

Compliance test report ID

223019-1R1TRFEMC

Date of issue November 2, 2012

- FCC 47 CFR Part 15, Subpart B Verification
- ICES-003 Issue 5 August 2012

Applicant Research In Motion Limited

Product BlackBerry Multimedia Pod

Rim part number HDW-45069-001

Model 6694-100D-0183

Nemko Canada Inc., a testing laboratory, is accredited by the Standards Council of Canada. The tests included in this report are within the scope of this accreditation





Test location

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& Elynas Reviewed by November 2, 2012 Date

Daniel Hynes, Senior EMC Specialist

Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contained in this report are within Nemko Canada's ISO/IEC 17025 accreditation.

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Table of Contents

Table of	Contents	. 3
Section	1 Report summary	. 4
1.1	Test specifications	. 4
1.2	Statement of compliance	. 4
1.3	Exclusions	. 4
1.4	Test report revision history	. 4
Section	2 Summary of test results	. 5
2.1	Test results	. 5
Section	3 Equipment under test (EUT) details	. 6
3.1	Applicant	. 6
3.2	Sample information	. 6
3.3	EUT information	. 6
3.4	EUT exercise and monitoring details	. 6
3.5	EUT setup details	. 7
Section	4 Engineering considerations	11
4.1	Modifications incorporated in the EUT	11
4.2	Technical judgment	11
4.3	Deviations from laboratory tests procedures	11
Section	5 Test conditions	12
5.1	Atmospheric conditions	12
5.2	Power supply range	12
Section	6 Measurement uncertainty	13
6.1	Uncertainty of measurement	13
Section	7 Terms and definitions	14
7.1	Product classifications definitions	14
7.2	General definitions	14
Section	8 Testing data	15
8.1	Radiated disturbance	15
8.2	Conducted disturbance at mains port	26



Section 1 Report summary

1.1 Test specifications

- FCC 47 CFR Part 15, Subpart B Verification
- ICES-003 Issue 5 August 2012

1.2 Statement of compliance

In the configuration tested, the EUT was found compliant.

Testing was completed against all relevant requirements of the test standard. Results obtained indicate that the product under test complies in full with the requirements tested. The test results relate only to the items tested.

See "Summary of test results" for full details.

1.3 Exclusions

None

1.4 Test report revision history

R1: Report updated to include radiated emissions testing above 1 GHz as well as cosmetic changes requested by the customer.



Section 2 Summary of test results

2.1 Test results

Table 2.1-1: FCC 47 CFR Part 15, Subpart B for Digital Devices results

Test description	Verdict
Radiated disturbance	Pass ¹
Conducted disturbance at mains port	Pass ¹
Notes: ¹ Product classification B	

Table 2.1-2: ICES-003 Issue 5 August 2012 results

Test description	Verdict
Radiated disturbance	Pass ¹
Conducted disturbance at mains port	Pass ¹
Notes: ¹ Product classification B	



Section 3 Equipment under test (EUT) details

3.1 Applicant

Company name Research In Motion Limited

Company address 295 Phillip Street

Waterloo, ON, Canada

N2L 3W8

3.2 Sample information

Receipt date October 9, 2012

Nemko sample ID number Items # 1, 2

3.3 EUT information

Product name BlackBerry Multimedia Pod

 Rim part number
 HDW-45069-001

 Model
 6694-100D-0183

Serial number None

Power requirements 5 V_{DC} (Powered via external AC-DC adapter)

Manufacturer Foxlink

Chenguei Industry District, Dong Keng, Dong Guan

Guang Dong

China

Product description and theory of operation

The Multimedia Pod is a docking station for the BlackBerry Smartphones.

It is a charging cradle which enhances the use of Smartphone as competent multimedia devices in the home environment, and to showcase their competitive capabilities in this arena.

The product goal is to "extend and enhance the BlackBerry user experience". This solution accomplishes that goal by extending the BlackBerry user experience into the home, and enhancing it by providing a new use case for users to enjoy.

3.4 EUT exercise and monitoring details

The EUT was connected to a monitor and was additionally charging a phone. A video stream was playing form the phone and being displayed on the AE monitor.

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3.5 EUT setup details

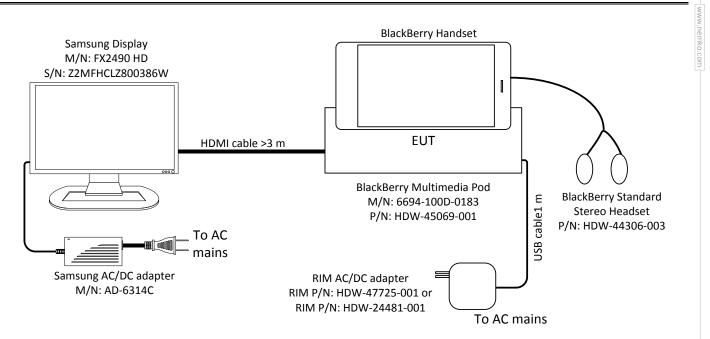


Diagram 3.5-1: Setup diagram Configuration 1

Table 3.5-1: Handheld details for Configuration 1

Device		Certification	FCC ID.	IC Number			
BlackBerry phone		RFA91LW L6ARFA90LW 2503A-RFA90LW					
Hardware:	PIN: 332F85 IMEI: 99000 CPR: 23129 PRD-45183 ASY-46132- POP-44885	1240062158 Rev E -700 001 Rev T					
Battery:		001 (T9 02195 L) 1ICP5/33.	/81				
Accessory setup:	View Setup	View Setup diagram 3.5–1 above.					
Serial number:	0858-7525-0765						
os	443-329927	443-329927 (2012-09-28)					



3.5 EUT setup details, continued

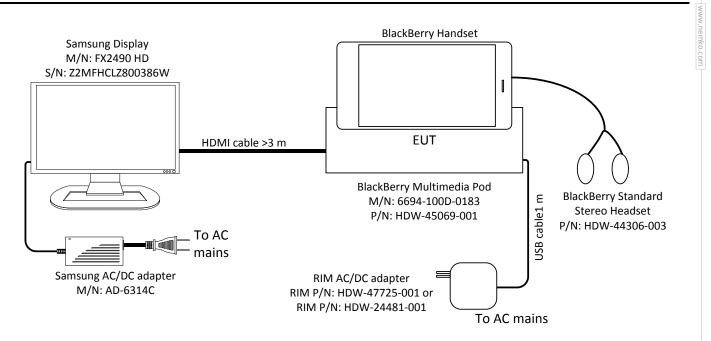


Diagram 3.5-2: Setup diagram Configuration 2

Table 3.5-2: Handheld details for Configuration 2

Device		Certification	FCC ID.	IC Number				
BlackBerry phone		RFG81UW	L6ARFG80UW	2503A-RFG80UW				
Hardware:	PIN: 2A8C7A31 IMEI: 004402241836646 CPR: 23286 Rev B PRD-46163-700 ASY-46297-001 Rev R							
Battery:	BAT-47277-	001 (T9 00450 L) 1ICP5/33/81						
Accessory setup:	View Setup	View Setup diagram 3.5–2 above.						
Serial number:	0713-8493-9342							
os	443-329927 (2012-09-28)							



3.5 EUT setup details, continued

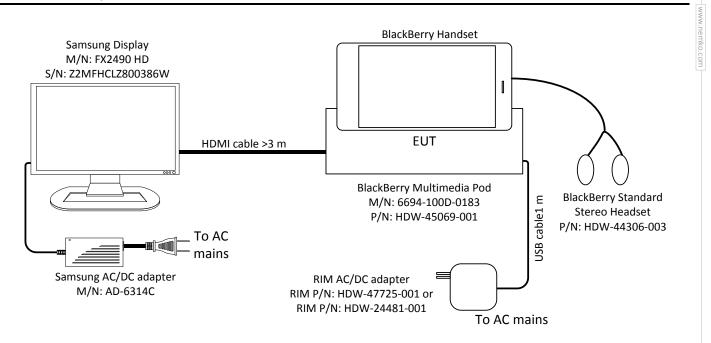


Diagram 3.5-3: Setup diagram Configuration 3

Table 3.5-3: Handheld details for Configuration 3

Device	Device Certification			IC Number		
BlackBerry phone		RFK121LW	RFK121LW L6ARFK120LW			
BlackBerry phone	RFF91LW L6RFF90LW 2503A-RFF90LW					
Hardware: PIN: 2A8C717 IMEI: 004401139111427 CPR: 23181 Rev F PRD-45184-700 ASY-47365-001 Rev U POP-44900-908 Rev B						
Battery:	BAT-47277-	001 (T9 02183 L) 1ICP5/33/8	31			
Accessory setup:	View Setup	diagram 3.5-3 above.				
Serial number:	0713-8471-5450					
OS	443-329927	(2012-09-28)				



3.5 EUT setup details, continued

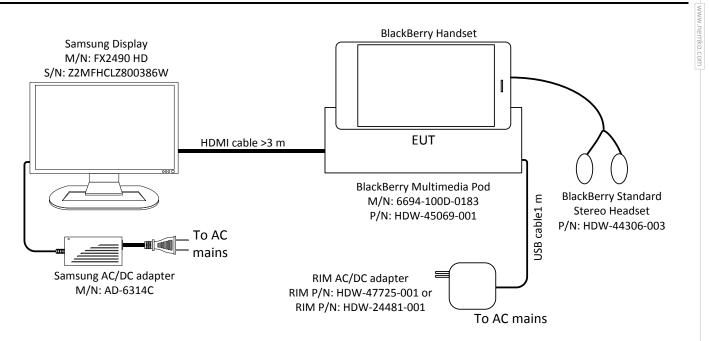


Diagram 3.5-4: Setup diagram Configuration 4

Table 3.5-4: Handheld details for Configuration 4

Device		Certification	FCC ID.	IC Number		
BlackBerry phone		RFH121LW	L6ARFH120LW	2503A-RFH120LW		
Hardware:	PIN: 2A780F7C IMEI: 004402241 CPR: 23051 PRD-4937-700 ASY-49904-001 F POP-49255-904 I	Rev L				
Battery:		T4 01470) 1ICP5/33/81				
Accessory setup:	View Setup diag	ram 3.5-4 above.				
Serial number:	0712-5113-5668					
OS	554-337172 (201	2-10-08)				



Section 4 Engineering considerations

4.1 Modifications incorporated in the EUT

There were no modifications performed to the EUT during this assessment.

4.2 Technical judgment

None

4.3 Deviations from laboratory tests procedures

No deviations were made from laboratory procedures.

Section 5 Test conditions

5.1 Atmospheric conditions

Temperature: 15–30 °C Relative humidity: 20–75 % Air pressure: 86–106 kPa

When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.

5.2 Power supply range

The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages ±5 %, for which the equipment was designed.

Section 6 Measurement uncertainty

6.1 Uncertainty of measurement

Nemko Canada Inc. has calculated measurement uncertainty and is documented in EMC/MUC/001 "Uncertainty in EMC measurements." Measurement uncertainty was calculated using the methods described in CISPR 16-4 Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC measurements; as well as described in UKAS LAB34: The expression of Uncertainty in EMC Testing. Measurement uncertainty calculations assume a coverage factor of K=2 with 95% certainty.

Section 7 Terms and definitions

7.1 Product classifications definitions

Title 47: Telecommunication - Part 15-Radio Frequency devices, Subpart A - General

Class A digital device. A digital device that is marketed for use in a commercial, industrial or business environment, exclusive of a device which is marketed for use by the general public or is intended to be used in the home.

Class B digital device. A digital device that is marketed for use in a residential environment notwithstanding use in commercial, business and industrial environments. Examples of such devices include, but are not limited to, personal computers, calculators, and similar electronic devices that are marketed for use by the general public.

Note: The responsible party may also qualify a device intended to be marketed in a commercial, business or industrial environment as a Class B device, and in fact is encouraged to do so, provided the device complies with the technical specifications for a Class B digital device. In the event that a particular type of device has been found to repeatedly cause harmful interference to radio communications, the Commission may classify such a digital device as a Class B digital device, regardless of its intended use.

ICES-003

ICES-003 prescribes two Classes of limits of radio noise for ITE: Class A limits for non-residential operation and the more stringent Class B limits for residential operation, as set out in section 5 of ICES-003 issue 5.

Only ITE intended strictly for non-residential use in commercial, industrial or business environments, and whose design or other characteristics strongly preclude the possibility of its use in a residential environment, shall be permitted to comply with the less stringent Class A limits.

All ITE that cannot meet the conditions for Class A operation shall comply with the Class B limits.

7.2 General definitions

Title 47: Telecommunication - Part 15-Radio Frequency devices, Subpart A - General

Digital device. (Previously defined as a computing device). An unintentional radiator (device or system) that generates and uses timing signals or pulses at a rate in excess of 9,000 pulses (cycles) per second and uses digital techniques; inclusive of telephone equipment that uses digital techniques or any device or system that generates and uses radio frequency energy for the purpose of performing data processing functions, such as electronic computations, operations, transformations, recording, filling, sorting, storage, retrieval, or transfer. A radio frequency device that is specifically subject to an emanation requirement in any other FCC Rule part or an intentional radiator subject to subpart C of this part that contains a digital device is not subject to the standards for digital devices, provided the digital device is used only to enable operation of the radio frequency device and the digital device does not control additional functions or capabilities.

Note: Computer terminals and peripherals that are intended to be connected to a computer are digital devices.



Section 8 Testing data

8.1 Radiated disturbance

8.1.1 References

ANSI C63.4-2003

8.1.2 Test summary

Verdict Pass

8.1.3 Observations/special notes

- The EUT was set up as table top configuration.
- The EUT was tested with external AC adapter HDW-47725-001 (850 mA Cobra) and HDW-24481-001 (750 mA Cobra). The EUT was compliant with both adapters. Results with AC adapter HDW-47725-001 (850 mA Cobra) have been included to demonstrate compliance.
- All four configurations were scanned. Results included.

8.1.4 Test equipment list

Table 8.1-1: Radiated disturbance equipment list

Equipment	Manufacturer	Model no.	Asset no.	Cal./Ver. cycle	Next Cal./Ver.
3 m EMI test chamber	TDK	SAC-3	FA002047	1 year	Mar. 09/13
Power Source	California Instruments	5001ix	FA001770	1 year	June 13/13
Receiver/spectrum analyzer	Rohde & Schwarz	ESU 26	FA002043	1 year	May 16/13
Bilog antenna	Sunol	JB3	FA002108	1 year	Feb. 07/13
Horn antenna #2	EMCO	3115	FA000825	1 year	Feb. 24/13
1–18 GHz pre-amplifier	JCA	JCA118-503	FA002091	1 year	July 03/13
50 coax cable	Huber + Suhner	None	FA002392	1 year	June. 27/13
50 coax cable	Huber + Suhner	None	FA002074	1 year	Aug. 23/13



8.1.5 Test data

October 9, 2012 and Test date

Test engineer October 23, 2012

David Duchesne and Predrag Golic

21.6 °C **Temperature**

25.7 °C

1010 mbar Air pressure 1009 mbar

Relative humidity

30 % 28 %

Port under test

Enclosure

0-360

Test facility

3 m Semi anechoic chamber

Measuring distance (m) 3 Antenna height variation (m) 1-4 Turn table position (°)

Receiver/spectrum analyzer

settings

30 MHz to 1 GHz:

Preview measurements - Receiver:

Peak detector (Max hold), RBW = 120 kHz, VBW = 300 kHz, Measurement time = 100 ms

Final measurements - Receiver:

Q-Peak detector, RBW = 120 kHz, VBW = 300 kHz, Measurement time = 100 ms

1 GHz to 6 GHz:

Preview measurements - Spectrum Analyzer:

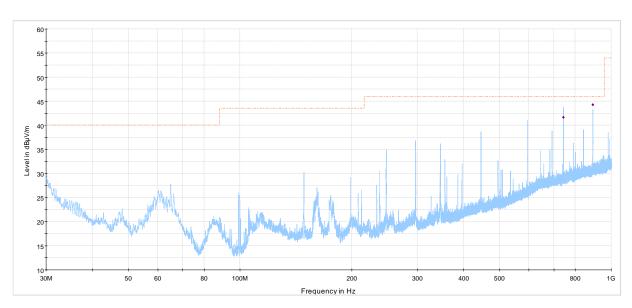
Peak detector (Max hold), RBW = 1 MHz, VBW = 3 MHz, Measurement time = 100 ms

Final measurements - Receiver:

Peak and average detector, RBW = 1 MHz, VBW = 3 MHz, Measurement time = 100 ms

Measurement details

A preview measurement was generated with receiver in continuous scan or sweep mode while the EUT was rotated and antenna adjusted to maximize radiated emission. Emissions detected within 6 dB or above limit were re-measured with the appropriate detector against the correlating limit and recorded as the final measurement.



Vertical and Horizontal (Configuration 1)

FCC Part 15 Class B Q-Peak 3m Limit

Preview Peak Detector Final Q-Peak Detector

The spectral plot is a summation of a vertical and horizontal scan. The spectral scan has been corrected with the associated transducer factors (i.e. antenna factors, cable loss, amplifier gains, and attenuators.

Plot 8.1-1: Radiated disturbance - Configuration 1 and AC adapter HDW-47725-001 (30 to 1000 MHz)

Table 8.1-2: Radiated disturbance - Configuration 1 and AC adapter HDW-47725-001 results for FCC and ICES

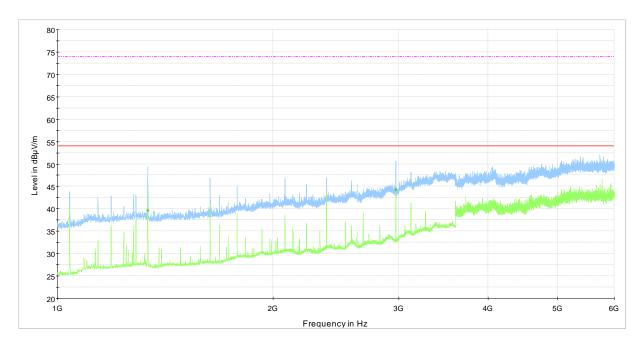
Freq. (MHz)	Q-peak field strength ¹ (dBμV/m)	Meas. time (ms)	Bandwidth (kHz)	Ant. height (cm)	Pol.	Turn table position (°)	Correction factor ² (dB)	Margin (dB)	Limit (dBμV/m)
742.50	41.7	100	120	116	Н	58	23.7	4.3	46.0
891.00	44.3	100	120	100	Н	30	25.5	1.7	46.0

Notes:

¹ Field strength $(dB\mu V/m)$ = receiver/spectrum analyzer value $(dB\mu V)$ + correction factor (dB)

Sample calculation: 41.7 dB μ V/m (field strength) = 18 dB μ V (receiver reading) + 23.7 dB (Correction factor)

² Correction factor = antenna factor ACF (dB) + cable loss (dB) - amplifier gain (dB)

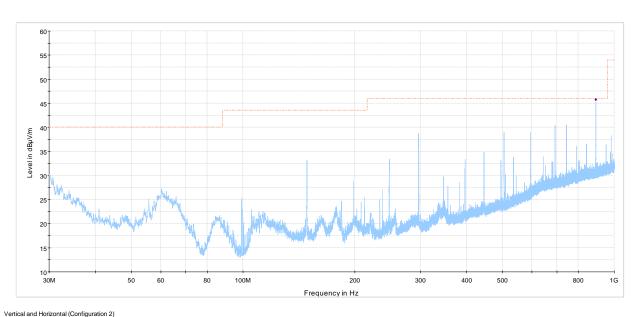


Vertical and Horizontal (Configuration 1)

FCC Part 15 Class B 3m Average Limit
FCC Part 15 Class B 3m Peak Limit
Preview Peak Detector
Preview Average Detector
Final Average Detector

The spectral plot is a summation of a vertical and horizontal scan. The spectral scan has been corrected with the associated transducer factors (i.e. antenna factors, cable loss, amplifier gains, and attenuators.

Plot 8.1-2: Radiated disturbance – Configuration 1 and AC adapter HDW-47725-001 (1 to 6 GHz)



FCC Part 15 Class B Q-Peak 3m Limit

Preview Peak Detector
 Final Q-PEak Detector

The spectral plot is a summation of a vertical and horizontal scan. The spectral scan has been corrected with the associated transducer factors (i.e. antenna factors, cable loss, amplifier gains, and attenuators.

Plot 8.1-3: Radiated disturbance - Configuration 2 and AC adapter HDW-47725-001 (30 to 1000 MHz)

Table 8.1-3: Radiated disturbance - Configuration 2 and AC adapter HDW-47725-001 results for FCC and ICES

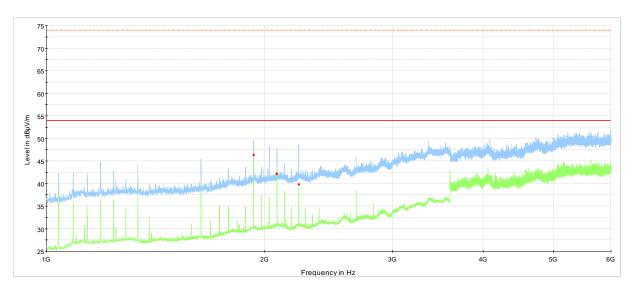
Freq. (MHz)	Q-peak field strength ¹ (dBμV/m)	Meas. time (ms)	Bandwidth (kHz)	Ant. height (cm)	Pol.	Turn table position (°)	Correction factor ² (dB)	Margin (dB)	Limit (dBμV/m)
742.50	45.9	100	120	126	Н	144.0	23.7	0.1	46.0
891.03	42.3	100	120	182	Н	28.0	25.5	3.7	46.0

Notes:

¹ Field strength $(dB\mu V/m)$ = receiver/spectrum analyzer value $(dB\mu V)$ + correction factor (dB)

Sample calculation: $45.9 \text{ dB}_{\mu}\text{V/m}$ (field strength) = $22.2 \text{ dB}_{\mu}\text{V}$ (receiver reading) + 23.7 dB (Correction factor)

² Correction factor = antenna factor ACF (dB) + cable loss (dB) - amplifier gain (dB)



Vertical and Horizontal (Configuration 2)

FCC Part 15 Class B 3m Peak Limit

FCC Part 15 Class B 3m Average Limit

Preview Peak Detector

Preview Average Detector

Final Average Detector

The spectral plot is a summation of a vertical and horizontal scan. The spectral scan has been corrected with the associated transducer factors (i.e. antenna factors, cable loss, amplifier gains, and attenuators.

Plot 8.1-4: Radiated disturbance - Configuration 2 and AC adapter HDW-47725-001 (1 to 6 GHz)

Table 8.1-4: Radiated disturbance - Configuration 2 and AC adapter HDW-47725-001 results for FCC and ICES

Freq. (MHz)	Average field	Meas. time	Bandwidth	Ant. height	Pol.	Turn table	Correction	Margin	Limit
	strength ¹ (dBμV/m)	(ms)	(kHz)	(cm)	FOI.	position (°)	factor ² (dB)	(dB)	(dBµV/m)
1930.564	46.3	100	1000	119.0	Н	27.0	-14.7	7.7	54.0
2078.868	42.1	100	1000	100.0	Н	16.0	-13.9	11.9	54.0
2227.456	39.8	100	1000	99.9	Н	28.0	-13.6	14.2	54.0

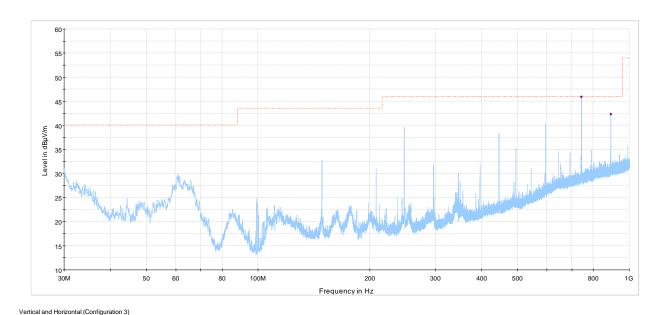
Notes:

Sample calculation: $46.3 \text{ dB}_{\mu}\text{V/m}$ (field strength) = $61 \text{ dB}_{\mu}\text{V}$ (receiver reading) + (-14.7) dB (Correction factor)

¹ Field strength $(dB\mu V/m)$ = receiver/spectrum analyzer value $(dB\mu V)$ + correction factor (dB)

² Correction factor = antenna factor ACF (dB) + cable loss (dB) - amplifier gain (dB)

FCC Part 15 Class B Q-Peak 3m Limit Preview Peak Detector Final Q-Peak Detector



The spectral plot is a summation of a vertical and horizontal scan. The spectral scan has been corrected with the associated transducer factors (i.e. antenna factors, cable loss, amplifier gains, and attenuators.

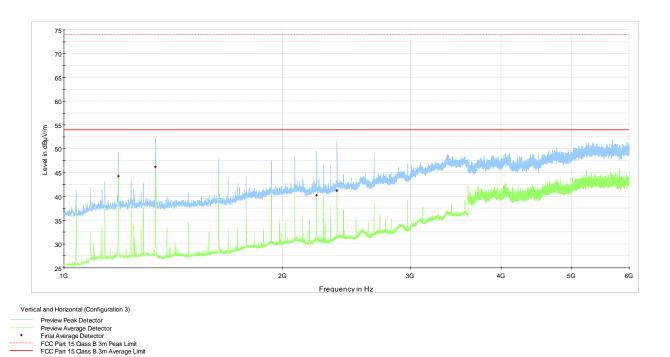
Plot 8.1-5: Radiated disturbance - Configuration 3 and AC adapter HDW-47725-001 (30 to 1000 MHz)

Table 8.1-5: Radiated disturbance - Configuration 3 and AC adapter HDW-47725-001 results for FCC and ICES

Freq. (MHz)	Q-peak field strength ¹ (dBμV/m)	Meas. time (ms)	Bandwidth (kHz)	Ant. height (cm)	Pol.	Turn table position (°)	Correction factor ² (dB)	Margin (dB)	Limit (dBμV/m)
891.00	45.7	100	120	107	Н	208	25.5	0.3	46.0
Notes: ¹ F	ield strength (dBμV/m)	= receiver/spect	rum analyzer va	lue (dBμV) + corre	ction facto	r (dB)			

² Correction factor = antenna factor ACF (dB) + cable loss (dB) - amplifier gain (dB)

Sample calculation: $45.7 \text{ dB}_{\mu}\text{V/m}$ (field strength) = $20.2 \text{ dB}_{\mu}\text{V}$ (receiver reading) + 25.5 dB (Correction factor)



The spectral plot is a summation of a vertical and horizontal scan. The spectral scan has been corrected with the associated transducer factors (i.e. antenna factors, cable loss, amplifier gains, and attenuators.

Plot 8.1-6: Radiated disturbance – Configuration 3 and AC adapter HDW-47725-001 (1 to 6 GHz)

Table 8.1-6: Radiated disturbance – Configuration 3 and AC adapter HDW-47725-001 results for FCC and ICES

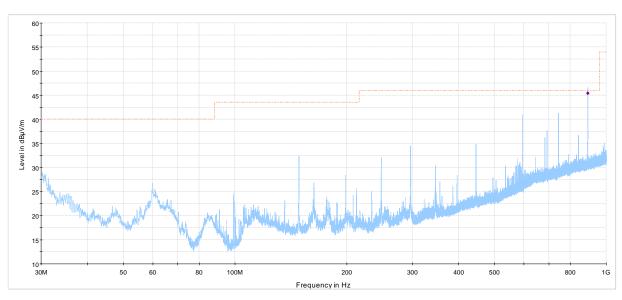
Freq. (MHz)	Average field strength ¹ (dBμV/m)	Meas. time (ms)	Bandwidth (kHz)	Ant. height (cm)	Pol.	Turn table position (°)	Correction factor ² (dB)	Margin (dB)	Limit (dBμV/m)
1187.860	44.2	100	1000	103.9	Н	17.0	-17.6	9.8	54.0
1336.440	46.2	100	1000	99.0	V	252.0	-17.5	7.8	54.0
2227.468	40.2	100	1000	99.0	Н	21.0	-13.6	13.8	54.0
2376.008	41.2	100	1000	130.0	Н	7.0	-12.8	12.8	54.0

Notes:

Sample calculation: 44.2 dB μ V/m (field strength) = 61.8 dB μ V (receiver reading) + (-17.6) dB (Correction factor)

¹ Field strength $(dB\mu V/m)$ = receiver/spectrum analyzer value $(dB\mu V)$ + correction factor (dB)

² Correction factor = antenna factor ACF (dB) + cable loss (dB) - amplifier gain (dB)



Vertical and Horizontal (Configuration 4)

FCC Part 15 Class B 3m Q-Peak Limit

Preview Peak Detector

♦ Final Q-Peak Detector

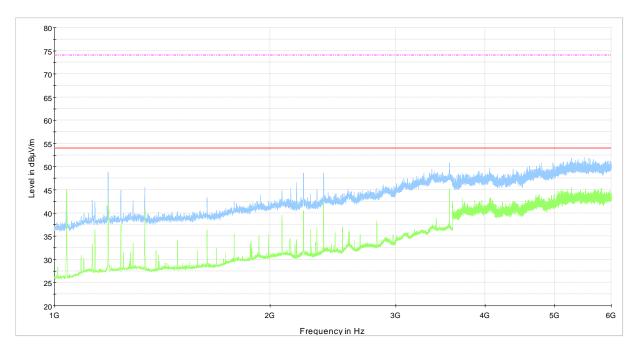
The spectral plot is a summation of a vertical and horizontal scan. The spectral scan has been corrected with the associated transducer factors (i.e. antenna factors, cable loss, amplifier gains, and attenuators.

Plot 8.1-7: Radiated disturbance - Configuration 4 and AC adapter HDW-47725-001 (30 to 1000 MHz)

Table 8.1-7: Radiated disturbance - Configuration 4 and AC adapter HDW-47725-001 results for FCC and ICES

Freq. (MHz)	Q-peak field strength ¹ (dBμV/m)	Meas. time (ms)	Bandwidth (kHz)	Ant. height (cm)	Pol.	Turn table position (°)	Correction factor ² (dB)	Margin (dB)	Limit (dBμV/m)
891.00	45.4	100	120	306	Н	24	25.5	0.6	46.0
Notes: 1 F	¹ Field strength (dB _μ V/m) = receiver/spectrum analyzer value (dB _μ V) + correction factor (dB)								
² C	Correction factor = anter	nna factor ACF (dB) + cable loss	(dB) - amplifier ga	ain (dB)				

Sample calculation: $45.4 \text{ dB}_{\mu}\text{V/m}$ (field strength) = $19.9 \text{ dB}_{\mu}\text{V}$ (receiver reading) + 25.5 dB (Correction factor)



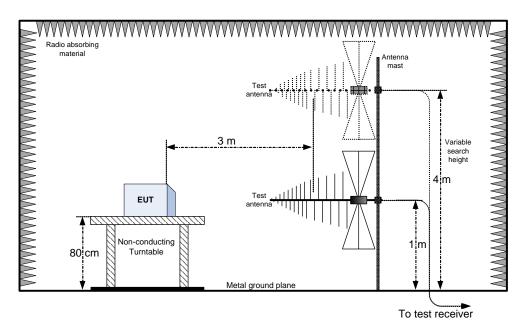
Vertical and Horizontal (Configuration 4)

FCC Part 15 Class B 3m Average Limit
FCC Part 15 Class B 3m Peak Limit
Preview Peak Detector
Preview Average Detector

The spectral plot is a summation of a vertical and horizontal scan. The spectral scan has been corrected with the associated transducer factors (i.e. antenna factors, cable loss, amplifier gains, and attenuators.

Plot 8.1-8: Radiated disturbance – Configuration 4 and AC adapter HDW-47725-001 (1 to 6 GHz)

Setup diagram 8.1.6



Setup diagram 8.1-1: Radiated disturbance setup



8.2 Conducted disturbance at mains port

8.2.1 References

ANSI C63.4-2003

8.2.2 Test summary

Verdict Pass

8.2.3 Observations/special notes

- The EUT was set up as table top configuration.
- The EUT was tested with external AC adapter HDW-47725-001 (850 mA Cobra) and HDW-24481-001 (750 mA Cobra). The EUT was compliant with both adapters. Results with AC adapter HDW-47725-001 (850 mA Cobra) have been included to demonstrate compliance.
- All four configurations were scanned. Results included.

8.2.4 Test equipment list

Table 8.2-1: Conducted disturbance at mains port equipment list

Equipment	Manufacturer	Model no.	Asset no.	Cal./Ver. cycle	Next Cal./Ver.
Power Source	California Instruments	5001ix	FA001770	1 year	June 13/13
Receiver/spectrum analyzer	Rohde & Schwarz	ESU 26	FA002043	1 year	May 16/13
LISN	Rohde & Schwarz	ENV216	FA002023	1 year	Nov. 18/12
50 coax cable	Huber + Suhner	None	FA002394	1 year	June. 27/13
Notes: None					

8.2.5 Test data

Test date October 9, 2012 Test engineer David Duchesne

Temperature 21.6 °C **Air pressure** 1010 mbar **Relative humidity** 30 %

Port under test AC input of external AC-DC adapter

Receiver/spectrum analyzer Preview measurements – Receiver: settings Peak detector (Max hold), RBW = 9

Peak detector (Max hold), RBW = 9 kHz, VBW = 30 kHz, Measurement time = 100 ms

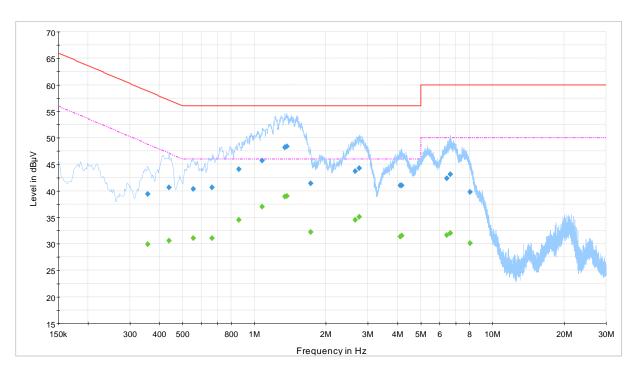
Final measurements – Receiver:

Q-Peak and Average detector, RBW = 9 kHz, VBW = 30 kHz, Measurement time = 100 ms

Measurement details A preview measurement was generated with the receiver in continuous scan mode. Emissions detected

within 6 dB or above limit were re-measured with the appropriate detector against the correlating limit

and recorded as the final measurement.



120VAC/60Hz, Phase (Configuration 1)

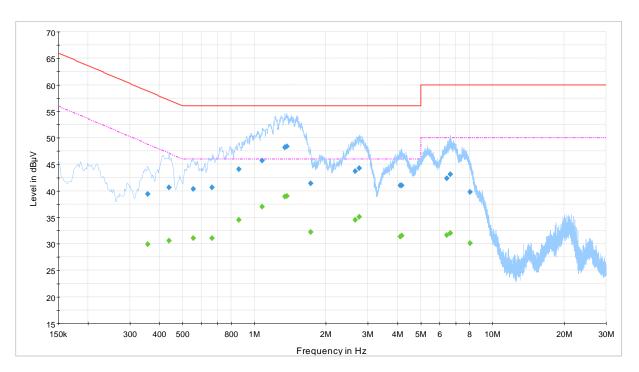
CISPR 22 Mains QP Class B CISPR 22 Mains AV Class B

Preview Result 1-PK+
Final Result 1-QPK

Final Result 2-AVG

The spectral plot has been corrected with transducer factors. (i.e. cable loss, LISN factors, and attenuators)

Plot 8.2-1: Conducted disturbance on phase line - Configuration 1 and AC adapter HDW-47725-001



120VAC/60Hz, Phase (Configuration 1)

CISPR 22 Mains QP Class B
CISPR 22 Mains AV Class B
Preview Result 1-PK+

Final Result 1-QPK

Final Result 2-AVG

The spectral plot has been corrected with transducer factors. (i.e. cable loss, LISN factors, and attenuators)

Plot 8.2-2: Conducted disturbance on neutral line - Configuration 1 and AC adapter HDW-47725-001



FCC 47 CFR Part 15, Subpart B - Verification and ICES-003 Issue 5 August 2012

8.2.5 Test data, continued

Table 8.2-2: Conducted disturbance (Quasi-Peak) results - Configuration 1 and AC adapter HDW-47725-001

Freq. (MHz)	Q-Peak result ¹ (dBµV)	Meas. time (ms)	Bandwidth (kHz)	Filter	Conductor	Correction factor ² (dB)	Margin (dB)	Limit (dBµV)
0.35700	39.4	100	9	On	L1	10.0	19.4	58.8
0.43800	40.7	100	9	On	L1	10.0	16.4	57.1
0.55275	40.3	100	9	On	L1	10.1	15.7	56.0
0.66525	40.6	100	9	On	L1	10.1	15.4	56.0
0.86100	44.1	100	9	On	L1	10.1	11.9	56.0
1.07925	45.7	100	9	On	L1	10.0	10.3	56.0
1.34025	48.2	100	9	On	L1	10.0	7.8	56.0
1.36950	48.3	100	9	On	L1	10.0	7.7	56.0
1.72275	41.4	100	9	On	L1	10.1	14.6	56.0
2.64975	43.7	100	9	On	L1	10.2	12.3	56.0
2.76225	44.3	100	9	On	L1	10.2	11.7	56.0
4.09650	41.0	100	9	On	L1	10.3	15.0	56.0
4.15500	41.0	100	9	On	L1	10.3	15.0	56.0
6.41400	42.4	100	9	On	L1	10.2	17.6	60.0
6.63450	43.1	100	9	On	L1	10.2	16.9	60.0
8.04975	39.8	100	9	On	L1	10.3	20.2	60.0
0.41325	40.4	100	9	On	N	10.0	17.2	57.6
0.54825	37.4	100	9	On	N	10.1	18.6	56.0
0.56850	37.9	100	9	On	N	10.1	18.1	56.0
0.87675	40.9	100	9	On	N	10.1	15.1	56.0
1.08375	43.6	100	9	On	N	10.0	12.4	56.0
1.36725	45.2	100	9	On	N	10.0	10.8	56.0
1.44825	45.0	100	9	On	N	10.0	11.0	56.0
1.96575	38.0	100	9	On	N	10.1	18.0	56.0
2.64525	40.6	100	9	On	N	10.2	15.4	56.0
2.69925	41.0	100	9	On	N	10.2	15.0	56.0
4.11225	37.2	100	9	On	N	10.2	18.8	56.0
4.20000	37.2	100	9	On	N	10.2	18.8	56.0
5.37000	36.1	100	9	On	N	10.2	23.9	60.0
6.71775	38.9	100	9	On	N	10.2	21.1	60.0

Notes:

Sample calculation: $48.3 \text{ dB}_{\mu}\text{V}$ (result) = $38.3 \text{ dB}_{\mu}\text{V}$ (receiver reading) + 10.0 dB (Correction factor)

Result (dB μ V) = receiver/spectrum analyzer value (dB μ V) + correction factor (dB)

² Correction factor (dB) = LISN factor IL (dB) + cable loss (dB) + attenuator (dB)

FCC 47 CFR Part 15, Subpart B - Verification and ICES-003 Issue 5 August 2012

8.2.5 Test data, continued

Table 8.2-3: Conducted disturbance (Average) results - Configuration 1 and AC adapter HDW-47725-001

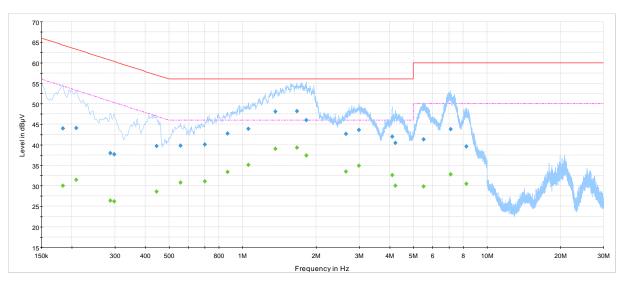
Freq. (MHz)	Average result ¹ (dBµV)	Meas. time (ms)	Bandwidth (kHz)	Filter	Conductor	Correction factor ² (dB)	Margin (dB)	Limit (dBµV)
0.35700	29.9	100	9	On	L1	10.0	18.9	48.8
0.43800	30.6	100	9	On	L1	10.0	16.5	47.1
0.55275	31.1	100	9	On	L1	10.1	14.9	46.0
0.66525	31.0	100	9	On	L1	10.1	15.0	46.0
0.86100	34.5	100	9	On	L1	10.1	11.5	46.0
1.07925	37.0	100	9	On	L1	10.0	9.0	46.0
1.34025	38.9	100	9	On	L1	10.0	7.1	46.0
1.36950	39.0	100	9	On	L1	10.0	7.0	46.0
1.72275	32.2	100	9	On	L1	10.1	13.8	46.0
2.64975	34.5	100	9	On	L1	10.2	11.5	46.0
2.76225	35.1	100	9	On	L1	10.2	10.9	46.0
4.09650	31.4	100	9	On	L1	10.3	14.6	46.0
4.15500	31.6	100	9	On	L1	10.3	14.4	46.0
6.41400	31.7	100	9	On	L1	10.2	18.3	50.0
6.63450	32.0	100	9	On	L1	10.2	18.0	50.0
8.04975	30.1	100	9	On	L1	10.3	19.9	50.0
0.41325	34.1	100	9	On	N	10.0	13.5	47.6
0.54825	31.3	100	9	On	N	10.1	14.7	46.0
0.56850	31.2	100	9	On	N	10.1	14.8	46.0
0.87675	33.9	100	9	On	N	10.1	12.1	46.0
1.08375	36.6	100	9	On	N	10.0	9.4	46.0
1.36725	38.1	100	9	On	N	10.0	7.9	46.0
1.44825	38.1	100	9	On	N	10.0	7.9	46.0
1.96575	29.8	100	9	On	N	10.1	16.2	46.0
2.64525	33.9	100	9	On	N	10.2	12.1	46.0
2.69925	34.1	100	9	On	N	10.2	11.9	46.0
4.11225	30.0	100	9	On	N	10.2	16.0	46.0
4.20000	29.8	100	9	On	N	10.2	16.2	46.0
5.37000	26.9	100	9	On	N	10.2	23.1	50.0
6.71775	27.5	100	9	On	N	10.2	22.5	50.0

Notes:

Sample calculation: 39 dB μ V (result) = 29.0 dB μ V (receiver reading) + 10.0 dB (Correction factor)

Result (dB μ V) = receiver/spectrum analyzer value (dB μ V) + correction factor (dB)

² Correction factor (dB) = LISN factor IL (dB) + cable loss (dB) + attenuator (dB)

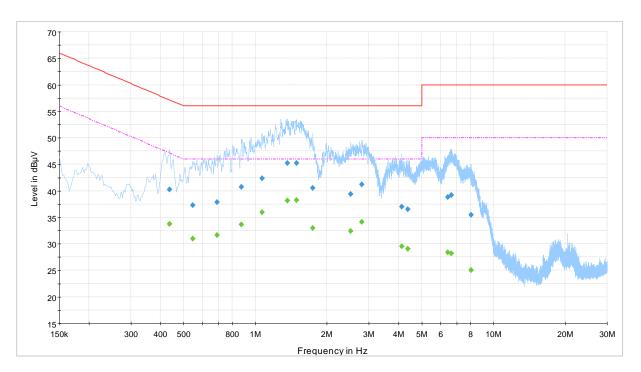


120VAC/60Hz, Phase (Configuration 2)

CISPR 22 Mains QP Class B
CISPR 22 Mains AV Class B
Preview Result 1-R+
Final Result 1-QPK
Final Result 2-AVG

The spectral plot has been corrected with transducer factors. (i.e. cable loss, LISN factors, and attenuators)

Plot 8.2-3: Conducted disturbance on phase line – Configuration 2



120VAC/60Hz, Neutral (Configuration 2)

CISPR 22 Mains QP Class B
CISPR 22 Mains AV Class B
Preview Result 1-PK+

Final Result 1-QPK

Final Result 2-AVG

The spectral plot has been corrected with transducer factors. (i.e. cable loss, LISN factors, and attenuators)

Plot 8.2-4: Conducted disturbance on neutral line – Configuration 2

Table 8.2-4: Conducted disturbance (Quasi-Peak) results - Configuration 2 and AC adapter HDW-47725-001

Freq. (MHz)	Q-Peak result ¹ (dBµV)	Meas. time (ms)	Bandwidth (kHz)	Filter	Conductor	Correction factor ² (dB)	Margin (dB)	Limit (dBµV)
0.18375	43.9	100	9	On	L1	10.2	20.4	64.3
0.20850	44.1	100	9	On	L1	10.0	19.1	63.3
0.28725	38.0	100	9	On	L1	10.0	22.6	60.6
0.29850	37.7	100	9	On	L1	10.0	22.6	60.3
0.44475	39.7	100	9	On	L1	10.0	17.2	57.0
0.55725	39.8	100	9	On	L1	10.1	16.2	56.0
0.70125	40.1	100	9	On	L1	10.1	15.9	56.0
0.86775	42.7	100	9	On	L1	10.1	13.3	56.0
1.05675	43.9	100	9	On	L1	10.0	12.1	56.0
1.36275	48.1	100	9	On	L1	10.0	7.9	56.0
1.66650	48.2	100	9	On	L1	10.1	7.8	56.0
1.82175	46.0	100	9	On	L1	10.1	10.0	56.0
2.64975	42.6	100	9	On	L1	10.2	13.4	56.0
2.98950	43.6	100	9	On	L1	10.2	12.4	56.0
4.08975	42.0	100	9	On	L1	10.3	14.0	56.0
4.21575	40.4	100	9	On	L1	10.3	15.6	56.0
5.50500	41.3	100	9	On	L1	10.2	18.7	60.0
7.09125	43.8	100	9	On	L1	10.2	16.2	60.0
8.21850	39.6	100	9	On	L1	10.3	20.4	60.0
0.43575	40.3	100	9	On	N	10.0	16.9	57.1
0.54600	37.2	100	9	On	N	10.1	18.8	56.0
0.69000	37.9	100	9	On	N	10.1	18.1	56.0
0.87450	40.7	100	9	On	N	10.1	15.3	56.0
1.06575	42.4	100	9	On	N	10.0	13.6	56.0
1.36050	45.2	100	9	On	N	10.0	10.8	56.0
1.48425	45.2	100	9	On	N	10.0	10.8	56.0
1.74075	40.6	100	9	On	N	10.1	15.4	56.0
2.51700	39.4	100	9	On	N	10.2	16.6	56.0
2.80275	41.2	100	9	On	N	10.2	14.8	56.0
4.12350	37.0	100	9	On	N	10.2	19.0	56.0
4.36200	36.5	100	9	On	N	10.2	19.5	56.0
6.40950	38.9	100	9	On	N	10.2	21.1	60.0
6.65025	39.2	100	9	On	N	10.2	20.8	60.0
8.04750	35.4	100	9	On	N	10.3	24.6	60.0

Notes:

Sample calculation: $48.2 \text{ dB}_{\mu}\text{V}$ (result) = $38.1 \text{ dB}_{\mu}\text{V}$ (receiver reading) + 10.1 dB (Correction factor)

¹ Result ($dB\mu V$) = receiver/spectrum analyzer value ($dB\mu V$) + correction factor (dB)

² Correction factor (dB) = LISN factor IL (dB) + cable loss (dB) + attenuator (dB)

Table 8.2-5: Conducted disturbance (Average) results – Configuration 2 and AC adapter HDW-47725-001

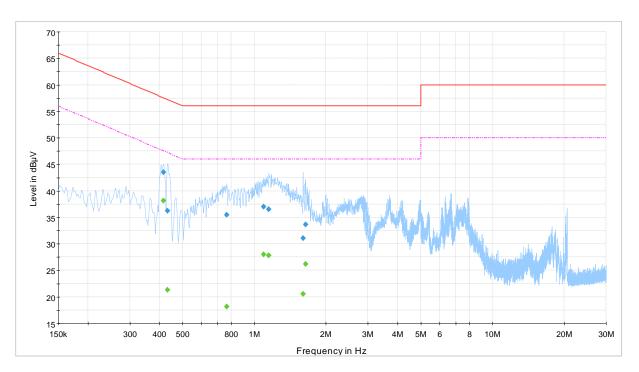
Freq. (MHz)	Average result ¹ (dBµV)	Meas. time (ms)	Bandwidth (kHz)	Filter	Conductor	Correction factor ² (dB)	Margin (dB)	Limit (dBµV)
0.18375	30.0	100	9	On	L1	10.2	24.3	54.3
0.20850	31.5	100	9	On	L1	10.0	21.8	53.3
0.28725	26.4	100	9	On	L1	10.0	24.2	50.6
0.29850	26.2	100	9	On	L1	10.0	24.1	50.3
0.44475	28.6	100	9	On	L1	10.0	18.4	47.0
0.55725	30.8	100	9	On	L1	10.1	15.2	46.0
0.70125	31.1	100	9	On	L1	10.1	14.9	46.0
0.86775	33.4	100	9	On	L1	10.1	12.6	46.0
1.05675	35.0	100	9	On	L1	10.0	11.0	46.0
1.36275	39.0	100	9	On	L1	10.0	7.0	46.0
1.66650	39.3	100	9	On	L1	10.1	6.7	46.0
1.82175	37.4	100	9	On	L1	10.1	8.6	46.0
2.64975	33.5	100	9	On	L1	10.2	12.5	46.0
2.98950	34.9	100	9	On	L1	10.2	11.1	46.0
4.08975	32.6	100	9	On	L1	10.3	13.4	46.0
4.21575	30.0	100	9	On	L1	10.3	16.0	46.0
5.50500	29.8	100	9	On	L1	10.2	20.2	50.0
7.09125	32.8	100	9	On	L1	10.2	17.2	50.0
8.21850	30.5	100	9	On	L1	10.3	19.5	50.0
0.43575	33.8	100	9	On	N	10.0	13.4	47.1
0.54600	31.0	100	9	On	N	10.1	15.0	46.0
0.69000	31.6	100	9	On	N	10.1	14.4	46.0
0.87450	33.6	100	9	On	N	10.1	12.4	46.0
1.06575	36.0	100	9	On	N	10.0	10.0	46.0
1.36050	38.1	100	9	On	N	10.0	7.9	46.0
1.48425	38.2	100	9	On	N	10.0	7.8	46.0
1.74075	33.0	100	9	On	N	10.1	13.0	46.0
2.51700	32.4	100	9	On	N	10.2	13.6	46.0
2.80275	34.1	100	9	On	N	10.2	11.9	46.0
4.12350	29.5	100	9	On	N	10.2	16.5	46.0
4.36200	29.1	100	9	On	N	10.2	16.9	46.0
6.40950	28.4	100	9	On	N	10.2	21.6	50.0
6.65025	28.2	100	9	On	N	10.2	21.8	50.0
8.04750	25.1	100	9	On	N	10.3	24.9	50.0

Notes:

Sample calculation: 39.3 dB μ V (result) = 29.2 dB μ V (receiver reading) + 10.1 dB (Correction factor)

Result (dB μ V) = receiver/spectrum analyzer value (dB μ V) + correction factor (dB)

² Correction factor (dB) = LISN factor IL (dB) + cable loss (dB) + attenuator (dB)



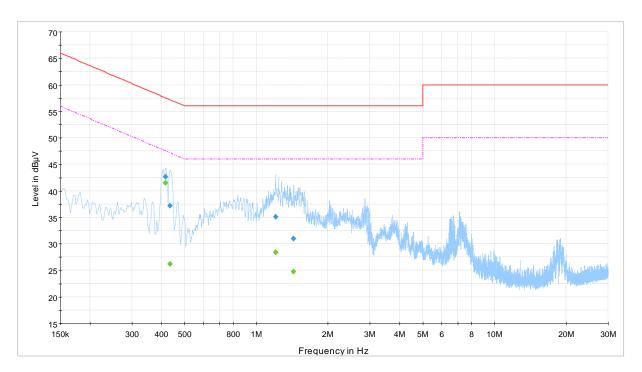
120VAC/60Hz, Phase (Configuration 3)

CISPR 22 Mains QP Class B
CISPR 22 Mains AV Class B
Preview Result 1-PK+

Final Result 1-QPKFinal Result 2-AVG

The spectral plot has been corrected with transducer factors. (i.e. cable loss, LISN factors, and attenuators)

Plot 8.2-5: Conducted disturbance on phase line – Configuration 3



120VAC/60Hz, Neutral (Configuration 3)

CISPR 22 Mains QP Class B
CISPR 22 Mains AV Class B
Preview Result 1-PK+

Final Result 1-QPK

Final Result 2-AVG

The spectral plot has been corrected with transducer factors. (i.e. cable loss, LISN factors, and attenuators)

Plot 8.2-6: Conducted disturbance on neutral line – Configuration 3

Table 8.2-6: Conducted disturbance (Quasi-Peak) results - Configuration 3 and AC adapter HDW-47725-001

Freq. (MHz)	Q-Peak result ¹ (dBµV)	Meas. time (ms)	Bandwidth (kHz)	Filter	Conductor	Correction factor ² (dB)	Margin (dB)	Limit (dBµV)
0.41550	43.5	100	9	On	L1	10.0	14.0	57.5
0.43125	36.3	100	9	On	L1	10.0	21.0	57.2
0.76650	35.5	100	9	On	L1	10.1	20.5	56.0
1.09275	37.0	100	9	On	L1	10.0	19.0	56.0
1.14900	36.5	100	9	On	L1	10.0	19.5	56.0
1.59900	31.1	100	9	On	L1	10.1	24.9	56.0
1.63725	33.6	100	9	On	L1	10.1	22.4	56.0
0.4155	42.7	100	9	On	N	10.0	14.9	57.5
0.4335	37.2	100	9	On	N	10.0	20.0	57.2
1.2030	35.1	100	9	On	N	10.0	20.9	56.0
1.4325	31.0	100	9	On	N	10.0	25.0	56.0

Notes:

Sample calculation: $43.5 \text{ dB}_{\mu}\text{V}$ (result) = $33.5 \text{ dB}_{\mu}\text{V}$ (receiver reading) + 10.0 dB (Correction factor)

Table 8.2-7: Conducted disturbance (Average) results - Configuration 3 and AC adapter HDW-47725-001

Freq. (MHz)	Average result ¹ (dBµV)	Meas. time (ms)	Bandwidth (kHz)	Filter	Conductor	Correction factor ² (dB)	Margin (dB)	Limit (dBµV)
0.41550	38.1	100	9	On	L1	10.0	9.4	47.5
0.43125	21.3	100	9	On	L1	10.0	25.9	47.2
0.76650	18.1	100	9	On	L1	10.1	27.9	46.0
1.09275	28.0	100	9	On	L1	10.0	18.0	46.0
1.14900	27.8	100	9	On	L1	10.0	18.2	46.0
1.59900	20.6	100	9	On	L1	10.1	25.4	46.0
1.63725	26.2	100	9	On	L1	10.1	19.8	46.0
0.4155	41.5	100	9	On	N	10.0	6.0	47.5
0.4335	26.2	100	9	On	N	10.0	21.0	47.2
1.2030	28.4	100	9	On	Ν	10.0	17.6	46.0
1.4325	24.8	100	9	On	Ν	10.0	21.2	46.0

Notes:

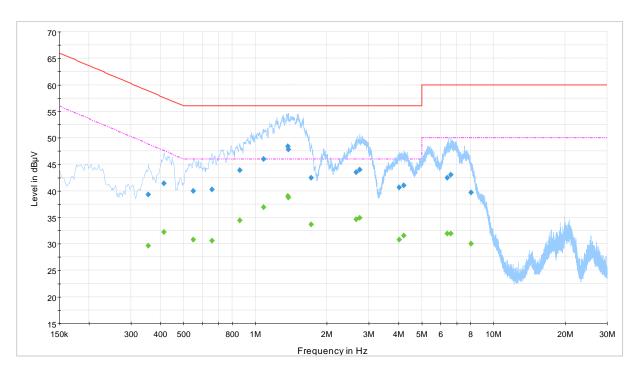
Sample calculation: 41.5 dB μ V (result) = 31.5 dB μ V (receiver reading) + 10.0 dB (Correction factor)

¹ Result (dBμV) = receiver/spectrum analyzer value (dBμV) + correction factor (dB)

² Correction factor (dB) = LISN factor IL (dB) + cable loss (dB) + attenuator (dB)

¹ Result (dB μ V) = receiver/spectrum analyzer value (dB μ V) + correction factor (dB)

² Correction factor (dB) = LISN factor IL (dB) + cable loss (dB) + attenuator (dB)



1220VAC/60Hz, Phase (Configuration 4)

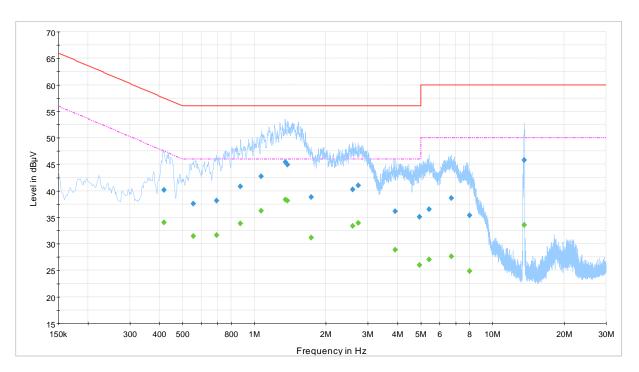
CISPR 22 Mains QP Class B CISPR 22 Mains AV Class B

Preview Result 1-PK+
Final Result 1-QPK

Final Result 2-AVG

The spectral plot has been corrected with transducer factors. (i.e. cable loss, LISN factors, and attenuators)

Plot 8.2-7: Conducted disturbance on phase line - Configuration 4 and AC adapter HDW-47725-001



120VAC/60Hz, Neutral (Configuration 4)

CISPR 22 Mains QP Class B
CISPR 22 Mains AV Class B
Preview Result 1-PK+

Final Result 1-QPK

Final Result 2-AVG

The spectral plot has been corrected with transducer factors. (i.e. cable loss, LISN factors, and attenuators)

Plot 8.2-8: Conducted disturbance on neutral line - Configuration 4 and AC adapter HDW-47725-001

FCC 47 CFR Part 15, Subpart B - Verification and ICES-003 Issue 5 August 2012

8.2.5 Test data, continued

Table 8.2-8: Conducted disturbance (Quasi-Peak) results – Configuration 4 and AC adapter HDW-47725-001

Freq. (MHz)	Q-Peak result ¹ (dBµV)	Meas. time (ms)	Bandwidth (kHz)	Filter	Conductor	Correction factor ² (dB)	Margin (dB)	Limit (dBµV)
0.35475	39.3	100	9	On	L1	10.0	19.6	58.9
0.41325	41.4	100	9	On	L1	10.0	16.2	57.6
0.54825	39.9	100	9	On	L1	10.1	16.1	56.0
0.65625	40.3	100	9	On	L1	10.1	15.7	56.0
0.85875	43.9	100	9	On	L1	10.1	12.1	56.0
1.08375	46.0	100	9	On	L1	10.0	10.0	56.0
1.36725	48.4	100	9	On	L1	10.0	7.6	56.0
1.37850	47.8	100	9	On	L1	10.0	8.2	56.0
1.71600	42.5	100	9	On	L1	10.1	13.5	56.0
2.65200	43.5	100	9	On	L1	10.2	12.5	56.0
2.73750	44.0	100	9	On	L1	10.2	12.0	56.0
4.00875	40.6	100	9	On	L1	10.3	15.4	56.0
4.20225	41.0	100	9	On	L1	10.3	15.0	56.0
6.40725	42.5	100	9	On	L1	10.2	17.5	60.0
6.60975	43.0	100	9	On	L1	10.2	17.0	60.0
8.04300	39.7	100	9	On	L1	10.3	20.3	60.0
0.41775	40.2	100	9	On	N	10.0	17.3	57.5
0.55500	37.6	100	9	On	N	10.1	18.4	56.0
0.69225	38.1	100	9	On	N	10.1	17.9	56.0
0.87450	40.8	100	9	On	N	10.1	15.2	56.0
1.06800	42.7	100	9	On	N	10.0	13.3	56.0
1.34700	45.4	100	9	On	N	10.0	10.6	56.0
1.37850	44.9	100	9	On	N	10.0	11.1	56.0
1.72950	38.9	100	9	On	N	10.1	17.1	56.0
2.59125	40.2	100	9	On	N	10.2	15.8	56.0
2.72400	41.0	100	9	On	N	10.2	15.0	56.0
3.89175	36.1	100	9	On	N	10.2	19.9	56.0
4.94025	35.1	100	9	On	N	10.2	20.9	56.0
5.40825	36.5	100	9	On	N	10.2	23.5	60.0
6.71325	38.6	100	9	On	N	10.2	21.4	60.0
8.02500	35.4	100	9	On	N	10.3	24.6	60.0
13.55725	45.8	100	9	On	N	10.5	14.2	60.0

Notes:

Sample calculation: $48.4 \text{ dB}_{\mu}\text{V}$ (result) = $38.4 \text{ dB}_{\mu}\text{V}$ (receiver reading) + 10.0 dB (Correction factor)

¹ Result (dB μ V) = receiver/spectrum analyzer value (dB μ V) + correction factor (dB)

² Correction factor (dB) = LISN factor IL (dB) + cable loss (dB) + attenuator (dB)



Table 8.2-9: Conducted disturbance (Average) results – Configuration 4 and AC adapter HDW-47725-001

Freq. (MHz)	Average result ¹ (dBµV)	Meas. time (ms)	Bandwidth (kHz)	Filter	Conductor	Correction factor ² (dB)	Margin (dB)	Limit (dBµV)
0.354750	29.6	100	9	On	L1	10.0	19.3	48.9
0.41325	32.3	100	9	On	L1	10.0	15.3	47.6
0.54825	30.7	100	9	On	L1	10.1	15.3	46.0
0.65625	30.6	100	9	On	L1	10.1	15.4	46.0
0.85875	34.4	100	9	On	L1	10.1	11.6	46.0
1.08375	36.9	100	9	On	L1	10.0	9.1	46.0
1.36725	39.0	100	9	On	L1	10.0	7.0	46.0
1.37850	38.8	100	9	On	L1	10.0	7.2	46.0
1.71600	33.6	100	9	On	L1	10.1	12.4	46.0
2.65200	34.6	100	9	On	L1	10.2	11.4	46.0
2.73750	34.9	100	9	On	L1	10.2	11.1	46.0
4.00875	30.8	100	9	On	L1	10.3	15.2	46.0
4.20225	31.5	100	9	On	L1	10.3	14.5	46.0
6.40725	31.9	100	9	On	L1	10.2	18.1	50.0
6.60975	32.0	100	9	On	L1	10.2	18.0	50.0
8.04300	30.0	100	9	On	L1	10.3	20.0	50.0
0.41775	34.1	100	9	On	N	10.0	13.4	47.5
0.55500	31.5	100	9	On	N	10.1	14.5	46.0
0.69225	31.6	100	9	On	N	10.1	14.4	46.0
0.87450	33.9	100	9	On	N	10.1	12.1	46.0
1.06800	36.2	100	9	On	N	10.0	9.8	46.0
1.34700	38.3	100	9	On	N	10.0	7.7	46.0
1.37850	38.1	100	9	On	N	10.0	7.9	46.0
1.72950	31.1	100	9	On	N	10.1	14.9	46.0
2.59125	33.4	100	9	On	N	10.2	12.6	46.0
2.72400	33.9	100	9	On	N	10.2	12.1	46.0
3.89175	28.9	100	9	On	N	10.2	17.1	46.0
4.94025	26.0	100	9	On	N	10.2	20.0	46.0
5.40825	27.1	100	9	On	N	10.2	22.9	50.0
6.71325	27.6	100	9	On	N	10.2	22.4	50.0
8.02500	24.9	100	9	On	N	10.3	25.1	50.0
13.55725	33.5	100	9	On	N	10.5	16.5	50.0

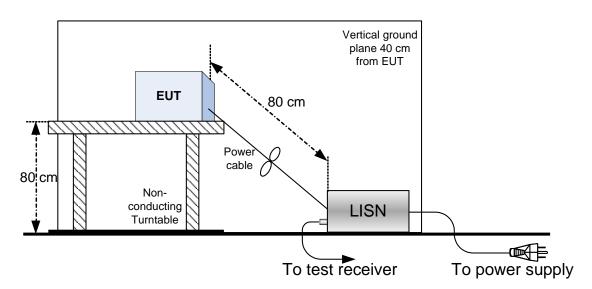
Notes:

Sample calculation: 39.0 dB μ V (result) = 29 dB μ V (receiver reading) + 10.0 dB (Correction factor)

 $^{^{1}}$ Result (dB μ V) = receiver/spectrum analyzer value (dB μ V) + correction factor (dB)

² Correction factor (dB) = LISN factor IL (dB) + cable loss (dB) + attenuator (dB)

Setup diagram 8.2.6



Setup diagram 8.2-1: Conducted disturbance setup