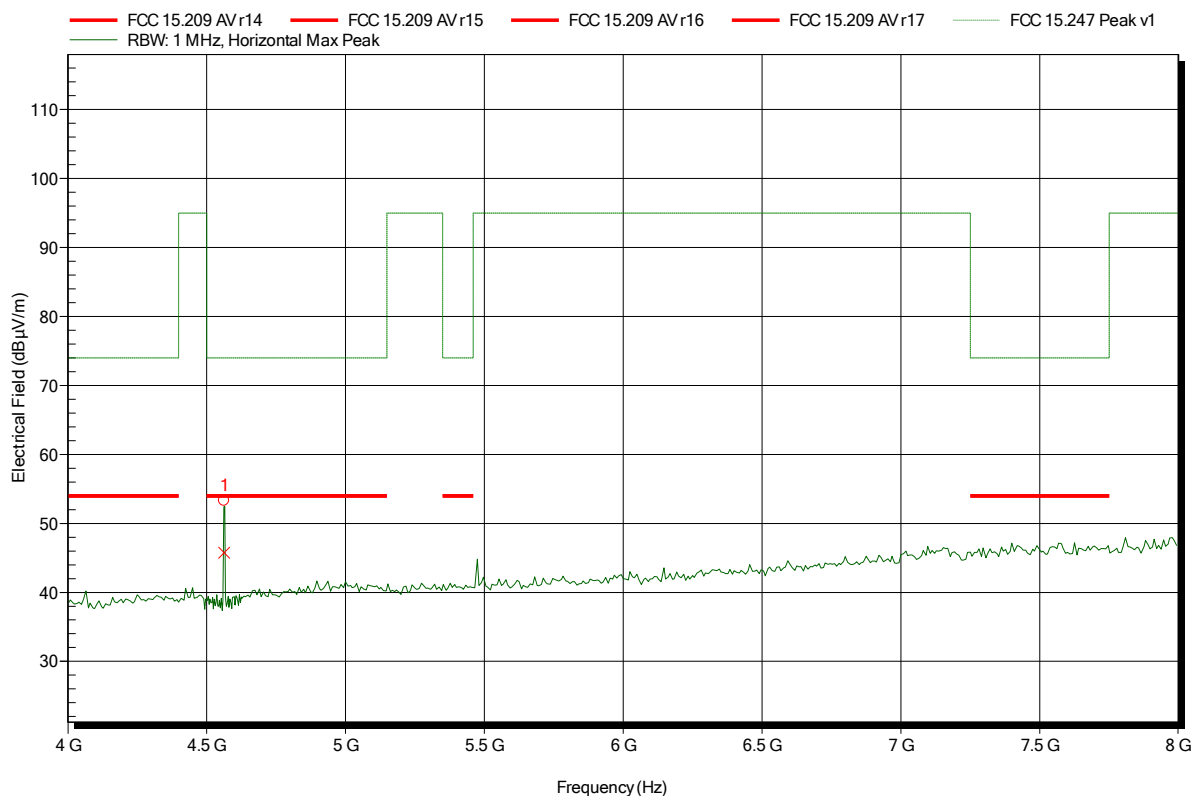
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.56 GHz	48.76 dBµV/m	74 dBµV/m	-25.24 dB	Pass

Spurious emissions according to FCC 15.247

Project number: GOM-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.6 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; 912.5MHz, 2FSK
 Test Date: 2015-10-22
 Note: EUT horizontal

Index 11



Frequency 4.564 GHz	Peak 53.3 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -20.7 dB	Peak Status Pass
Frequency 4.564 GHz	Average 45.76 dBµV/m	Average Limit 54 dBµV/m	Average Difference -8.24 dB	Average Status Pass

Test Report No.: GOM-1509-5067-TFC247DT-V01

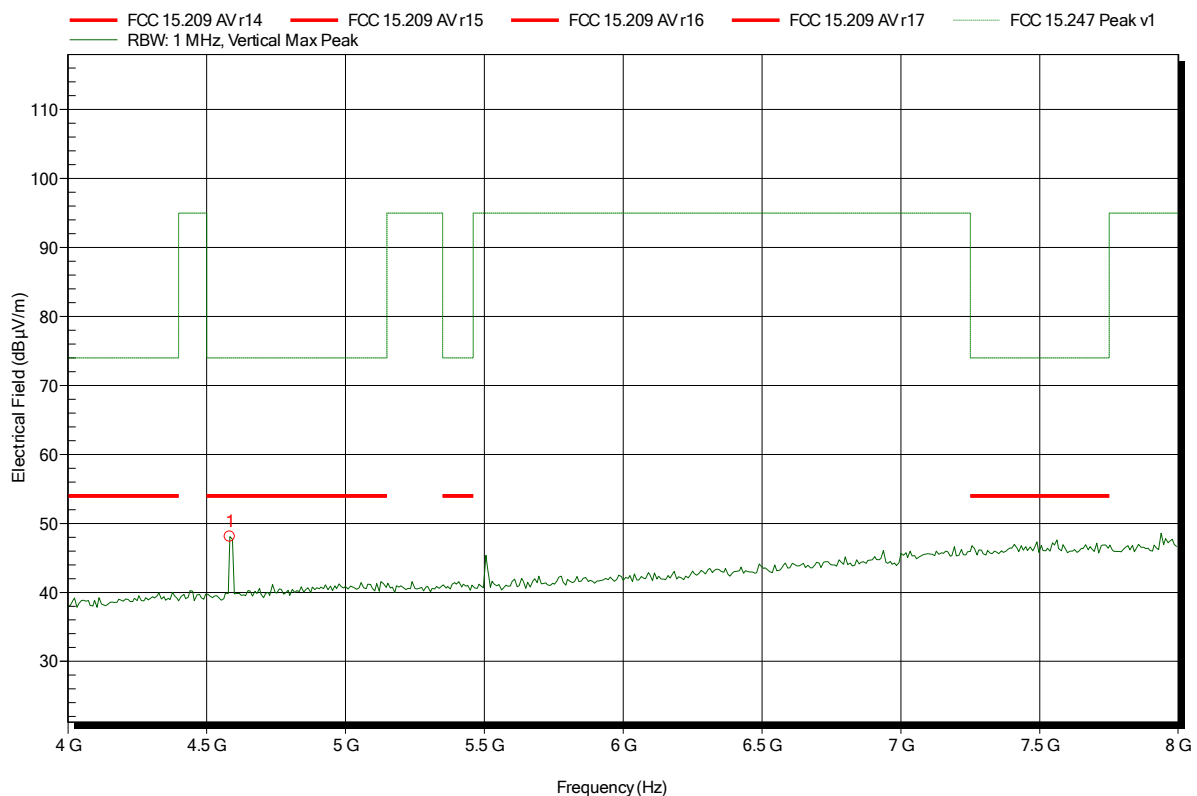
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.6 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; 918.5MHz, 2FSK
 Test Date: 2015-10-22
 Note: EUT horizontal

Index 9



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.584 GHz	48.06 dBµV/m	74 dBµV/m	-25.94 dB	Pass

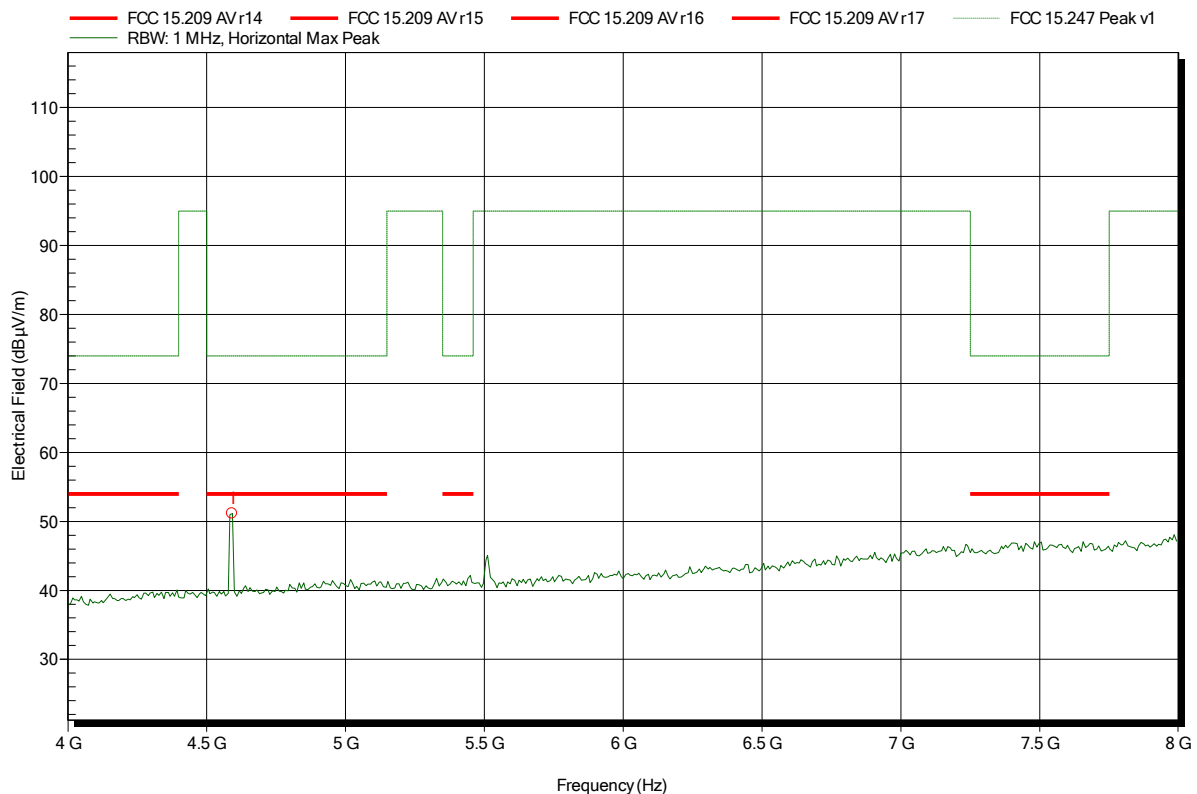
Frequency
4.584 GHz

Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.6 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; 918.5MHz, 2FSK
 Test Date: 2015-10-22
 Note: EUT horizontal

Index 7



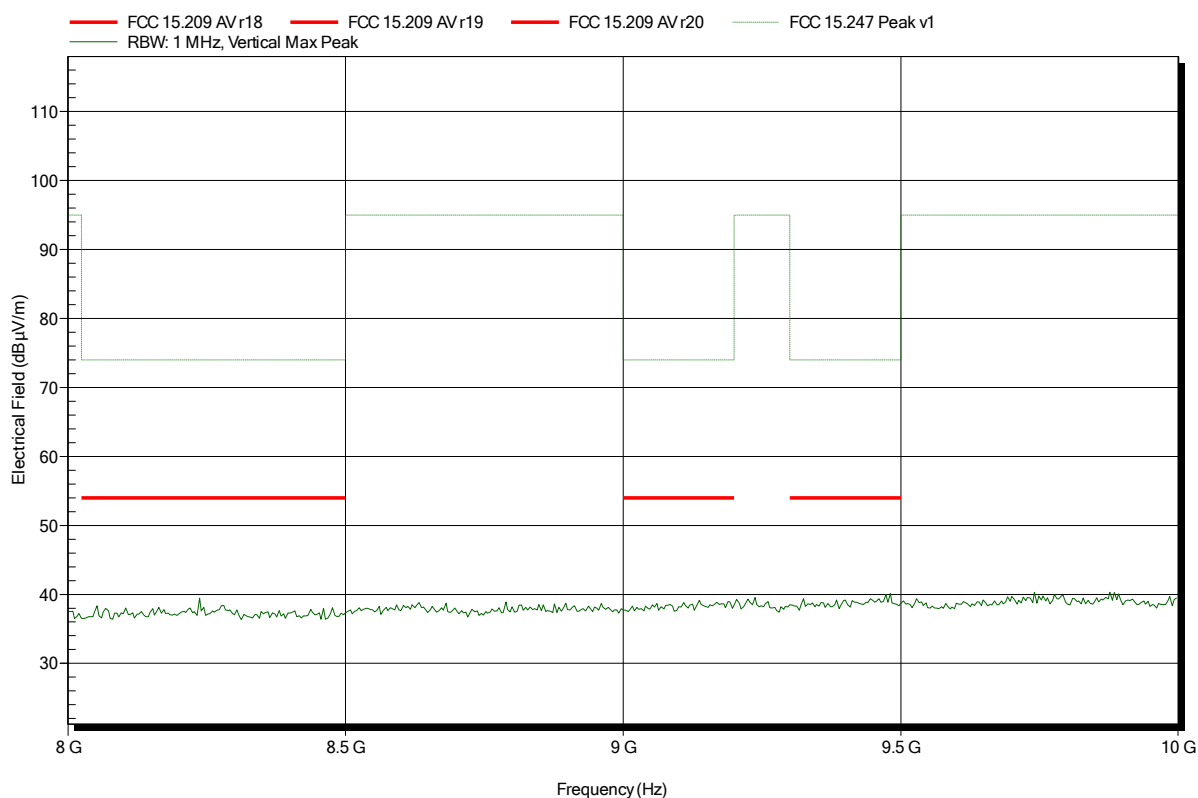
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.592 GHz	51.16 dBµV/m	74 dBµV/m	-22.84 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant: Kamstrup A/S
 EUT Name: REAdy Gateway for Siemens MAG8000 [Us]
 Model: REAdy Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.6 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; 912.5MHz, 2FSK
 Test Date: 2015-10-22
 Note: EUT horizontal

Index 13

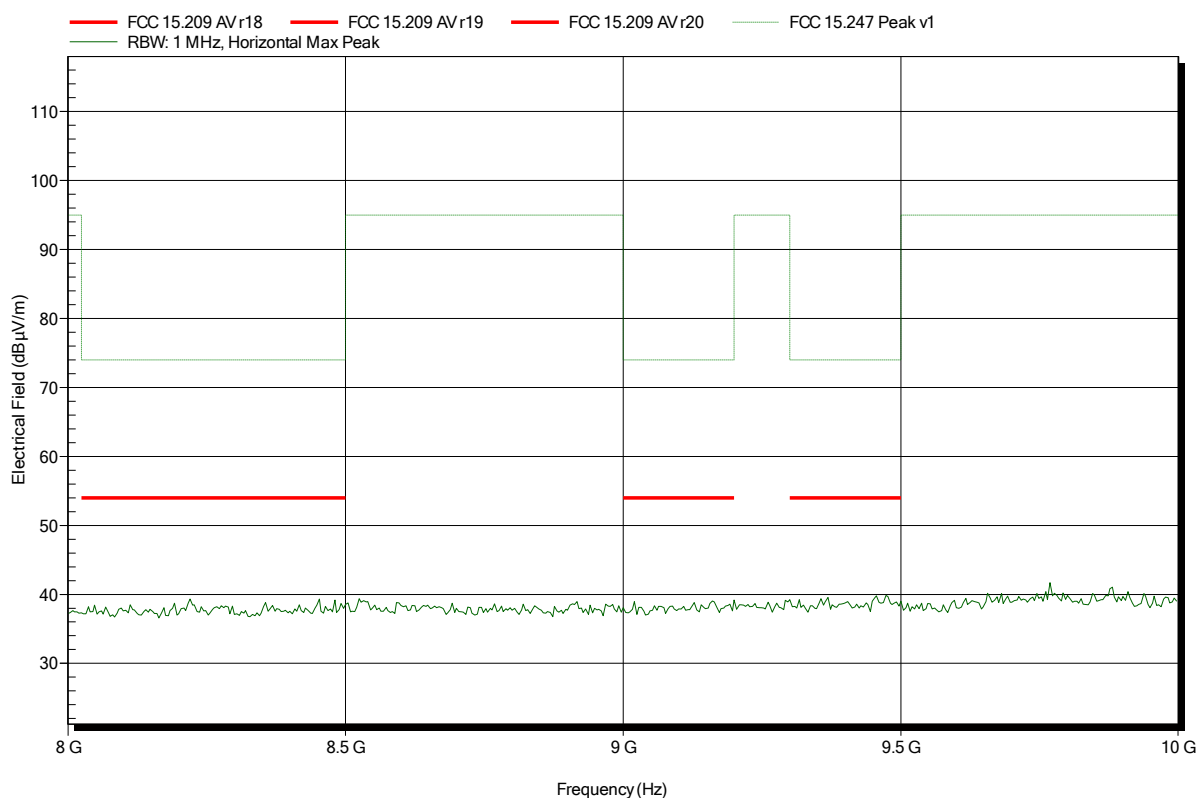


Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant: Kamstrup A/S
 EUT Name: REAdy Gateway for Siemens MAG8000 [Us]
 Model: REAdy Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.6 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; 912.5MHz, 2FSK
 Test Date: 2015-10-26
 Note: EUT horizontal

Index 26

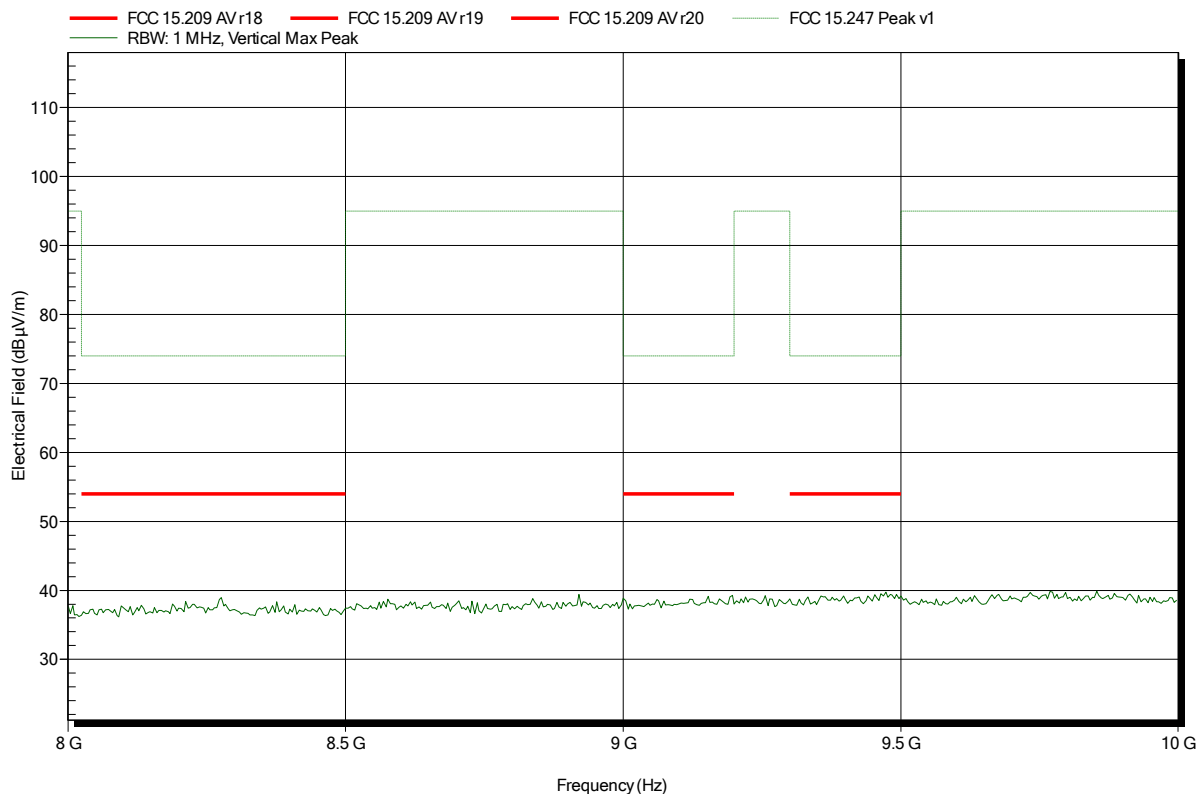


Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant:	Kamstrup A/S
EUT Name:	READY Gateway for Siemens MAG8000 [Us]
Model:	READY Gateway
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.6 V DC (battery)
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; 918.5MHz, 2FSK
Test Date:	2015-10-22
Note:	EUT horizontal

Index 14

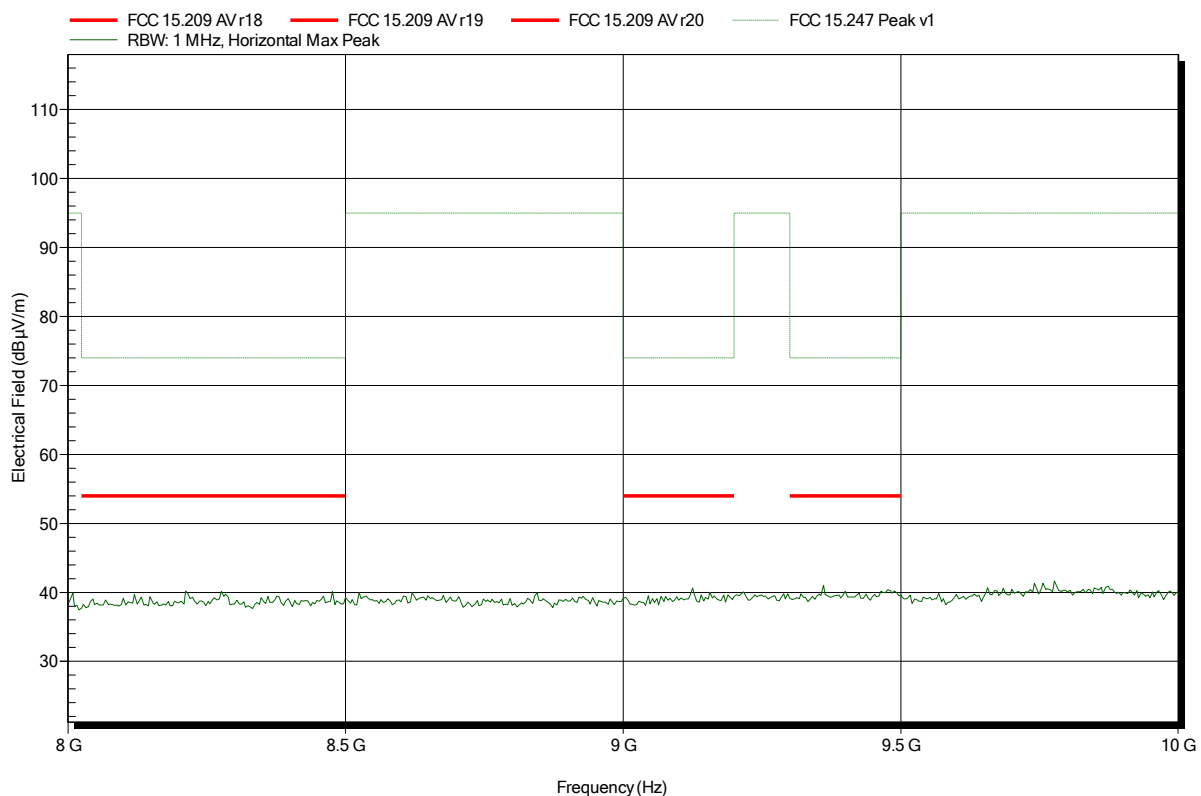


Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant: Kamstrup A/S
 EUT Name: REAdy Gateway for Siemens MAG8000 [Us]
 Model: REAdy Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.6 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; 918.5MHz, 2FSK
 Test Date: 2015-10-26
 Note: EUT horizontal

Index 27



Test Report No.: G0M-1509-5067-TFC247DT-V01

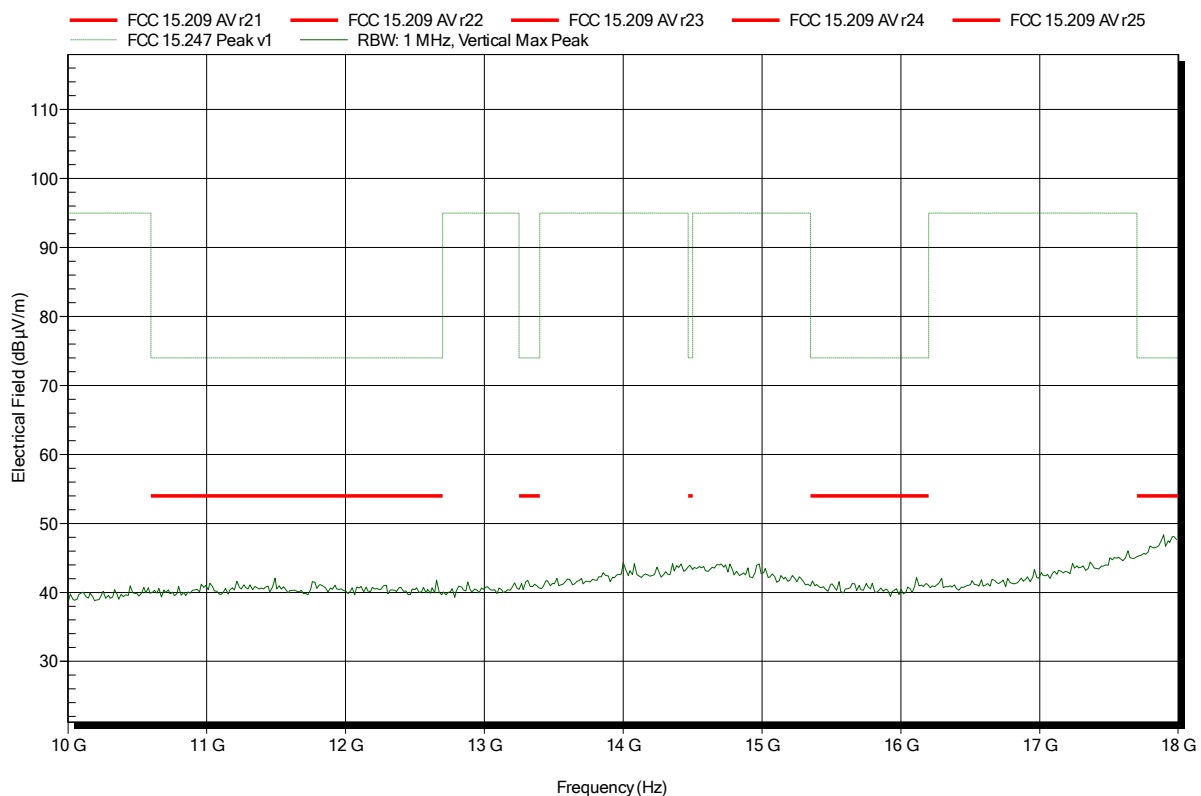
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.6 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; 912.5MHz, 2FSK
 Test Date: 2015-10-23
 Note: EUT horizontal

Index 22

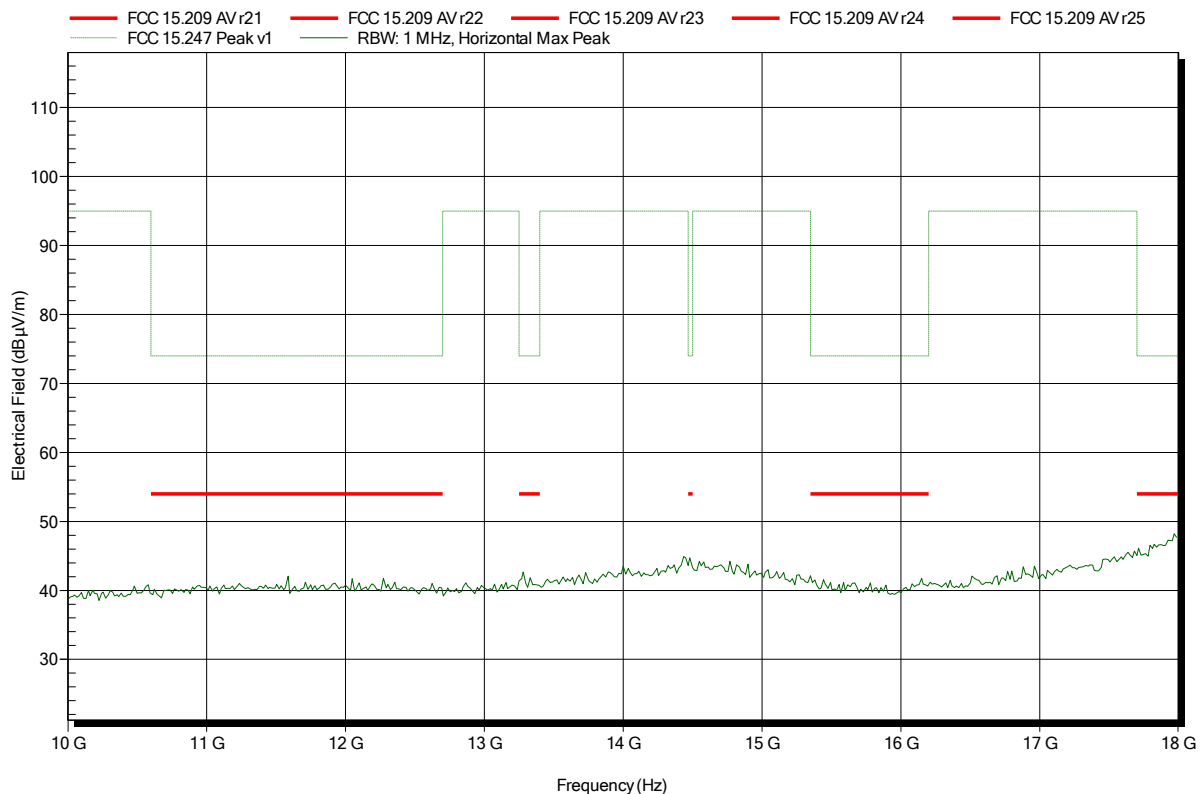


Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.6 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; 912.5MHz, 2FSK
 Test Date: 2015-10-23
 Note: EUT horizontal

Index 24

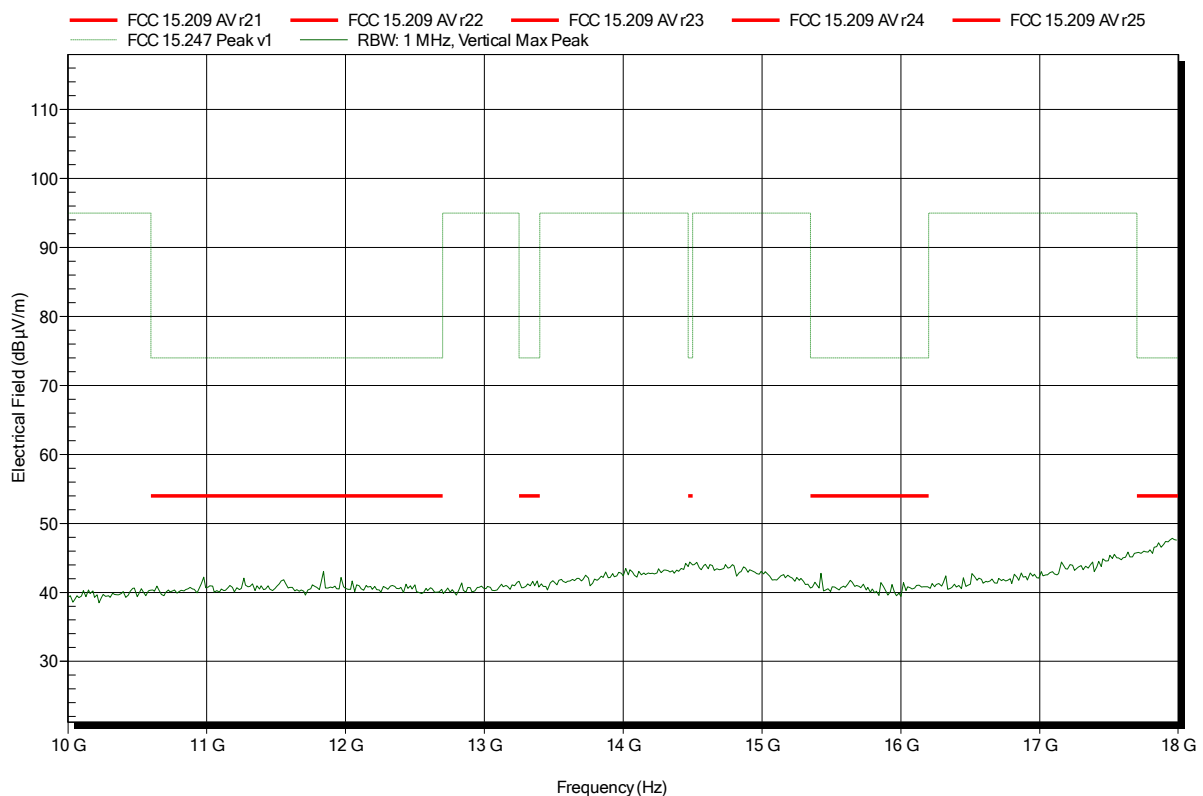


Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant:	Kamstrup A/S
EUT Name:	READY Gateway for Siemens MAG8000 [Us]
Model:	READY Gateway
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.6 V DC (battery)
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; 918.5MHz, 2FSK
Test Date:	2015-10-23
Note:	EUT horizontal

Index 19

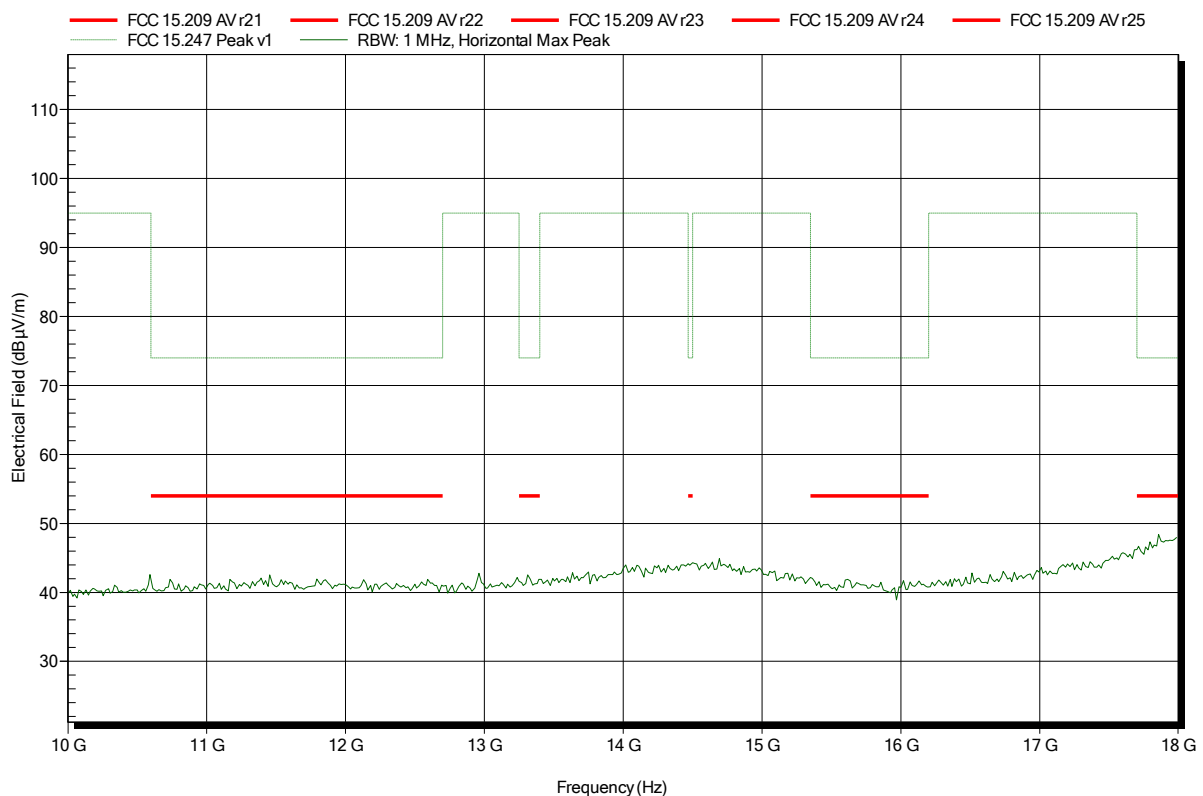


Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.6 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; 918.5MHz, 2FSK
 Test Date: 2015-10-23
 Note: EUT horizontal

Index 16

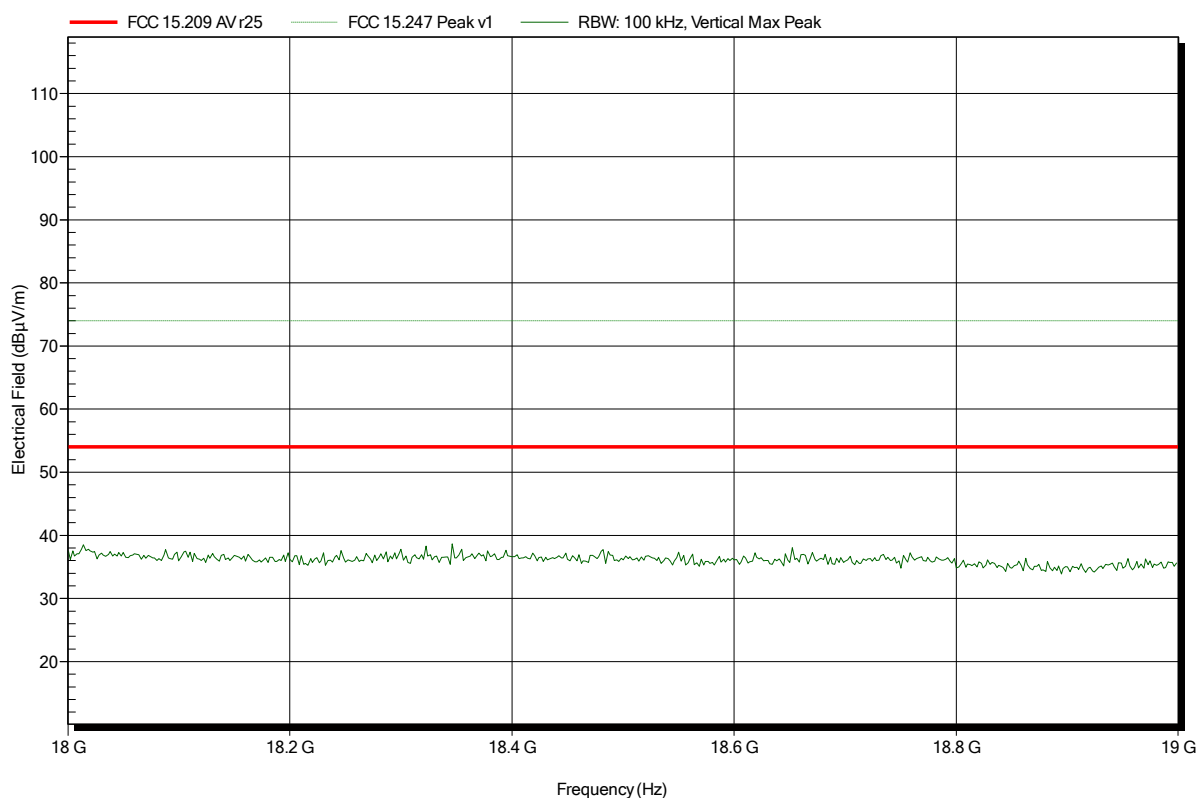


Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant: Kamstrup A/S
 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.6 V DC (battery)
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; 912.5MHz, 2FSK
 Test Date: 2015-10-23
 Note: EUT horizontal

Index 23



Test Report No.: G0M-1509-5067-TFC247DT-V01

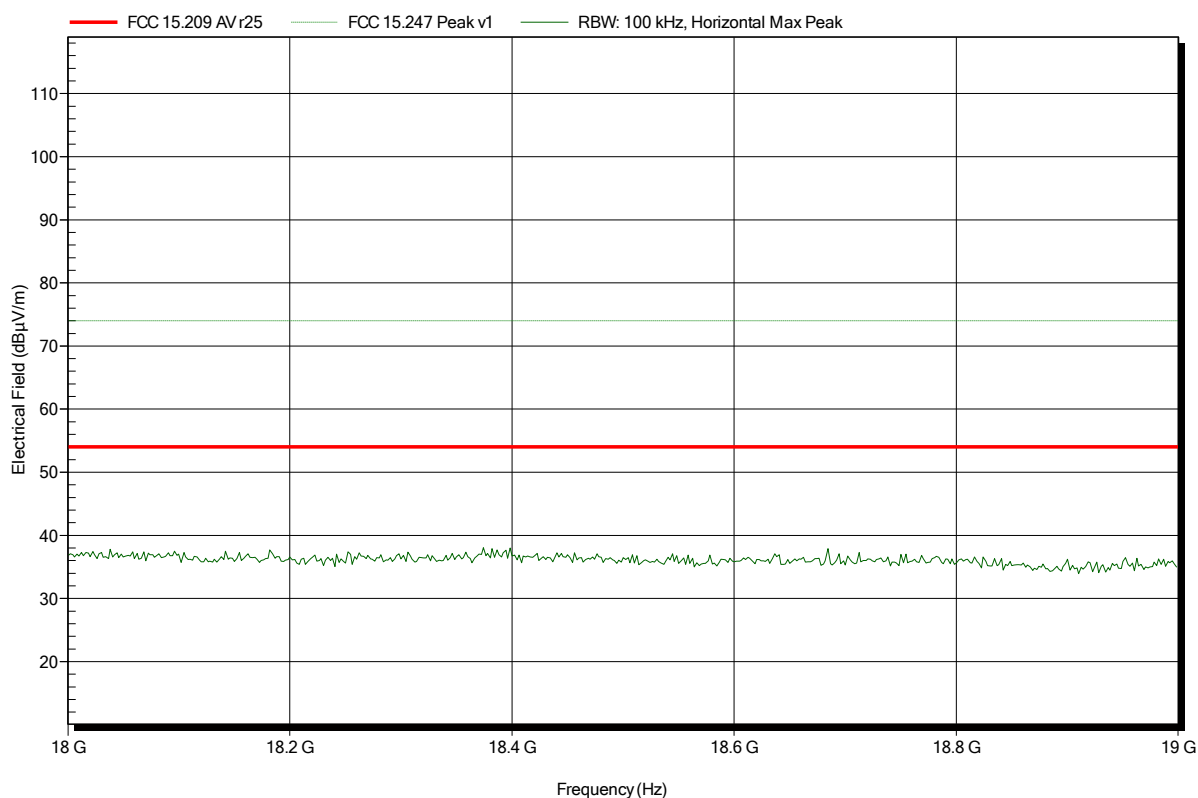
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant:	Kamstrup A/S
EUT Name:	READY Gateway for Siemens MAG8000 [Us]
Model:	READY Gateway
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.6 V DC (battery)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; 912.5MHz, 2FSK
Test Date:	2015-10-23
Note:	EUT horizontal

Index 25



Test Report No.: G0M-1509-5067-TFC247DT-V01

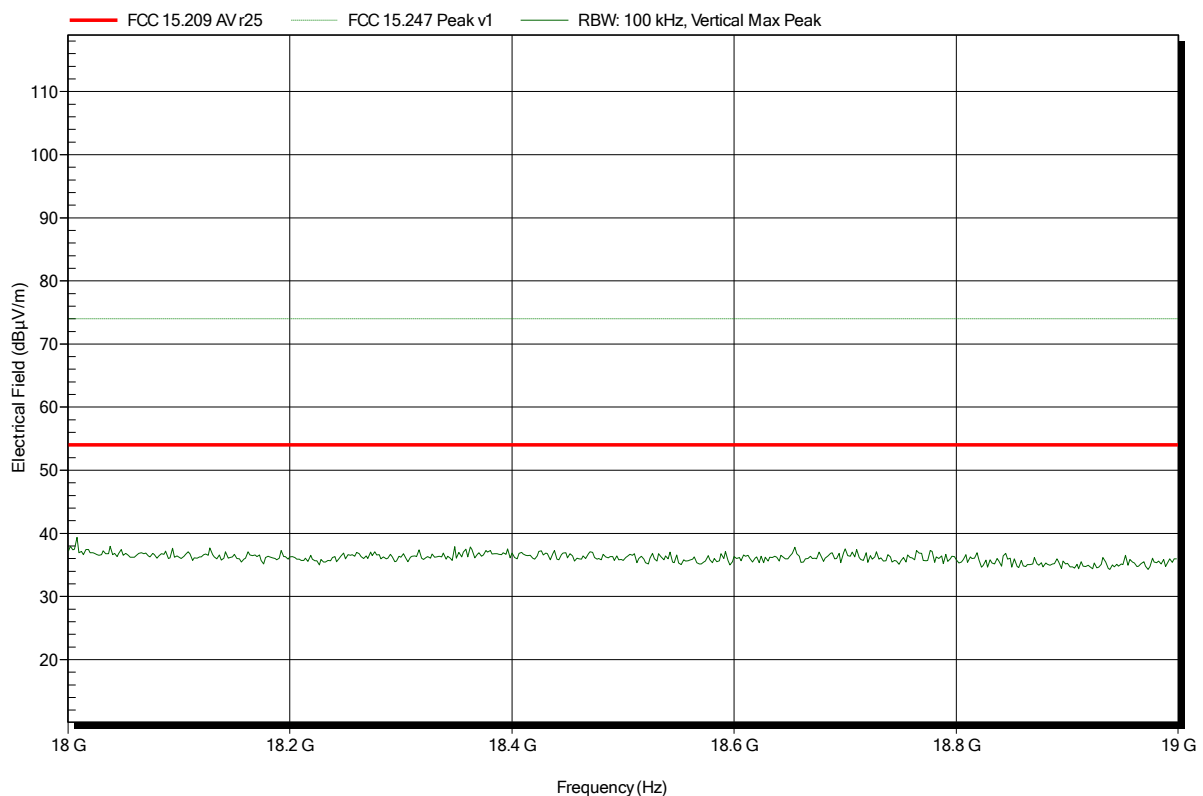
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC 15.247

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 EUT Name: READY Gateway for Siemens MAG8000 [Us]
 Model: READY Gateway
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.6 V DC (battery)
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; 918.5MHz, 2FSK
 Test Date: 2015-10-23
 Note: EUT horizontal

Index 18



Test Report No.: G0M-1509-5067-TFC247DT-V01

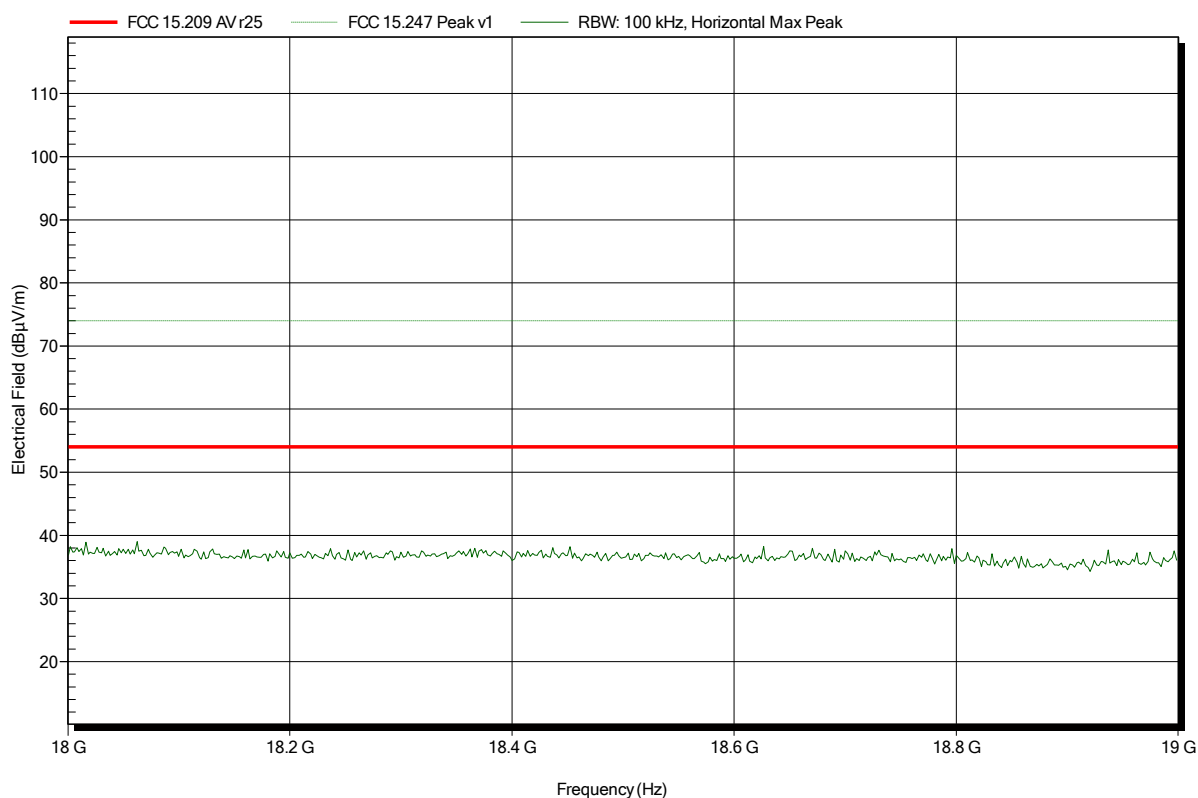
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC 15.247

Project number: G0M-1509-5067

Applicant:	Kamstrup A/S
EUT Name:	READY Gateway for Siemens MAG8000 [Us]
Model:	READY Gateway
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.6 V DC (battery)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; 918.5MHz, 2FSK
Test Date:	2015-10-23
Note:	EUT horizontal

Index 17



Test Report No.: G0M-1509-5067-TFC247DT-V01

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany