



3500 CARLING AVENUE
OTTAWA ONTARIO CANADA
K2H 8E9

NORTEL 4G HW Infrastructure

EXHIBIT 2A

Test Report Summary

Applicant : NORTEL

For original Equipment Application on :

FCC : AB6NT2G1LTEFRM3

IC : 332AF-2G1LTEFRM3

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Table of Contents

1	Radiated Spurious Emissions Compliance.....	4
2	Conducted Spurious Emissions Compliance.....	5
3	Glossary.....	7

List of Tables

Table 1. LTE MFRM3 1.7/2.1GHz Radiated Spurious Emissions Compliance Test Summary	4
Table 2. LTE MFRM3 1.7/2.1GHz CSE Antenna Port. 1-Tx configuration (SISO). Modulation QPSK.....	5
Table 3. LTE MFRM3 1.7/2.1GHz CSE Antenna Port. 1-Tx configuration (SISO). Modulation 16QAM.....	5
Table 4. LTE MFRM3 1.7/2.1GHz CSE Antenna Port. 1-Tx configuration (SISO). Modulation 64QAM.....	5
Table 5. LTE MFRM3 1.7/2.1GHz CSE Antenna Port. 2-Tx configuration (MIMO). Modulation QPSK.....	6
Table 6. LTE MFRM3 1.7/2.1GHz CSE Antenna Port. 2-Tx configuration (MIMO). Modulation 16QAM.....	6
Table 7. LTE MFRM3 1.7/2.1GHz CSE Antenna Port. 2-Tx configuration (MIMO). Modulation 64QAM.....	6

1 Radiated Spurious Emissions Compliance

Table 1. LTE MFRM3 1.7/2.1GHz Radiated Spurious Emissions Compliance Test Summary

Test Description	Test Specification	Test Result
Radiated Spurious Emissions E-Field	FCC Part 27.53 (g) FCC Part 2.1053 FCC Part 21057	PASS Worst case margin 37 dB.

2 Conducted Spurious Emissions Compliance

Table 2. LTE MFRM3 1.7/2.1GHz CSE Antenna Port. 1-Tx configuration (SISO). Modulation QPSK

Frequency	Spurious Emissions Level (dBm)	Margin to FCC Limit of -13 dBm (dB)
2109 to 2110 MHz (RBW=100 kHz); Transmitting on Channel 100	-26.85	13.85
2155 to 2156 MHz (RBW=100 kHz); Transmitting on Channel 800	-26.42	13.42
9 kHz to 2109 MHz (RBW=1 MHz); Transmitting on Channel 100	-21.83	8.83
2156 MHz to 5 GHz (RBW=1 MHz); Transmitting on Channel 800	-23.25	10.25
5 GHz to 22 GHz (RBW=1 MHz); Transmitting on Channel 800	-22.88	9.88

Table 3. LTE MFRM3 1.7/2.1GHz CSE Antenna Port. 1-Tx configuration (SISO). Modulation 16QAM

Frequency	Spurious Emissions Level (dBm)	Margin to FCC Limit of -13 dBm (dB)
2109 to 2110 MHz (RBW=100 kHz); Transmitting on Channel 100	-26.85	13.85
2155 to 2156 MHz (RBW=100 kHz); Transmitting on Channel 800	-26.42	13.42
9 kHz to 2109 MHz (RBW=1 MHz); Transmitting on Channel 100	-21.83	8.83
2156 MHz to 5 GHz (RBW=1 MHz); Transmitting on Channel 800	-23.25	10.25
5 GHz to 22 GHz (RBW=1 MHz); Transmitting on Channel 800	-22.88	9.88

Table 4. LTE MFRM3 1.7/2.1GHz CSE Antenna Port. 1-Tx configuration (SISO). Modulation 64QAM

Frequency (Band)	Spurious Emissions Level (dBm)	Margin to FCC Limit of -13 dBm (dB)
2109 to 2110 MHz (RBW=100 kHz); Transmitting on Channel 100	-27.68	14.68
2155 to 2156 MHz (RBW=100 kHz); Transmitting on Channel 800	-27.03	14.03
9 kHz to 2109 MHz (RBW=1 MHz); Transmitting on Channel 100	-21.21	8.21
2156 MHz to 5 GHz (RBW=1 MHz); Transmitting on Channel 800	-23.28	10.28
5 GHz to 22 GHz (RBW=1 MHz); Transmitting on Channel 800	-22.47	9.47

Table 5. LTE MFRM3 1.7/2.1GHz CSE Antenna Port. 2-Tx configuration (MIMO). Modulation QPSK

Frequency (Band)	Spurious Emissions Level (dBm)	Margin to FCC Limit of -13 dBm (dB)
2109 to 2110 MHz (RBW=100 kHz); Transmitting on Channel 100	-29.84	16.84
2155 to 2156 MHz (RBW=100 kHz); Transmitting on Channel 800	-30.37	17.37
9 kHz to 2109 MHz (RBW=1 MHz); Transmitting on Channel 100	-23.15	10.15
2156 MHz to 5 GHz (RBW=1 MHz); Transmitting on Channel 800	-25.01	12.01
5 GHz to 22 GHz (RBW=1 MHz); Transmitting on Channel 800	-22.46	9.46

Table 6. LTE MFRM3 1.7/2.1GHz CSE Antenna Port. 2-Tx configuration (MIMO). Modulation 16QAM

Frequency (Band)	Spurious Emissions Level (dBm)	Margin to FCC Limit of -13 dBm (dB)
2109 to 2110 MHz (RBW=100 kHz); Transmitting on Channel 100	-30.02	17.02
2155 to 2156 MHz (RBW=100 kHz); Transmitting on Channel 800	-29.42	16.42
9 kHz to 2109 MHz (RBW=1 MHz); Transmitting on Channel 100	-22.58	9.58
2156 MHz to 5 GHz (RBW=1 MHz); Transmitting on Channel 800	-25.44	12.44
5 GHz to 22 GHz (RBW=1 MHz); Transmitting on Channel 800	-22.52	9.52

Table 7. LTE MFRM3 1.7/2.1GHz CSE Antenna Port. 2-Tx configuration (MIMO). Modulation 64QAM

Frequency (Band)	Spurious Emissions Level (dBm)	Margin to FCC Limit of -13 dBm (dB)
2109 to 2110 MHz (RBW=100 kHz); Transmitting on Channel 100	-30.69	17.69
2155 to 2156 MHz (RBW=100 kHz); Transmitting on Channel 800	-30.68	17.68
9 kHz to 2109 MHz (RBW=1 MHz); Transmitting on Channel 100	-21.84	8.84
2156 MHz to 5 GHz (RBW=1 MHz); Transmitting on Channel 800	-25.43	12.43
5 GHz to 22 GHz (RBW=1 MHz); Transmitting on Channel 800	-22.64	9.64

3 Glossary

CSE	Conducted Spurious Emissions
LTE	Long Term Evolution
MIMO	Multiple-In Multiple-Out
SISO	Single Input Single Output