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Test report

294626-1TRFWL

Date of issue: February 4, 2016

Applicant:

Culligan International

Product: ClearLink

EUT Model:

CulRF-M

Host Model:

Model variants:

ClearLink (includes ClearLink D, ClearLink RI, and ClearLink R ClearLink PB)

FCC ID:

V7U-010291CL

IC Registration number: 6510B-010291CL

Specifications:

FCC 47 CFR Part 15 Subpart C, §15.249

Operation in the 902–928 MHz, 2400–2483.5 MHz, 5725–5850 MHz and 24.0–24.25 GHz

RSS-210, Issue 8, December 2010, Annex 2.9

Devices operating in 902–928, 2400–2483.5 and 5725–5875 MHz frequency bands for any application

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



FCC 15.249 and RSS-210 A2.9.docx; Date: July 2015



Test location

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Toll free	+1 800 563 6336
Website	www.nemko.com
Site number	FCC: 176392; IC: 2040A-4 (3 m semi anechoic chamber)

Tested by	Kevin Rose, Wireless/EMC Specialist
Reviewed by	Andrey Adelberg, Senior Wireless/EMC Specialist
Review date	February 4, 2016
Reviewer signature	Af B

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 contain in this report are within Nemko Canada's ISO/IEC 17025 accreditation.

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Section 1. Report summary

1.1 Applicant and manufacturer

Company name	Culligan International
Address	9399 West Higgins Road, Suite 1100
City	Rosemont
Province/State	IL .
Postal/Zip code	60018
Country	USA

1.2 Test specifications

FCC 47 CFR Part 15, Subpart C, Clause 15.249	Operation in the 902–928 MHz, 2400–2483.5 MHz, 5725–5850 MHz and 24.0–24.25 GHz
RSS-210, Issue 8 Annex 2.9	Devices operating in 902–928, 2400–2483.5 and 5725–5875 MHz frequency bands for any application

1.3 Test methods

ANSI C63.10 v2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

1.4 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.

1.5 Exclusions

None

1.6 Test report revision history

Revision #	Details of changes made to test report
TRF	Original report issued



Section 2. Summary of test results

2.1 FCC Part 15 Subpart C, general requirements test results

Part	Test description	Verdict
§15.207(a)	Conducted limits	Pass
§15.31(e)	Variation of power source	Pass ¹
§15.203	Antenna requirement	Pass ²
§15.215(c)	20 dB bandwidth	Pass

Notes: ¹ Measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, was performed with the supply voltage varied between 85 % and 115 % of the nominal rated supply voltage. No noticeable output power variation was observed

² The Antennas are located within the enclosure of EUT and not user accessible.

2.2 FCC Part 15 Subpart C, intentional radiators test results

Part	Test description	Verdict
§15.249(a)	Radiated emissions not in restricted bands	Pass
§15.249(b)	Fixed Point-to-Point operation in the 24.0–24.25 GHz band	Not applicable
§15.249(d)	Spurious emissions (except harmonics)	Pass

2.3 IC RSS-GEN, Issue 4, test results

Part	Test description	Verdict
6.6	Occupied bandwidth	Pass
7.1.2	Receiver radiated emission limits	Not applicable
7.1.3	Receiver conducted emission limits	Not applicable
8.8	Power Line Conducted Emissions Limits for Licence-Exempt Radio Apparatus	Pass

Notes: ¹ According to sections 5.2 and 5.3 of RSS-Gen, Issue 4 the EUT does not have a stand-alone receiver neither scanner receiver, therefore exempt from receiver requirements.

2.4 IC RSS-210, Issue 8, test results

Part	Test description	Verdict
§A2.9(a)	Radiated emissions not in restricted bands	Pass
§A2.9(b)	Spurious emissions (except harmonics)	Pass

Notes: None



Section 3. Equipment under test (EUT) details

3.1 Sample information

Receipt date	September 17, 2015
Nemko sample ID number	133-001845

3.2 EUT information

Product name: (RF module)	CulRF-M
Models with the RF module installed	ClearLink (Includes ClearLinkD, ClearLinkR, ClearLinkPB, ClearLinkRI)
Part numbers	01028870 (ClearLinkD), 01029111 (ClearLinkR), 01028884 (ClearLinkPB), 01028729 (ClearLinkRI)

3.3 Technical information

Frequency band	2400–2483.5 MHz
Frequency range	2402–2480 MHz
Field strength of fundamental (Peak), Units @ 3 m	89.04 dBµV/m
Channel bandwidth	2.468 MHz
Type of modulation	ООК
Emission classification (F1D, G1D, D1D)	F1D
Transmitter spurious, Units @ 3 m	2483.5 MHz @ 35.77 dBμV/m
Power requirements	DC power is via 120 VAC, 60 Hz power supply, 5 V_{DC} , 1 A
Antenna information	The Antenna is a PWB mounted antenna 1 dBi
	The EUT uses a unique antenna coupling/ non-detachable antenna to the intentional radiator.

3.4 Product description and theory of operation

The EUT is a BLE module JF24D which is renamed as CuIRF-M

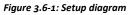
3.5 EUT exercise details

EUT was programmed to transmit at low, middle, and high channels



3.6 EUT setup diagram





3.7 EUT sub assemblies

Description	Brand name	Model/Part number	Serial number
ClearLink Control Box	Culligan	01028844/01029110	N/A
ClearLink Button	Culligan	01028846	N/A
SureLock Frame Assm. with ClearLink	Culligan	01029099	N/A
ClearLink Control Box for SureLock	Culligan	01028845	N/A
ClearLink Battery Box	Culligan	01028847	N/A

Table 3.7-1: EUT sub assemblies



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

ClearLink R is a depopulated version of the ClearLink D. The TDS circuit is removed from the ClearLink D.

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	860–1060 mbar

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

Measurement uncertainty budgets for the tests are detailed below. Measurement uncertainty calculations assume a coverage factor of K = 2 with 95% certainty.

Test name	Measurement uncertainty, dB
All antenna port measurements	0.55
Conducted spurious emissions	1.13
Radiated spurious emissions	3.78
AC power line conducted emissions	3.55



7.1 Test equipment list

Table	7.1-1:	Eaui	ome	nt	list
TUDIC	/	Lyui	pinc		

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
3 m EMI test chamber	TDK	SAC-3	FA002047	1 year	Feb. 25/16
Flush mount turntable	Sunol	FM2022	FA002082	—	NCR
Controller	Sunol	SC104V	FA002060	_	NCR
Antenna mast	Sunol	TLT2	FA002061	—	NCR
Receiver/spectrum analyzer	Rohde & Schwarz	ESU 26	FA002043	1 year	Jan. 07/16
Horn antenna (1–18 GHz)	EMCO	3115	FA000825	1 year	Apr. 01/16
Pre-amplifier (1–18 GHz)	JCA	JCA118-503	FA002091	1 year	May 05/16
Pre-amplifier (18–26 GHz)	Narda	BBS-1826N612	FA001550	_	VOU
Horn antenna (18–40 GHz)	EMCO	3116	FA001847	1 year	Jan. 09/16
LISN	FCC	FCC-LISN-5-25-1-01-CISPR25-10	FA002221	1 year	Jan. 08/16
Bilog antenna (20–3000 MHz)	Sunol	JB3	FA002108	1 year	Apr. 12/16

Note: NCR - no calibration required, VOU - verify on use





Section 8. Testing data

8.1 FCC 15.207(a) and RSS-Gen 8.8 AC power line conducted emissions limits

8.1.1 Definitions and limits

FCC:

Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a $50 \,\mu$ H/ $50 \,\Omega$ line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

IC:

A radio apparatus that is designed to be connected to the public utility (AC) power line shall ensure that the radio frequency voltage, which is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz, shall not exceed the limits in table below.

Unless the requirements applicable to a given device state otherwise, for any radio apparatus equipped to operate from the public utility AC power supply either directly or indirectly (such as with a battery charger), the radio frequency voltage of emissions conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in table below. The more stringent limit applies at the frequency range boundaries.

Table 8.1-1: Conducted emissions limit

Frequency of emission,	Conduct	ed limit, dBμV
MHz	Quasi-peak	Average**
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

Note: * - The level decreases linearly with the logarithm of the frequency.

** - A linear average detector is required.

8.1.2 Test summary

Verdict	Pass		
Test date	September 17, 2015	Temperature	22 °C
Test engineer	Kevin Rose	Air pressure	1004 mbar
Test location	Ottawa	Relative humidity	40 %



8.1.3 Observations, settings and special notes

The EUT was set up as tabletop configuration.

The spectral scan has been corrected with transducer factors (i.e. cable loss, LISN factors, and attenuators) for determination of compliance.

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.

Model Clearlink RI and Clearlink D use a AC to DC wall adapter therefore both were tested

Receiver settings for preview measurements:

Resolution bandwidth	9 kHz
Video bandwidth	30 kHz
Detector mode	Peak and Average
Trace mode	Max Hold
Measurement time	1000 ms

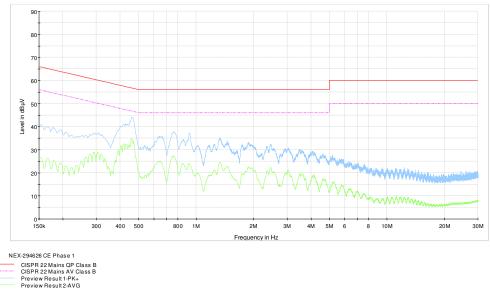
Receiver settings for final measurements:

Resolution bandwidth	9 kHz
Video bandwidth	30 kHz
Detector mode	Quasi-Peak and Average
Trace mode	Max Hold
Measurement time	1000 ms

Testing data FCC 15.207(a) and RSS-Gen 8.8 AC power line conducted emissions limits FCC Part 15 Subpart C and RSS-Gen, Issue 4

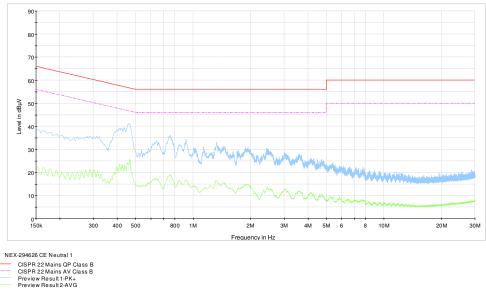


8.1.4 Test data



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



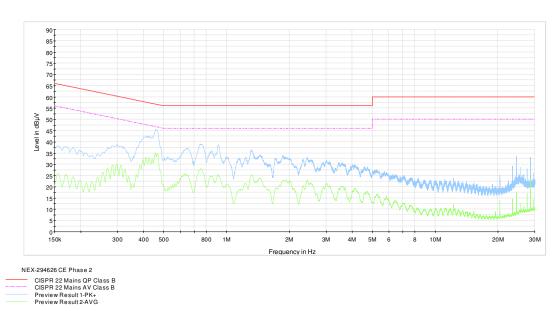


The spectral plot has been corrected with transducer factors. (i.e. cable loss, LISN factors, and attenuators)

Figure 8.1-2: Conducted disturbance at mains port spectral plot on neutral line Model Clearlink D

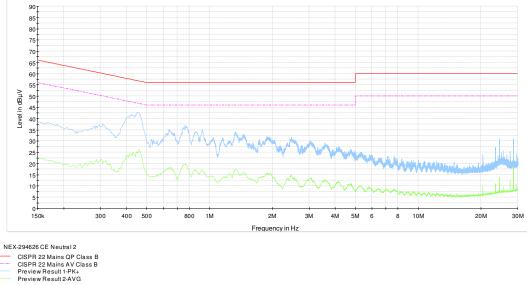


8.1.1 Test data



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





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

Figure 8.1-4: Conducted disturbance at mains port spectral plot on neutral line Model Clearlink RI



8.2 FCC 15.215(c) and RSS-Gen 6.6 Occupied (Emission) bandwidth

8.2.1 Definitions and limits

FCC

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80 % of the permitted band in order to minimize the possibility of out-of-band operation.

IC

When the occupied bandwidth limit is not stated in the applicable RSS or reference measurement method, the transmitted signal bandwidth shall be reported as the 99% emission bandwidth, as calculated or measured.

8.2.2 Test summary

Verdict	Pass		
Test date	September 18, 2015	Temperature	23 °C
Test engineer	Kevin Rose	Air pressure	1003 mbar
Test location	Ottawa	Relative humidity	41 %

8.2.3 Observations, settings and special notes

Model Clearlink RI , Clearlink D, and Clearlink PB use the same RF model and therefore

Spectrum analyser settings:

Resolution bandwidth	100 kHz
Video bandwidth	≥3 × RBW
Frequency span	10 MHz
Detector mode	Peak
Trace mode	Max Hold



8.2.4 Test data

Table 8.2-1: 20 dB bandwidth results Clearlink PB

Frequency, MHz	20 dB bandwidth, MHz
2402	1.298
2440	1.426
2480	1.266

Note: 99% occupied bandwidth is 2.468 MHz

Table 8.2-2: 20 dB bandwidth results Clearlink RI

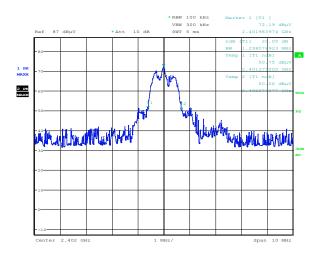
Frequency, MHz	20 dB bandwidth, MHz
2402	1.298
2440	1.298
2480	1.364

Note: 99% occupied bandwidth is 1.674 MHz

Table 8.2-3: 20 dB bandwidth results Clearlink D

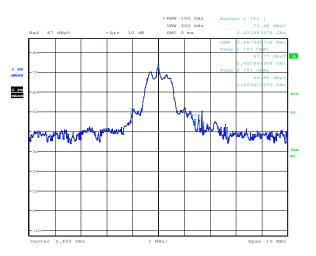
Frequency, MHz	20 dB bandwidth, MHz
2402	1.234
2440	2.011
2480	1.995

Note: 99% occupied bandwidth is 1.683 MHz



Date: 18.SEP.2015 01:25:55

Figure 8.2-1: 20 dB bandwidth sample plot



Date: 18.SEP.2015 01:32:53

Figure 8.2-2: 99% dB bandwidth sample plot



8.3 FCC 15.249(a) RSS 210 A2.9(a) Field strength of emissions not in restricted bands

8.3.1 Definitions and limits

In addition to the provisions of §15.205 and RSS-Gen the field strength of emissions from intentional radiators operated under this section shall not exceed the following table.

Table 8.3-1: Field strength limits

Fundamental frequency (MHz)	Field strength of fundamental (mV/m)	Field strength of fundamental (dBµV/m)	Field strength of spurious emissions (μV/m)	Field strength of spurious emissions (dBµV/m)
902–928	50	94	500	54
2400-2483.5	50	94	500	54
5725-5875	50	94	500	54
24.0-24.25	250	108	2500	68

(e) As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter (128 dBµV/m) at 3 meters along the antenna azimuth.

8.3.2 Test summary

Verdict	Pass		
Test date	September 18, 2015	Temperature	23 °C
Test engineer	Kevin Rose	Air pressure	1003 mbar
Test location	Ottawa	Relative humidity	41 %

8.3.3 Observations, settings and special notes

The spectrum was searched from 30 MHz to the 10th harmonic. Radiated measurements were performed at a distance of 3 m. Spectrum analyzer settings for peak radiated measurements:

Resolution bandwidth:	1 MHz
Video bandwidth:	3 MHz
Detector mode:	Peak
Trace mode:	Max Hold



8.3.4 Test data

Table 8.3-2: Radiated field strength of fundamental measurement results for Clearlink PB

Channel	Frequency, MHz	Peak Field strength, dBμV/m	Average Limit, dBμV/m	Margin, dB
Low	2402	77.44	94	16.56
Mid	2440	81.14	94	12.86
High	2480	83.98	94	10.02

Notes: Field strength includes correction factor of antenna, cable loss, amplifier, and attenuators where applicable. Peak field Strength is less than the Average limit.

Table 8.3-3: Radiated field strength of fundamental measurement results for Clearlink D

Channel	Frequency, MHz	Peak Field strength, dBµV/m	Average Limit, dBμV/m	Margin, dB
Low	2402	81.17	94	12.83
Mid	2440	82.47	94	11.53
High	2480	83.85	94	10.15

Notes: Field strength includes correction factor of antenna, cable loss, amplifier, and attenuators where applicable. Peak field Strength is less than the Average limit.

Table 8.3-4: Radiated field strength of fundamental measurement results for Clearlink RI

Channel	Frequency, MHz	Peak Field strength, dBµV/m	Average Limit, dBμV/m	Margin, dB
Low	2402	83.89	94	10.11
Mid	2440	85.48	94	8.52
High	2480	89.04	94	4.96

Notes: Field strength includes correction factor of antenna, cable loss, amplifier, and attenuators where applicable. Peak field Strength is less than the Average limit.

No harmonics of the fundamental frequencies were detected above the noise floor.



8.4 FCC 15.249(d) RSS 210 A2.9(b) Spurious emissions (except for harmonics)

8.4.1 Definitions and limits

FCC:

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

IC:

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

Frequency,	Field stren	gth of emissions	Measurement distance, m
MHz	μV/m	dBµV/m	
0.009–0.490	2400/F	67.6 – 20 × log ₁₀ (F)	300
0.490-1.705	24000/F	87.6 – 20 × log ₁₀ (F)	30
1.705-30.0	30	29.5	30
30–88	100	40.0	3
88–216	150	43.5	3
216-960	200	46.0	3
above 960	500	54.0	3

Notes: In the emission table above, the tighter limit applies at the band edges.

For frequencies above 1 GHz the limit on peak RF emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test

Table 8.4-2: IC restricted frequency bands

MHz	MHz	MHz	GHz
0.090-0.110	12.51975-12.52025	399.9–410	5.35-5.46
2.1735-2.1905	12.57675-12.57725	608–614	7.25-7.75
3.020-3.026	13.36–13.41	960-1427	8.025-8.5
4.125-4.128	16.42-16.423	1435-1626.5	9.0-9.2
4.17725-4.17775	16.69475-16.69525	1645.5-1646.5	9.3–9.5
4.20725-4.20775	16.80425-16.80475	1660–1710	10.6-12.7
5.677-5.683	25.5-25.67	1718.8–1722.2	13.25–13.4
6.215-6.218	37.5–38.25	2200-2300	14.47-14.5
6.26775-6.26825	73–74.6	2310–2390	15.35-16.2
6.31175-6.31225	74.8–75.2	2655-2900	17.7–21.4
8.291-8.294	108–138	3260–3267	22.01-23.12
8.362-8.366	156.52475-156.52525	3332-3339	23.6-24.0
8.37625-8.38675	156.7-156.9	3345.8-3358	31.2–31.8
8.41425-8.41475	240–285	3500-4400	36.43-36.5
12.29–12.293	322-335.4	4500–5150	Above 38.6

Note: Certain frequency bands listed in table above and above 38.6 GHz are designated for low-power licence-exempt applications. These frequency bands and the requirements that apply to the devices are set out in this Standard



Table 8.4-3: FCC restricted frequency bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42–16.423	399.9–410	4.5–5.15
0.495-0.505	16.69475-16.69525	608–614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25–7.75
4.125-4.128	25.5-25.67	1300–1427	8.025-8.5
4.17725-4.17775	37.5–38.25	1435–1626.5	9.0–9.2
4.20725-4.20775	73–74.6	1645.5-1646.5	9.3–9.5
6.215-6.218	74.8-75.2	1660–1710	10.6–12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25–13.4
6.31175-6.31225	123–138	2200–2300	14.47–14.5
8.291-8.294	149.9–150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7–21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6–24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240–285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

8.4.2 Test summary

Verdict	Pass		
Test date	September 18, 2015	Temperature	23 °C
Test engineer	Kevin Rose	Air pressure	1003 mbar
Test location	Ottawa	Relative humidity	41 %

8.4.3 Observations, settings and special notes

The spectrum was searched from 30 MHz to the 10th harmonic. Radiated measurements were performed at a distance of 3 m

Spectrum analyser settings for radiated measurements within restricted bands below 1 GHz:

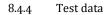
Resolution bandwidth:	100 kHz
Video bandwidth:	300 kHz
Detector mode:	Peak
Trace mode:	Max Hold

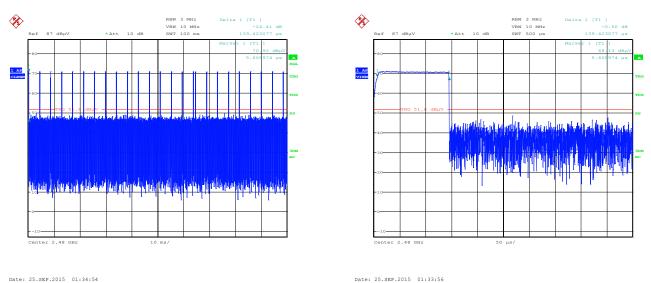
Spectrum analyser settings for peak radiated measurements within restricted bands above 1 GHz:

Resolution bandwidth:	1 MHz
Video bandwidth:	3 MHz
Detector mode:	Peak
Trace mode:	Max Hold

Testing data FCC 15.249(d) RSS 210 A2.9(b) Spurious emissions (except for harmonics) FCC Part 15 Subpart C and RSS-210, Issue 8







Date: 25.SEP.2015 01:34:54

Figure 8.4-2: Pulse width 139.42 μs

Duty cycle = 20 log(25 x 0.13942/100 ms)=29.15 dB (a maximum of 20 dB was used)

Figure 8.4-1: Duty cycle in 100 ms (25 pulses)



Frequency,	Peak Field stre	Peak Field strength, dBµV/m		Average Field strength, dBµV/m		Margin,
MHz	Measured	Limit	dB	Measured	Limit	dB
2483.5	50	74	24	30	54	24
2561	55.34	74	18.66	35.34	54	18.66

Notes: Field strength includes correction factor of antenna, cable loss, amplifier, and attenuators where applicable.

Table 8.4-5: Radiated field strength of band edge measurement results Clearlink D

Frequency,	Frequency, Peak Field strength, dBµV/m		Margin,	Average Field strength, dBμV/m		Margin,
MHz	Measured	Limit	dB	Measured	Limit	dB
2483.5	52.43	74	21.57	32.43	54	21.57
2601.6	55.77	74	18.23	35.77	54	18.23

Notes: Field strength includes correction factor of antenna, cable loss, am

Table 8.4-6: Radiated field strength of band edge measurement results Clearlink RI

Frequency, Peak Field str		ngth, dBμV/m Marg	Margin,	Margin, Average Field str	ength, dBμV/m	Margin,
MHz	Measured	Limit	dB	Measured	Limit	dB
2483.5	51.63	74	22.37	31.63	54	22.37
2561	55.38	74	18.62	35.38	54	18.62

Notes: Field strength includes correction factor of antenna, cable loss, and Duty cycle correction

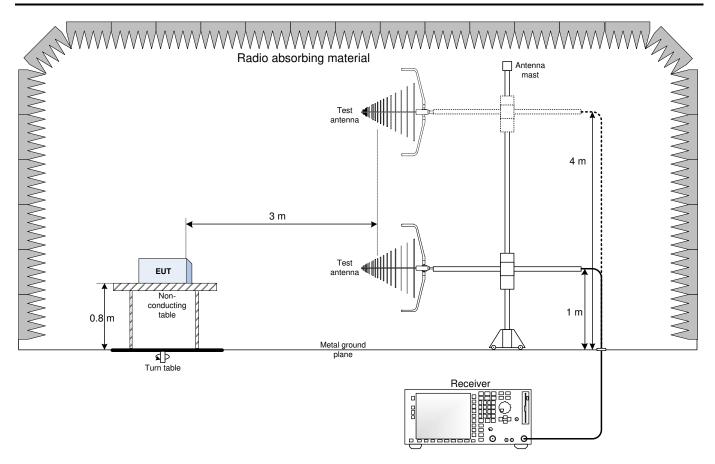
All other emissions were more than 20 dB below the limit.



Section 9. Block diagrams of test set-ups

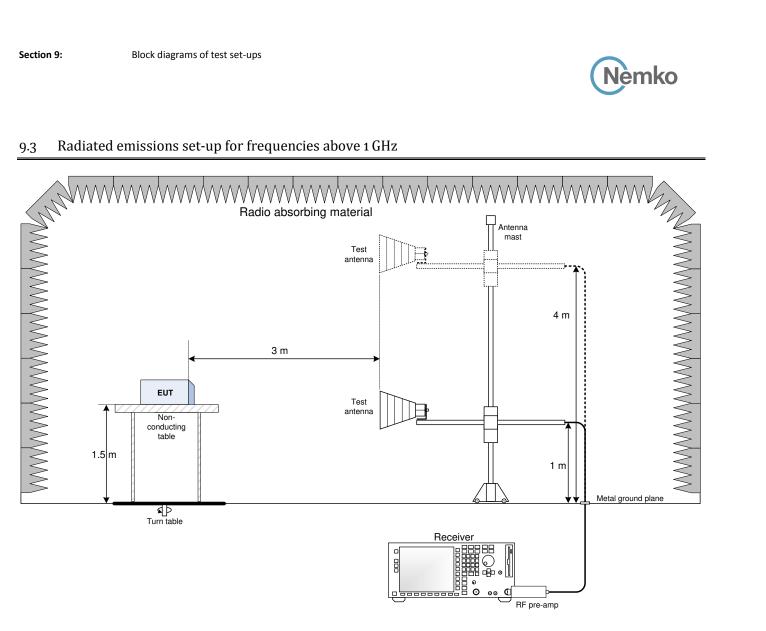
9.1 Radiated emissions set-up

9.2 Radiated emissions set-up for frequencies below 1 GHz





Radiated emissions set-up for frequencies above 1 GHz 9.3



Conducted emissions set-up 9.4

