

FCC Test Report –Transmitter Radiated Emission Digital (Part 90)

Report ID : 05081-EMC-00001
FCC ID : AXI11374620
IC : 10239A-11374620
Tested Model : EVX-261-G6-5
Test Date : Mar 23, 2016 ~ Mar 24, 2016
Issued Date : April 4, 2016
Applicant : Vertex Standard LMR, Inc
Address : Innoplex Plot 2A, Medan Bayan lepas, Mukim 12, S.W.D. 11900
Bayan Lepas, Penang, Malaysia
Testing Lab : Motorola Penang Adv. Comm. Laboratory
Lab Address : Motorola Solutions Malaysia Sdn Bhd, Plot 2, Bayan Lepas Technoplex
Industrial Park, Mukim 12 S.W.D, 11900 Bayan Lepas, Penang, Malaysia.
FCC Registration: 772092
IC Registration: 109AK

Prepare By: _____, Date: 4 April, 2016

Tey Pei Loo / Senior Staff Engineer / +6048503137 / Peiloo@motorolasolutions.com

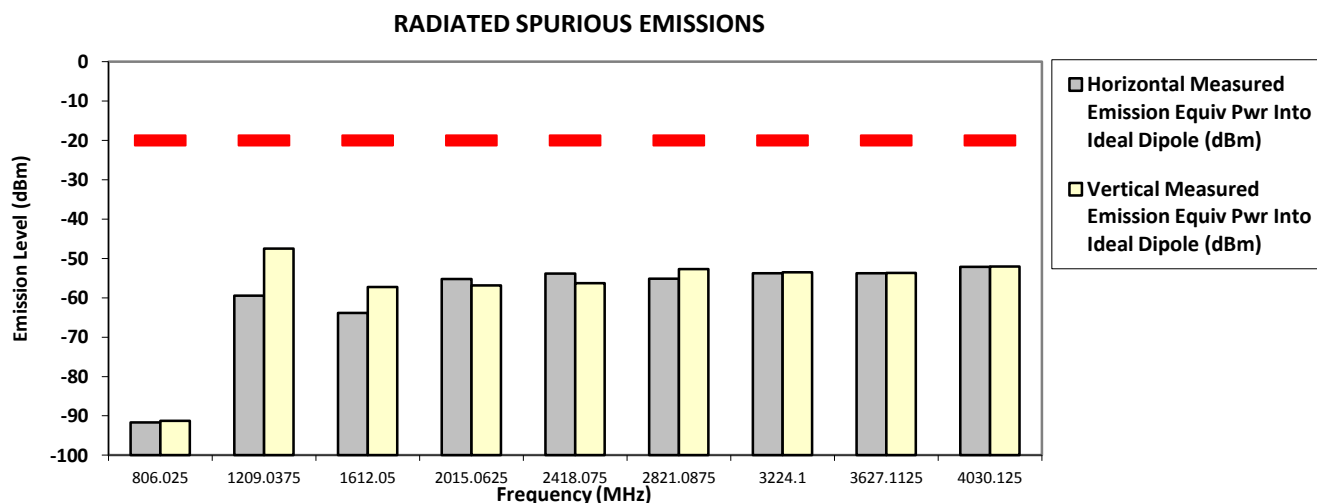
Approved By: _____, Date: 4 April, 2016

Soon Oi May / Senior Staff Engineer / +6048503137 / oimaysoon@motorolasolutions.com

403.012500 MHz

12.5 kHz

5.500 Watt(s) /Max Power

[illegible]

The data presented here was taken using the substitution method as found in the TIA/EIA-603D document.
 Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Wed, Mar 23, 2016
 FCC Registration: 772092 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): 23.6 Hum(%RH): 69.1

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

Failed Results

SAC Transmitter Radiated Emission : EVX-261-G6-5 403-470MHZ 5W

Model #: EVX-261

S/N: 2B6C300013

SR:05081-EMC-00001

Battery Part No: FNB-V134LI-UNI

Accy Part No: ATU-6A, ATU-6C

Test Mode: TX Digital

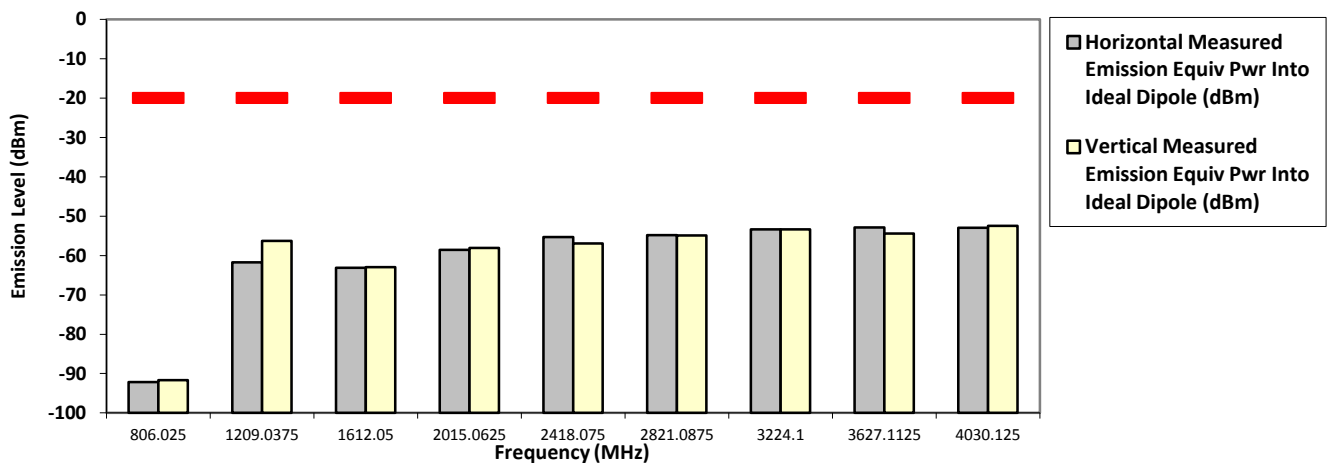
403.012500 MHz

12.5 kHz

1.000 Watt(s) /Low Power

Frequency (MHz)	FCC Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
806.0250	-20.0000	-92.1858 **	-91.6432 **
1209.0375	-20.0000	-61.7189 **	-56.3080 *
1612.0500	-20.0000	-63.1370 **	-62.9384 **
2015.0625	-20.0000	-58.5983 **	-58.0976 **
2418.0750	-20.0000	-55.3453 **	-56.9766 **
2821.0875	-20.0000	-54.8318 **	-54.8744 **
3224.1000	-20.0000	-53.3655 **	-53.3481 **
3627.1125	-20.0000	-52.8538 **	-54.3777 **
4030.1250	-20.0000	-52.9491 **	-52.4985 **

RADIATED SPURIOUS EMISSIONS



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Wed, Mar 23, 2016

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Failed Results

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Battery Part No: FNB-V134LI-UNI

Accy Part No: ATU-6A, ATU-6C

Test Mode: TX Digital

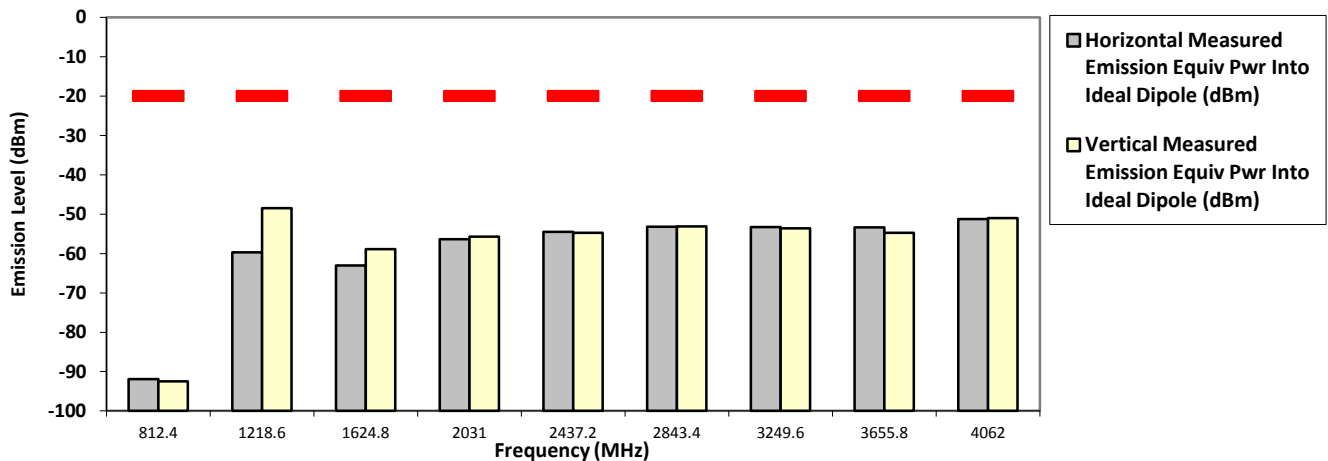
406.200000 MHz

12.5 kHz

5.500 Watt(s) /Max Power

Frequency (MHz)	FCC Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
812.4000	-20.0000	-91.9140 **	-92.4470 **
1218.6000	-20.0000	-59.6993 **	-48.4906 *
1624.8000	-20.0000	-63.0534 **	-58.8845 *
2031.0000	-20.0000	-56.4062 **	-55.7506 **
2437.2000	-20.0000	-54.4947 **	-54.7506 **
2843.4000	-20.0000	-53.1962 **	-53.1218 **
3249.6000	-20.0000	-53.2434 **	-53.6414 **
3655.8000	-20.0000	-53.3853 **	-54.7372 **
4062.0000	-20.0000	-51.2371 **	-50.9718 **

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Passed Results

Marginal Results

Failed Results

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Model #: EVX-261

S/N: 2B6C300013

SR:05081-EMC-00001

Battery Part No: FNB-V134LI-UNI

Accy Part No: ATU-6A, ATU-6C

Test Mode: TX Digital

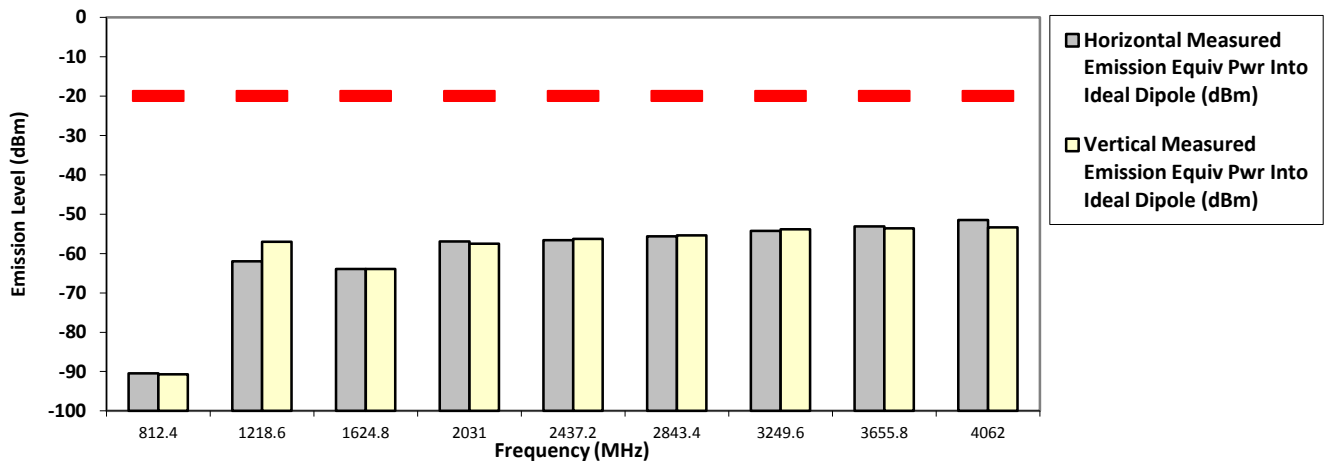
406.200000 MHz

12.5 kHz

1.000 Watt(s) /Low Power

Frequency (MHz)	FCC Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
812.4000	-20.0000	-90.4758 **	-90.6847 **
1218.6000	-20.0000	-61.9611 **	-57.0116 *
1624.8000	-20.0000	-63.9119 **	-63.9296 **
2031.0000	-20.0000	-56.9763 **	-57.5462 **
2437.2000	-20.0000	-56.5764 **	-56.2537 **
2843.4000	-20.0000	-55.6623 **	-55.4215 **
3249.6000	-20.0000	-54.2907 **	-53.8412 **
3655.8000	-20.0000	-53.1211 **	-53.5986 **
4062.0000	-20.0000	-51.4938 **	-53.3555 **

RADIATED SPURIOUS EMISSIONS



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Remarks:

Passed Results

Marginal Results

Failed Results

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Model #: EVX-261

S/N: 2B6C300013

SR:05081-EMC-00001

Battery Part No: FNB-V134LI-UNI

Accy Part No: ATU-6A, ATU-6C

Test Mode: TX Digital

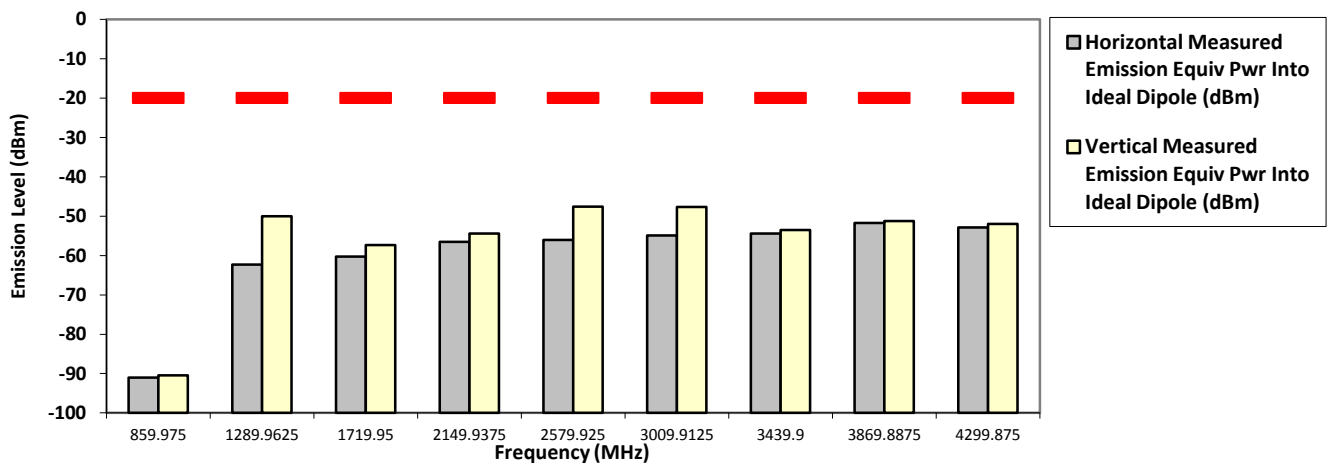
429.987500 MHz

12.5 kHz

5.500 Watt(s) /Max Power

Frequency (MHz)	FCC Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
859.9750	-20.0000	-91.0540 **	-90.4670 **
1289.9625	-20.0000	-62.3405 **	-50.0381 *
1719.9500	-20.0000	-60.2988 **	-57.3205 **
2149.9375	-20.0000	-56.5441 **	-54.3897 **
2579.9250	-20.0000	-56.0178 **	-47.5953 *
3009.9125	-20.0000	-54.8927 **	-47.6458 *
3439.9000	-20.0000	-54.4073 **	-53.5412 **
3869.8875	-20.0000	-51.7389 **	-51.2270 **
4299.8750	-20.0000	-52.8827 **	-51.9670 **

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System MU: 5.01 dB

Remarks:

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Marginal Results

Failed Results

SAC Transmitter Radiated Emission : EVX-261-G6-5 403-470MHZ 5W

Model #: EVX-261

S/N: 2B6C300013

SR:05081-EMC-00001

Battery Part No: FNB-V134LI-UNI

Accy Part No: ATU-6A, ATU-6C

Test Mode: TX Digital

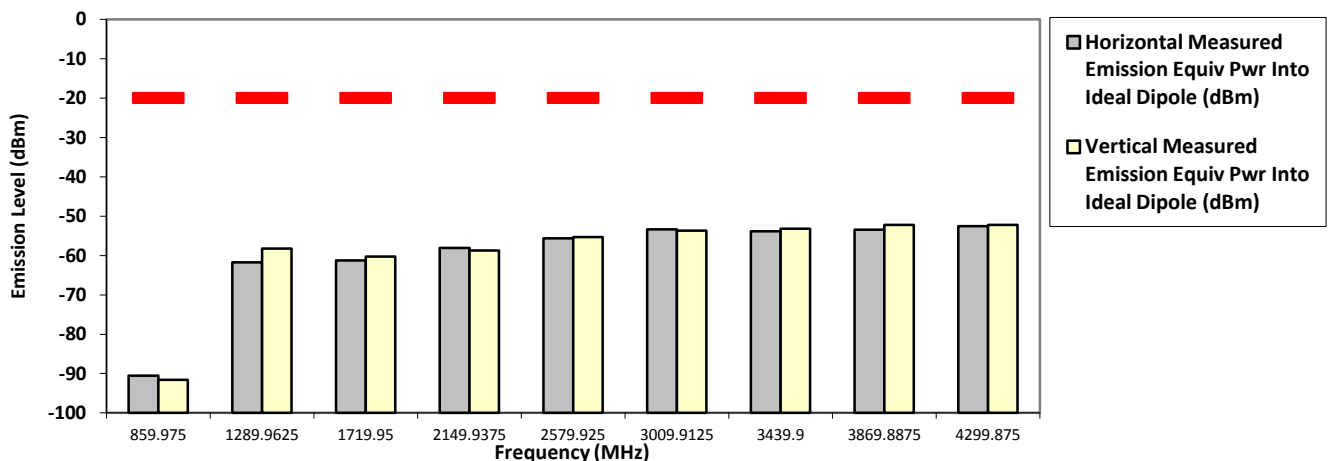
429.987500 MHz

12.5 kHz

1.000 Watt(s) /Low Power

Frequency (MHz)	FCC Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
859.9750	-20.0000	-90.5347 **	-91.5672 **
1289.9625	-20.0000	-61.7004 **	-58.2324 *
1719.9500	-20.0000	-61.2547 **	-60.2904 **
2149.9375	-20.0000	-58.1061 **	-58.7218 **
2579.9250	-20.0000	-55.6129 **	-55.2881 **
3009.9125	-20.0000	-53.3822 **	-53.6475 **
3439.9000	-20.0000	-53.8252 **	-53.2028 **
3869.8875	-20.0000	-53.4537 **	-52.2347 **
4299.8750	-20.0000	-52.5359 **	-52.2277 **

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Model #: EVX-261

S/N: 2B6C300013

SR:05081-EMC-00001

Battery Part No: FNB-V134LI-UNI

Accy Part No: ATU-6A, ATU-6C

Test Mode: TX Digital

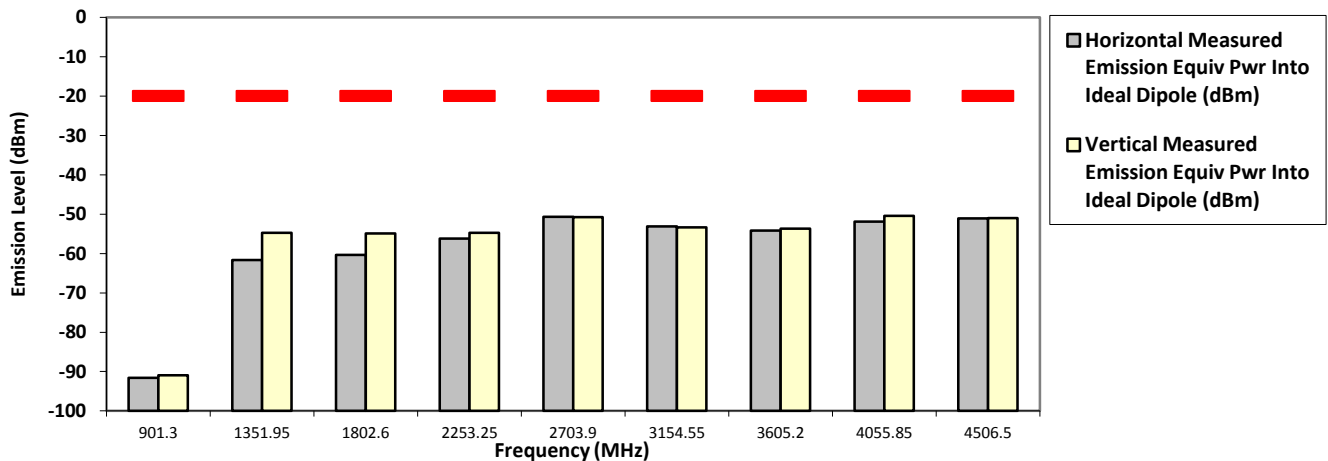
450.650000 MHz

12.5 kHz

5.500 Watt(s) /Max Power

Frequency (MHz)	FCC Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
901.3000	-20.0000	-91.5832 **	-90.9550 **
1351.9500	-20.0000	-61.6764 **	-54.7438 *
1802.6000	-20.0000	-60.3809 **	-54.8973 *
2253.2500	-20.0000	-56.2164 **	-54.7768 **
2703.9000	-20.0000	-50.6937 *	-50.7832 **
3154.5500	-20.0000	-53.1149 **	-53.3600 **
3605.2000	-20.0000	-54.1914 **	-53.7136 **
4055.8500	-20.0000	-51.9151 **	-50.4707 **
4506.5000	-20.0000	-51.0917 **	-51.0234 **

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Accy Part No: ATU-6A, ATU-6C

Test Mode: TX Digital

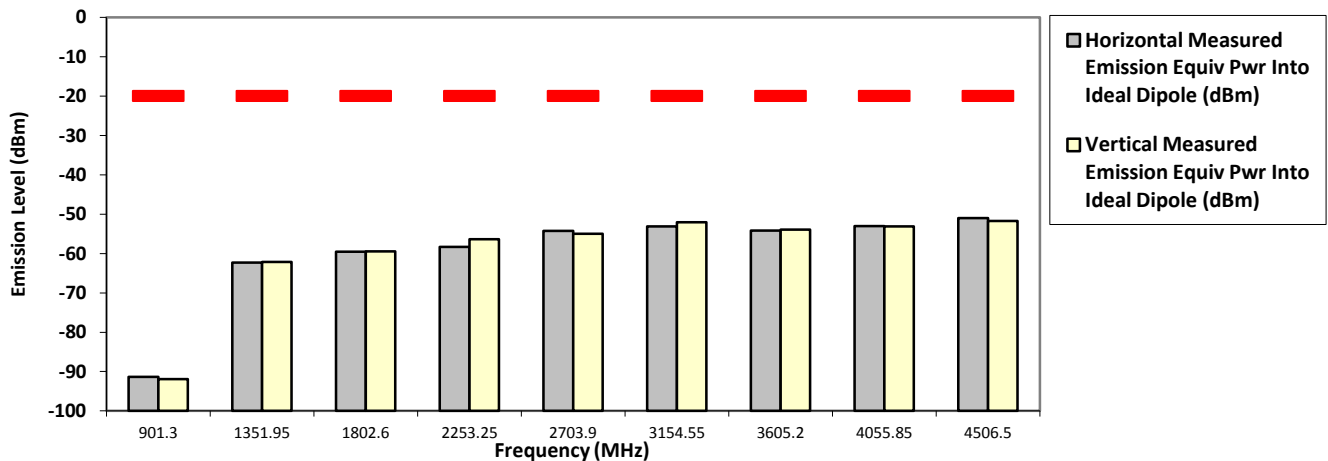
450.650000 MHz

12.5 kHz

1.000 Watt(s) /Low Power

Frequency (MHz)	FCC Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
901.3000	-20.0000	-91.3089 **	-91.9076 **
1351.9500	-20.0000	-62.2985 **	-62.1249 **
1802.6000	-20.0000	-59.5629 **	-59.4381 **
2253.2500	-20.0000	-58.3107 **	-56.3596 **
2703.9000	-20.0000	-54.2300 **	-54.9817 **
3154.5500	-20.0000	-53.1228 **	-52.0533 **
3605.2000	-20.0000	-54.2014 **	-53.9645 **
4055.8500	-20.0000	-52.9965 **	-53.0776 **
4506.5000	-20.0000	-50.9668 **	-51.7149 **

RADIATED SPURIOUS EMISSIONS



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Accy Part No: ATU-6A, ATU-6C

Test Mode: TX Digital

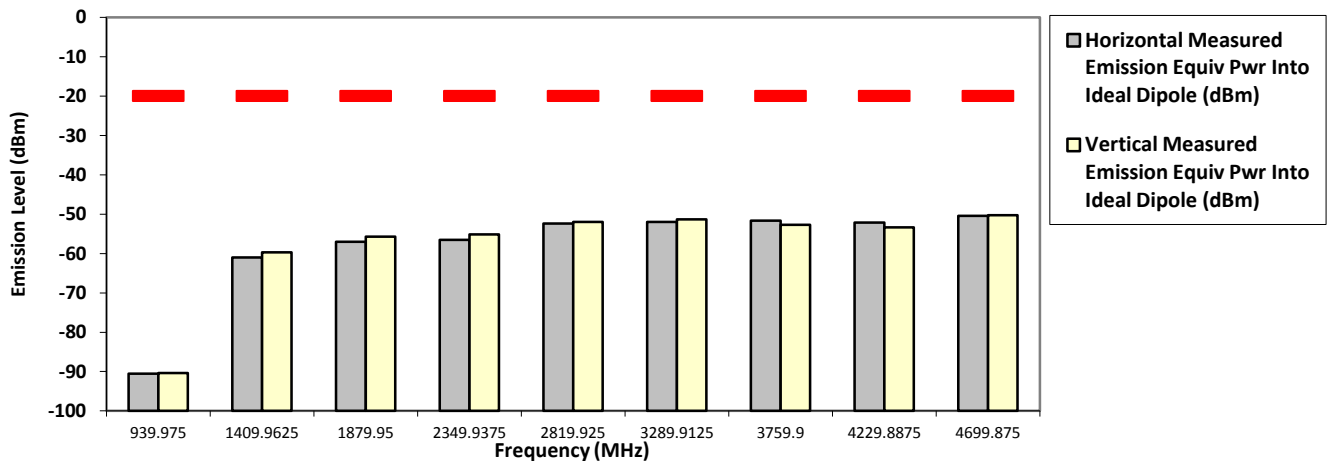
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12.5 kHz

5.500 Watt(s) /Max Power

Frequency (MHz)	FCC Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
939.9750	-20.0000	-90.5026 **	-90.3652 **
1409.9625	-20.0000	-60.9672 **	-59.6703 **
1879.9500	-20.0000	-56.9986 **	-55.6810 *
2349.9375	-20.0000	-56.5126 **	-55.1525 **
2819.9250	-20.0000	-52.4057 **	-52.0155 **
3289.9125	-20.0000	-52.0028 **	-51.3076 **
3759.9000	-20.0000	-51.6255 **	-52.7378 **
4229.8875	-20.0000	-52.1692 **	-53.3602 **
4699.8750	-20.0000	-50.4698 **	-50.2974 **

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Test Mode: TX Digital

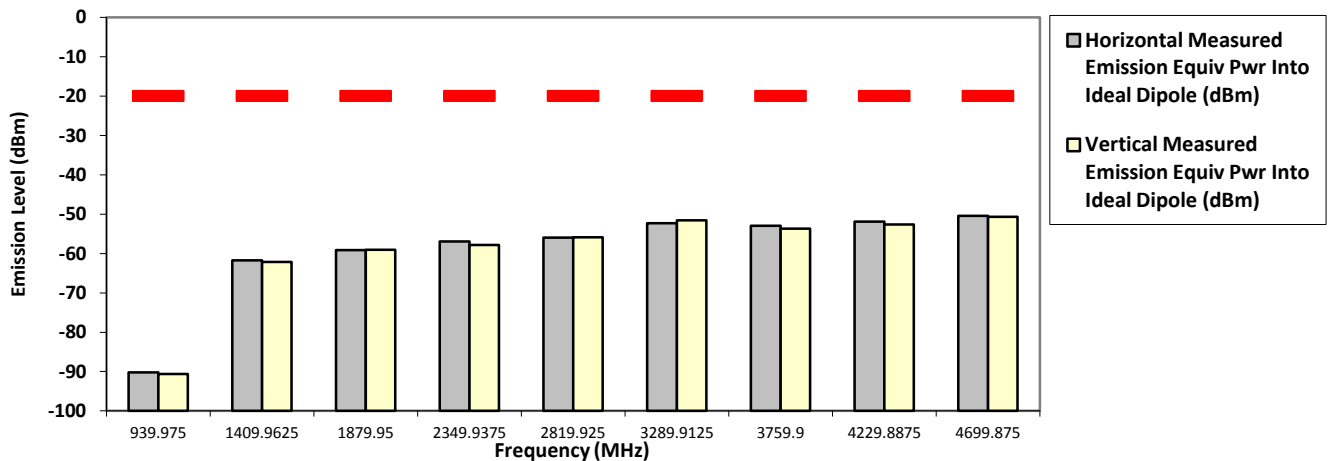
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Frequency (MHz)	FCC Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
939.9750	-20.0000	-90.1891 **	-90.5844 **
1409.9625	-20.0000	-61.7115 **	-62.1083 **
1879.9500	-20.0000	-59.1334 **	-59.0237 **
2349.9375	-20.0000	-56.9254 **	-57.8564 **
2819.9250	-20.0000	-55.9734 **	-55.8430 **
3289.9125	-20.0000	-52.2699 **	-51.5295 **
3759.9000	-20.0000	-52.9869 **	-53.6825 **
4229.8875	-20.0000	-51.9218 **	-52.6310 **
4699.8750	-20.0000	-50.4019 **	-50.6347 **

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