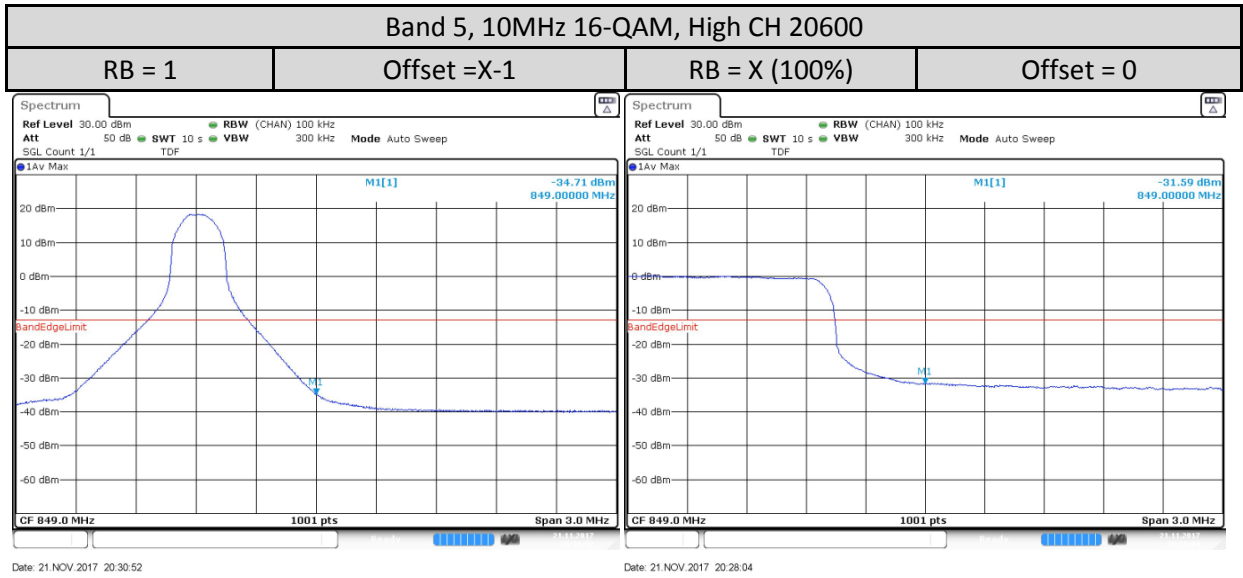
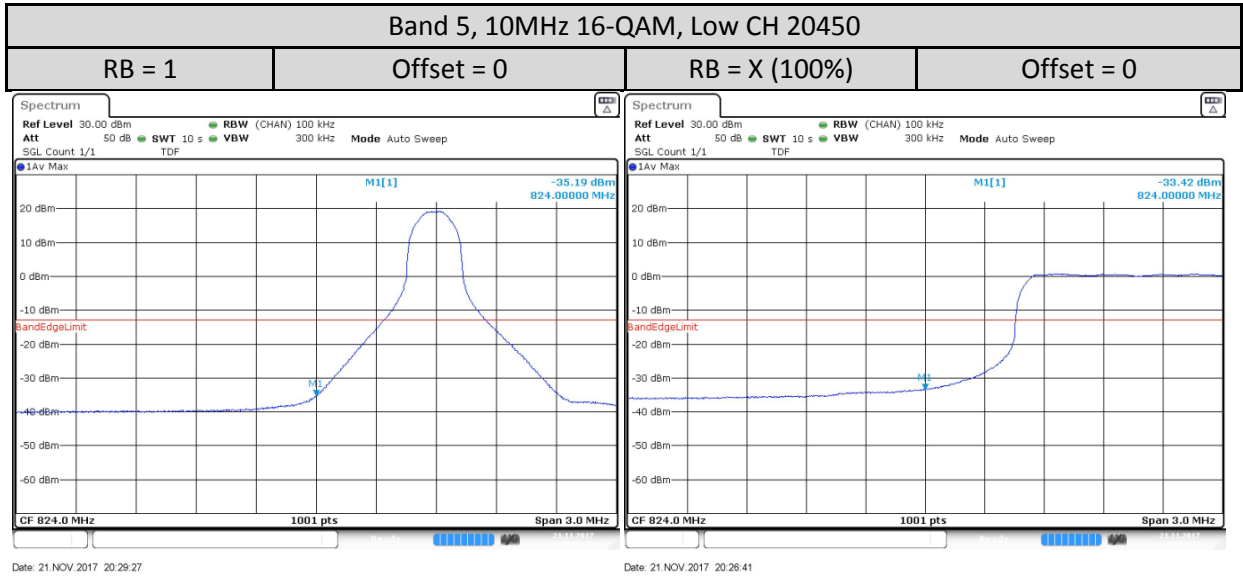
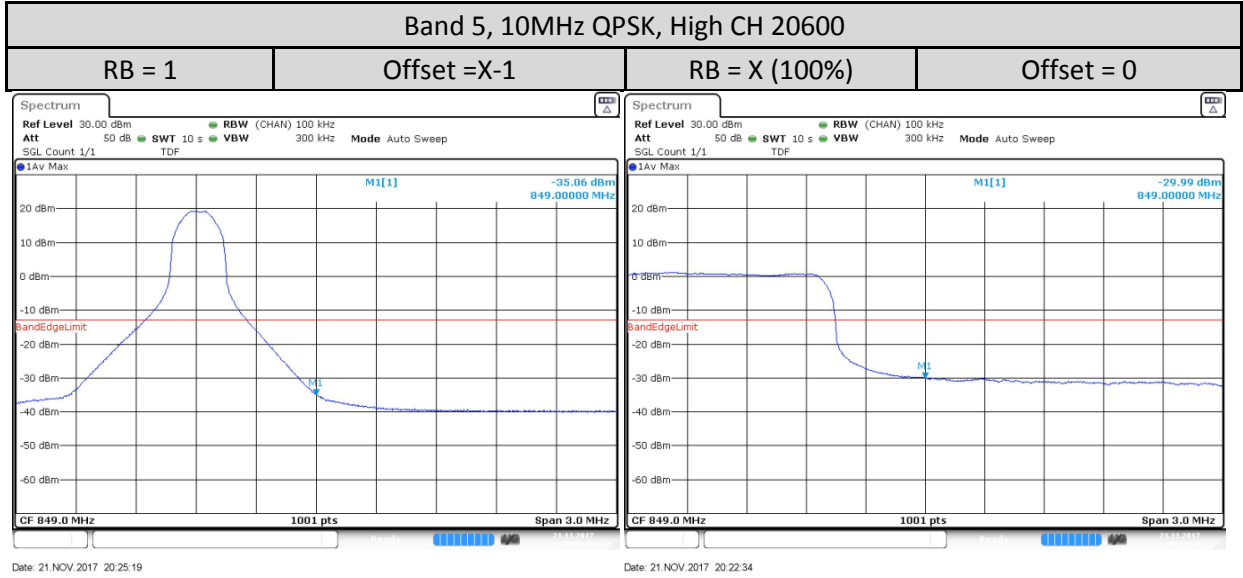
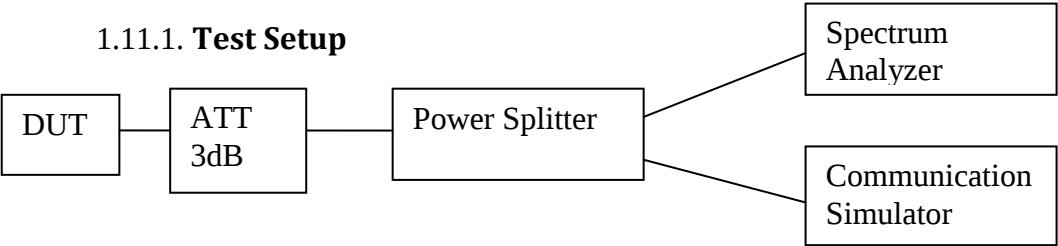




1.11. Conducted Spurious Emission

1.11.1. Test Setup



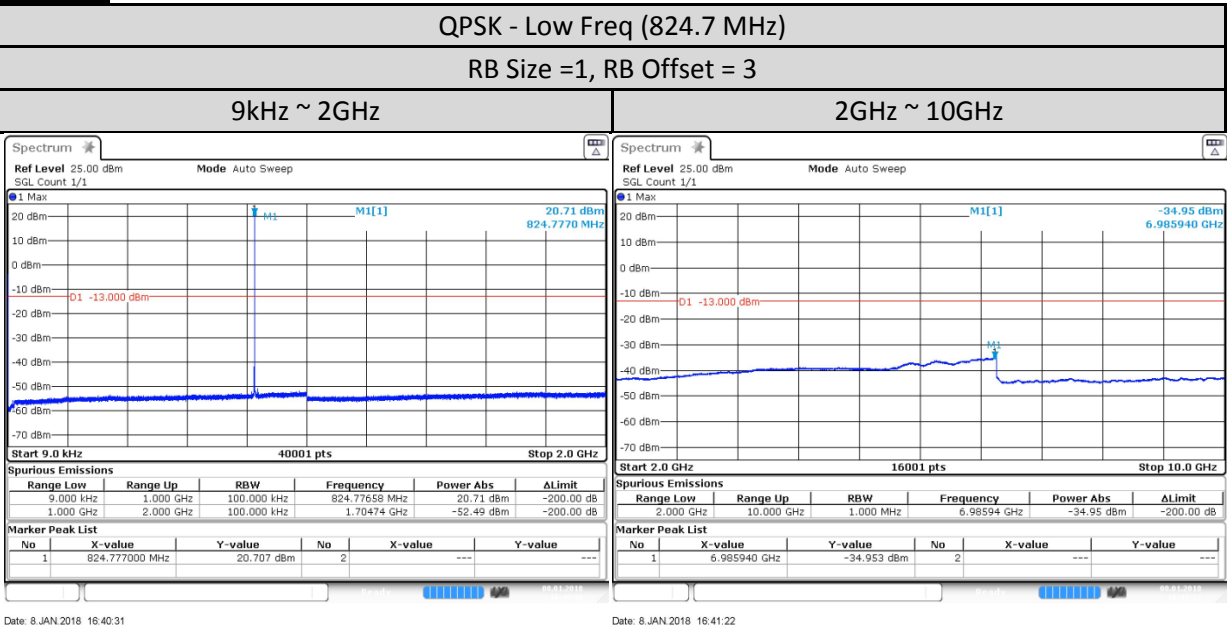
- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) Set DUT to transmit maximum power through communication simulator.
- 4) Spectrum Analyzer setting, RBW = 100 kHz or greater, VBW = 3*RBW.
- 5) The spurious emission of lowest, middle and highest channels with the highest RF powers were measured.
- 6) Record the maximum trace plot into the test report.

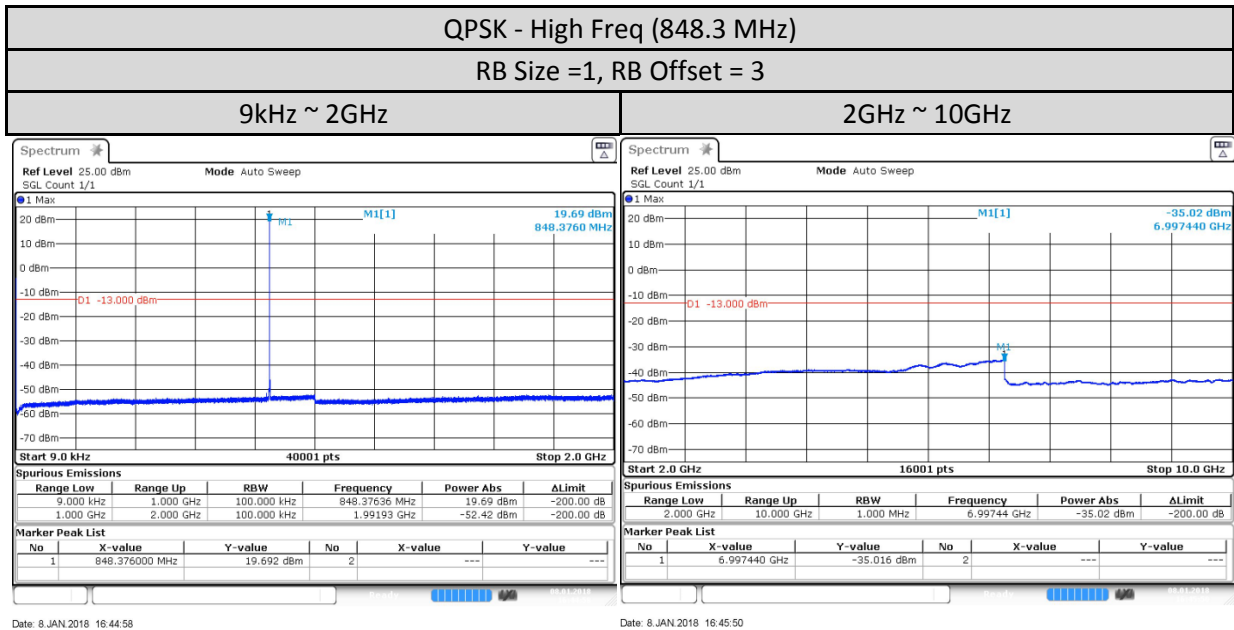
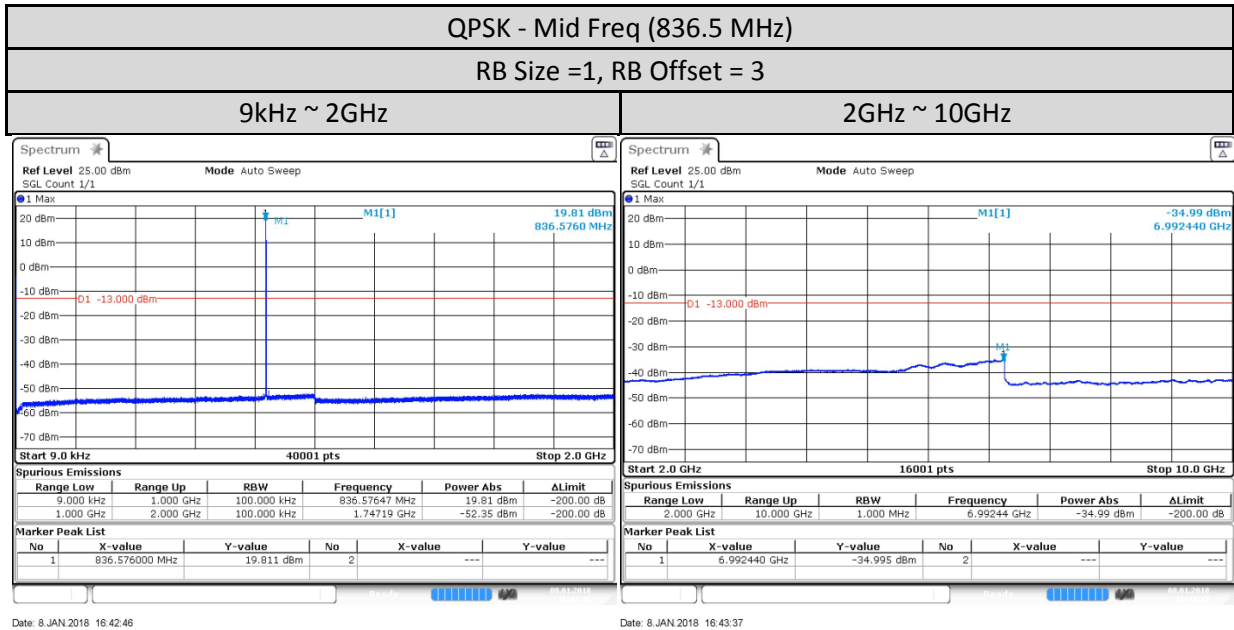
1.11.2. Test Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

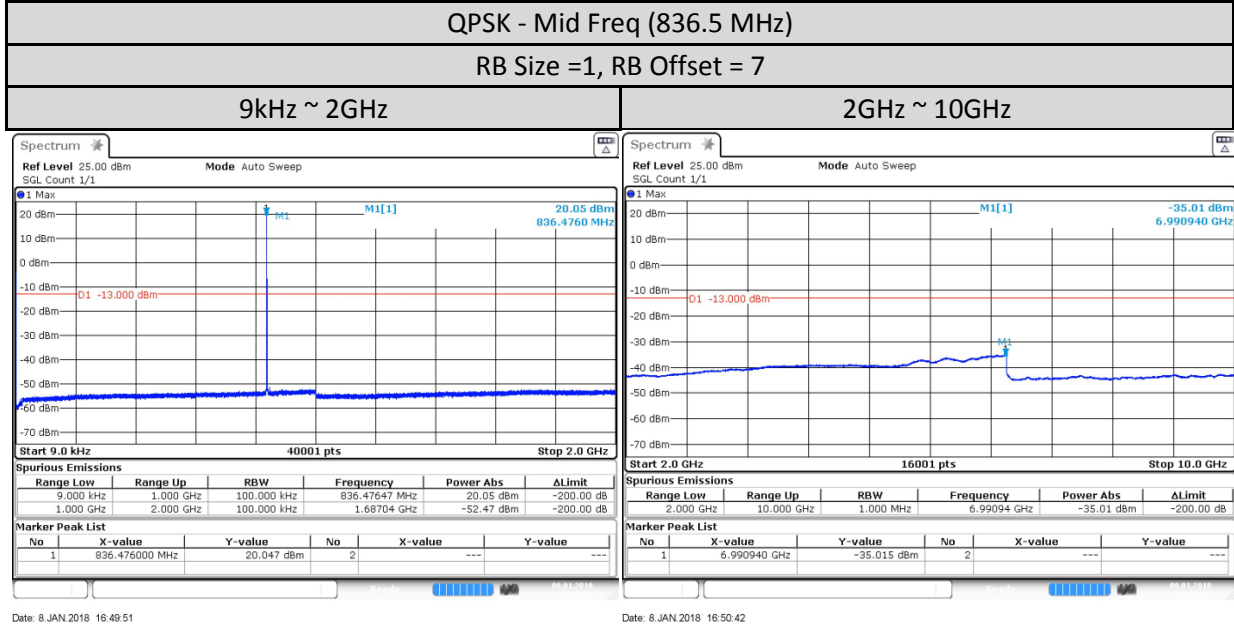
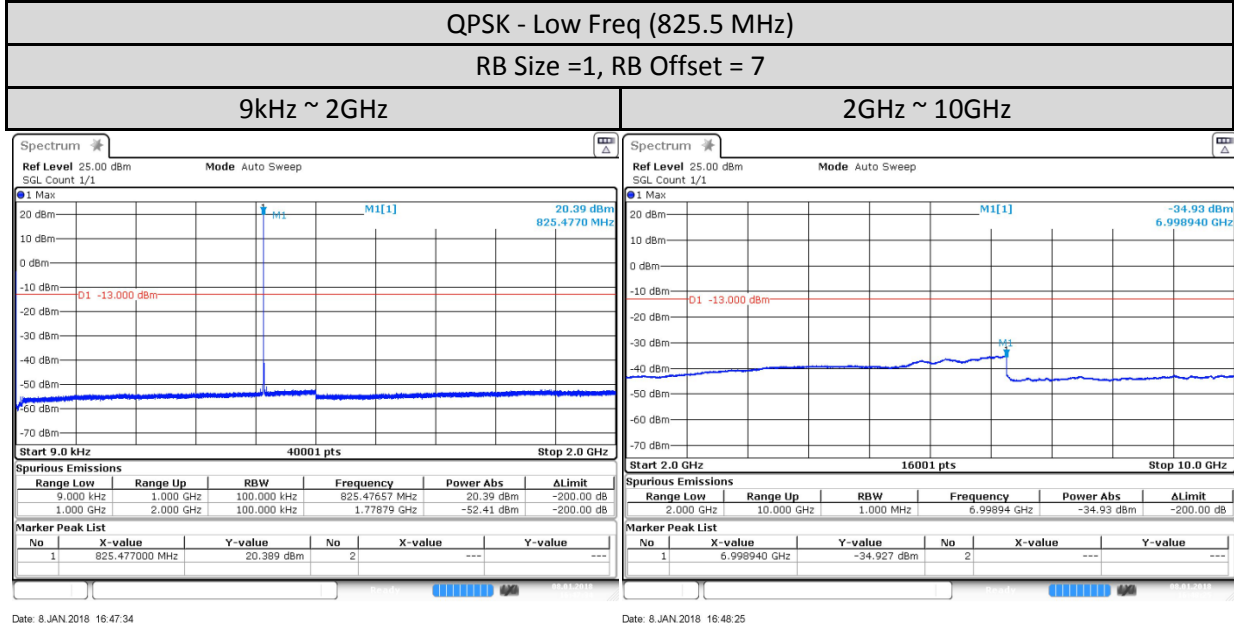
1.11.3. Conducted Spurious Emission - LTE Band 5 (824-849MHz)

1.4MHz

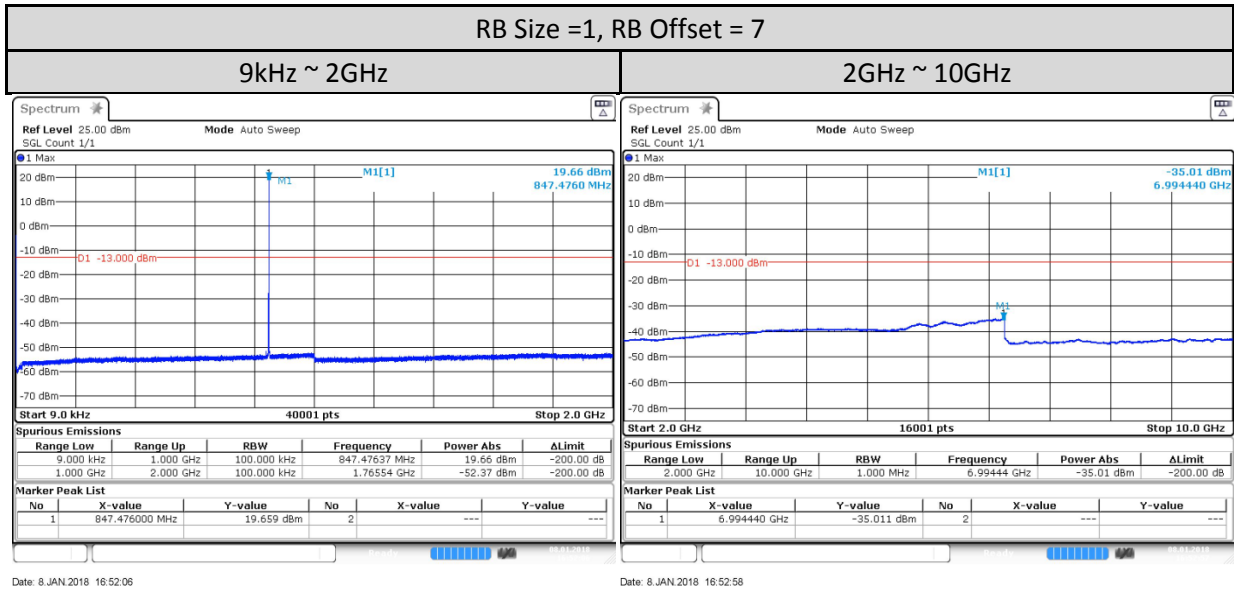


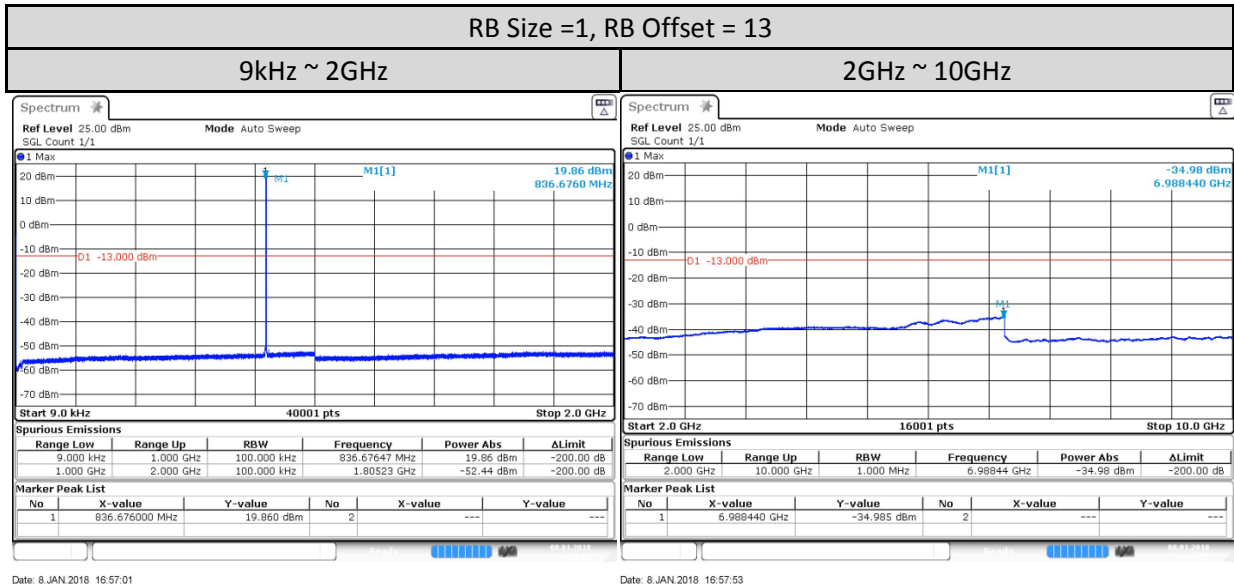


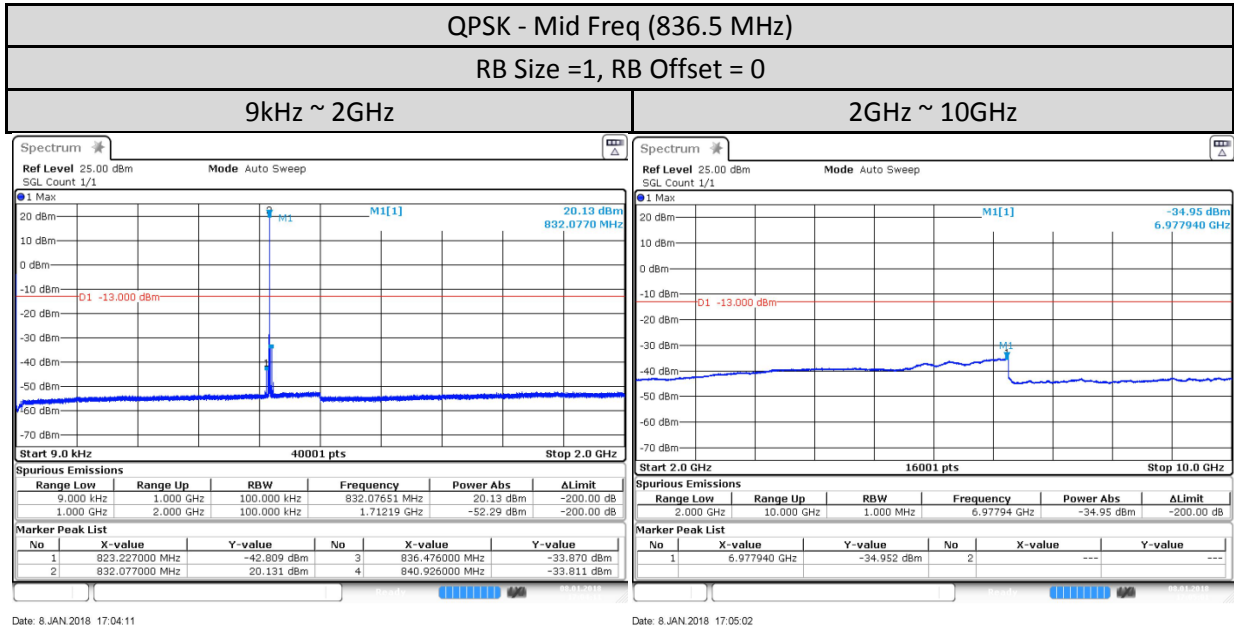
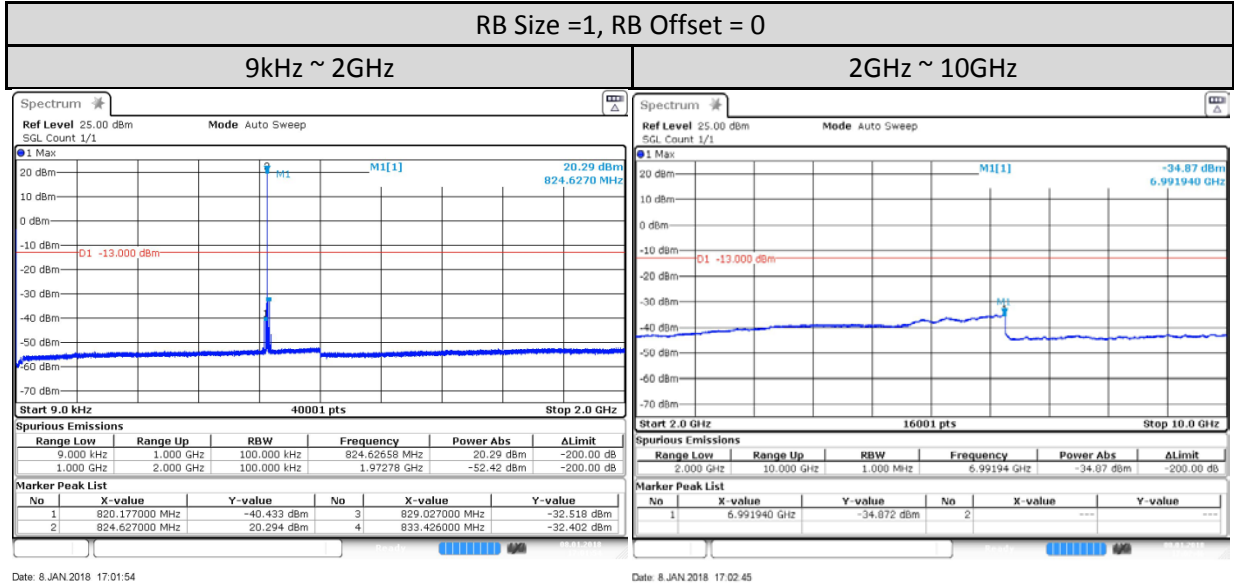
3MHz

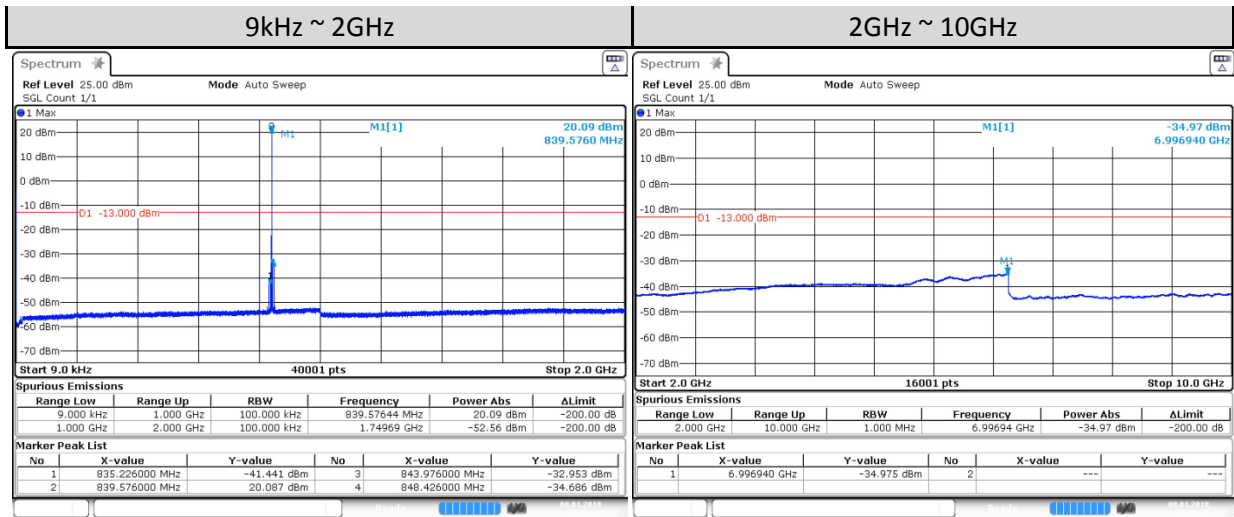


QPSK - High Freq (847.5 MHz)







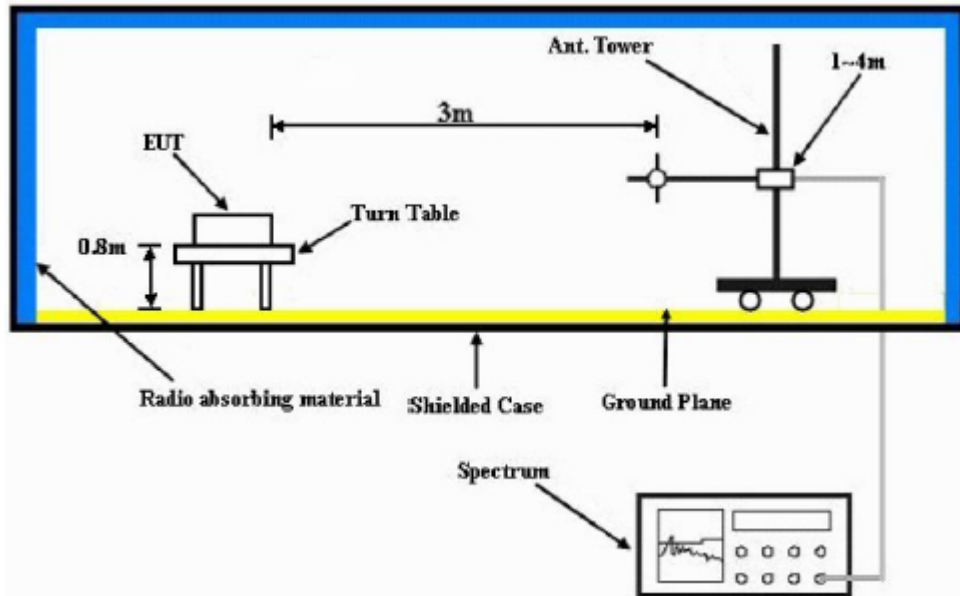


Date: 8 JAN 2018 17:06:26

Date: 8 JAN 2018 17:07:18

1.12. Radiated Spurious Emission

1.12.1. Test Setup



- 1) The spectrum setting for scanning Radiated Emission below 1 GHz is RBW = 100 kHz, VBW = 300 kHz and above 1 GHz is RBW = 1MHz, VBW = 3MHz. Detector mode is positive peak.
- 2) In the semi-anechoic chamber, setup as illustrated above the EUT placed on the Turn Table at 0.8m height for below 1Ghz measurement and at 1.5m height for above 1GHz measurement, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- 3) The substitution antenna is substituted for EUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
- 4) Final Radiated Spurious Emission = “Read Value” + Measured substitution value.

1.12.2. Test Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

1.12.3. Radiated Spurious Emission – LTE Band 5 (824-849MHz)

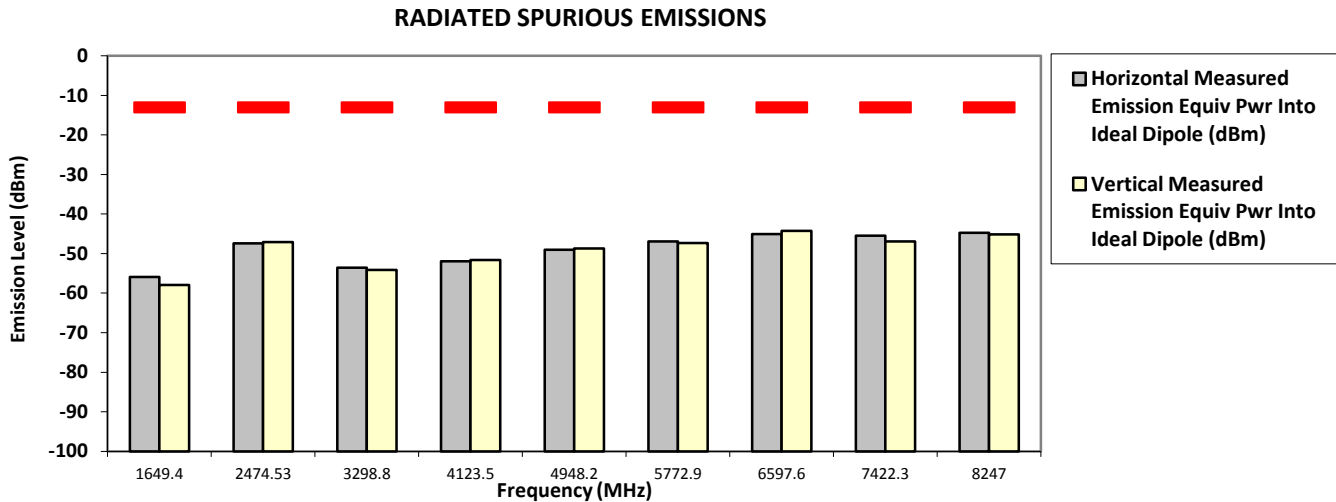
DC configuration: Link Mode 12V

Model Number: LEX L11n
Battery Part No: PMNN4546A

Link Mode Radiated Emission:
S/N: 790TTV0214
Test Mode: TX LTE (Band 5)
Bandwidth 1.4MHz

SR:08397-EMC-00130
Accy Part No: 8397-PMLN7779A-5
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1649.4000	-13.0000	-55.9163 **	-57.9151 **
2474.5300	-13.0000	-47.3900 *	-47.0700 *
3298.8000	-13.0000	-53.5650 **	-54.1141 **
4123.5000	-13.0000	-51.9736 **	-51.6124 **
4948.2000	-13.0000	-49.0747 **	-48.6830 **
5772.9000	-13.0000	-46.9637 **	-47.3687 **
6597.6000	-13.0000	-45.0743 **	-44.2317 **
7422.3000	-13.0000	-45.4698 **	-46.9289 **
8247.0000	-13.0000	-44.7587 **	-45.1319 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

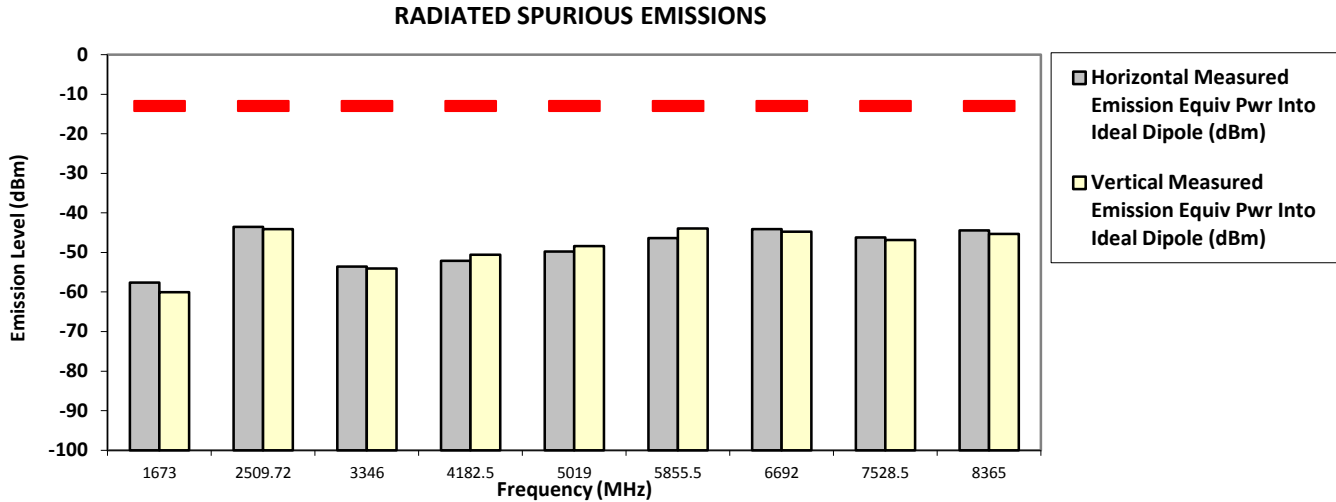
Remarks:	Passed Results	Marginal Results	Failed Results
----------	----------------	------------------	----------------

Model Number: LEX L11n
Battery Part No: PMNN4546A
836.500000 MHz (Mid)

Link Mode Radiated Emission:
S/N: 790TTV0214
Test Mode: TX LTE (Band 5)
Bandwidth 1.4MHz

SR:08397-EMC-00130
Accy Part No: 8397-PMLN7779A-5
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1673.0000	-13.0000	-57.5806 **	-60.0589 **
2509.7200	-13.0000	-43.5300 *	-44.0600 *
3346.0000	-13.0000	-53.5695 **	-54.0591 **
4182.5000	-13.0000	-52.0801 **	-50.5527 **
5019.0000	-13.0000	-49.7280 **	-48.4082 **
5855.5000	-13.0000	-46.3467 **	-43.9544 **
6692.0000	-13.0000	-44.0681 **	-44.7307 **
7528.5000	-13.0000	-46.1835 **	-46.8288 **
8365.0000	-13.0000	-44.4247 **	-45.2760 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

Failed Results

Model Number: LEX L11n

Battery Part No: PMNN4546A

848.300000 MHz (High)

Link Mode Radiated Emission:

S/N: 790TTV0214

Test Mode: TX LTE (Band 5)

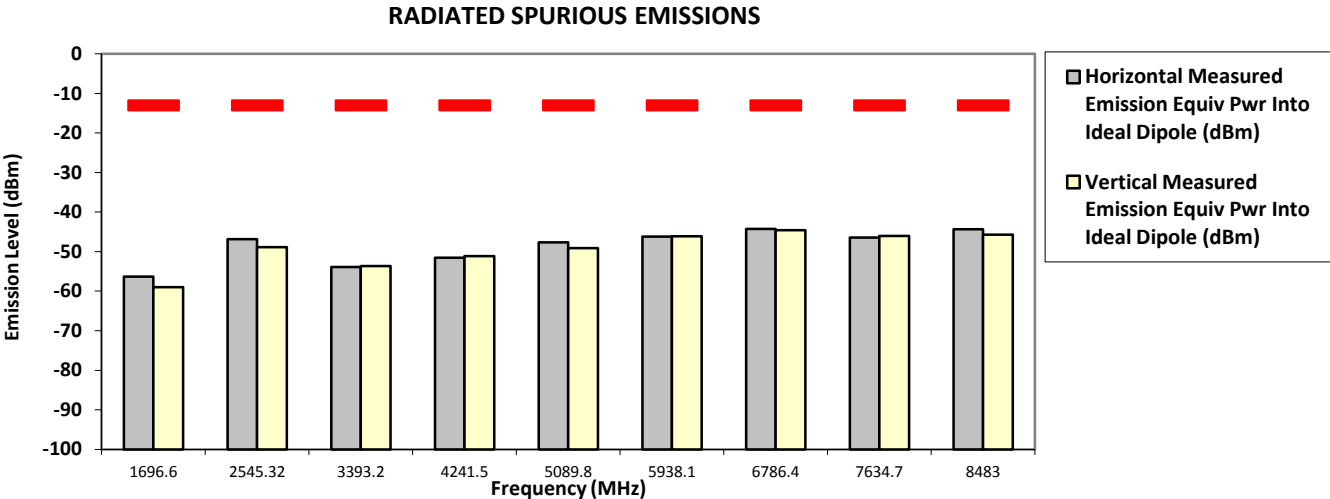
Bandwidth 1.4MHz

SR:08397-EMC-00130

Accy Part No: 8397-PMLN7779A-5

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1696.6000	-13.0000	-56.3572 **	-58.9894 **
2545.3200	-13.0000	-46.8800 *	-48.8800 *
3393.2000	-13.0000	-53.8762 **	-53.6463 **
4241.5000	-13.0000	-51.5233 **	-51.1428 **
5089.8000	-13.0000	-47.6278 **	-49.0812 **
5938.1000	-13.0000	-46.1966 **	-46.1594 **
6786.4000	-13.0000	-44.2562 **	-44.5879 **
7634.7000	-13.0000	-46.4301 **	-46.0428 **
8483.0000	-13.0000	-44.3615 **	-45.7295 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

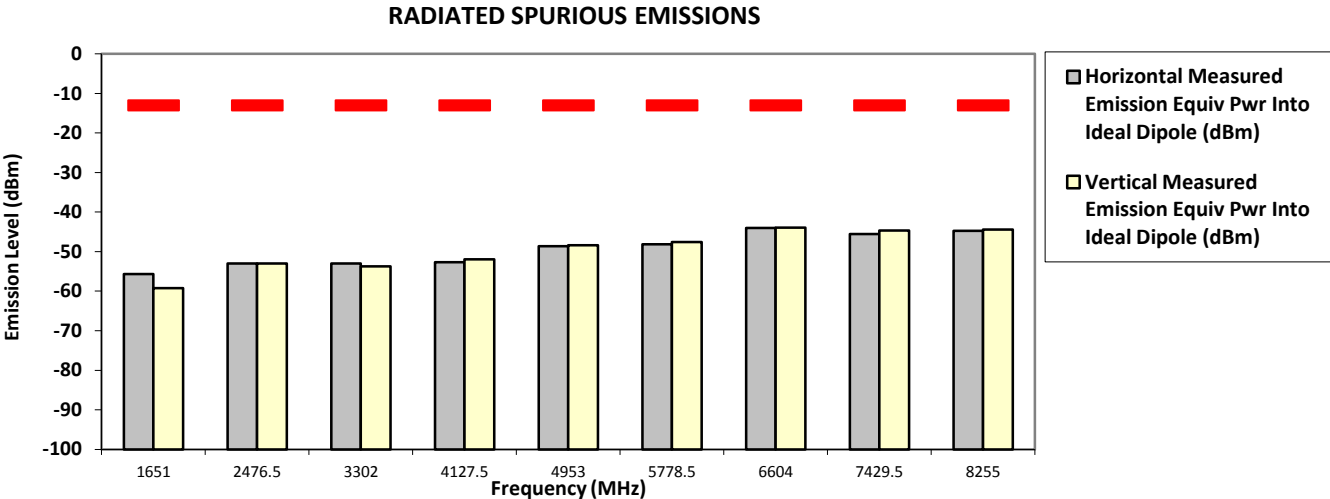
Failed Results

Model Number: LEX L11n
Battery Part No: PMNN4546A

Link Mode Radiated Emission:
S/N: 790TTV0214
Test Mode: TX LTE (Band 5)
Bandwidth 3MHz

SR:08397-EMC-00130
Accy Part No: 8397-PMLN7779A-5
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1651.0000	-13.0000	-55.6388 **	-59.2060 **
2476.5000	-13.0000	-52.9934 **	-53.0357 **
3302.0000	-13.0000	-52.9896 **	-53.6977 **
4127.5000	-13.0000	-52.6632 **	-51.9367 **
4953.0000	-13.0000	-48.6445 **	-48.3563 **
5778.5000	-13.0000	-48.1050 **	-47.5567 **
6604.0000	-13.0000	-44.0019 **	-43.9564 **
7429.5000	-13.0000	-45.5847 **	-44.6371 **
8255.0000	-13.0000	-44.7767 **	-44.4203 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

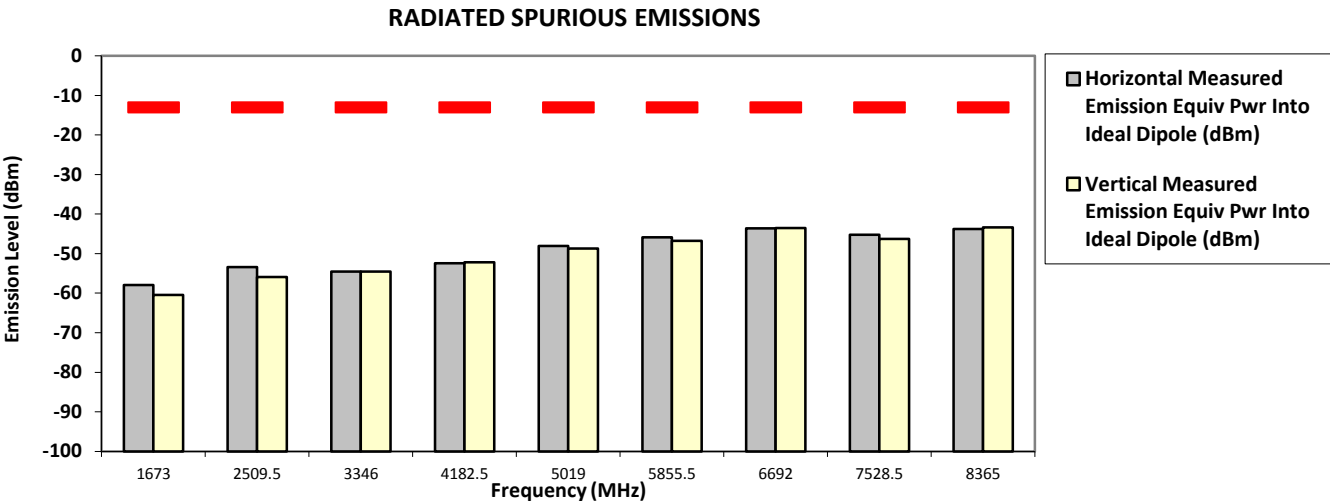
Failed Results

Model Number: LEX L11n
Battery Part No: PMNN4546A

Link Mode Radiated Emission:
S/N: 790TTV0214
Test Mode: TX LTE (Band 5)
Bandwidth 3MHz

SR:08397-EMC-00130
Accy Part No: 8397-PMLN7779A-5
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1673.0000	-13.0000	-57.9640 **	-60.4411 **
2509.5000	-13.0000	-53.4172 **	-55.9501 **
3346.0000	-13.0000	-54.5195 **	-54.5291 **
4182.5000	-13.0000	-52.4371 **	-52.2090 **
5019.0000	-13.0000	-48.0862 **	-48.6711 **
5855.5000	-13.0000	-45.9172 **	-46.7884 **
6692.0000	-13.0000	-43.6408 **	-43.5556 **
7528.5000	-13.0000	-45.2498 **	-46.2708 **
8365.0000	-13.0000	-43.7344 **	-43.3534 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

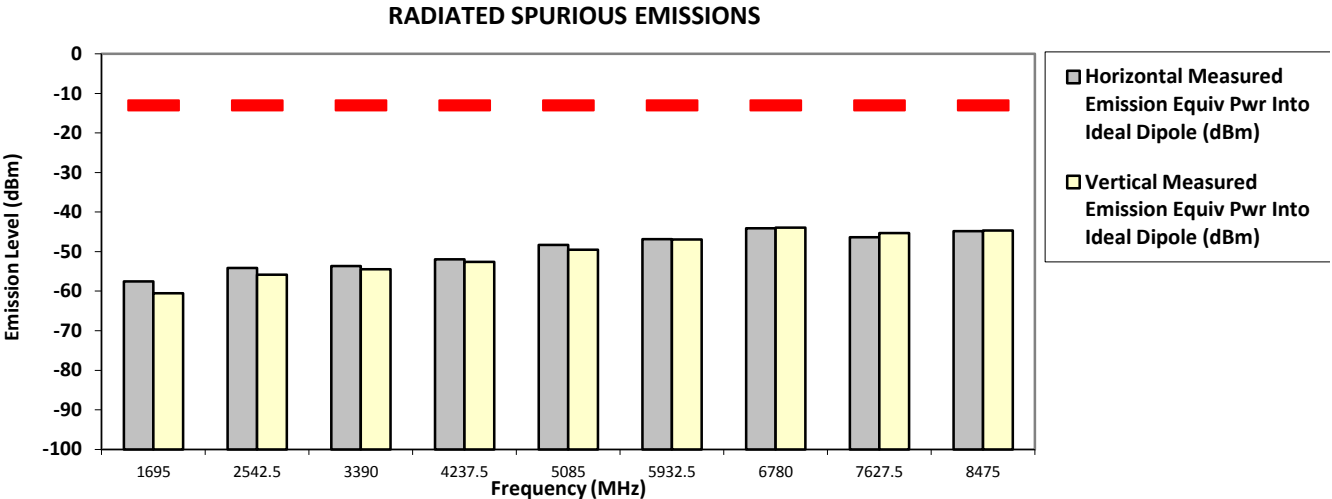
Failed Results

Model Number: LEX L11n
Battery Part No: PMNN4546A

Link Mode Radiated Emission:
S/N: 790TTV0214
Test Mode: TX LTE (Band 5)
Bandwidth 3MHz

SR:08397-EMC-00130
Accy Part No: 8397-PMLN7779A-5
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1695.0000	-13.0000	-57.5704 **	-60.5170 **
2542.5000	-13.0000	-54.1323 **	-55.7977 **
3390.0000	-13.0000	-53.6412 **	-54.4291 **
4237.5000	-13.0000	-51.9681 **	-52.5952 **
5085.0000	-13.0000	-48.3138 **	-49.5458 **
5932.5000	-13.0000	-46.8867 **	-46.9439 **
6780.0000	-13.0000	-44.0800 **	-43.9318 **
7627.5000	-13.0000	-46.3527 **	-45.2786 **
8475.0000	-13.0000	-44.7926 **	-44.6916 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

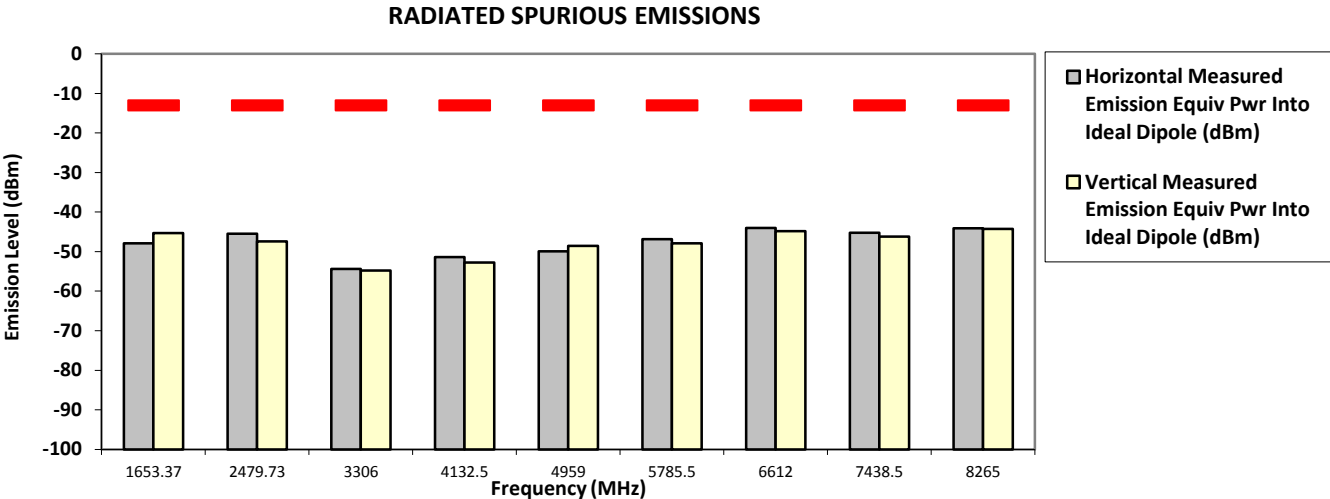
Failed Results

Model Number: LEX L11n
Battery Part No: PMNN4546A

Link Mode Radiated Emission:
S/N: 790TTV0214
Test Mode: TX LTE (Band 5)
Bandwidth 5MHz

SR:08397-EMC-00130
Accy Part No: 8397-PMLN7779A-5
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1653.3700	-13.0000	-47.9400 *	-45.3300 *
2479.7300	-13.0000	-45.4900 *	-47.3900 *
3306.0000	-13.0000	-54.4116 **	-54.7808 **
4132.5000	-13.0000	-51.3817 **	-52.7977 **
4959.0000	-13.0000	-49.9006 **	-48.5350 **
5785.5000	-13.0000	-46.8582 **	-47.9088 **
6612.0000	-13.0000	-44.0331 **	-44.8065 **
7438.5000	-13.0000	-45.2449 **	-46.2254 **
8265.0000	-13.0000	-44.1008 **	-44.2562 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

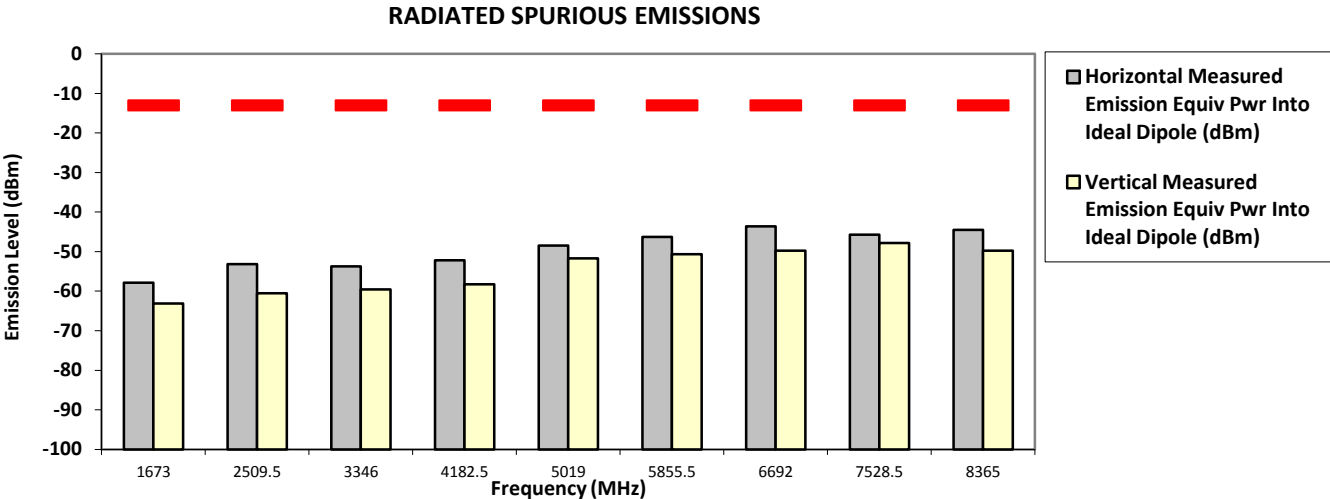
Failed Results

Model Number: LEX L11n
Battery Part No: PMNN4546A

Link Mode Radiated Emission:
S/N: 790TTV0214
Test Mode: TX LTE (Band 5)
Bandwidth 5MHz

SR:08397-EMC-00130
Accy Part No: 8397-PMLN7779A-5
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1673.0000	-13.0000	-57.8476 **	-63.1393 **
2509.5000	-13.0000	-53.1429 **	-60.5461 **
3346.0000	-13.0000	-53.7104 **	-59.5476 **
4182.5000	-13.0000	-52.1966 **	-58.2339 **
5019.0000	-13.0000	-48.4368 **	-51.7108 **
5855.5000	-13.0000	-46.2980 **	-50.6671 **
6692.0000	-13.0000	-43.6458 **	-49.7374 **
7528.5000	-13.0000	-45.6791 **	-47.8269 **
8365.0000	-13.0000	-44.5410 **	-49.7570 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

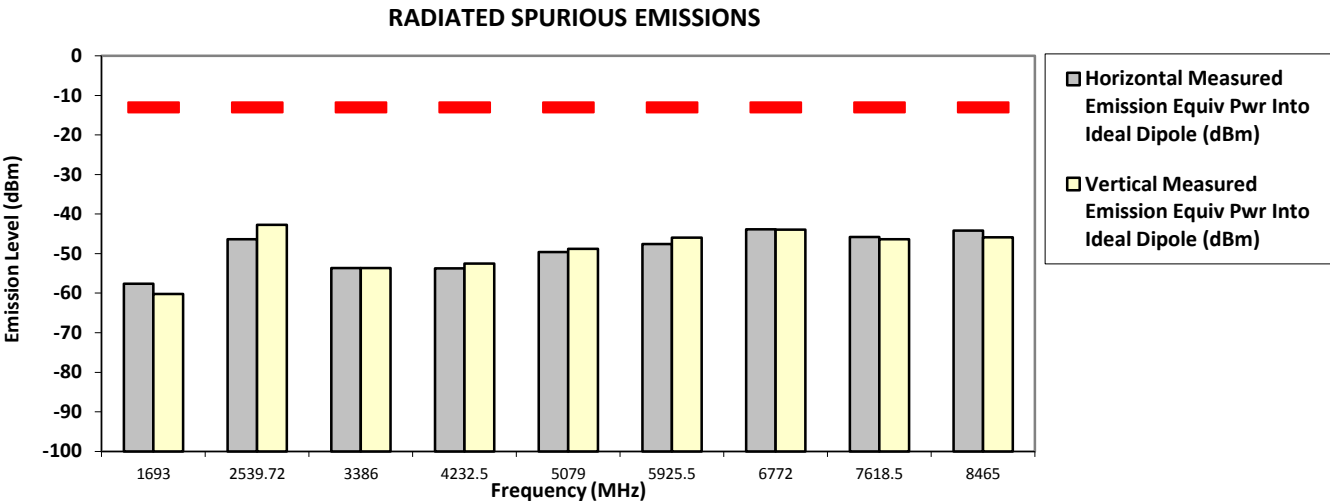
Failed Results

Model Number: LEX L11n
Battery Part No: PMNN4546A

Link Mode Radiated Emission:
S/N: 790TTV0214
Test Mode: TX LTE (Band 5)
Bandwidth 5MHz

SR:08397-EMC-00130
Accy Part No: 8397-PMLN7779A-5
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1693.0000	-13.0000	-57.6469 **	-60.2034 **
2539.7200	-13.0000	-46.3500 *	-42.6900 *
3386.0000	-13.0000	-53.6334 **	-53.6420 **
4232.5000	-13.0000	-53.7501 **	-52.4757 **
5079.0000	-13.0000	-49.6343 **	-48.7847 **
5925.5000	-13.0000	-47.5781 **	-45.9326 **
6772.0000	-13.0000	-43.8378 **	-43.9564 **
7618.5000	-13.0000	-45.8057 **	-46.4037 **
8465.0000	-13.0000	-44.2078 **	-45.8774 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

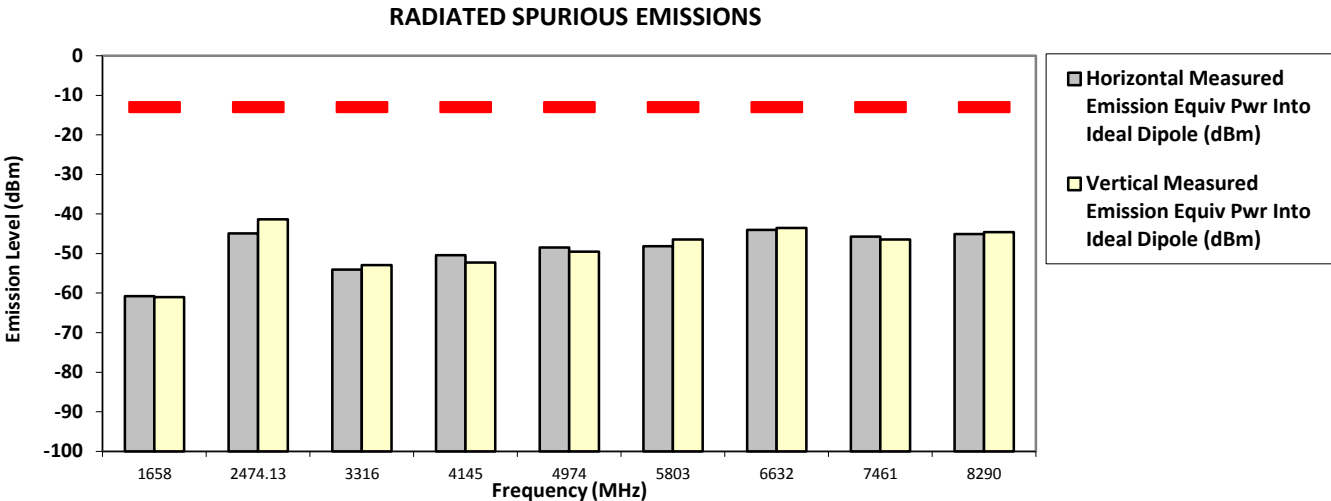
Failed Results

Model Number: LEX L11n
Battery Part No: PMNN4546A

Link Mode Radiated Emission:
S/N: 790TTV0214
Test Mode: TX LTE (Band 5)
Bandwidth 10MHz

SR:08397-EMC-00130
Accy Part No: 8397-PMLN7779A-5
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1658.0000	-13.0000	-60.7562 **	-60.9800 **
2474.1300	-13.0000	-44.9400 *	-41.3800 *
3316.0000	-13.0000	-54.0705 **	-52.8906 **
4145.0000	-13.0000	-50.3846 **	-52.2674 **
4974.0000	-13.0000	-48.4884 **	-49.5511 **
5803.0000	-13.0000	-48.1508 **	-46.4456 **
6632.0000	-13.0000	-44.0142 **	-43.4983 **
7461.0000	-13.0000	-45.7408 **	-46.4845 **
8290.0000	-13.0000	-45.0450 **	-44.5641 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

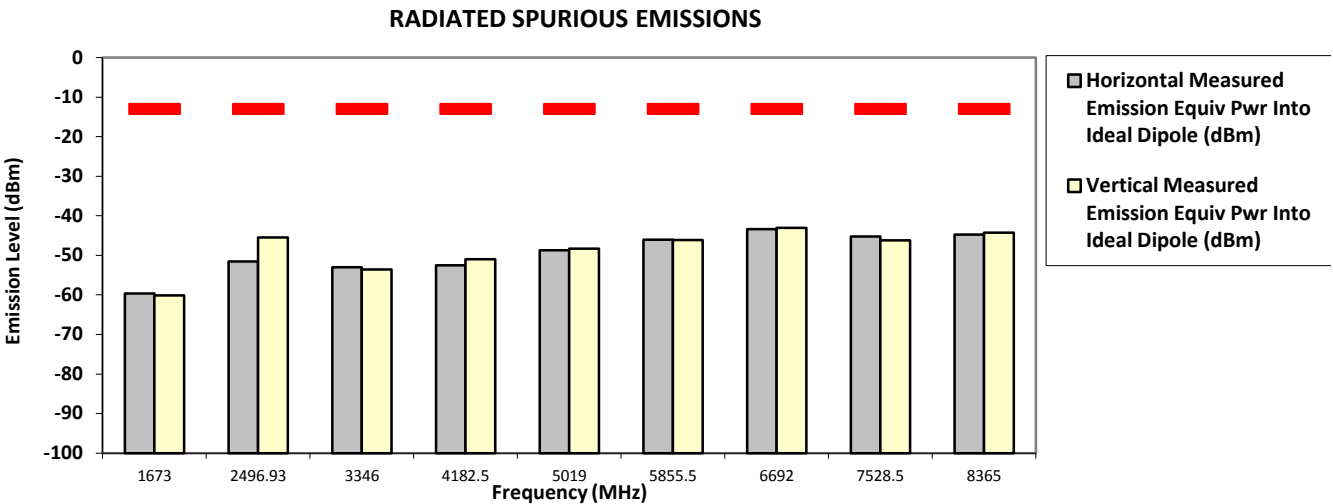
Failed Results

Link Mode Radiated Emission:
Model Number: LEX L11n
Battery Part No: PMNN4546A
Test Mode: TX LTE (Band 5)
836.500000 MHz (Mid)

S/N: 790TTV0214
Accy Part No: 8397-PMLN7779A-5
Bandwidth 10MHz

SR:08397-EMC-00130
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1673.0000	-13.0000	-59.6748 **	-60.0912 **
2496.9300	-13.0000	-51.5300 *	-45.5000 *
3346.0000	-13.0000	-53.0389 **	-53.5557 **
4182.5000	-13.0000	-52.5149 **	-50.9498 **
5019.0000	-13.0000	-48.6771 **	-48.2719 **
5855.5000	-13.0000	-46.0102 **	-46.1455 **
6692.0000	-13.0000	-43.3676 **	-43.0397 **
7528.5000	-13.0000	-45.2098 **	-46.2180 **
8365.0000	-13.0000	-44.7252 **	-44.2553 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

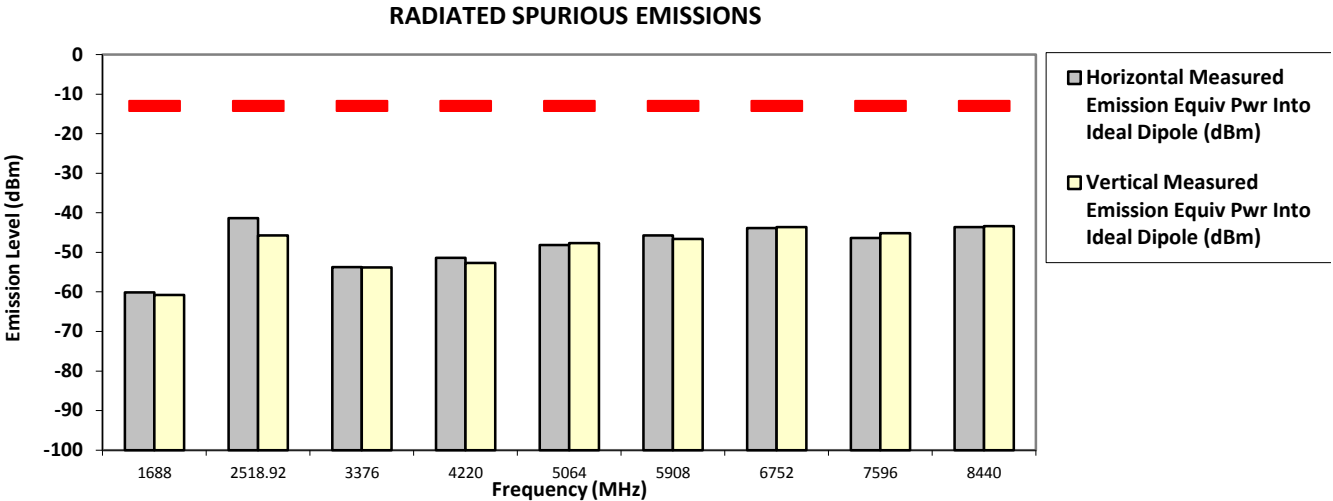
Failed Results

Link Mode Radiated Emission:
Model Number: LEX L11n
Battery Part No: PMNN4546A
Test Mode: TX LTE (Band 5)
844.000000 MHz (High)
Bandwidth 10MHz

S/N: 790TTV0214
Accy Part No: 8397-PMLN7779A-5
0.252 Watt(s) /Max Power

SR:08397-EMC-00130

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1688.0000	-13.0000	-60.0830 **	-60.7763 **
2518.9200	-13.0000	-41.3500 *	-45.7100 *
3376.0000	-13.0000	-53.7532 **	-53.7819 **
4220.0000	-13.0000	-51.3739 **	-52.6566 **
5064.0000	-13.0000	-48.1443 **	-47.6572 **
5908.0000	-13.0000	-45.6966 **	-46.6440 **
6752.0000	-13.0000	-43.8659 **	-43.6522 **
7596.0000	-13.0000	-46.3426 **	-45.1575 **
8440.0000	-13.0000	-43.6487 **	-43.3311 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

Failed Results

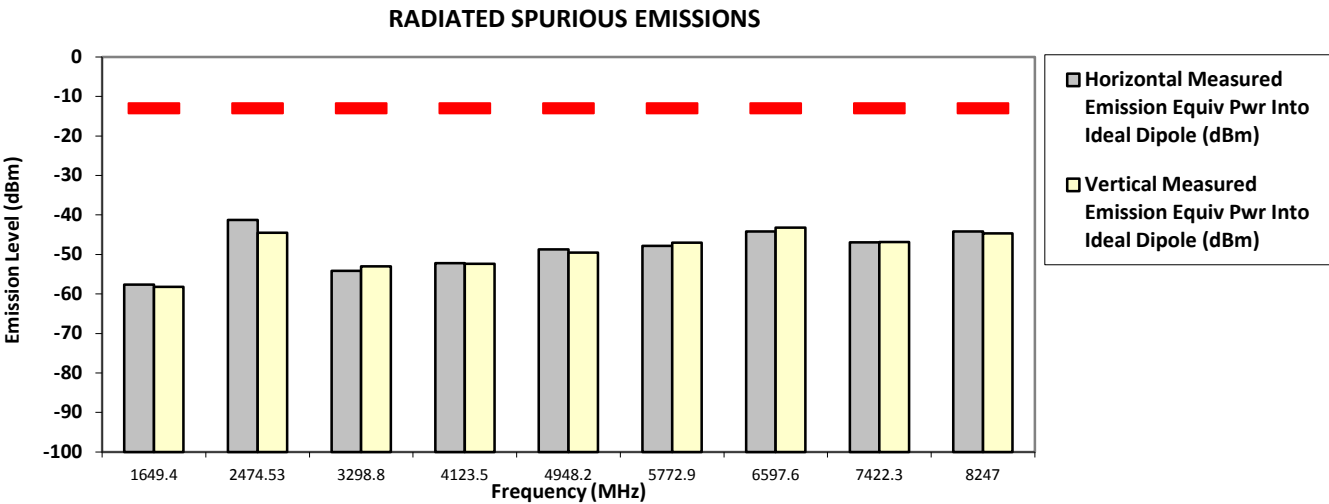
DC configuration: Link Mode 24V

Model Number: LEX L11n
Battery Part No: PMNN4546A

Link Mode Radiated Emission:
S/N: 790TTV0214
Test Mode: TX LTE (Band 5)
Bandwidth 1.4MHz

SR:08397-EMC-00130
Accy Part No: 8397-PMLN7779A-5
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1649.4000	-13.0000	-57.6129 **	-58.2090 **
2474.5300	-13.0000	-41.2900 *	-44.4600 *
3298.8000	-13.0000	-54.1344 **	-53.0236 **
4123.5000	-13.0000	-52.2030 **	-52.3850 **
4948.2000	-13.0000	-48.7363 **	-49.4845 **
5772.9000	-13.0000	-47.8359 **	-47.0227 **
6597.6000	-13.0000	-44.1546 **	-43.2170 **
7422.3000	-13.0000	-46.9613 **	-46.8148 **
8247.0000	-13.0000	-44.1949 **	-44.6723 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Wed, Jan 24, 2018

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

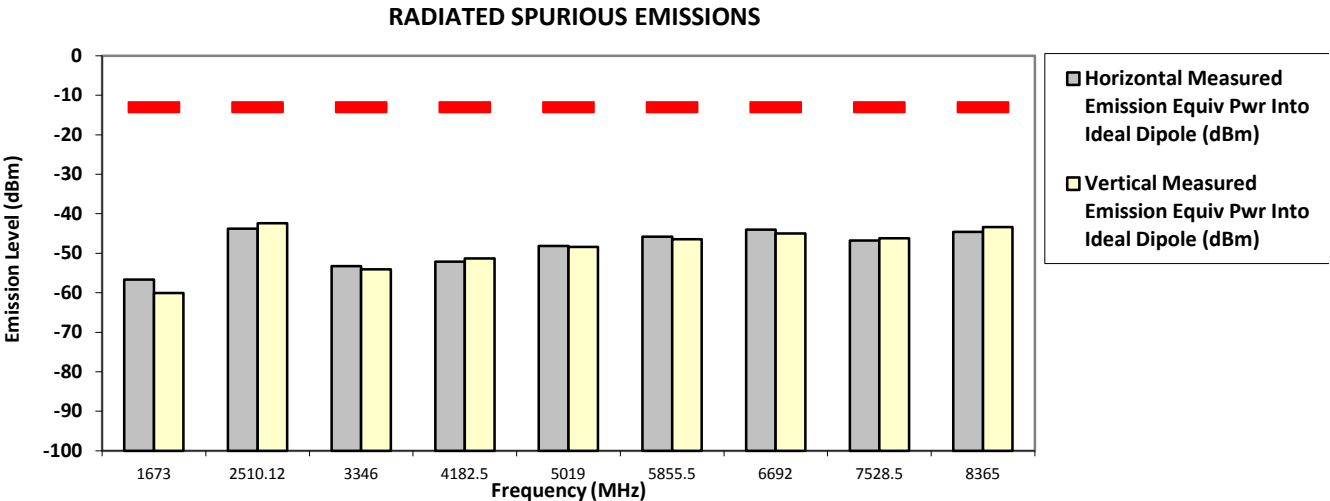
System MU: 5.01 dB
Remarks:
Passed Results
Marginal Results
Failed Results

Model Number: LEX L11n
Battery Part No: PMNN4546A

Link Mode Radiated Emission:
S/N: 790TTV0214
Test Mode: TX LTE (Band 5)
Bandwidth 1.4MHz

SR:08397-EMC-00130
Accy Part No: 8397-PMLN7779A-5
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1673.0000	-13.0000	-56.6817 **	-60.0451 **
2510.1200	-13.0000	-43.7700 *	-42.4100 *
3346.0000	-13.0000	-53.2698 **	-54.0224 **
4182.5000	-13.0000	-52.0832 **	-51.3015 **
5019.0000	-13.0000	-48.1625 **	-48.4093 **
5855.5000	-13.0000	-45.8113 **	-46.4750 **
6692.0000	-13.0000	-44.0332 **	-44.9866 **
7528.5000	-13.0000	-46.7545 **	-46.2373 **
8365.0000	-13.0000	-44.5968 **	-43.3725 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

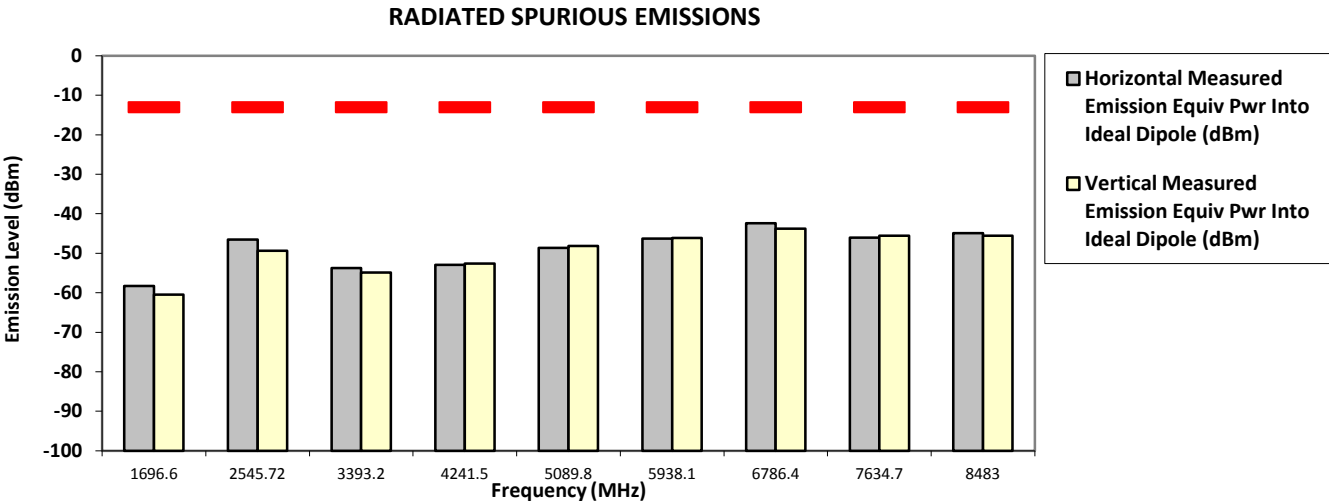
Failed Results

Model Number: LEX L11n
Battery Part No: PMNN4546A

Link Mode Radiated Emission:
S/N: 790TTV0214
Test Mode: TX LTE (Band 5)
Bandwidth 1.4MHz

SR:08397-EMC-00130
Accy Part No: 8397-PMLN7779A-5
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1696.6000	-13.0000	-58.2914 **	-60.4366 **
2545.7200	-13.0000	-46.5600 *	-49.3800 *
3393.2000	-13.0000	-53.7093 **	-54.8429 **
4241.5000	-13.0000	-52.8875 **	-52.6266 **
5089.8000	-13.0000	-48.6248 **	-48.1870 **
5938.1000	-13.0000	-46.2752 **	-46.0818 **
6786.4000	-13.0000	-42.4248 **	-43.7417 **
7634.7000	-13.0000	-46.0433 **	-45.5740 **
8483.0000	-13.0000	-44.9041 **	-45.5857 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

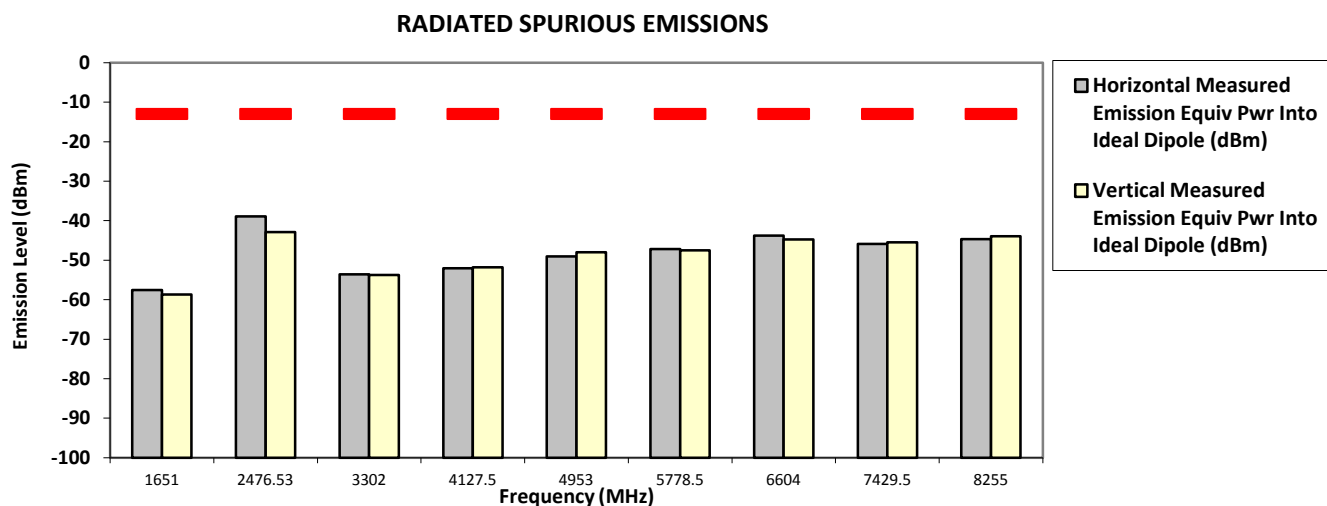
Failed Results

SR:08397-EMC-00130

Accy Part No: 8397-PMLN7779A-5

Test Mode: TX LTE (Band 5)

0.252 Watt(s) /Max Power

[illegible]

The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin & Qawiman

Wed, Jan 24, 2018

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

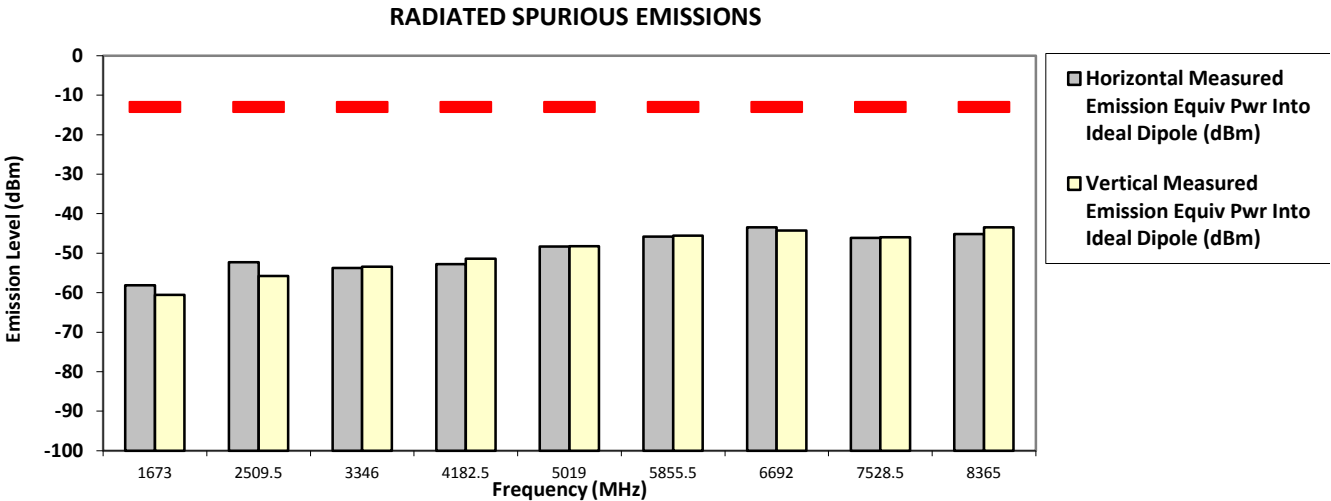
Failed Results

Model Number: LEX L11n
Battery Part No: PMNN4546A

Link Mode Radiated Emission:
S/N: 790TTV0214
Test Mode: TX LTE (Band 5)
Bandwidth 3MHz

SR:08397-EMC-00130
Accy Part No: 8397-PMLN7779A-5
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1673.0000	-13.0000	-58.0867 **	-60.5393 **
2509.5000	-13.0000	-52.2537 **	-55.7961 **
3346.0000	-13.0000	-53.7207 **	-53.4045 **
4182.5000	-13.0000	-52.7716 **	-51.4024 **
5019.0000	-13.0000	-48.3484 **	-48.2070 **
5855.5000	-13.0000	-45.8030 **	-45.5863 **
6692.0000	-13.0000	-43.4603 **	-44.2834 **
7528.5000	-13.0000	-46.1348 **	-45.9252 **
8365.0000	-13.0000	-45.1305 **	-43.4190 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

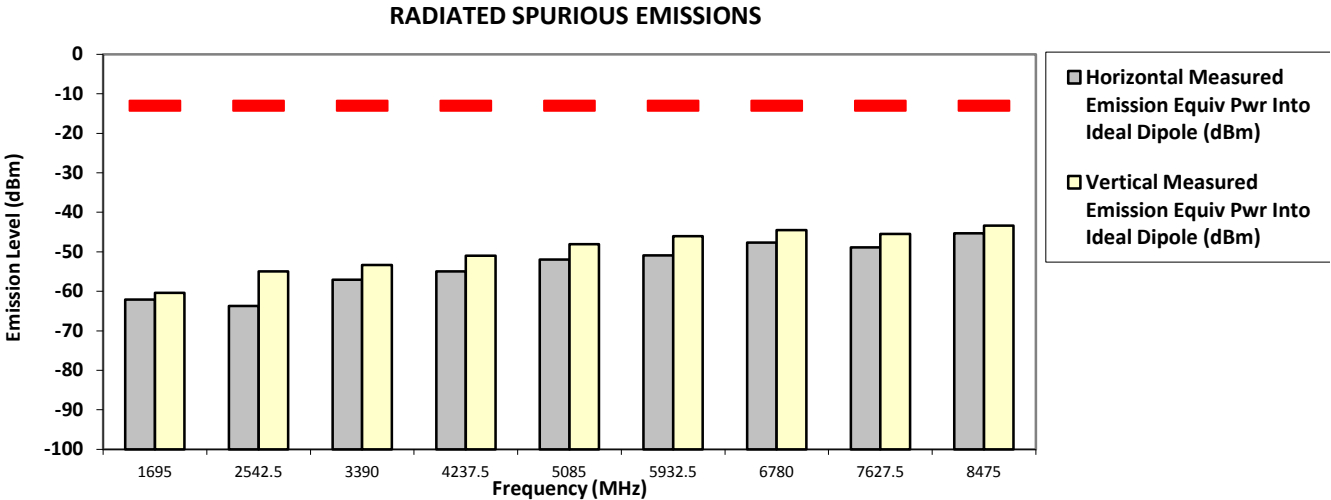
Failed Results

Model Number: LEX L11n
Battery Part No: PMNN4546A

Link Mode Radiated Emission:
S/N: 790TTV0214
Test Mode: TX LTE (Band 5)
Bandwidth 3MHz

SR:08397-EMC-00130
Accy Part No: 8397-PMLN7779A-5
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1695.0000	-13.0000	-62.0781 **	-60.4098 **
2542.5000	-13.0000	-63.7008 **	-54.9298 **
3390.0000	-13.0000	-57.0692 **	-53.3201 **
4237.5000	-13.0000	-54.9538 **	-50.9915 **
5085.0000	-13.0000	-51.9705 **	-48.0917 **
5932.5000	-13.0000	-50.9300 **	-45.9998 **
6780.0000	-13.0000	-47.6991 **	-44.4670 **
7627.5000	-13.0000	-48.8763 **	-45.4811 **
8475.0000	-13.0000	-45.3312 **	-43.3442 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

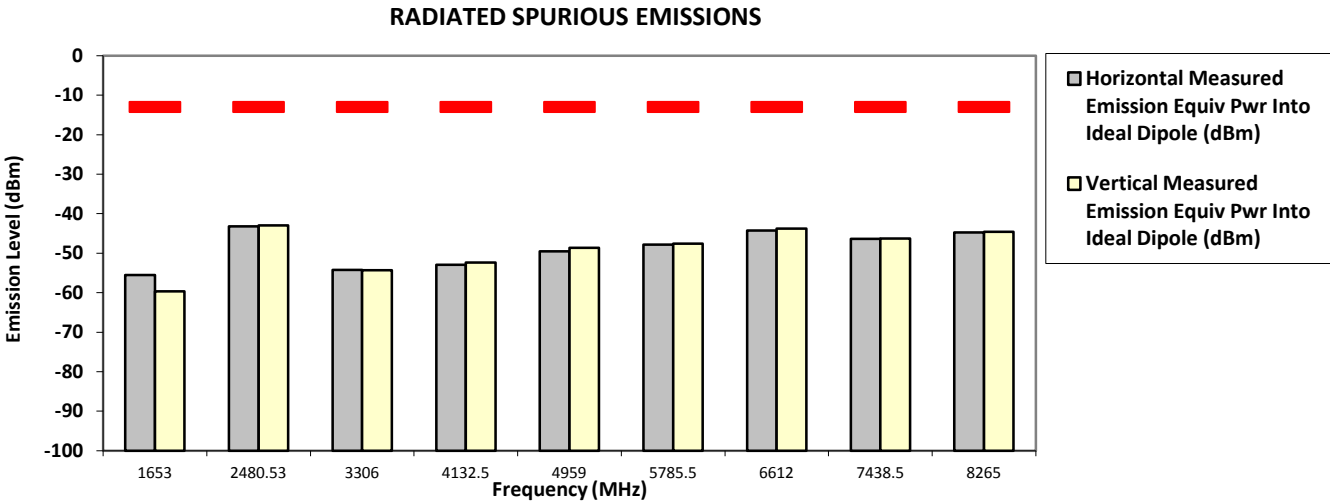
Failed Results

Model Number: LEX L11n
Battery Part No: PMNN4546A

Link Mode Radiated Emission:
S/N: 790TTV0214
Test Mode: TX LTE (Band 5)
Bandwidth 5MHz

SR:08397-EMC-00130
Accy Part No: 8397-PMLN7779A-5
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1653.0000	-13.0000	-55.5440 **	-59.6694 **
2480.5300	-13.0000	-43.2300 *	-42.9600 *
3306.0000	-13.0000	-54.2239 **	-54.3286 **
4132.5000	-13.0000	-52.8967 **	-52.3347 **
4959.0000	-13.0000	-49.5448 **	-48.6000 **
5785.5000	-13.0000	-47.8061 **	-47.5719 **
6612.0000	-13.0000	-44.2298 **	-43.7356 **
7438.5000	-13.0000	-46.3803 **	-46.2727 **
8265.0000	-13.0000	-44.7343 **	-44.5854 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

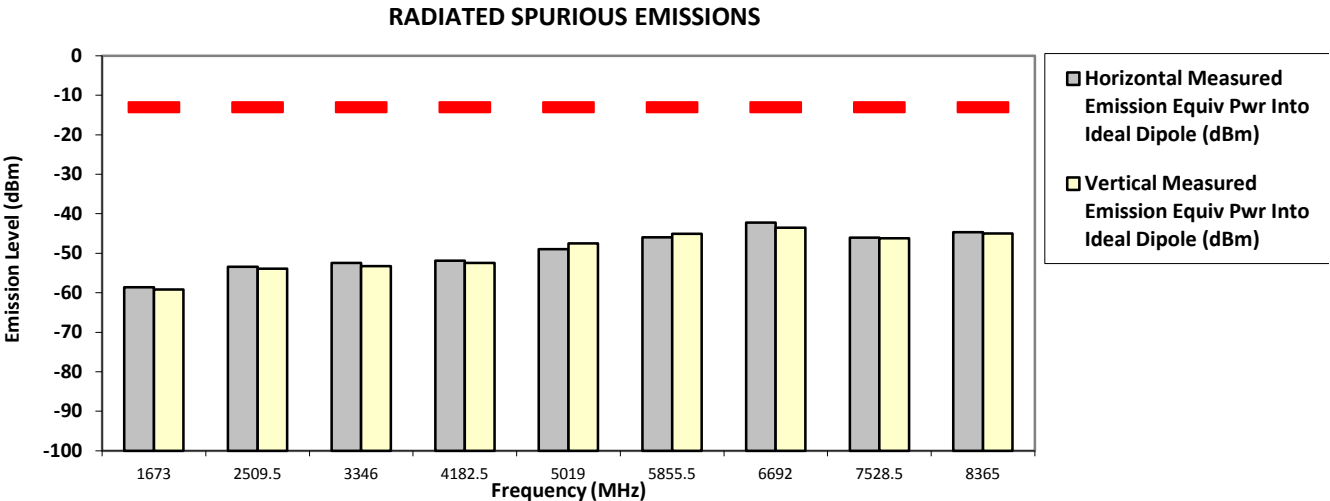
Failed Results

Model Number: LEX L11n
Battery Part No: PMNN4546A

Link Mode Radiated Emission:
S/N: 790TTV0214
Test Mode: TX LTE (Band 5)
Bandwidth 5MHz

SR:08397-EMC-00130
Accy Part No: 8397-PMLN7779A-5
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1673.0000	-13.0000	-58.5828 **	-59.1636 **
2509.5000	-13.0000	-53.3764 **	-53.8879 **
3346.0000	-13.0000	-52.4760 **	-53.2832 **
4182.5000	-13.0000	-51.8903 **	-52.4668 **
5019.0000	-13.0000	-48.9379 **	-47.4694 **
5855.5000	-13.0000	-45.9404 **	-45.0642 **
6692.0000	-13.0000	-42.2038 **	-43.5683 **
7528.5000	-13.0000	-46.0617 **	-46.1702 **
8365.0000	-13.0000	-44.6905 **	-44.9937 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

Failed Results

Model Number: LEX L11n

Link Mode Radiated Emission:

SR:08397-EMC-00130

Battery Part No: PMNN4546A

S/N: 790TTV0214

Accy Part No: 8397-PMLN7779A-5

846.500000 MHz (High)

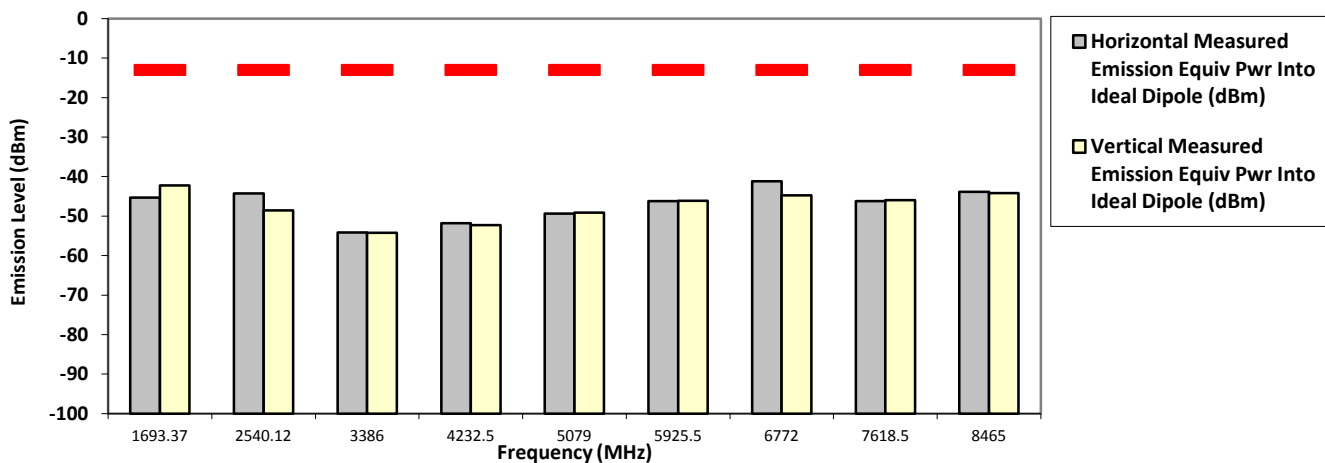
Test Mode: TX LTE (Band 5)

Bandwidth 5MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1693.3700	-13.0000	-45.3400 *	-42.2600 *
2540.1200	-13.0000	-44.2500 *	-48.5400 *
3386.0000	-13.0000	-54.1303 **	-54.2001 **
4232.5000	-13.0000	-51.7581 **	-52.2729 **
5079.0000	-13.0000	-49.3350 **	-49.1204 **
5925.5000	-13.0000	-46.1644 **	-46.0851 **
6772.0000	-13.0000	-41.1781 **	-44.7111 **
7618.5000	-13.0000	-46.2288 **	-45.9202 **
8465.0000	-13.0000	-43.8603 **	-44.1966 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Wed, Jan 24, 2018

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

Failed Results

Model Number: LEX L11n

Battery Part No: PMNN4546A

829.000000 MHz (Low)

Link Mode Radiated Emission:

S/N: 790TTV0214

Test Mode: TX LTE (Band 5)

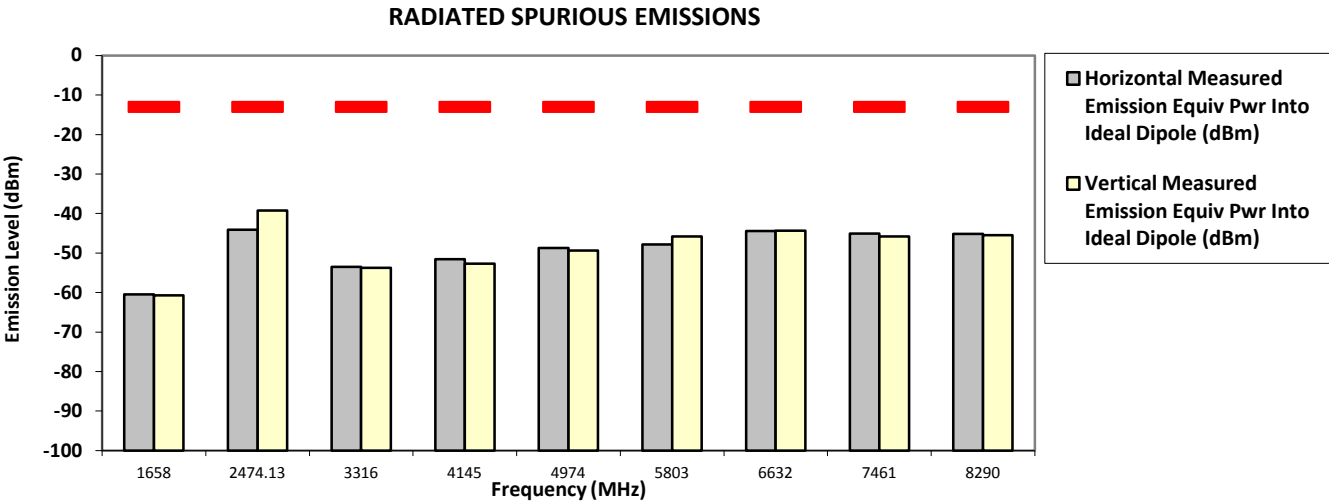
Bandwidth 10MHz

SR:08397-EMC-00130

Accy Part No: 8397-PMLN7779A-5

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1658.0000	-13.0000	-60.4540 **	-60.6898 **
2474.1300	-13.0000	-44.0800 *	-39.2500 *
3316.0000	-13.0000	-53.4806 **	-53.7279 **
4145.0000	-13.0000	-51.5143 **	-52.6811 **
4974.0000	-13.0000	-48.7465 **	-49.3640 **
5803.0000	-13.0000	-47.7991 **	-45.7793 **
6632.0000	-13.0000	-44.4306 **	-44.2984 **
7461.0000	-13.0000	-45.0974 **	-45.8138 **
8290.0000	-13.0000	-45.1791 **	-45.4494 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

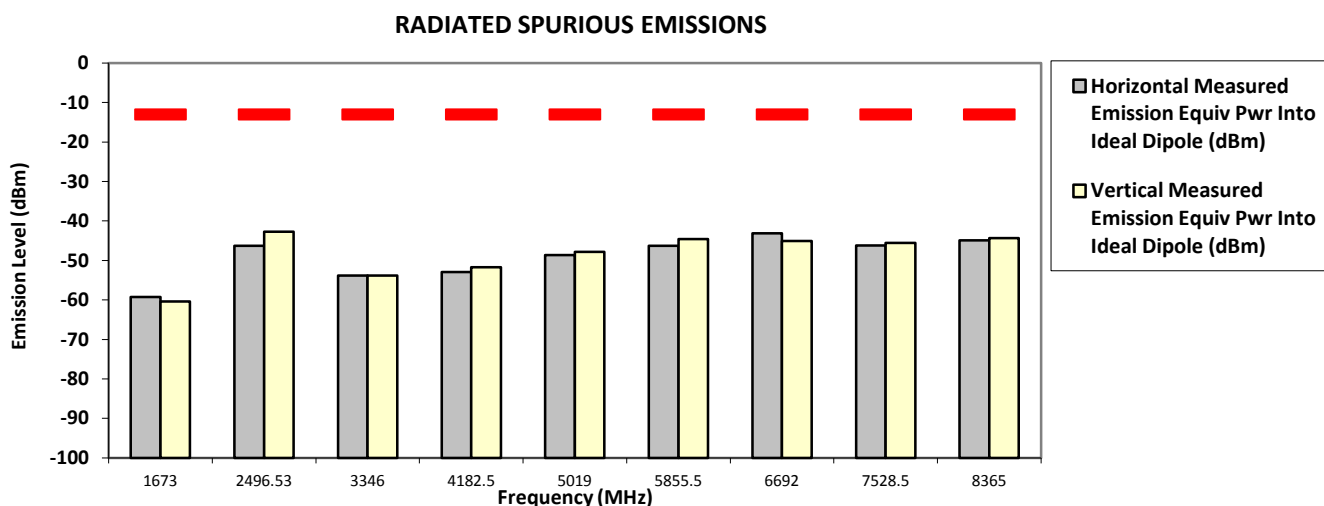
Passed Results

Marginal Results

Failed Results

Link Mode Radiated Emission:
S/N: 790TTV0214
Model Number: LEX L11n
Battery Part No: PMNN4546A
Test Mode: TX LTE (Band 5)
Bandwidth 10MHz
836.500000 MHz (Mid)
Accy Part No: 8397-PMLN7779A-5
SR:08397-EMC-00130
0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1673.0000	-13.0000	-59.2655 **	-60.3963 **
2496.5300	-13.0000	-46.3200 *	-42.6800
3346.0000	-13.0000	-53.8368 **	-53.8129 **
4182.5000	-13.0000	-52.9350 **	-51.7047 **
5019.0000	-13.0000	-48.6044 **	-47.8280 **
5855.5000	-13.0000	-46.2931 **	-44.5556 **
6692.0000	-13.0000	-43.1497 **	-45.0915 **
7528.5000	-13.0000	-46.2256 **	-45.5515 **
8365.0000	-13.0000	-44.9015 **	-44.3765 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Industry Canada: 109AK

Wed, Jan 24, 2018

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

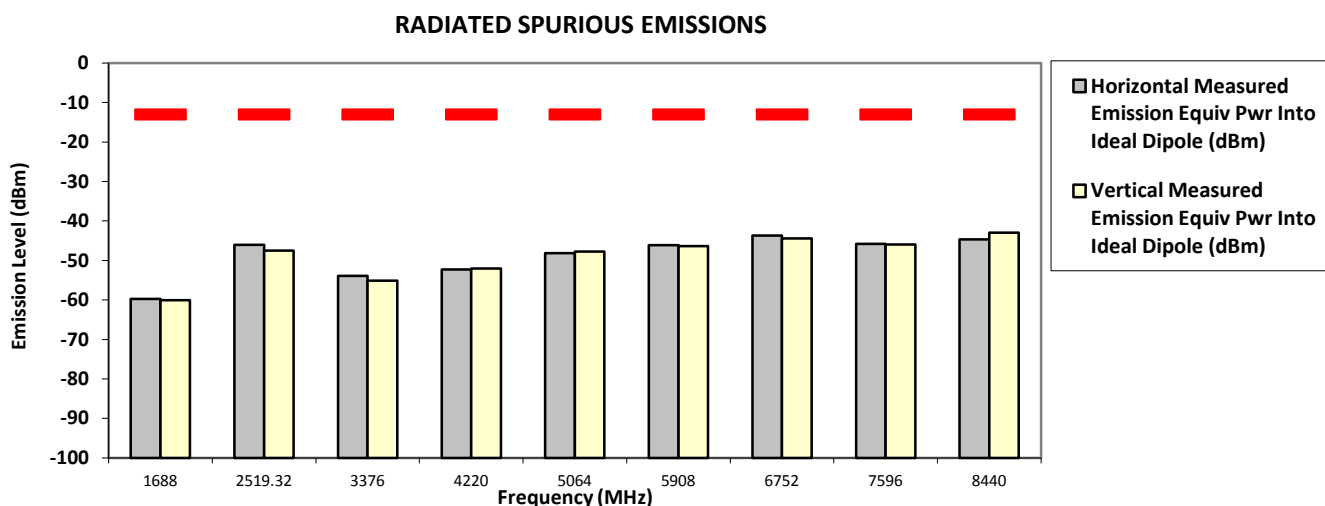
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TTV0214 SR:08397-EMC-00130
Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
Test Mode: TX LTE (Band 5)
844.000000 MHz (High) Bandwidth 10MHz 0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1688.0000	-13.0000	-59.7664 **	-60.0877 **
2519.3200	-13.0000	-46.0400 *	-47.4600 *
3376.0000	-13.0000	-53.8839 **	-55.0982 **
4220.0000	-13.0000	-52.2562 **	-52.0543 **
5064.0000	-13.0000	-48.1633 **	-47.7489 **
5908.0000	-13.0000	-46.1284 **	-46.3264 **
6752.0000	-13.0000	-43.6665 **	-44.4274 **
7596.0000	-13.0000	-45.8059 **	-45.9619 **
8440.0000	-13.0000	-44.6240 **	-42.9293 **



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Wed, Jan 24, 2018

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 22.6 Hum(%RH): 63.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

Failed Results

--Test Report End--