

TEST REPORT

Report Number: 3192171ATL-002

July 30, 2010

Product Designation: Art. 5349 (Motor)

Standard: FCC 15.249 - Operation within the bands 902-928 MHz, 2400-2483.5 MHz,
5725-5875 MHz, and 24.0-24.25 GHz.
RSS-210, Issue 7, 2007

Tested by:

Intertek Testing Services NA Inc.
1950 Evergreen Blvd., Suite 100
Duluth, GA 30096

Client:

Mottura S.p.A.
Via della Industrie, 9/3
20050-MEZZAGO
Italy

Contact: Stefano Braghioli
Phone: 39347799661

Tests performed by:



Richard C., Bianco
EMC Project Engineer

Report reviewed by:



Jeremy O. Picken
EMC Department Manager

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1.0 Introduction and Conclusion

The tests indicated in section 2.0 were performed on the product constructed as described in section 3.0. The remaining test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, documentation Photos, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

Based on the results of our investigation, we have concluded the product tested complies with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested.

2.0 Test Summary

Section	Test Full Name	Test Date	Result
4.0	System setup including cable interconnection details, support equipment and simplified block diagram. (System Setup)		
5.0	Overview of EUT (Low Power Transmitters) (FCC 15C - EUT Overview)		
6.0	Duty Cycle Determination (FCC 15A - 15.35(c))	07/07/2010	PASS
7.0	Conducted emissions on AC power lines (Conducted Emissions)	07/08/2010	PASS
8.0	Radiated emissions (E-field) for low power intentional radiators. (Radiated Emissions LPD)	07/08/2010	PASS
9.0	Occupied Bandwidth (FCC Part 2.1049)	07/08/2010	PASS
NA	15.249(b): Requirements for fixed, point-to-point operation (FCC 15C - 15.249(b)) was waived due to the EUT is not a fixed, point-to-point operation.		
NA	Additional provisions to the general radiated emission limitations. (FCC 15C - 15.215) was waived due to there are no additional requirements.		

3.0 Description of Equipment Under Test

Equipment Under Test			
Description	Manufacturer	Model Number	Serial Number
Automated curtain motor	Mottura S.p.A.	Art. 5349	NA

EUT receive date:	7/6/2010
EUT receive condition:	Good
EUT type:	New

Description of Equipment Under Test (provided by Client):
RF controlled motorized curtain assembly.

Equipment Under Test Power Configuration			
Rated Voltage	Rated Current	Rated Frequency	Number of Phases
120Vac	>5A	60Hz	1

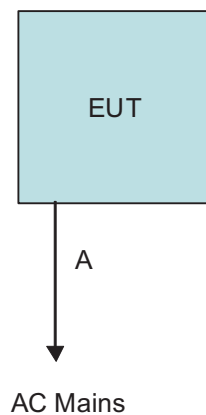
Operating Modes of EUT:

No.	Descriptions of EUT exercising
1	Continuous transmit mode with normal modulation
2	Continuous receive mode
3	

4.0 System setup including cable interconnection details, support equipment and simplified block diagram. (System Setup)

Method:

Record the details of EUT cabling, document the support equipment, and show the interconnections in a block diagram.

Drawing:

Simplified Block Diagram

4.0 System setup including cable interconnection details, support equipment and simplified block diagram. (System Setup)

Data:

EUT Cabling						
ID	Description	Length	Shielding	Ferrites	Connection	
					From	To
A	AC Input	1.8m	No	No	EUT	AC Mains

Support Equipment			
Description	Manufacturer	Model Number	Serial Number
No support equipment required			

5.0 Overview of EUT (Low Power Transmitters) (FCC 15C - EUT Overview)**Method:**

Complete the overview spreadsheet.

Related Submittal(s) Grants: This report is for use with an application for certification of a low power transmitter. One transmitter is included in the application.

Data:

Applicant	Mottura S.p.A.
	via XXV Luglio, 1 - 10090
	San Giusto, Canavese (To)
Trade Name & Model No.	Art. 5349 (Motor)
FCC Identifier	TBD
Frequency Range (MHz)	916
Antenna Type (15.203)	Internal
Manufacturer name & address	Mottura S.p.A.
	via XXV Luglio, 1 - 10090
	San Giusto, Canavese (To)

Related Submittals and Grants:	This report is for use with an application for certification of a low power transmitter. One transmitter is included in the application.
Additions, deviations and exclusions from standards	None

6.0 Duty Cycle Determination (FCC 15A - 15.35(c))

Method:

(c) Unless otherwise specified, e.g. §15.255(b), when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

Determine the period of the pulse train, T, in mSec and record the results. T is defined as the time from the beginning of one pulse train to the beginning of the next pulse train.

Count the number of different types of pulses, N and record the results.

For each of the different types of pulses, count the number of occurrences within one pulse train.

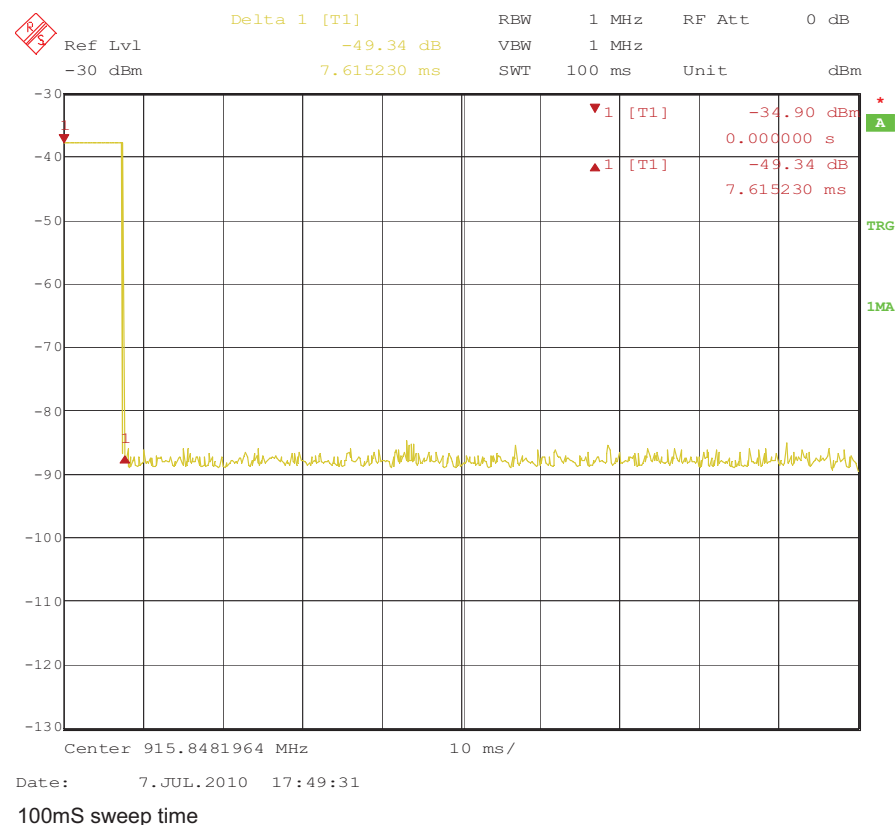
Use the Duty Cycle Correction Factor, DCCF, from the results table and use it to adjust the field strength measurements recorded for radiated emissions.

Test Equipment Used:

Description:	Manufacturer:	Model:	Asset Number:	Cal Date:	Cal Due:
Cable E201, 18 GHz, N, 3m	Megaphase	TM18 NKNK 118	E201	02/02/2010	02/02/2011
Spectrum Analyzer, 20Hz-40GHz	Rohde & Schwarz	FSEK30	200062	10/19/2009	10/19/2010

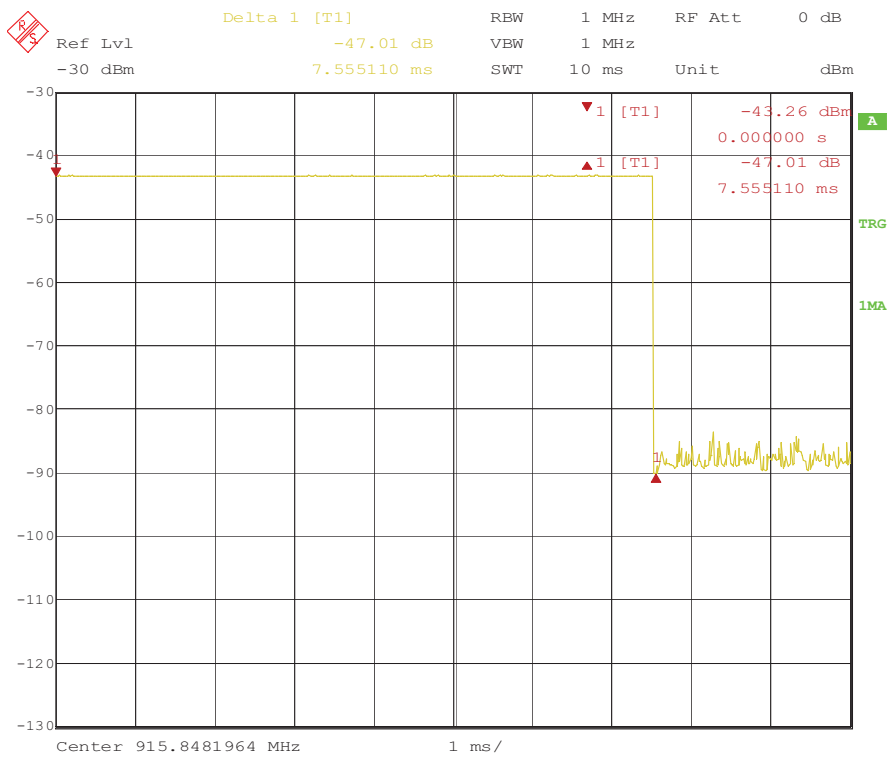
Results: The sample tested was found to Comply.

Plot:



6.0 Duty Cycle Determination (FCC 15A - 15.35(c))

Plot:



Date: 7.JUL.2010 17:50:40

7.555mS on-time

6.0 Duty Cycle Determination (FCC 15A - 15.35(c))

Data:

Duration of Pulse Train, T (mSec):	100
Averaging Interval, A_I (mSec):	100
Number of different Pulses, N:	1

	Number (#P _x)	Pulse Width, mSec (PW _x)	Product (#P _x)*(PW _x)
Pulse Width 1	1	7.555	7.555
Pulse Width 2			
Pulse Width 3			
Pulse Width 4			
Pulse Width 5			
Pulse Width 6			
Pulse Width 7			
Pulse Width 8			
Pulse Width 9			
Pulse Width 10			

Duty Cycle:	0.07555
Duty Cycle Correction Factor, dB:	-22.4

$$T_{on} = (PW_1 * \#P_1) + (PW_2 * \#P_2) + \dots + (PW_n * \#P_n)$$

$$DutyCycle = T_{on} \div A_I$$

$$DCCF = 20 * \log_{10}(DutyCycle)$$

7.0 Conducted emissions on AC power lines (Conducted Emissions)

Method:

Equipment setup for conducted disturbance tests shall follow the guidelines of ANSI C63.4:2003.

Measurements in the frequency range of 150kHz to 30 MHz shall be performed with a quasi-peak or average detector instrument that meets the requirements of Section One of CISPR 16. An AMN shall be used to provide a defined impedance at high frequencies across the power feed at the point of measurement of terminal voltage and also to provide isolation of the circuit under test from the ambient noise on the power lines. An AMN defined in CISPR 16 shall be used.

In the frequency range of 150 kHz to 30 MHz, a resolution/video bandwidth of 9kHz/30kHz or greater shall be used.

The EUT shall be located so that the distance between the boundary of the EUT and the closest surface of the AMN is 0.8m.

If a flexible mains cord is provided by the manufacturer that is in excess of 1m, the excess cable shall be folded back and forth as far as possible to form a bundle not exceeding 0.4m in length.

The EUT shall be arranged and connected with cables terminated in accordance with the product specification.

Conducted disturbance shall be measured between each current carrying conductor and the reference ground. Each measured values shall be reported.

If EUT is intended for tabletop use, the EUT shall be placed on a table whose top is 0.8m above the ground plane. A vertical, metal reference plane is be placed 0.4m from the EUT. The vertical metal reference-plane is at least 2m by 2m. The EUT shall be kept at least 0.8m from any other metal surface or other ground plane not being part of the EUT. The table shall be constructed of non-conductive materials. Its dimensions are at least 1m by 1.5m, but may be extended for larger EUT.

If EUT is floor standing, the floor standing EUT shall be placed on a horizontal metal ground plane and isolated from the ground plane by up to 12 mm of insulating material. The metal ground plane shall extend at least 0.5m beyond the boundaries of the EUT and had minimum dimensions of 2m by 2m.

TEST SITE

The test site for conducted emissions is located at 1950 Evergreen Blvd, Suite 100, Duluth, Georgia 30096. The VCCI Registration Number for this site is C-2818.

MEASUREMENT UNCERTAINTY

Compliance of the product is based on the measured value. However, the measurement uncertainty is included for informational purposes. The values given are the measurement uncertainty values with an expanded uncertainty of k=2.

150 kHz to 30 MHz: +/- 2.8 dB

Test Equipment Used:

Description:	Manufacturer:	Model:	Asset Number:	Cal Date:	Cal Due:
Cable TT5	Andrews	Cable TT5	TT5 211405	05/04/2010	05/04/2011
Cable, N-N 3 meters, 18GHz	Megaphase	TM18 NKNK 118	E203	05/04/2010	05/04/2011
EMI Receiver	Hewlett Packard	8546A	211505	02/02/2010	02/02/2011
EMI Receiver, Preselector section	Hewlett Packard	85460A	015762	02/02/2010	02/02/2011
Excel spreadsheet for conducted emissions tests	Software	Excel - CE Worksh	SW002	12/09/2009	12/09/2010
LISN (TT5)	Fischer Custom Comm	FCC-LISN-50-50-M	211407	09/15/2009	09/15/2010
Spectrum Analyzer, 20Hz-40GHz	Rohde & Schwarz	FSEK30	200062	10/19/2009	10/19/2010
Tile - software profile for radiated and conducted emissions testing.	Software	Tile - Emissions	SW006	12/09/2009	12/09/2010
Transient Limiter	Hewlett Packard	11947A	213100	08/13/2009	08/13/2010

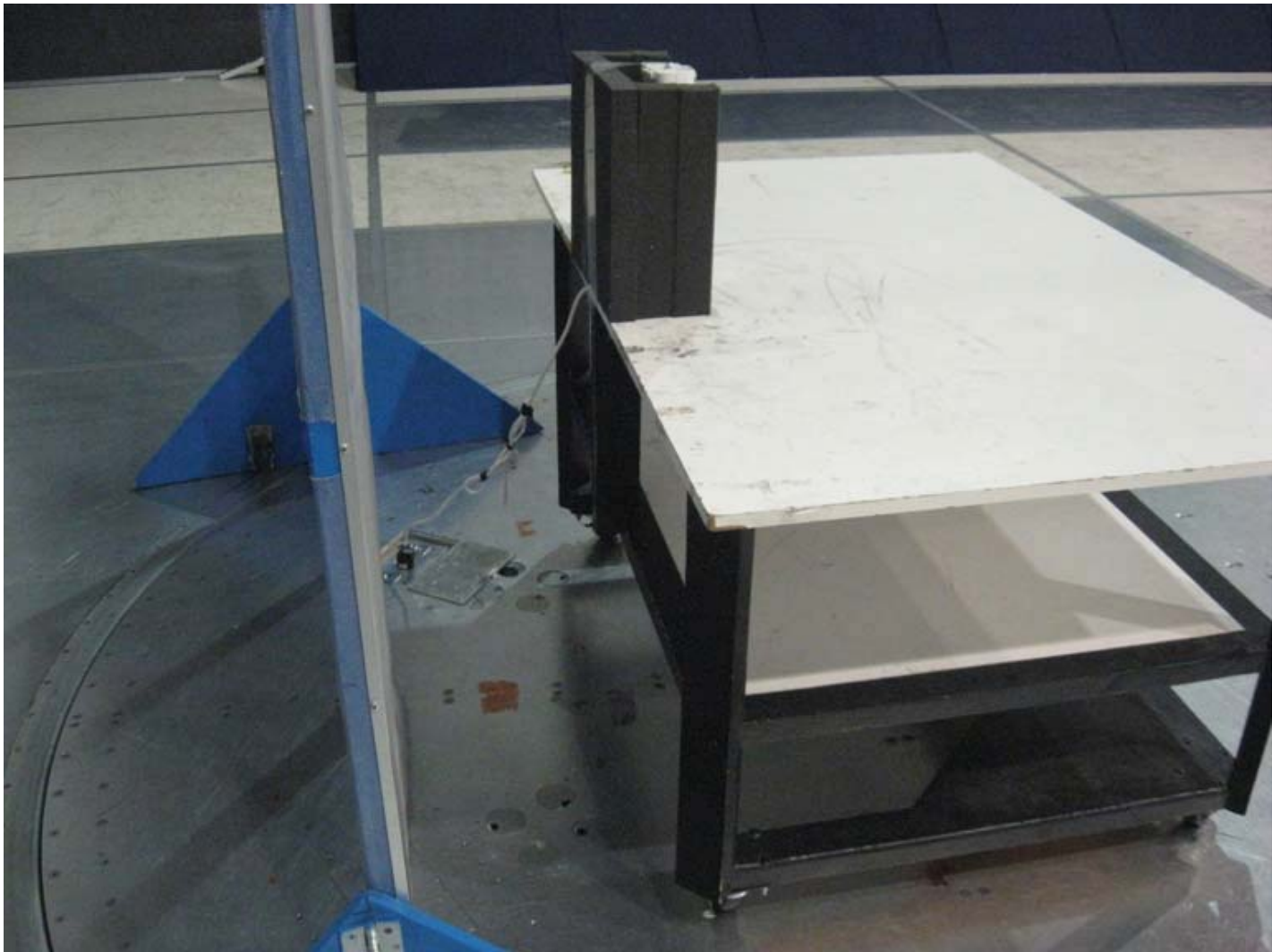
Results: The sample tested was found to Comply.

7.0 Conducted emissions on AC power lines (Conducted Emissions)

Photo:



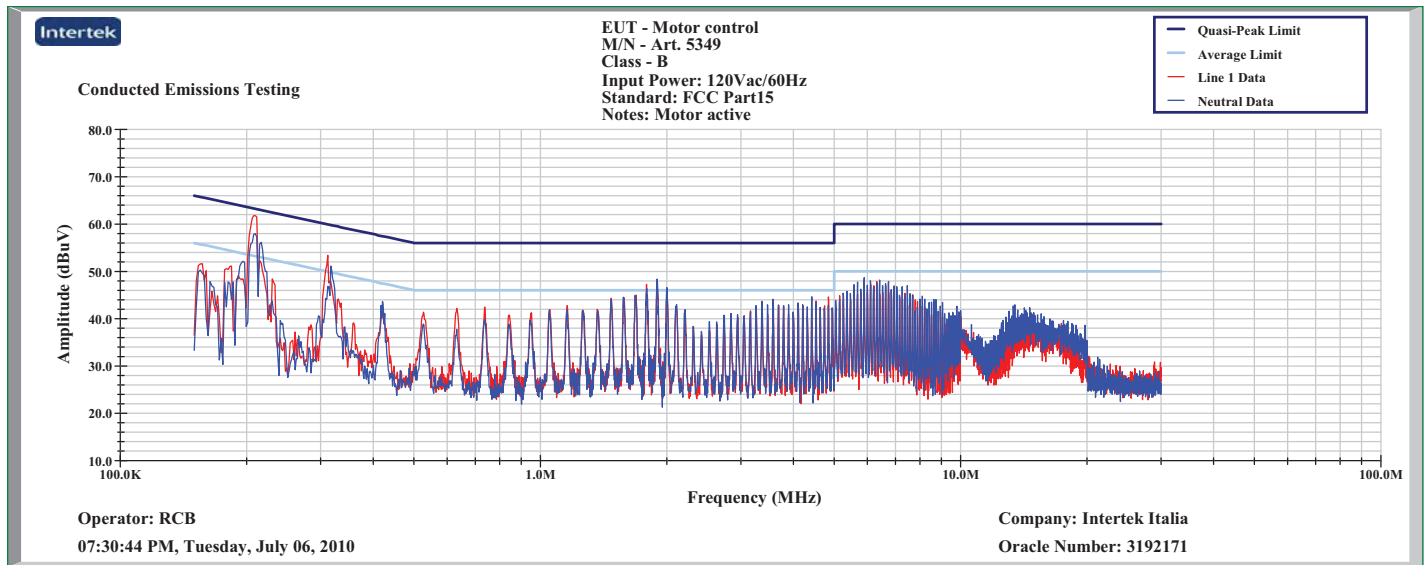
Test setup - front view

7.0 Conducted emissions on AC power lines (Conducted Emissions)**Photo:**

Test setup - rear view

7.0 Conducted emissions on AC power lines (Conducted Emissions)

Plot:



Conducted emissions @ 120Vac/60Hz

7.0 Conducted emissions on AC power lines (Conducted Emissions)

Data:

Client: Intertek Italia
 Model Number: Art. 5349 Motor
 Project Number: 3192171
 Tested By: RCB
 Date: 7-6-2010

Receiver: HP 8546A
 Cables: TT5+E-203
 LISN 1: TT5 LISN Line 1
 LISN 2: TT5 LISN Line 2

Frequency Range (MHz): .150-30

Input power: 120Vac/60Hz

Limit: CISPR Class B

Modifications for compliance (y/n): n

A	B	C	D	E	F	G	H	I
LISN Number 1,2	Detector (P,QP,A)	Frequency MHz	Reading dBuV	Cable Loss dB	LISN Ins. Loss dB	Net dBuV	Limit dBuV	Margin dB
1	QP	0.211	53.9	0.0	6.3	60.2	63.2	-3.0
1	A	0.211	43.5	0.0	6.3	49.8	53.2	-3.4
1	QP	0.320	44.0	0.0	6.1	50.1	59.7	-9.6
1	A	0.320	37.6	0.0	6.1	43.7	49.7	-6.0
1	QP	1.788	37.9	0.0	6.1	44.0	56.0	-12.0
1	A	1.788	33.2	0.0	6.1	39.3	46.0	-6.7
1	QP	1.895	40.1	0.0	6.1	46.2	56.0	-9.8
1	A	1.895	35.5	0.0	6.1	41.6	46.0	-4.4
1	QP	1.998	39.7	0.0	6.1	45.8	56.0	-10.2
1	A	1.998	34.4	0.0	6.1	40.5	46.0	-5.5
1	QP	6.095	39.8	0.0	6.1	45.9	60.0	-14.1
1	A	6.095	36.1	0.0	6.1	42.2	50.0	-7.8
2	QP	0.209	53.6	0.0	6.3	59.9	63.4	-3.5
2	A	0.209	43.3	0.0	6.3	49.6	53.4	-3.8
2	QP	0.316	43.7	0.0	6.1	49.8	59.8	-10.0
2	A	0.316	37.4	0.0	6.1	43.5	49.8	-6.3
2	QP	1.787	37.8	0.0	6.1	43.9	56.0	-12.1
2	A	1.787	33.4	0.0	6.1	39.5	46.0	-6.5
2	QP	1.893	40.5	0.0	6.1	46.6	56.0	-9.4
2	A	1.893	35.7	0.0	6.1	41.8	46.0	-4.2
2	QP	1.998	39.7	0.0	6.1	45.8	56.0	-10.2
2	A	1.998	34.6	0.0	6.1	40.7	46.0	-5.3
2	QP	6.095	39.6	0.0	6.1	45.7	60.0	-14.3
2	A	6.095	35.8	0.0	6.1	41.9	50.0	-8.1
Calculations		G=D+E+F		I=G-H				

Note: Peak measurements are compared to the average limit.

8.0 Radiated emissions (E-field) for low power intentional radiators. (Radiated Emissions LPD)

Method:

Measurements shall be performed with a quasi-peak detector instrument that meets the requirements of Section One of CISPR 16.

Bandwidths:

30 MHz to 1000 MHz: 120 kHz RBW and 1 MHz VBW

Above 1000 MHz: 1 MHz RBW and 3 MHz VBW

Detectors:

Equal to or less than 1000 MHz: CISPR quasi-peak detector (alternative: peak detector)

Above 1000 MHz: Average detector (applies to average limit)

Above 1000 MHz: Peak detector (applies to peak limit)

Limits:

Equal to or less than 1000 MHz, the limits are specified as quasi-peak. If a peak detector is used, the limit does not change.

Above 1000 MHz, the limits are specified as average. The peak limit is 20 dB above the average limit. Both peak and average measurements are required to be reported.

Frequency range of radiated measurements

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1) through (a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

Measurement antenna requirements:

Below 30 MHz - Loop antenna

30 to 1000 MHz - Biconical, Log Periodic, or equivalent

Above 1000 MHz - Horn or equivalent

Measurements of the radiated field are made with the antenna located at a distance of 3 or 10 meters from the EUT. The limit applied to the measurement shall be appropriate for the test distance. The test distance shall be indicated in the results section.

The EUT shall be arranged and connected with cables terminated in accordance with the product specification.

Exploratory tests should be carried out while varying the cable positions to determine the maximum or near-maximum emission level. During manipulation, cables shall not be placed under or on top of the system test components unless such placement is required by the inherent equipment design.

The antenna shall be adjusted between 1m and 4m in height above the ground plane for maximum meter reading at each test frequency.

The antenna-to-EUT azimuth shall be varied during the measurement to find the maximum field-strength readings.

The antenna-to-EUT polarization (horizontal and vertical) shall be varied during the measurements to find the maximum field-strength readings.

If the EUT is handheld, it shall be oriented in each of its orthogonal axes.

If the EUT is intended for tabletop use, it shall be placed on a table whose top is 0.8m above the ground plane. The table shall be constructed of non-conductive materials. Its dimensions are at least 1m by 1.5m, but may be extended for larger EUT.

If EUT is floor standing, the EUT was placed on a horizontal metal ground plane and isolated from the ground plane by up to 12 mm of insulating material.

Equipment setup for radiated disturbance tests shall follow the guidelines of ANSI C63.4:2003.

TEST SITE

The test site for radiated emissions is located at 1950 Evergreen Blvd, Suite 100, Duluth, Georgia 30096.

Test Equipment Used:

Description:	Manufacturer:	Model:	Asset Number:	Cal Date:	Cal Due:
Antenna, BiLog, 20-2000MHz	Chase	CBL6112B	211386	10/02/2009	10/02/2010

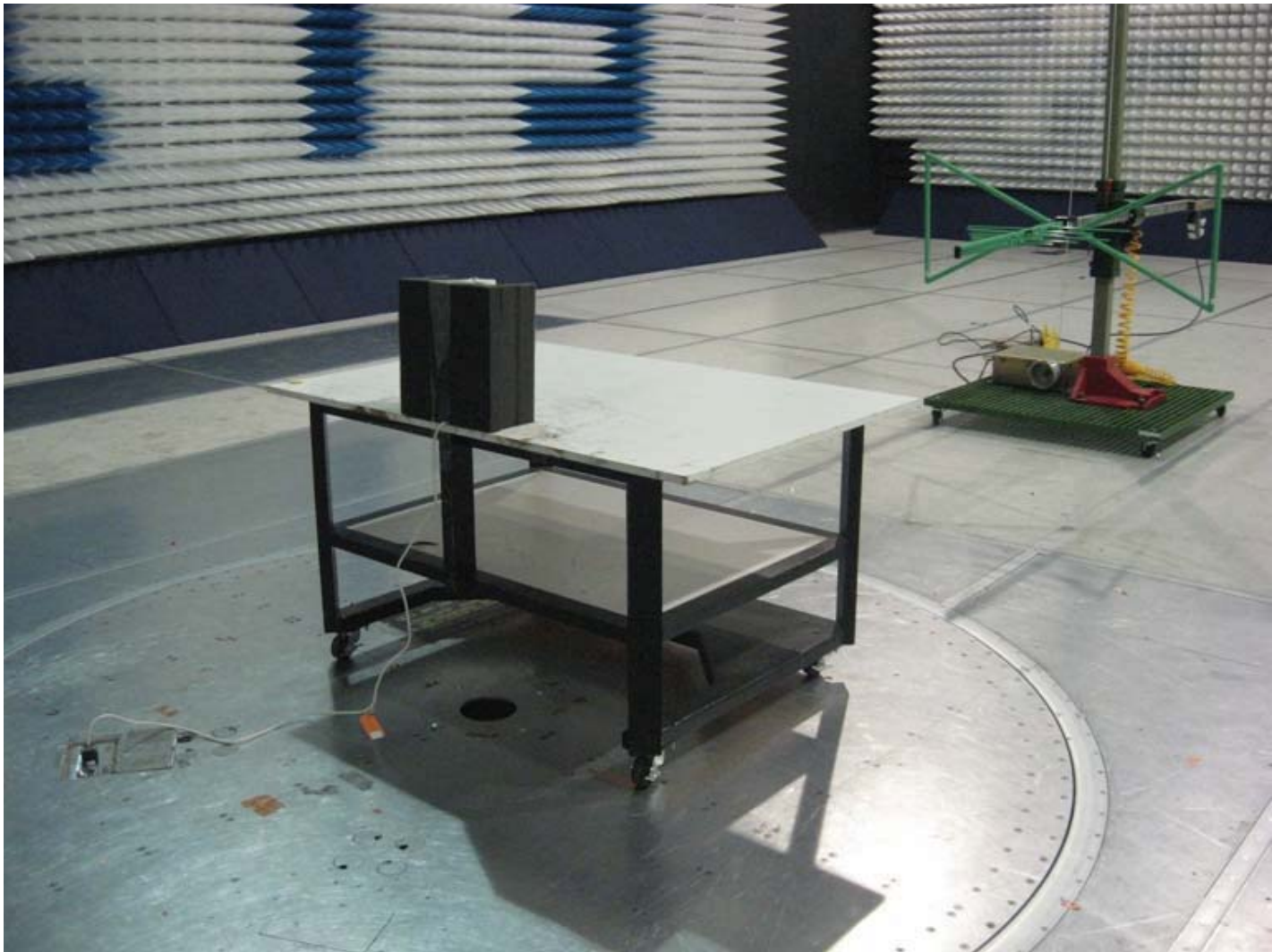
8.0 Radiated emissions (E-field) for low power intentional radiators. (Radiated Emissions LPD)**Test Equipment Used:**

Description:	Manufacturer:	Model:	Asset Number:	Cal Date:	Cal Due:
Antenna, Horn, <18 GHz	EMCO	3115	213061	05/07/2010	05/07/2011
Cable E201, 18 GHz, N, 3m	Megaphase	TM18 NKNK 118	E201	02/02/2010	02/02/2011
Cable MP3, 18 GHz, N, 10m	Megaphase	G919-NKNK-394	MP3	05/04/2010	05/04/2011
Cable, 7 meters, 1-18GHz	Storm Products Co.	PR90-241-7MTR	ST-2	08/18/2009	08/18/2010
Cable, 7 meters, 1-18GHz	Storm Products Co.	PR90-195-7MTR	ST-3	08/18/2009	08/18/2010
Cable, N-N, 3 meters, 18GHz	Megaphase	TM18-NKNK-118	E204	05/04/2010	05/04/2011
EMI Receiver	Hewlett Packard	8546A	211505	02/02/2010	02/02/2011
EMI Receiver, Preselector section	Hewlett Packard	85460A	015762	02/02/2010	02/02/2011
Excel spreadsheet for radiated emissions	Software	Excel - RE Worksh	SW004	12/09/2009	12/09/2010
Preamplifier, 10 MHz to 2000 MHz, 30 dB gain	Mini-Circuits	ZKL-2	200069	04/20/2010	04/20/2011
Preamplifier, 20 MHz to 18 GHz, 40 dB	A.H. Systems	PAM-0118	200108	04/21/2010	04/21/2011
Spectrum Analyzer, 20Hz-40GHz	Rohde & Schwarz	FSEK30	200062	10/19/2009	10/19/2010
Tile - software profile for radiated and conducted emissions testing.	Software	Tile - Emissions	SW006	12/09/2009	12/09/2010

Results: The sample tested was found to Comply.

8.0 Radiated emissions (E-field) for low power intentional radiators. (Radiated Emissions LPD)**Photo:**

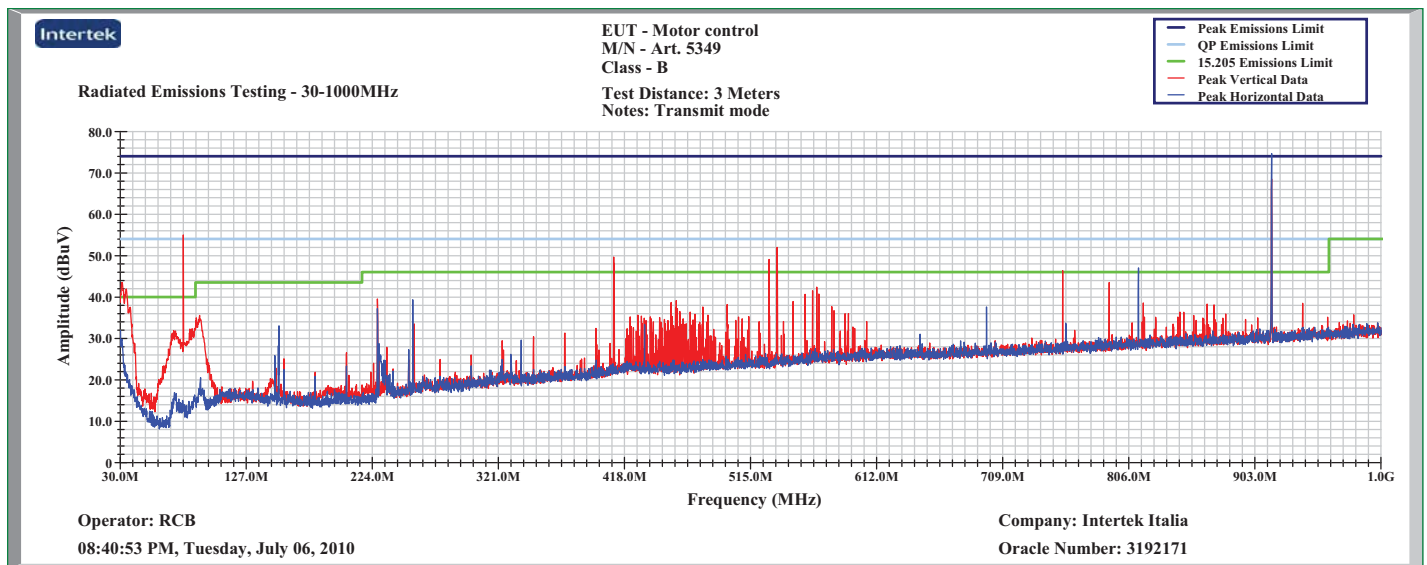
Test setup - front view

8.0 Radiated emissions (E-field) for low power intentional radiators. (Radiated Emissions LPD)**Photo:**

Test setup - rear view

8.0 Radiated emissions (E-field) for low power intentional radiators. (Radiated Emissions LPD)

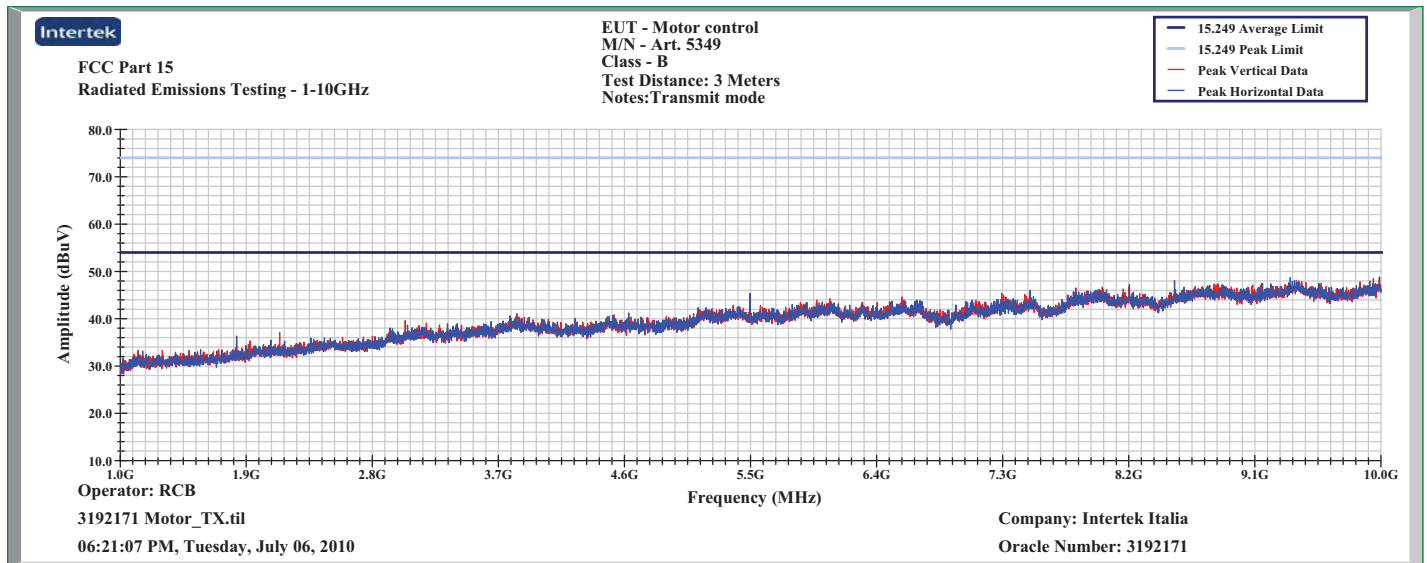
Plot:



Transmit mode - radiated emissions from 30-1000MHz

8.0 Radiated emissions (E-field) for low power intentional radiators. (Radiated Emissions LPD)

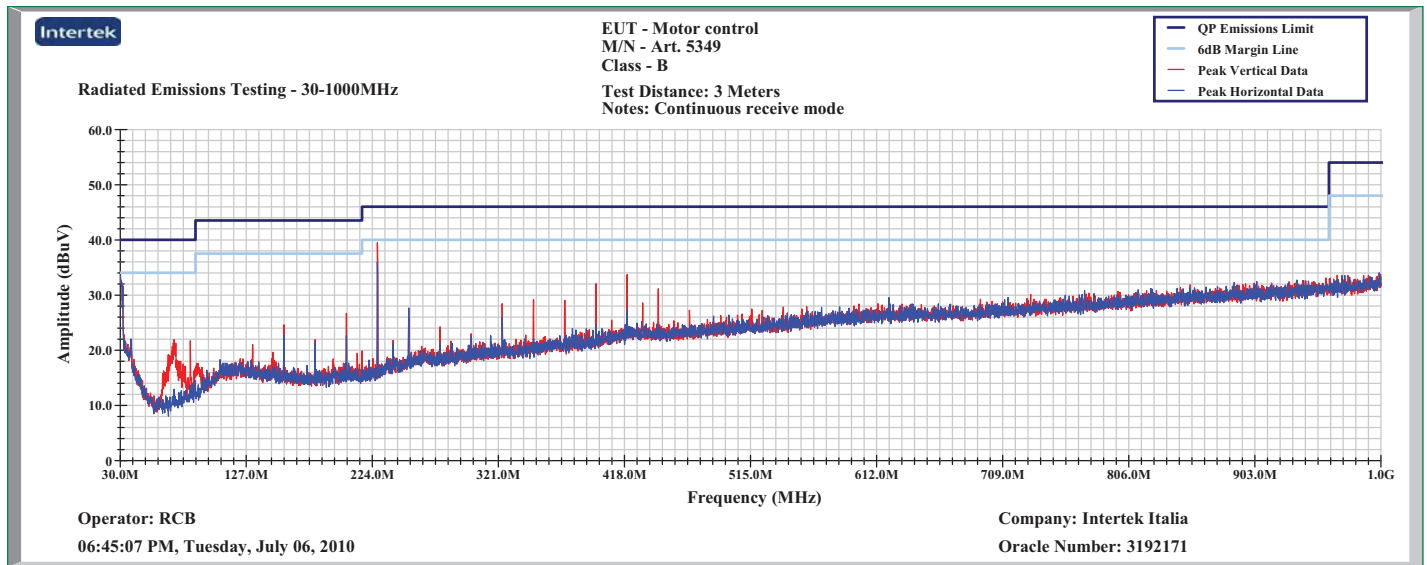
Plot:



Transmit mode radiated emissions from 1-10GHz

8.0 Radiated emissions (E-field) for low power intentional radiators. (Radiated Emissions LPD)

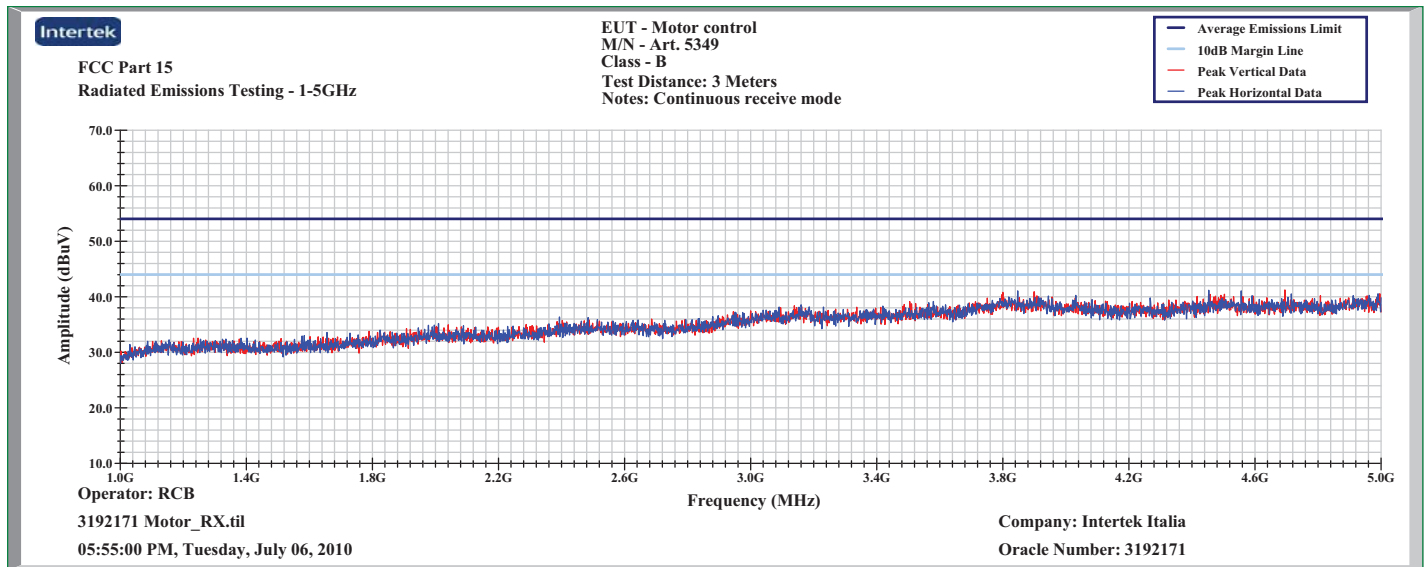
Plot:



Receive mode - radiated emissions from 30-1000MHz

8.0 Radiated emissions (E-field) for low power intentional radiators. (Radiated Emissions LPD)

Plot:



Receive mode - radiated emissions from 1-5GHz

8.0 Radiated emissions (E-field) for low power intentional radiators. (Radiated Emissions LPD)**Data:****Frequency Range (MHz):** 30to10000**Test Distance (m):** 3**Input power:** 120Vac/60Hz**Modifications for compliance (y/n):** n**Notes:** TX mode

A	B	C	D	E	F	H	I	J	K
Ant. Pol. (V/H)	Frequency MHz	Reading dB(uV)	Antenna Factor dB(1/m)	Cable Loss dB	Pre-amp Factor dB	Net dB(uV/m)	3m Limit dB(uV/m)	Margin dB	Detector
V	37.432	43.2	17.8	1.0	28.0	34.0	40.0	-6.0	QP
V	78.597	68.2	6.3	1.4	28.0	47.9	54.0	-6.1	QP
V	409.640	46.7	15.7	4.4	27.7	39.0	46.0	-7.0	QP
V	528.987	49.1	17.6	4.9	27.6	44.1	54.0	-9.9	QP
V	535.396	50.8	17.9	4.9	27.6	46.1	54.0	-8.0	QP
V	754.992	41.2	19.9	5.9	27.6	39.5	54.0	-14.5	QP
H	813.309	41.3	20.4	6.4	27.6	40.6	54.0	-13.5	QP
Calculations		H=C+D+E-F		J=H-I					

Transmit mode - radiated emissions from 30-10GHz

8.0 Radiated emissions (E-field) for low power intentional radiators. (Radiated Emissions LPD)**Data:****Frequency Range (MHz):** 30to5000**Test Distance (m):** 3**Input power:** 120Vac/60Hz**Limit:** FCC15 Class B-3m**Modifications for compliance (y/n):** n

A	B	C	D	E	F	G	H	I	J
Ant. Pol. (V/H)	Frequency MHz	Reading dB(uV)	Antenna Factor dB(1/m)	Cable Loss dB	Pre-amp Factor dB	Net dB(uV/m)	3m Limit dB(uV/m)	Margin dB	Detectors / Bandwidths Det/RBW/VBW
V	30.338	37.5	20.0	1.0	28.3	30.2	40.0	-9.8	QP/120k/300k
V	228.004	54.2	11.0	3.1	27.8	40.5	46.0	-5.5	QP/120k/300k
V	396.004	40.1	16.2	4.0	27.7	32.6	46.0	-13.4	QP/120k/300k
V	420.000	38.8	17.2	4.2	27.6	32.6	46.0	-13.4	QP/120k/300k
V	443.997	34.6	17.0	4.3	27.6	28.3	46.0	-17.7	QP/120k/300k
Calculations		G=C+D+E-F		I=G-H					

Receive mode - radiated emissions from 30-5000MHz

9.0 Occupied Bandwidth (FCC Part 2.1049)

Method:

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Connect the antenna port of the EUT to a spectrum analyzer using a calibrated coaxial cable and attenuator. Set the EUT to transmit at its highest power setting. The 99% bandwidth function of the analyzer was used to automatically generate the occupied bandwidth plots. Repeat for low, mid, and high channels of each band of the EUT.

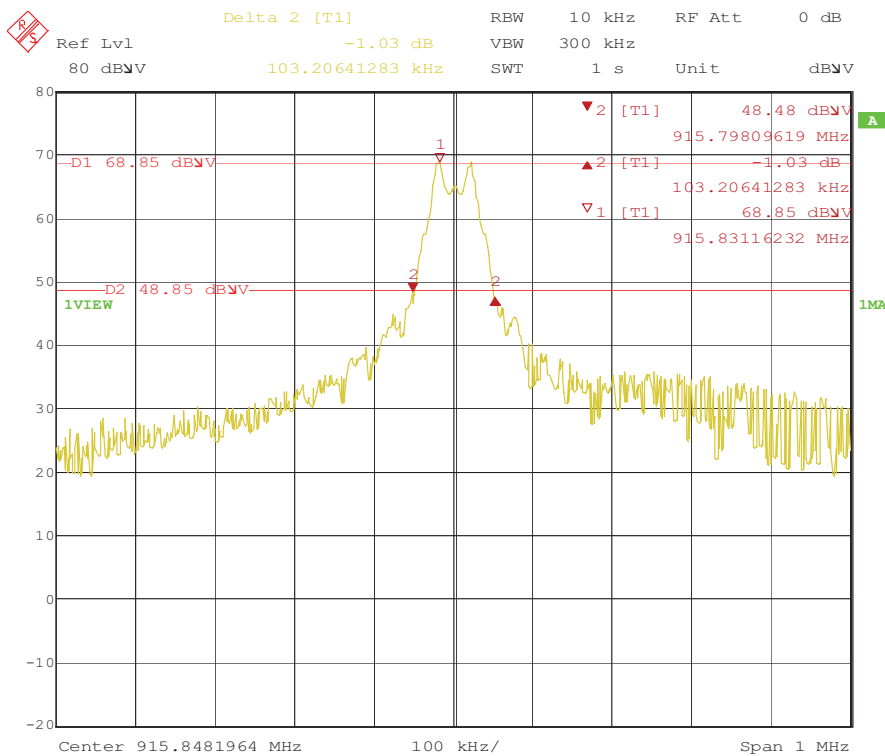
For amplifiers, the output bandwidth shall be less than or equal to the input bandwidth.

Test Equipment Used:

Description:	Manufacturer:	Model:	Asset Number:	Cal Date:	Cal Due:
Cable E404, 40 GHz, 2.9, 2m	Megaphase	TM40 K1K1 80	E404	06/18/2010	06/18/2011
Spectrum Analyzer, 20Hz-40GHz	Rohde & Schwarz	FSEK30	200062	10/19/2009	10/19/2010

Results: The sample tested was found to Comply.

Plot:



Date: 7.JUL.2010 17:45:04

Bandwidth

9.0 Occupied Bandwidth (FCC Part 2.1049)**Data:**

Mode	Frequency MHz	Resolution Bandwidth (1)	Video Bandwidth	Sweep time Seconds	Output Measured Bandwidth MHz	Input Measured Bandwidth MHz
Transmit	916	10 kHz	300 kHz	1	0.1032	

Note (1): Greater or equal to 1% of emission bandwidth.