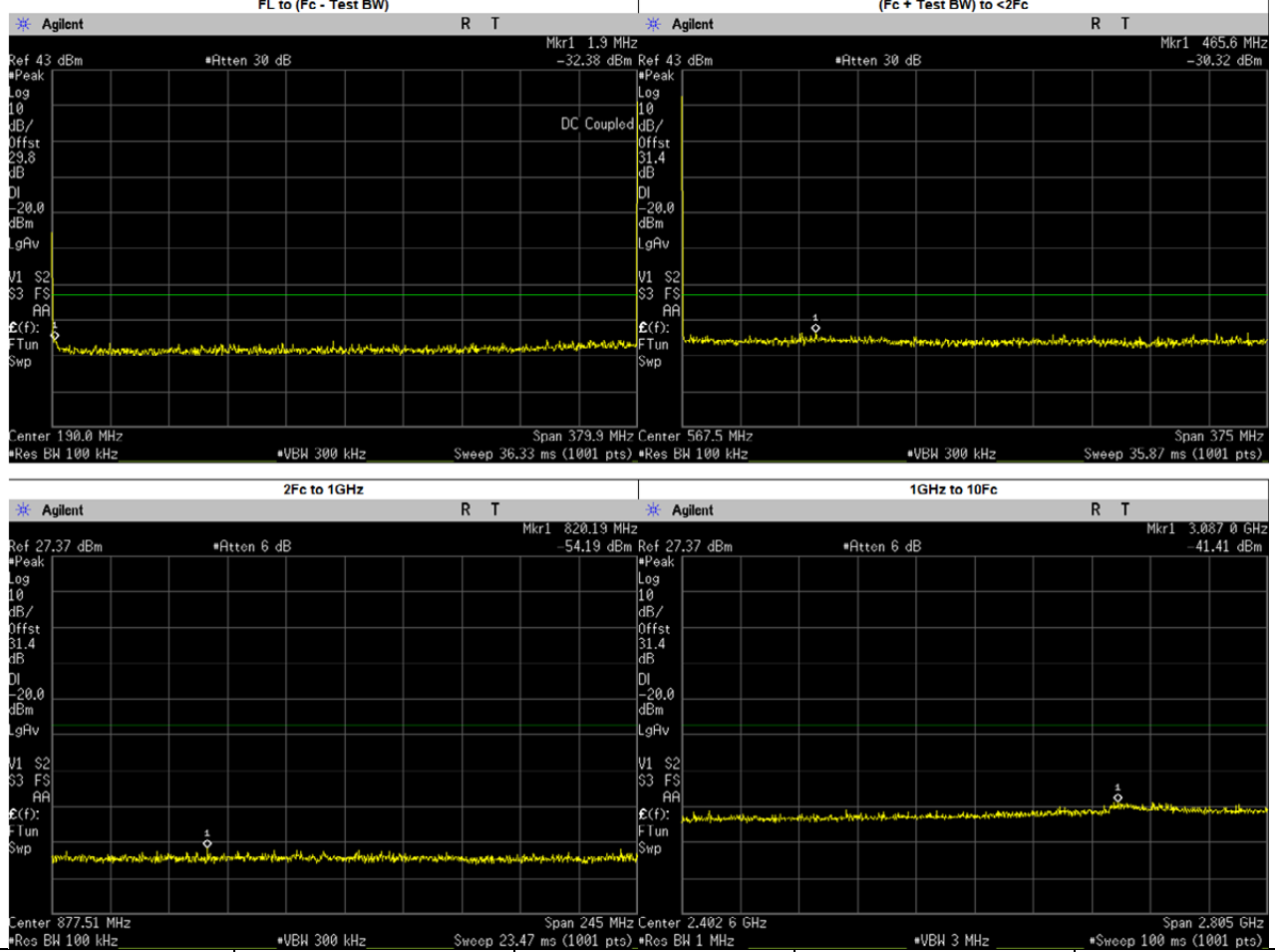
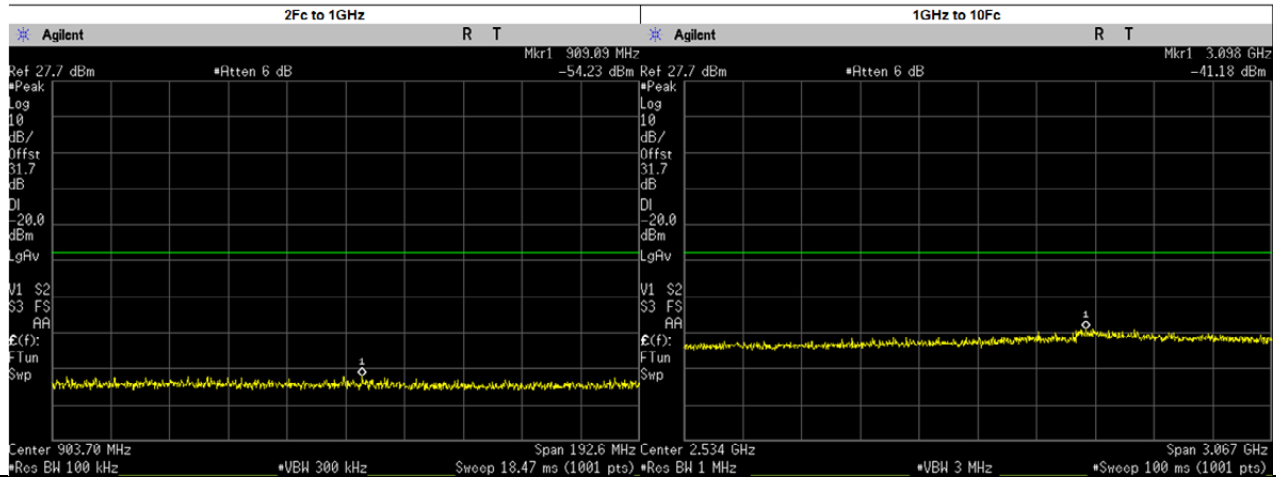
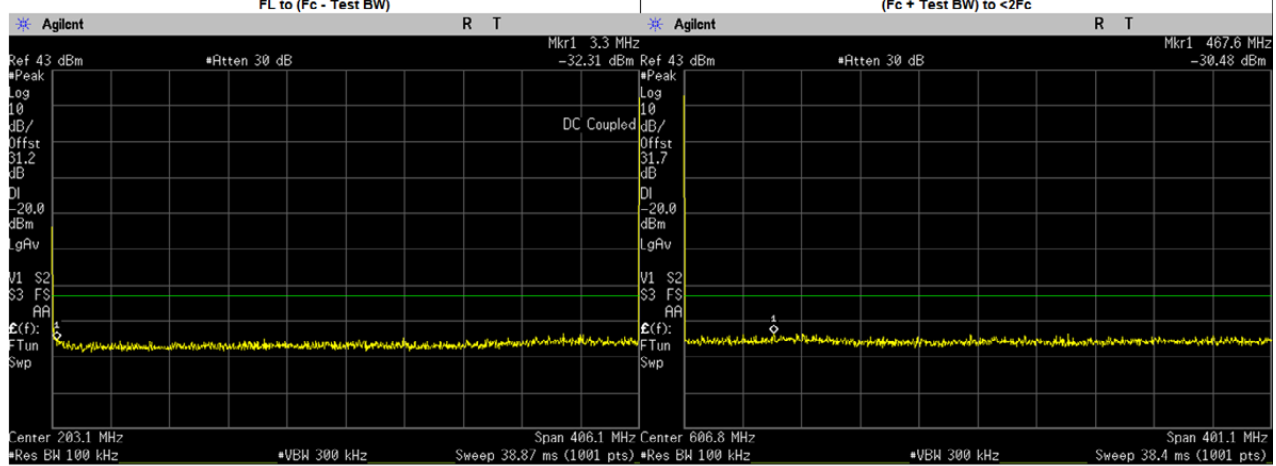


LSM: 380.0125 MHz, 12.5kHz Channel Spacing, Low Power



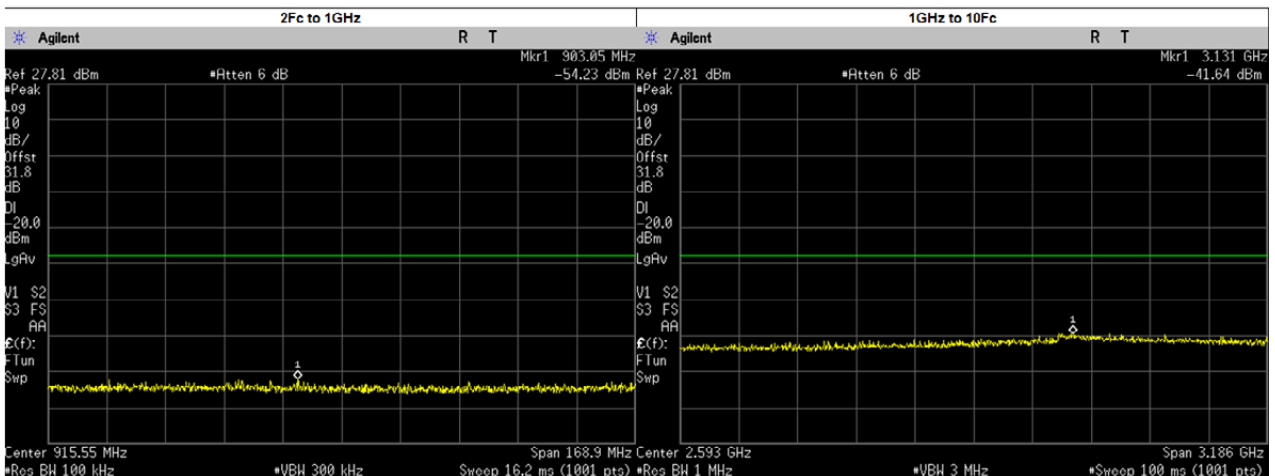
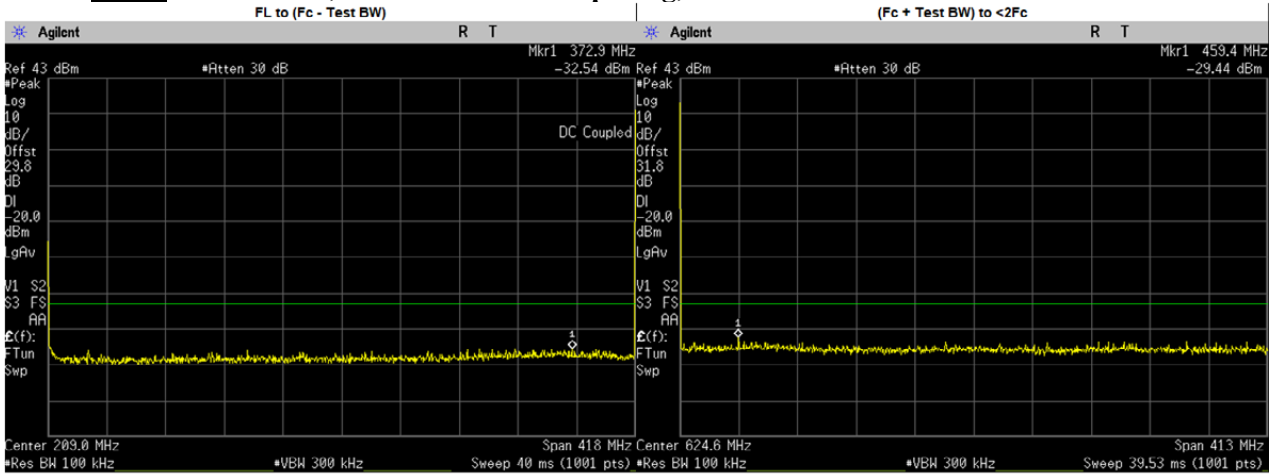
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	1.9000	-32.3850	-20.00	PASS
(Fc + Test BW) to <2Fc	465.5583	-30.3200	-20.00	PASS
2Fc to 1GHz	820.1884	-54.1900	-20.00	PASS
1GHz to 10Fc	3087.0130	-41.4100	-20.00	PASS
	1140.0370	-45.3397	-20.00	PASS
	1520.0500	-46.2486	-20.00	PASS
	1900.0620	-45.8334	-20.00	PASS
	2280.0750	-45.6852	-20.00	PASS
	2660.0880	-44.5430	-20.00	PASS
	3040.1000	-44.0937	-20.00	PASS
	3420.1130	-43.9055	-20.00	PASS
	3800.1250	-43.8959	-20.00	PASS

LSM: 406.2 MHz, 12.5kHz Channel Spacing, Low Power



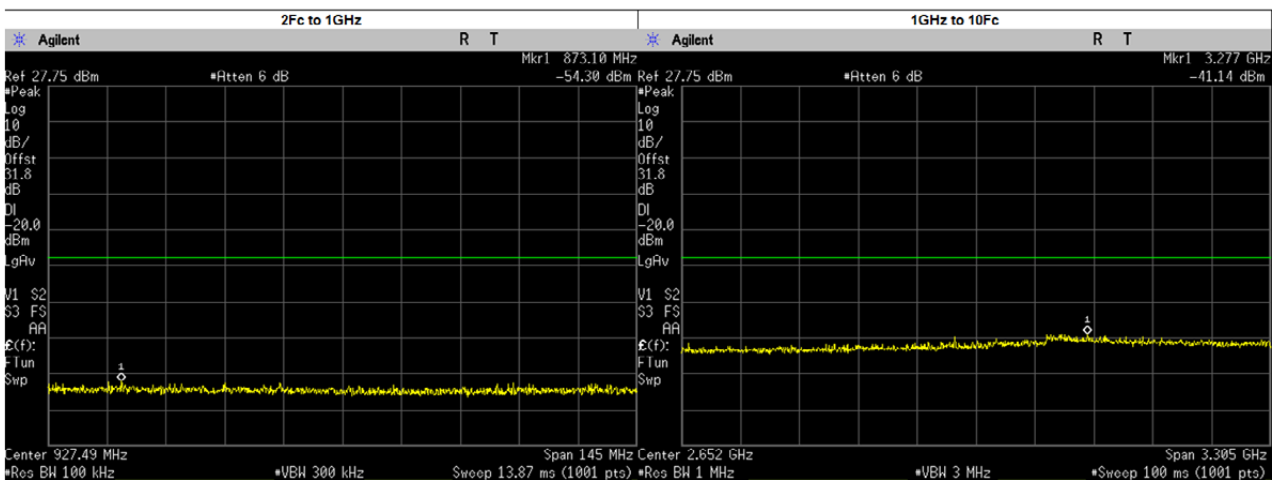
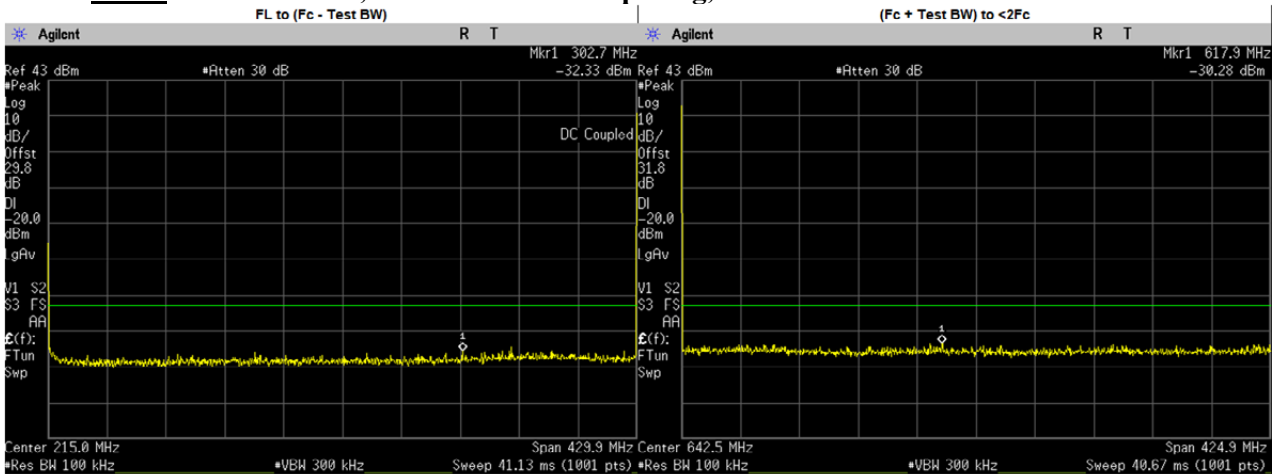
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	3.3000	-32.3140	-20.00	PASS
(Fc + Test BW) to <2Fc	467.6307	-30.4800	-20.00	PASS
2Fc to 1GHz	909.0928	-54.2300	-20.00	PASS
1GHz to 10Fc	3097.8280	-41.1800	-20.00	PASS
	1218.6000	-46.1175	-20.00	PASS
	1624.8000	-46.1149	-20.00	PASS
	2031.0000	-45.4509	-20.00	PASS
	2437.2000	-45.8328	-20.00	PASS
	2843.4000	-43.9389	-20.00	PASS
	3249.6000	-43.1946	-20.00	PASS
	3655.8000	-43.9363	-20.00	PASS
	4062.0000	-43.9008	-20.00	PASS

LSM: 418.05 MHz, 12.5kHz Channel Spacing, Low Power



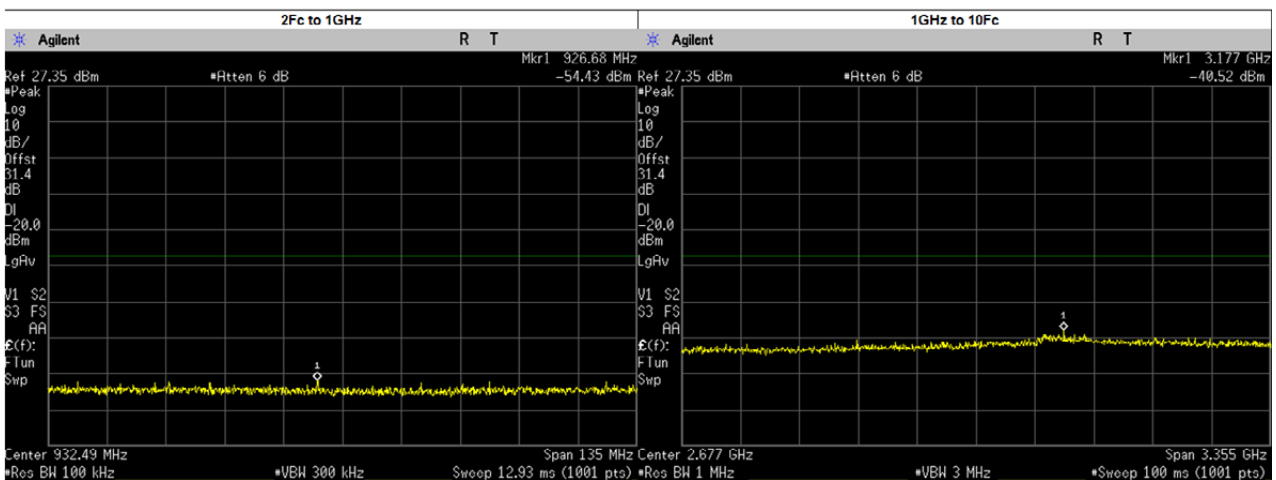
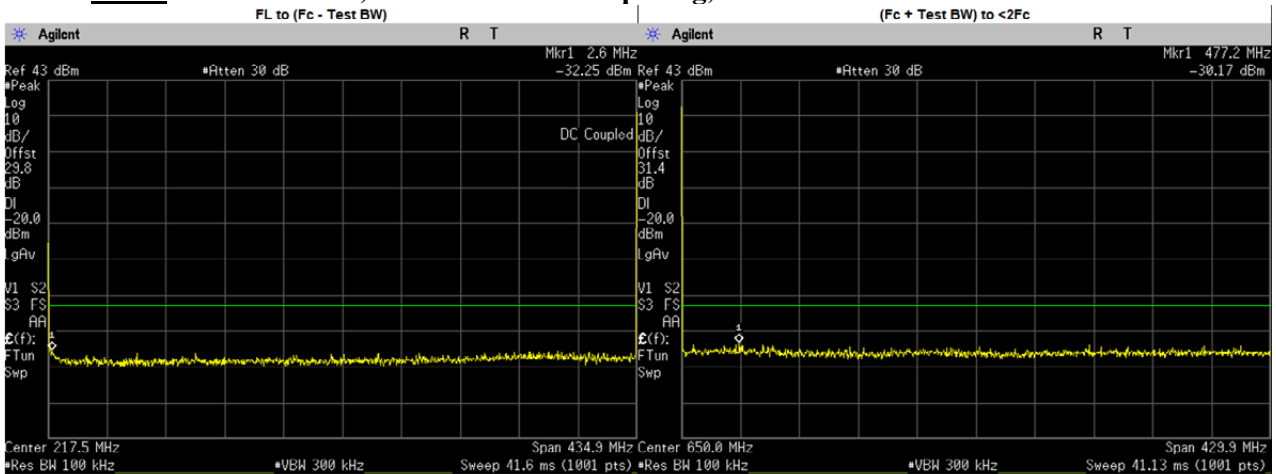
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	372.9000	-32.5360	-20.00	PASS
(Fc + Test BW) to <2Fc	459.4051	-29.4400	-20.00	PASS
2Fc to 1GHz	903.0514	-54.2300	-20.00	PASS
1GHz to 10Fc	3131.0990	-41.6400	-20.00	PASS
	1254.1500	-45.9055	-20.00	PASS
	1672.2000	-45.6733	-20.00	PASS
	2090.2500	-45.2582	-20.00	PASS
	2508.3000	-44.2917	-20.00	PASS
	2926.3500	-43.3828	-20.00	PASS
	3344.4000	-43.2268	-20.00	PASS
	3762.4500	-42.8024	-20.00	PASS
	4180.5000	-42.8054	-20.00	PASS

LSM: 429.9875 MHz, 12.5kHz Channel Spacing, Low Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	302.7000	-32.3280	-20.00	PASS
(Fc + Test BW) to <2Fc	617.8630	-30.2800	-20.00	PASS
2Fc to 1GHz	873.1031	-54.3000	-20.00	PASS
1GHz to 10Fc	3277.0590	-41.1400	-20.00	PASS
	1289.9630	-45.4154	-20.00	PASS
	1719.9500	-45.6376	-20.00	PASS
	2149.9370	-44.9970	-20.00	PASS
	2579.9250	-44.5594	-20.00	PASS
	3009.9120	-43.5537	-20.00	PASS
	3439.9000	-43.1259	-20.00	PASS
	3869.8870	-44.3179	-20.00	PASS
	4299.8750	-43.9735	-20.00	PASS

LSM: 434.9875 MHz, 12.5kHz Channel Spacing, Low Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	2.6000	-32.2500	-20.00	PASS
(Fc + Test BW) to <2Fc	477.1764	-30.1800	-20.00	PASS
2Fc to 1GHz	926.6814	-54.4300	-20.00	PASS
1GHz to 10Fc	3177.3140	-40.5200	-20.00	PASS
	1304.9630	-46.6846	-20.00	PASS
	1739.9500	-45.8683	-20.00	PASS
	2174.9370	-45.8102	-20.00	PASS
	2609.9250	-44.7754	-20.00	PASS
	3044.9120	-43.6377	-20.00	PASS
	3479.9000	-43.4232	-20.00	PASS
	3914.8870	-44.4214	-20.00	PASS
	4349.8750	-43.9003	-20.00	PASS

5.13.4. Test Limit

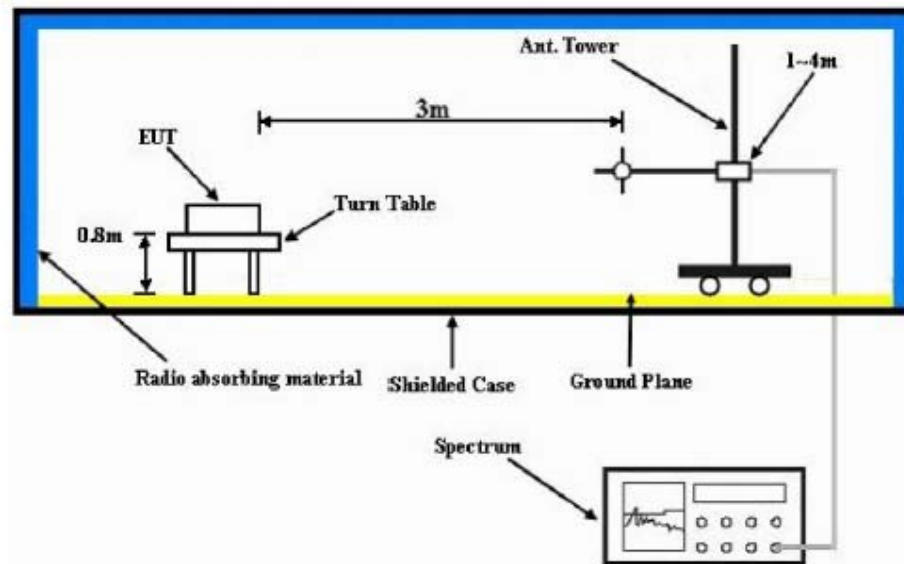
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

Channel Spacing	Part 22	Part 24D	Part 74	Part 80	Part 90 (UHF, VHF, 800, 900)	Part 90 (700)
12.5kHz	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	Not Applicable	50 + log10(P) (-20 dBm)	43 + log10(P) (-13 dBm)
25kHz		Not Applicable		43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)

Channel Spacing	RSS 134	RSS 182	RSS 119 (UHF, VHF, 800, 900)	RSS 119 (700)
12.5kHz	43 + log10(P) (-13 dBm)	Not Applicable	50 + log10(P) (-20 dBm)	43 + log10(P) (-13 dBm)
25kHz	Not Applicable	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)

5.14. Radiated Spurious Emission

5.14.1. Test Setup



- 1) The Resolution Bandwidth for scanning Radiated Emission below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector mode is positive peak.
- 2) In the semi- anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height (for frequencies < 1GHz) or 1.5m (for frequencies > 1GHz) of Turn Table, 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 DUT 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.

5.14.2. Test Result (Analog)

SAC Transmitter Radiated Emission:
Model Number: T7039A S/N: 112CUX0901 SR:13880-EMC-00020
Battery Part No: NA Accy Part No: (1948691-1)C1, LAN-1, LAN-2

Test Mode: TX Analog

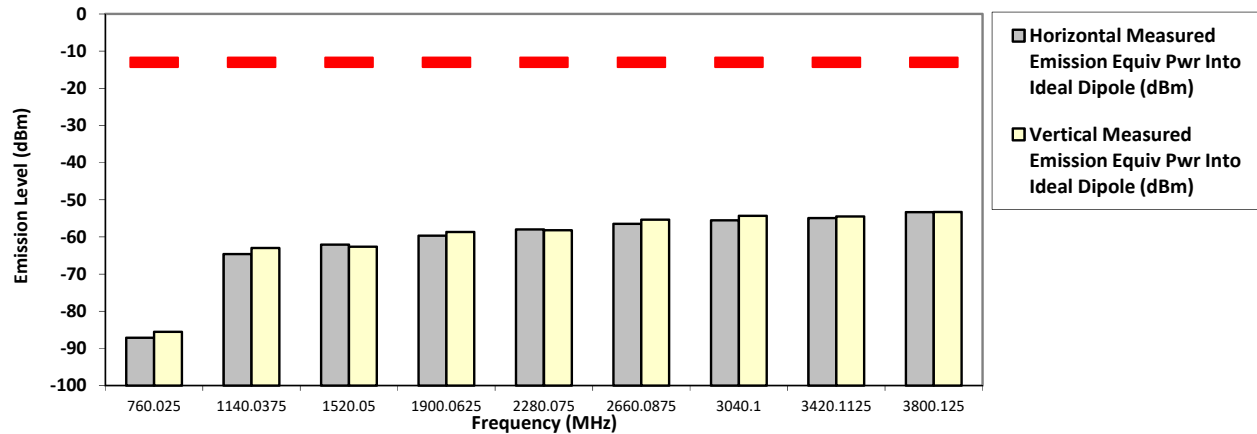
380.012500 MHz

25 kHz

2.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
760.0250	-13.0000	-87.1195 **	-85.5563 **
1140.0375	-13.0000	-64.6284 **	-63.0002 **
1520.0500	-13.0000	-62.0673 **	-62.6140 **
1900.0625	-13.0000	-59.6714 **	-58.6740 **
2280.0750	-13.0000	-57.9795 **	-58.2254 **
2660.0875	-13.0000	-56.4668 **	-55.3419 **
3040.1000	-13.0000	-55.5435 **	-54.3382 **
3420.1125	-13.0000	-54.9401 **	-54.5062 **
3800.1250	-13.0000	-53.3001 **	-53.2658 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Aiman Wed, Dec 16, 2020

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): 22.0 Hum(%RH): 71.0

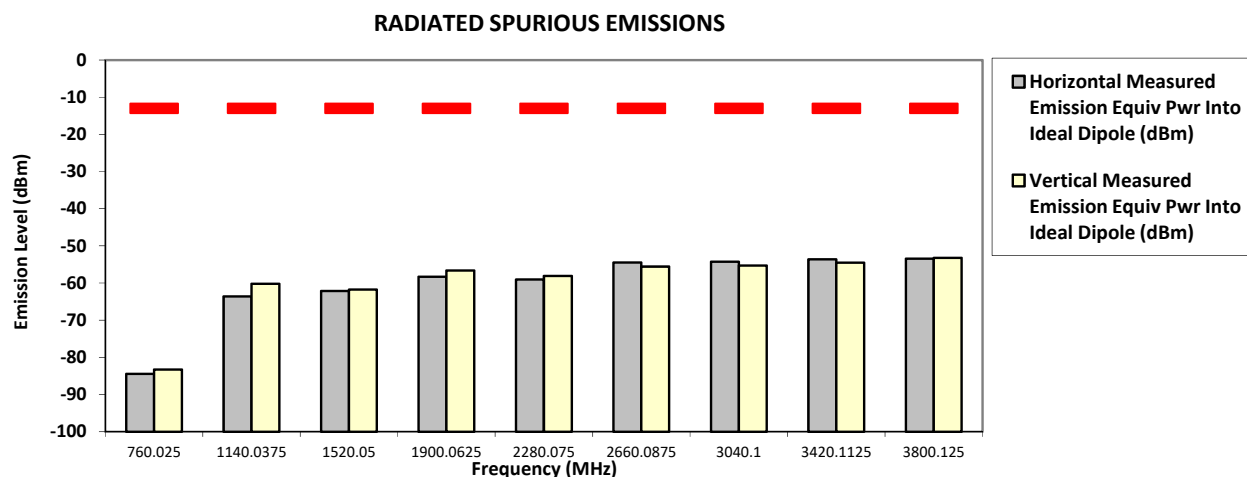
System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

SAC Transmitter Radiated Emission:
Model Number: T7039A **S/N: 112CUX0901** **SR:13880-EMC-00020**
Battery Part No: NA **Accy Part No: (1948691-1)C1, LAN-1, LAN-2**
Test Mode: TX Analog
380.012500 MHz **25 kHz** **33.000 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)
760.0250	-13.0000	-84.4822 **	-83.3031 **
1140.0375	-13.0000	-63.5932 **	-60.1819 **
1520.0500	-13.0000	-62.1466 **	-61.7766 **
1900.0625	-13.0000	-58.2958 **	-56.6194 **
2280.0750	-13.0000	-59.0845 **	-58.1093 **
2660.0875	-13.0000	-54.4995 **	-55.6018 **
3040.1000	-13.0000	-54.3005 **	-55.3031 **
3420.1125	-13.0000	-53.6268 **	-54.5149 **
3800.1250	-13.0000	-53.4249 **	-53.2217 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Aiman Wed, Dec 16, 2020

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): 22.0 Hum(%RH): 71.0

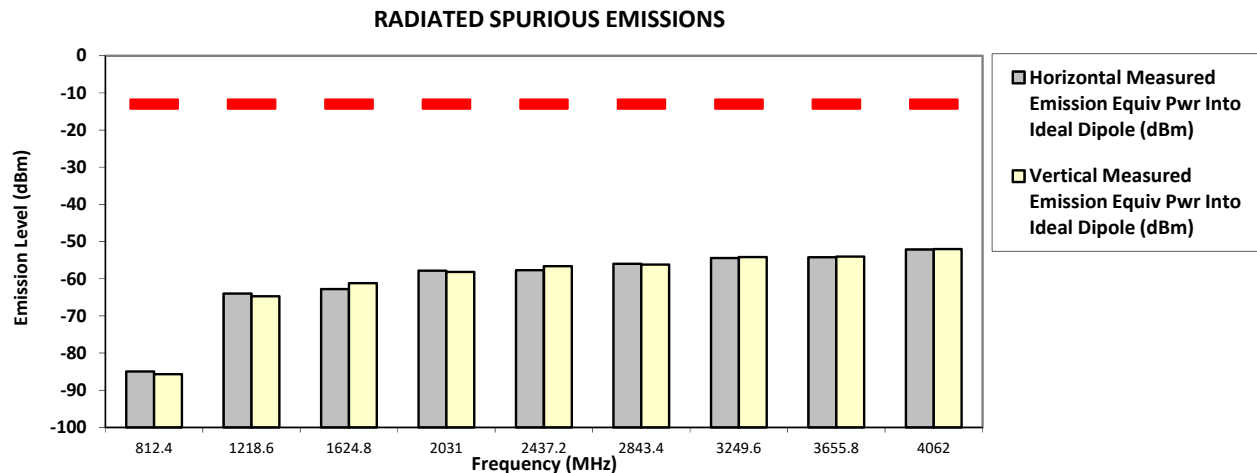
System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: T7039A **SAC Transmitter Radiated Emission:** **S/N: 112CUX0901** **SR:13880-EMC-00020**
Battery Part No: NA **Accy Part No: (1948691-1)C1, LAN-1, LAN-2**
Test Mode: TX Analog

406.2000 MHz		25 kHz	2.000 Watt(s) /Low Power
Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
812.4000	-13.0000	-84.9607 **	-85.7114 **
1218.6000	-13.0000	-64.0124 **	-64.7574 **
1624.8000	-13.0000	-62.7739 **	-61.2005 **
2031.0000	-13.0000	-57.8634 **	-58.1768 **
2437.2000	-13.0000	-57.7450 **	-56.6474 **
2843.4000	-13.0000	-55.9778 **	-56.1898 **
3249.6000	-13.0000	-54.4575 **	-54.1812 **
3655.8000	-13.0000	-54.2478 **	-54.0396 **
4062.0000	-13.0000	-52.1418 **	-52.0029 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Aiman Wed, Dec 16, 2020

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): 22.0 Hum(%RH): 71.0

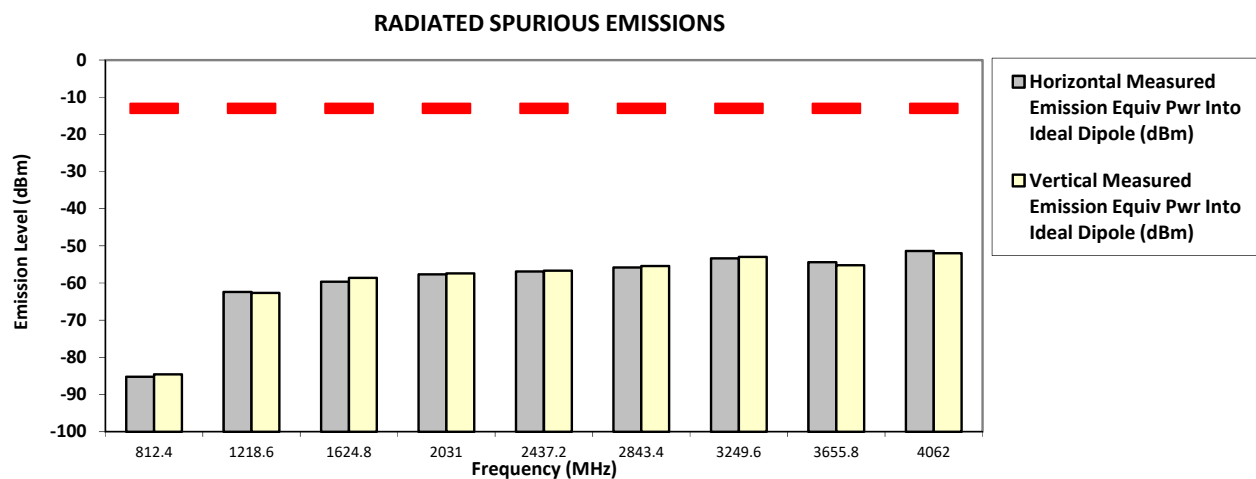
System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

SAC Transmitter Radiated Emission:
Model Number: T7039A **S/N: 112CUX0901** **SR:13880-EMC-00020**
Battery Part No: NA **Accy Part No: (1948691-1)C1, LAN-1, LAN-2**
Test Mode: TX Analog
406.2000 MHz **25 kHz** **33.000 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)
812.4000	-13.0000	-85.2440 **	-84.5709 **
1218.6000	-13.0000	-62.3849 **	-62.6731 **
1624.8000	-13.0000	-59.6441 **	-58.6309 **
2031.0000	-13.0000	-57.6787 **	-57.3946 **
2437.2000	-13.0000	-56.8717 **	-56.6571 **
2843.4000	-13.0000	-55.8290 **	-55.4178 **
3249.6000	-13.0000	-53.3574 **	-52.9709 **
3655.8000	-13.0000	-54.4281 **	-55.2369 **
4062.0000	-13.0000	-51.3528 **	-51.9764 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Aiman Wed, Dec 16, 2020

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): 22.0 Hum(%RH): 71.0

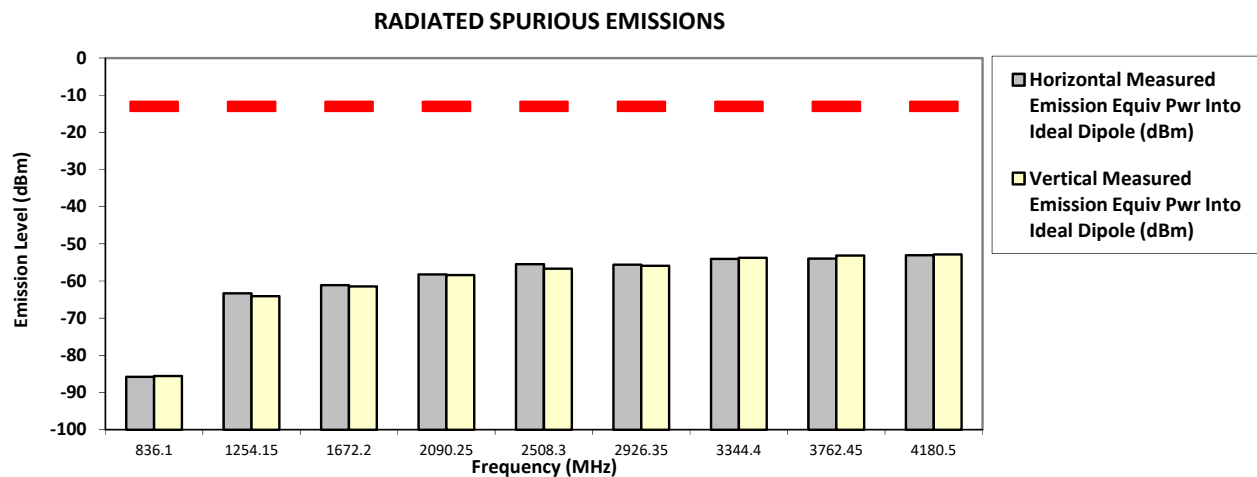
System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: T7039A **S/N: 112CUX0901** **SR:13880-EMC-00020**
Battery Part No: NA **Accy Part No: (1948691-1)C1, LAN-1, LAN-2**
Test Mode: TX Analog
418.0500 MHz **25 kHz** **2.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
836.1000	-13.0000	-85.7976 **	-85.5542 **
1254.1500	-13.0000	-63.3304 **	-64.0858 **
1672.2000	-13.0000	-61.1268 **	-61.4750 **
2090.2500	-13.0000	-58.2311 **	-58.4026 **
2508.3000	-13.0000	-55.4739 **	-56.6660 **
2926.3500	-13.0000	-55.6201 **	-55.8976 **
3344.4000	-13.0000	-54.0396 **	-53.7474 **
3762.4500	-13.0000	-53.9625 **	-53.1532 **
4180.5000	-13.0000	-53.0573 **	-52.8791 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Aiman Wed, Dec 16, 2020

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): 22.0 Hum(%RH): 71.0

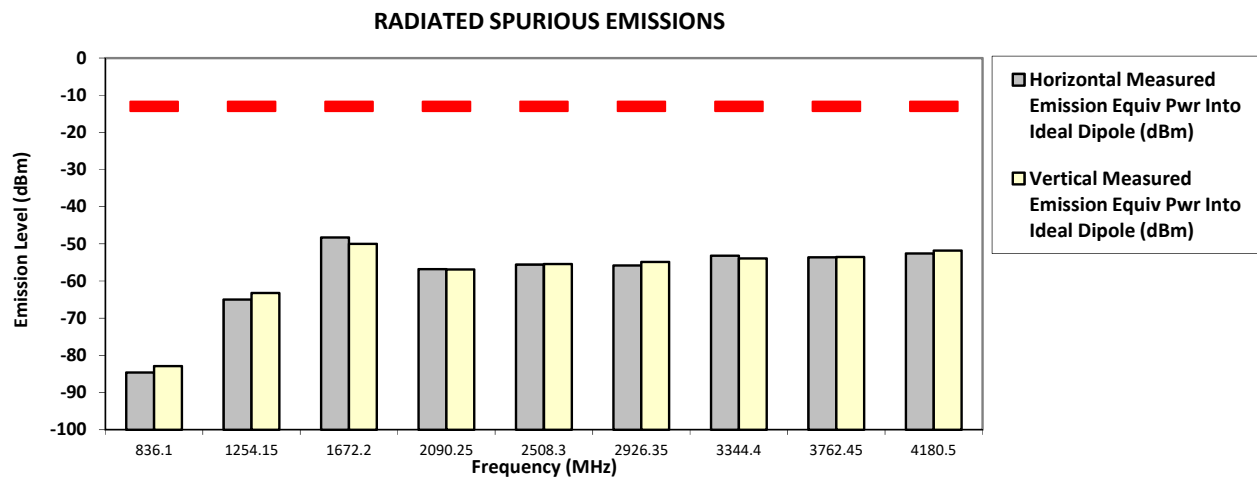
System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: T7039A **S/N: 112CUX0901** **SR:13880-EMC-00020**
Battery Part No: NA **Accy Part No: (1948691-1)C1, LAN-1, LAN-2**
Test Mode: TX Analog
418.050000 MHz **25 kHz** **33.000 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)
836.1000	-13.0000	-84.6129 **	-82.8670 **
1254.1500	-13.0000	-65.0003 **	-63.2334 **
1672.2000	-13.0000	-48.2900 *	-50.0100 *
2090.2500	-13.0000	-56.8133 **	-56.8666 **
2508.3000	-13.0000	-55.5774 **	-55.4153 **
2926.3500	-13.0000	-55.8193 **	-54.8560 **
3344.4000	-13.0000	-53.1797 **	-53.9387 **
3762.4500	-13.0000	-53.6310 **	-53.5403 **
4180.5000	-13.0000	-52.5820 **	-51.8247 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Aiman Wed, Dec 16, 2020

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): 22.0 Hum(%RH): 71.0

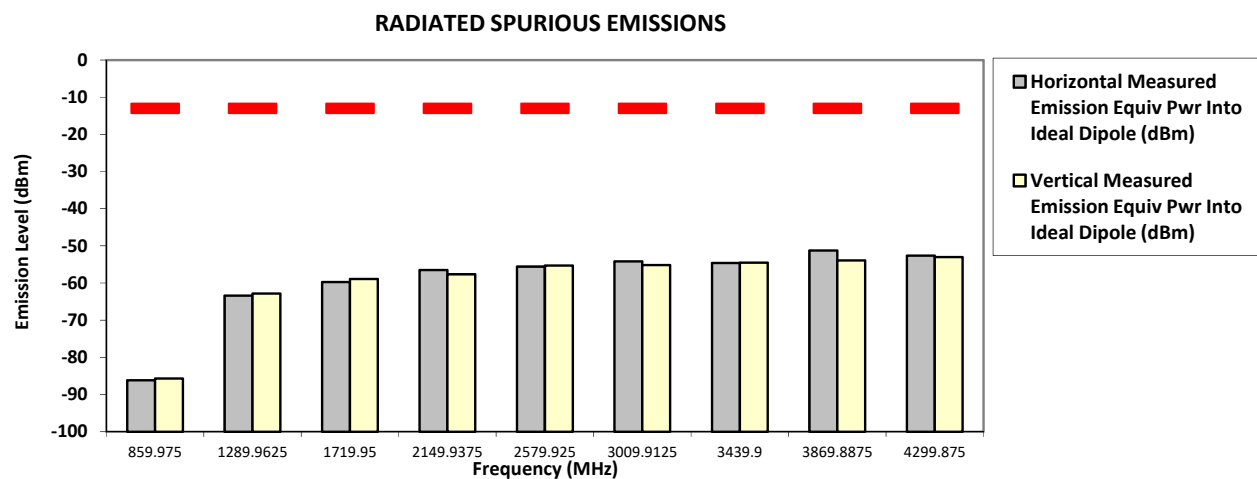
System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: T7039A **S/N: 112CUX0901** **SR:13880-EMC-00020**
Battery Part No: NA **Accy Part No: (1948691-1)C1, LAN-1, LAN-2**
Test Mode: TX Analog
429.9875 MHz **25 kHz** **2.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
859.9750	-13.0000	-86.1548 **	-85.7065 **
1289.9625	-13.0000	-63.3811 **	-62.8503 **
1719.9500	-13.0000	-59.7535 **	-58.8989 **
2149.9375	-13.0000	-56.5319 **	-57.6572 **
2579.9250	-13.0000	-55.5646 **	-55.2871 **
3009.9125	-13.0000	-54.1696 **	-55.1935 **
3439.9000	-13.0000	-54.6130 **	-54.5212 **
3869.8875	-13.0000	-51.2533 **	-53.9081 **
4299.8750	-13.0000	-52.6157 **	-53.0362 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Aiman Wed, Dec 16, 2020

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): 22.0 Hum(%RH): 71.0

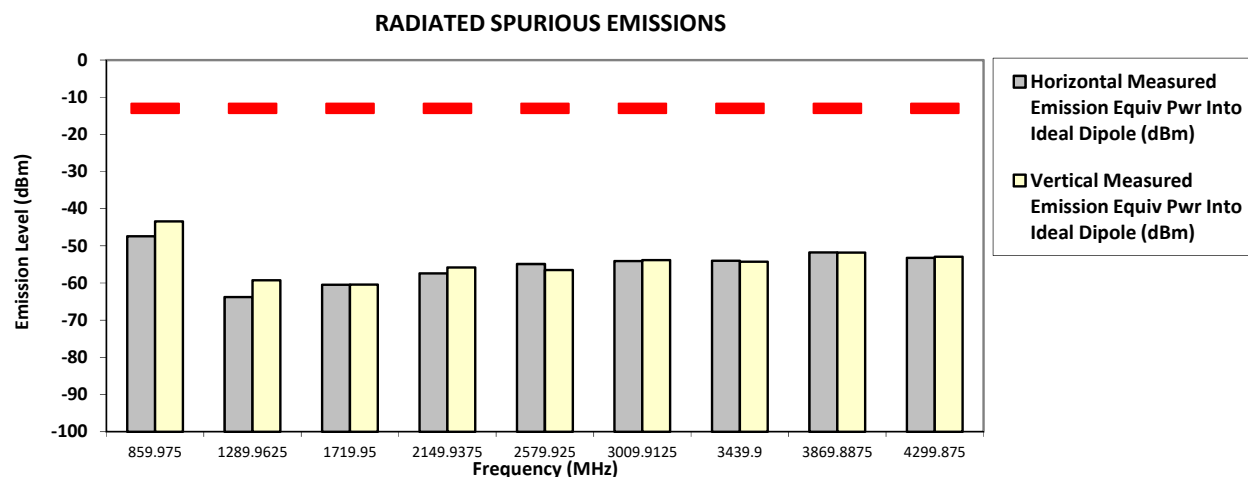
System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

SAC Transmitter Radiated Emission:
Model Number: T7039A S/N: 112CUX0901 SR:13880-EMC-00020
Battery Part No: NA Accy Part No: (1948691-1)C1, LAN-1, LAN-2
Test Mode: TX Analog
429.987500 MHz 25 kHz 33.000 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)
859.9750	-13.0000	-47.4300 *	-43.4500 *
1289.9625	-13.0000	-63.7848 **	-59.2600 **
1719.9500	-13.0000	-60.4684 **	-60.4250 **
2149.9375	-13.0000	-57.3972 **	-55.8331 **
2579.9250	-13.0000	-54.8966 **	-56.5140 **
3009.9125	-13.0000	-54.0787 **	-53.8229 **
3439.9000	-13.0000	-54.0062 **	-54.2790 **
3869.8875	-13.0000	-51.7783 **	-51.8241 **
4299.8750	-13.0000	-53.2510 **	-52.9334 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazirul Tue, Dec 15, 2020

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): 22.0 Hum(%RH): 71.0

System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

SAC Transmitter Radiated Emission:
Model Number: T7039A **S/N: 112CUX0901** **SR:13880-EMC-00020**
Battery Part No: NA **Accy Part No: (1948691-1)C1, LAN-1, LAN-2**
Test Mode: TX Analog

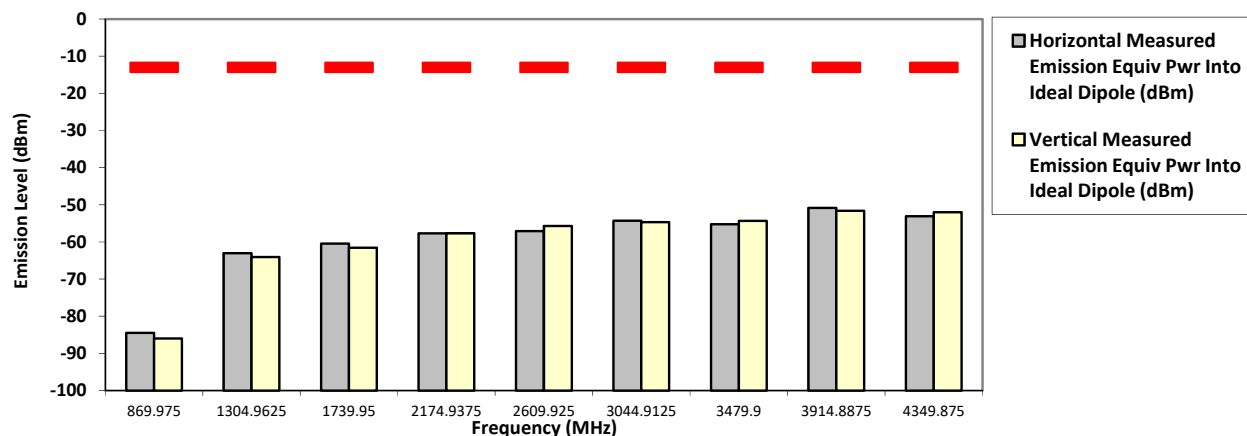
434.9875 MHz

25 kHz

2.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
869.9750	-13.0000	-84.5012 **	-85.9991 **
1304.9625	-13.0000	-63.0254 **	-64.0695 **
1739.9500	-13.0000	-60.4714 **	-61.5772 **
2174.9375	-13.0000	-57.7065 **	-57.6777 **
2609.9250	-13.0000	-57.1104 **	-55.7363 **
3044.9125	-13.0000	-54.2961 **	-54.6701 **
3479.9000	-13.0000	-55.2390 **	-54.3440 **
3914.8875	-13.0000	-50.8659 **	-51.6176 **
4349.8750	-13.0000	-53.0976 **	-51.9898 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Aiman Wed, Dec 16, 2020

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): 22.0 Hum(%RH): 71.0

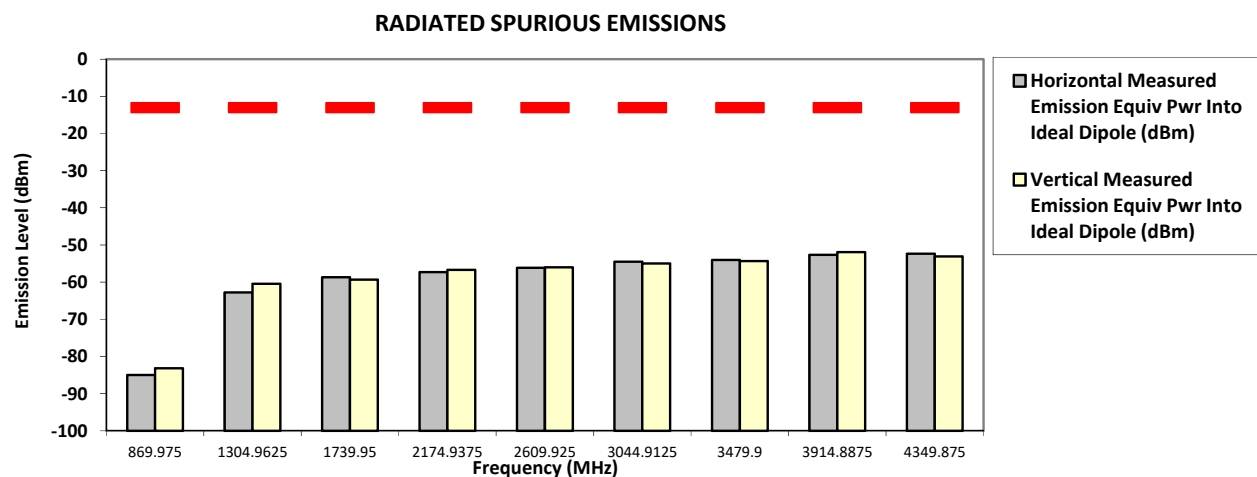
System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: T7039A **S/N: 112CUX0901** **SR:13880-EMC-00020**
Battery Part No: NA **Accy Part No: (1948691-1)C1, LAN-1, LAN-2**
Test Mode: TX Analog
434.9875 MHz **25 kHz** **33.000 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)
869.9750	-13.0000	-84.9986 **	-83.1750 **
1304.9625	-13.0000	-62.8005 **	-60.4334 **
1739.9500	-13.0000	-58.6891 **	-59.3046 **
2174.9375	-13.0000	-57.3091 **	-56.7015 **
2609.9250	-13.0000	-56.1451 **	-56.0337 **
3044.9125	-13.0000	-54.4731 **	-54.9877 **
3479.9000	-13.0000	-54.0433 **	-54.3078 **
3914.8875	-13.0000	-52.6796 **	-51.9438 **
4349.8750	-13.0000	-52.3553 **	-53.0806 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Aiman Wed, Dec 16, 2020

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): 22.0 Hum(%RH): 71.0

System MU: 4.03 dB

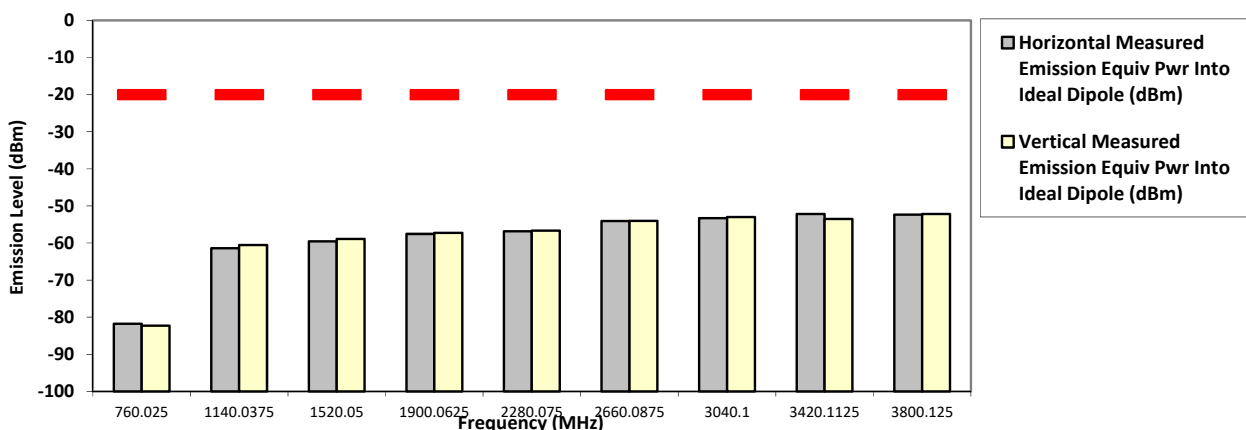
Remarks: Passed Results Marginal Results Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
S/N: 112CUX0897
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1
Test Mode: TX Analog
12.5 kHz
2.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
760.0250	-20.0000	-81.7781 **	-82.3038 **
1140.0375	-20.0000	-61.4056 **	-60.5582 **
1520.0500	-20.0000	-59.5282 **	-58.9044 **
1900.0625	-20.0000	-57.5315 **	-57.2796 **
2280.0750	-20.0000	-56.8064 **	-56.6676 **
2660.0875	-20.0000	-54.0666 **	-54.0058 **
3040.1000	-20.0000	-53.2783 **	-53.0153 **
3420.1125	-20.0000	-52.2089 **	-53.5394 **
3800.1250	-20.0000	-52.3617 **	-52.2047 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
S/N: 112CUX0897
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2) , 3082933N20-C1
Test Mode: TX Analog

SR:13880-EMC-00006

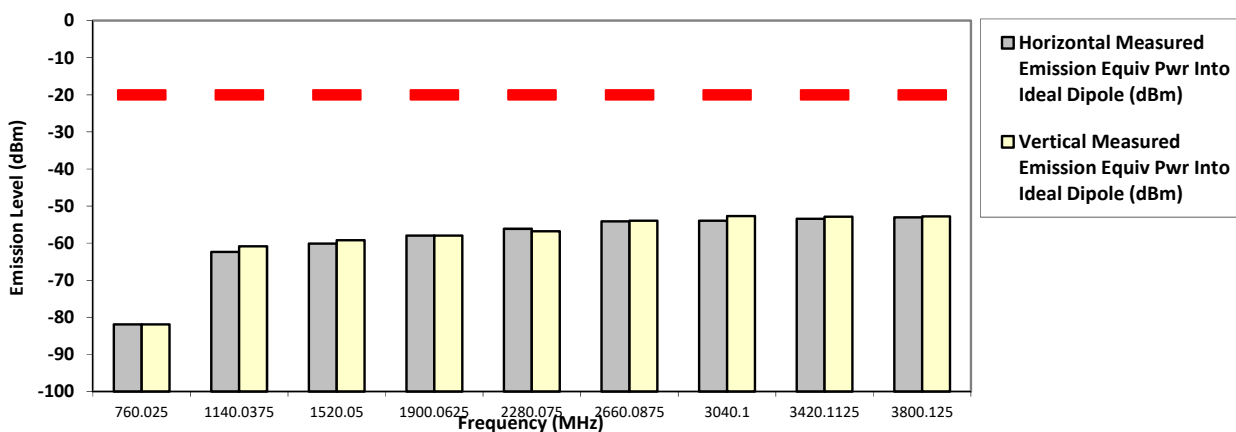
380.012500 MHz

12.5 kHz

33.000 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)
760.0250	-20.0000	-81.8975 **	-81.8808 **
1140.0375	-20.0000	-62.3816 **	-60.8268 **
1520.0500	-20.0000	-60.0917 **	-59.2108 **
1900.0625	-20.0000	-57.9505 **	-57.9611 **
2280.0750	-20.0000	-56.1445 **	-56.7789 **
2660.0875	-20.0000	-54.1276 **	-53.9272 **
3040.1000	-20.0000	-53.9440 **	-52.6740 **
3420.1125	-20.0000	-53.4327 **	-52.8616 **
3800.1250	-20.0000	-53.0349 **	-52.7811 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
S/N: 112CUX0897 **SR:13880-EMC-00005**
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570
cable (LAN-2) , 3082933N20-C1
Test Mode: TX Analog
12.5 kHz **2.000 Watt(s) /Low Power**

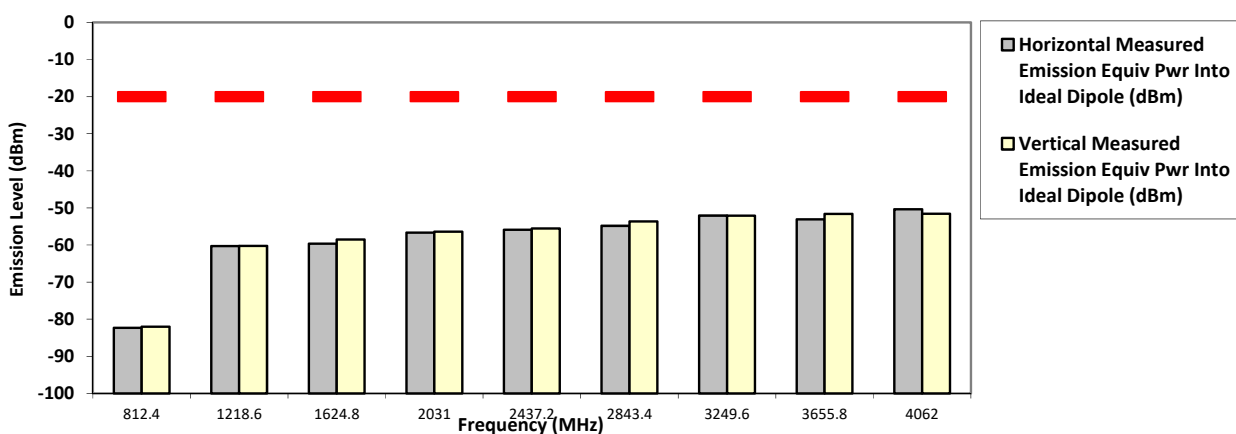
406.200000 MHz

12.5 kHz

2.000 Watt(s) /Low Power

[illegible]

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

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

Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 112CUX0897

SR:13880-EMC-00006

Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1

Test Mode: TX Analog

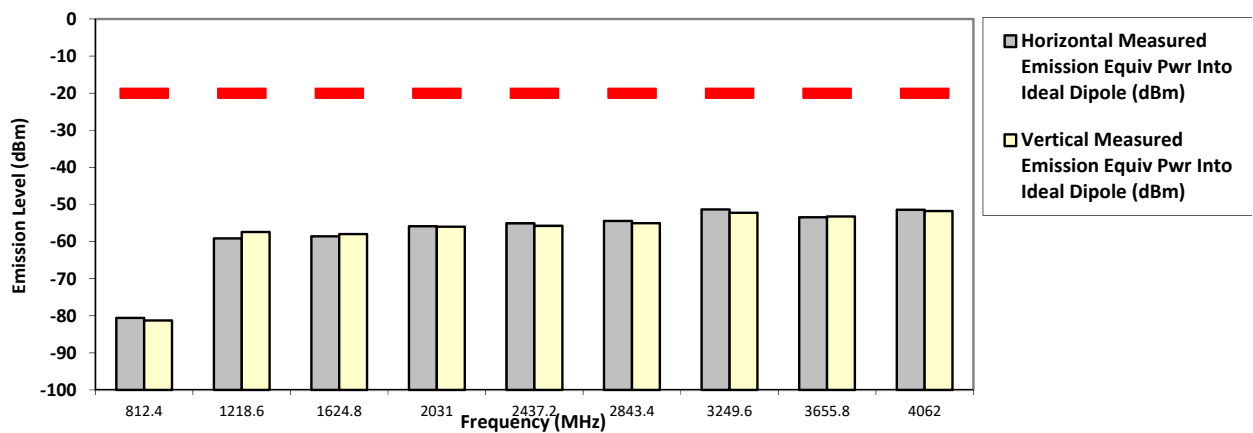
406.200000 MHz

12.5 kHz

33.000 Watt(s) /Max Power

[illegible]

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

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

Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

Failed Results

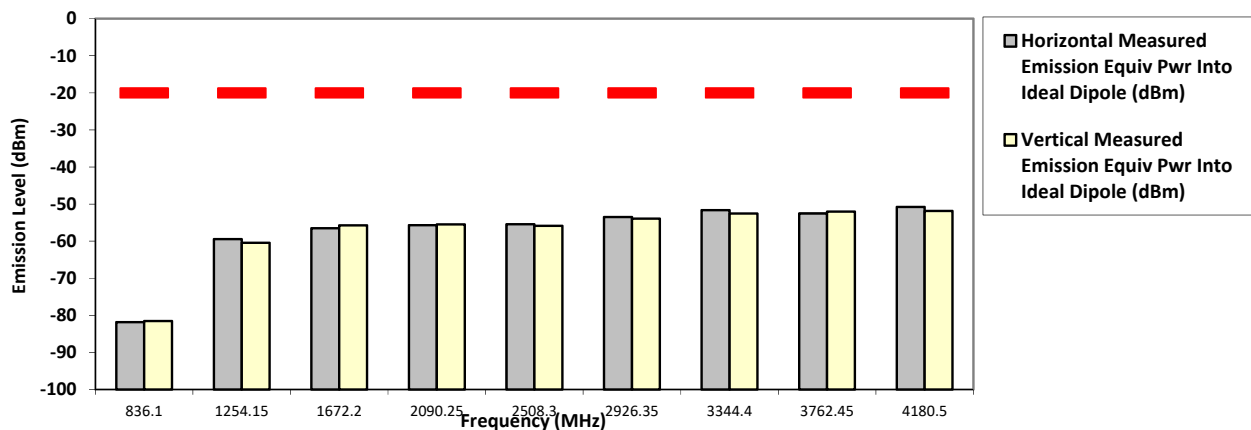
Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
S/N: 112CUX0897
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2) , 3082933N20-C1
Test Mode: TX Analog
418.050000 MHz
12.5 kHz
2.000 Watt(s) /Low Power

SR:13880-EMC-00006

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
836.1000	-20.0000	-81.8019 **	-81.5179 **
1254.1500	-20.0000	-59.4539 **	-60.4389 **
1672.2000	-20.0000	-56.5058 **	-55.7167 **
2090.2500	-20.0000	-55.6780 **	-55.4806 **
2508.3000	-20.0000	-55.4364 **	-55.8595 **
2926.3500	-20.0000	-53.4952 **	-53.9280 **
3344.4000	-20.0000	-51.6231 **	-52.5562 **
3762.4500	-20.0000	-52.5023 **	-52.0402 **
4180.5000	-20.0000	-50.7602 **	-51.8787 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

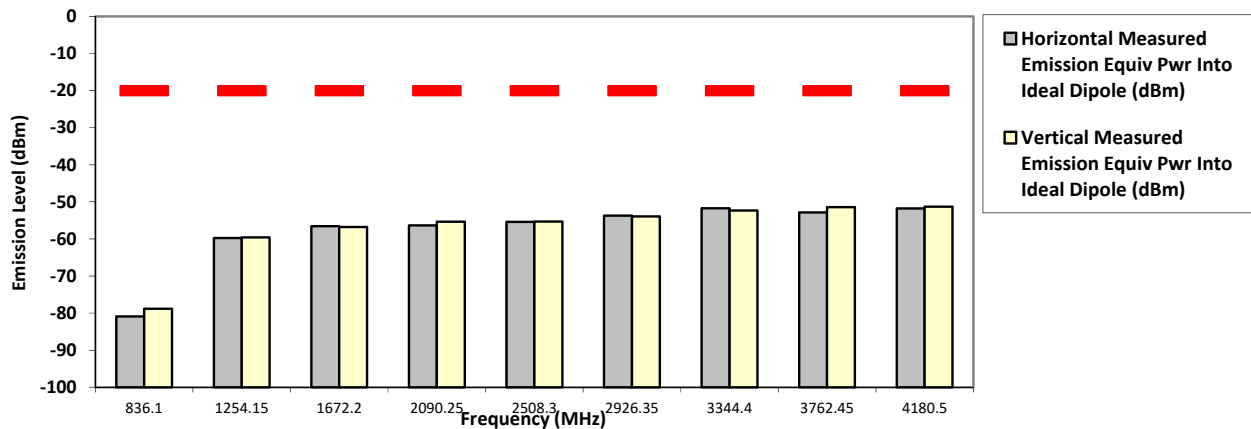
Passed Results	Marginal Results	Failed Results
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Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
S/N: 112CUX0897
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1
Test Mode: TX Analog
418.050000 MHz
12.5 kHz
33.000 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)
836.1000	-20.0000	-80.8888 **	-78.8078 **
1254.1500	-20.0000	-59.7762 **	-59.5907 **
1672.2000	-20.0000	-56.5747 **	-56.7722 **
2090.2500	-20.0000	-56.3831 **	-55.3584 **
2508.3000	-20.0000	-55.3916 **	-55.3263 **
2926.3500	-20.0000	-53.7246 **	-53.9481 **
3344.4000	-20.0000	-51.7633 **	-52.3658 **
3762.4500	-20.0000	-52.8336 **	-51.4186 **
4180.5000	-20.0000	-51.7962 **	-51.3135 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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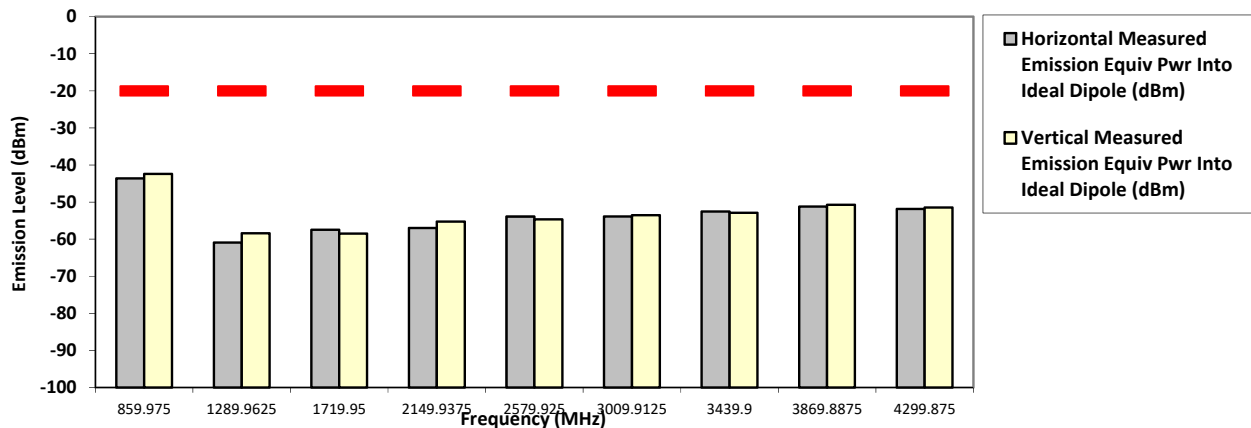
Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
S/N: 112CUX0897
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1
Test Mode: TX Analog
12.5 kHz
33.000 Watt(s) /Max Power

429.987500 MHz

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
859.9750	-20.0000	-43.6200 *	-42.4200 *
1289.9625	-20.0000	-60.8999 **	-58.3944 **
1719.9500	-20.0000	-57.4583 **	-58.4771 **
2149.9375	-20.0000	-56.9879 **	-55.2194 **
2579.9250	-20.0000	-53.9004 **	-54.6773 **
3009.9125	-20.0000	-53.8731 **	-53.5381 **
3439.9000	-20.0000	-52.5438 **	-52.8819 **
3869.8875	-20.0000	-51.2185 **	-50.7383 **
4299.8750	-20.0000	-51.8862 **	-51.4475 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
S/N: 112CUX0897
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2) , 3082933N20-C1
Test Mode: TX Analog
12.5 kHz

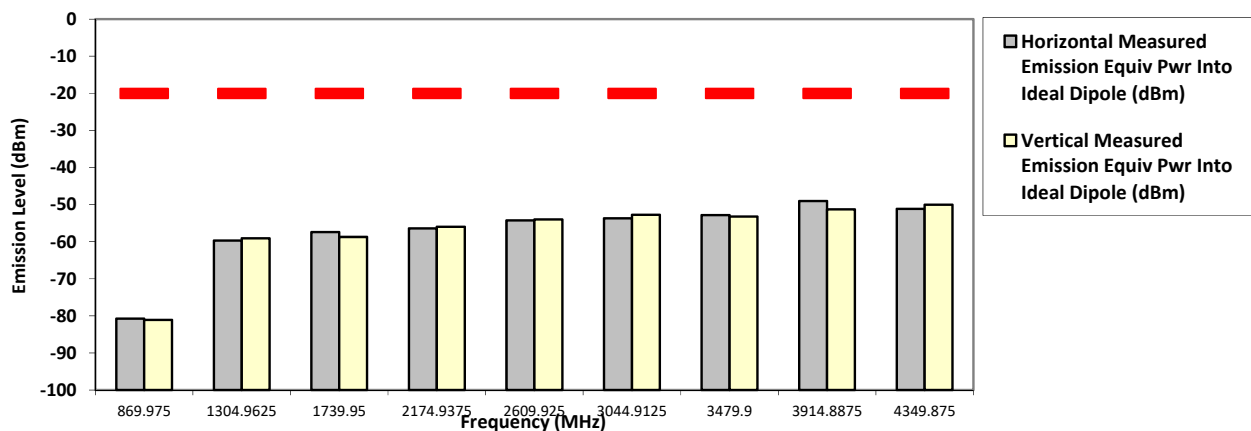
SR:13880-EMC-00006

2.000 Watt(s) /Low Power

434.987500 MHz

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
869.9750	-20.0000	-80.7764 **	-81.0798 **
1304.9625	-20.0000	-59.6835 **	-59.1061 **
1739.9500	-20.0000	-57.4381 **	-58.7374 **
2174.9375	-20.0000	-56.4112 **	-55.9695 **
2609.9250	-20.0000	-54.2534 **	-54.0328 **
3044.9125	-20.0000	-53.6970 **	-52.7641 **
3479.9000	-20.0000	-52.8344 **	-53.2041 **
3914.8875	-20.0000	-49.0166 **	-51.3054 **
4349.8750	-20.0000	-51.1531 **	-50.0246 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 112CUX0897
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2) , 3082933N20-C1

SR:13880-EMC-00006

Test Mode: TX Analog

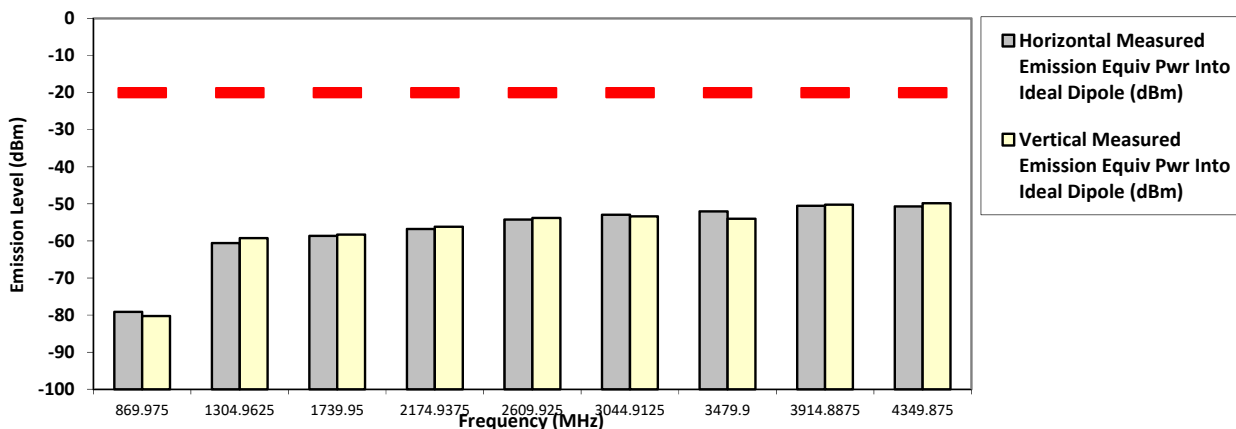
434.987500 MHz

12.5 kHz

33.000 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)
869.9750	-20.0000	-79.1333 **	-80.2307 **
1304.9625	-20.0000	-60.5739 **	-59.2380 **
1739.9500	-20.0000	-58.6610 **	-58.2906 **
2174.9375	-20.0000	-56.7822 **	-56.1606 **
2609.9250	-20.0000	-54.2288 **	-53.8124 **
3044.9125	-20.0000	-52.9510 **	-53.3817 **
3479.9000	-20.0000	-52.0341 **	-54.0260 **
3914.8875	-20.0000	-50.5447 **	-50.2622 **
4349.8750	-20.0000	-50.6933 **	-49.8391 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 112CUX0897
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1
Test Mode: TX Digital C4FM
12.5 kHz

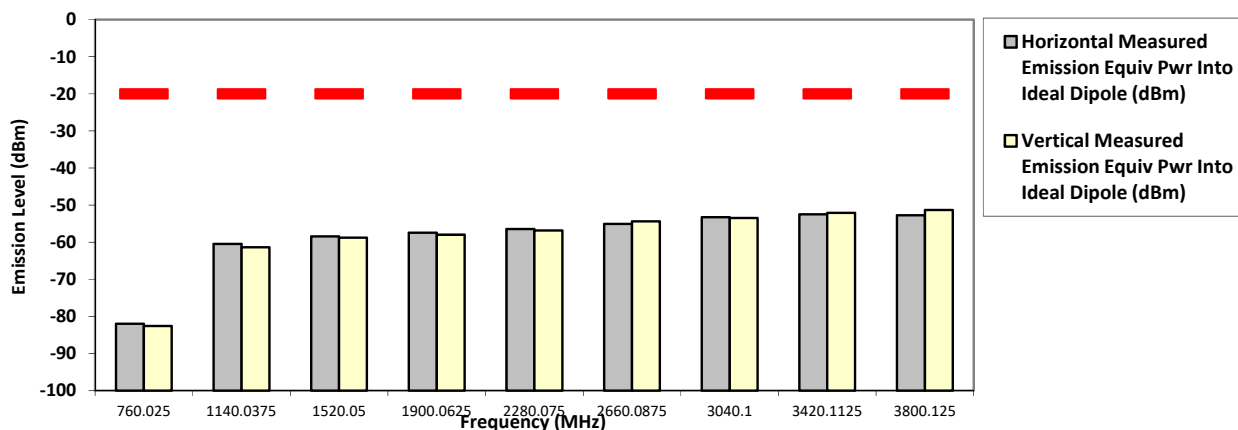
SR:13880-EMC-00006

380.012500 MHz

2.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
760.0250	-20.0000	-81.9921 **	-82.5454 **
1140.0375	-20.0000	-60.4405 **	-61.3457 **
1520.0500	-20.0000	-58.4040 **	-58.7701 **
1900.0625	-20.0000	-57.4442 **	-57.9896 **
2280.0750	-20.0000	-56.4201 **	-56.8376 **
2660.0875	-20.0000	-55.0746 **	-54.3464 **
3040.1000	-20.0000	-53.2845 **	-53.4556 **
3420.1125	-20.0000	-52.4564 **	-52.0840 **
3800.1250	-20.0000	-52.7263 **	-51.3064 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 112CUX0897

SR:13880-EMC-00006

Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1

Test Mode: TX Digital C4FM

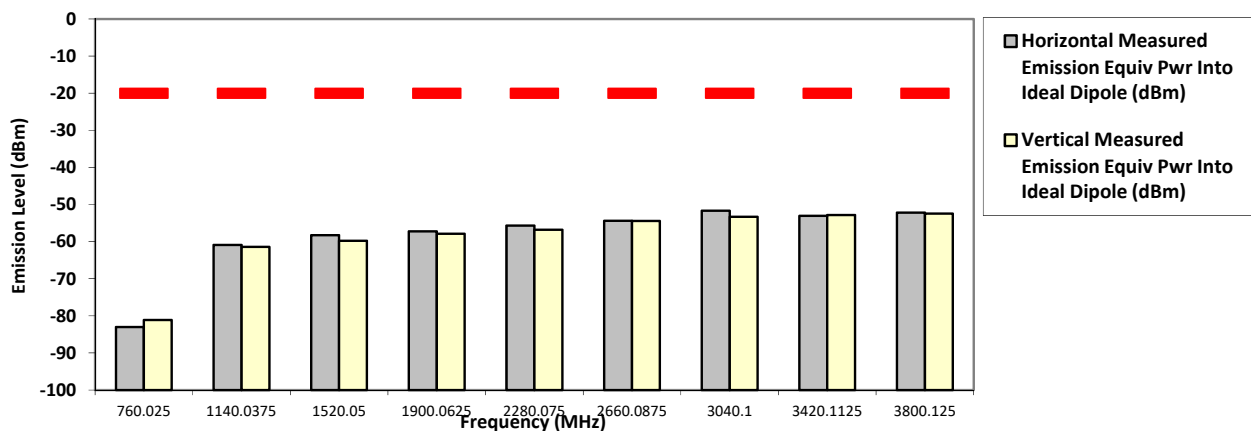
380.012500 MHz

12.5 kHz

33.000 Watt(s) /Max Power

[illegible]

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

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

Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

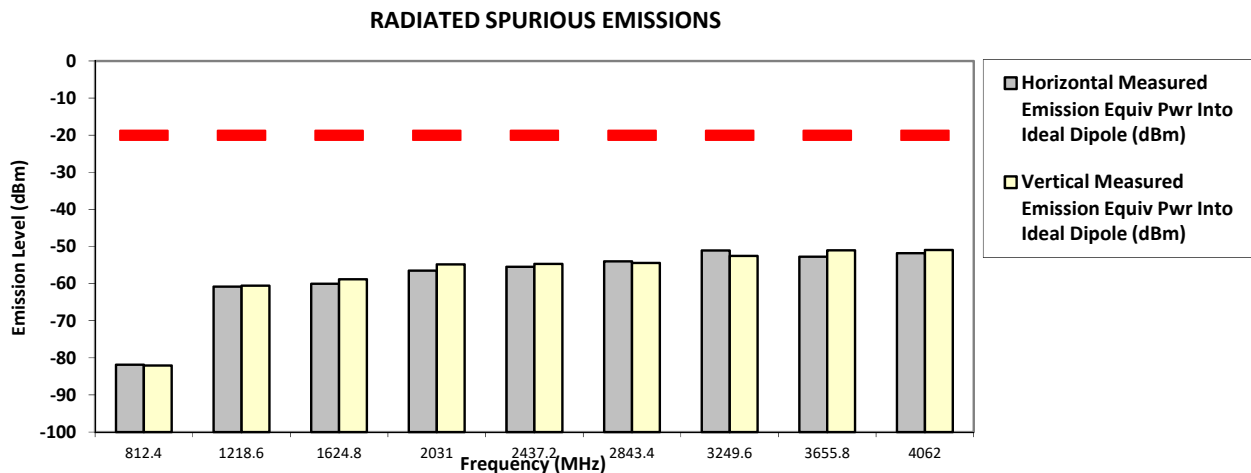
Passed Results

Marginal Results

Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
S/N: 112CUX0897 **SR:13880-EMC-00006**
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) &
SR8570 cable (LAN-2), 3082933N20-C1
Test Mode: TX Digital C4FM
12.5 kHz **2.000 Watt(s) /Low Power**

[illegible]

The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

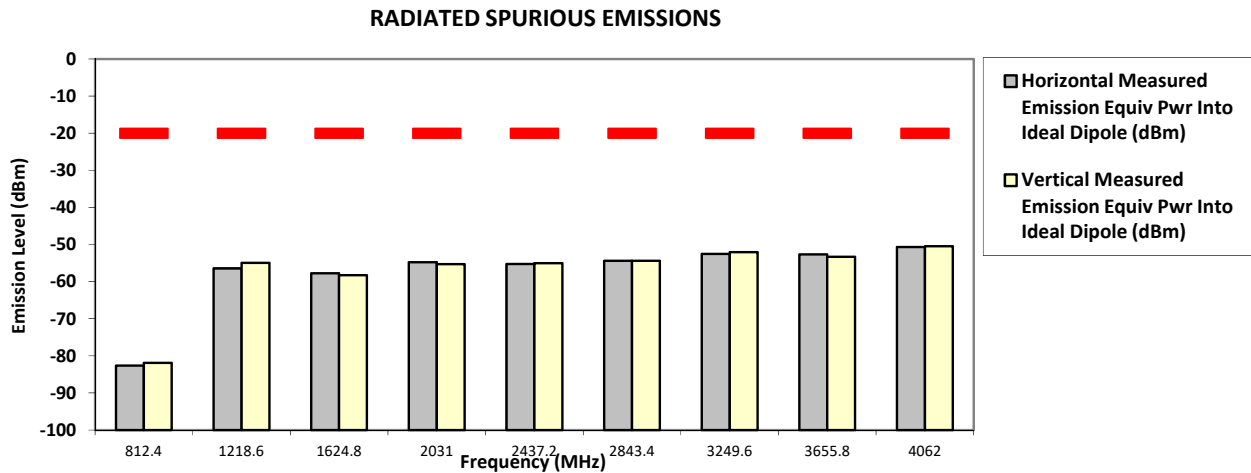
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:	Passed Results	Marginal Results	Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
S/N: 112CUX0897 **SR:13880-EMC-00006**
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) &
SR8570 cable (LAN-2), 3082933N20-C1
Test Mode: TX Digital C4FM
12.5 kHz **33.000 Watt(s) /Max Power**

[illegible]

The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

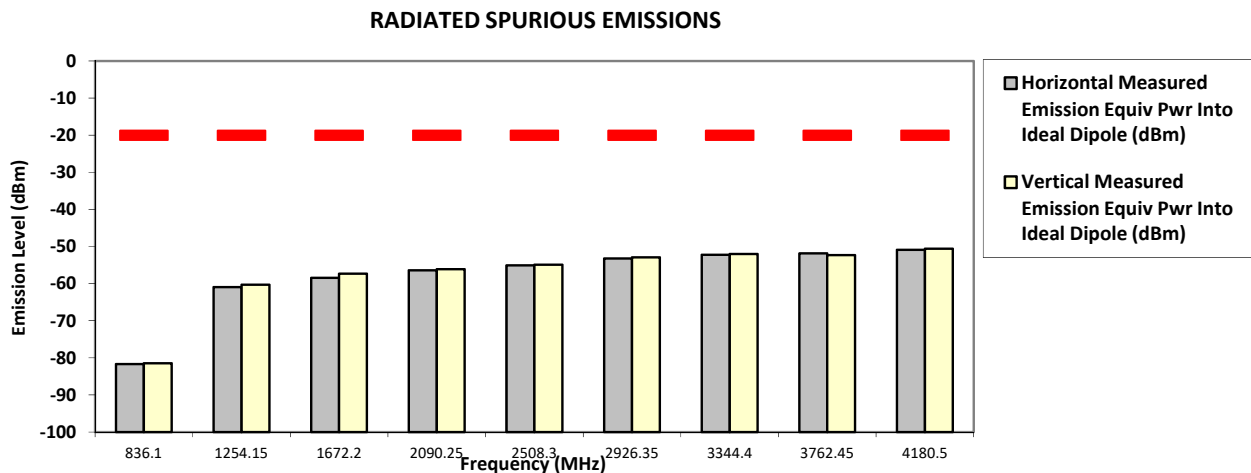
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:	Passed Results	Marginal Results	Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
S/N: 112CUX0897 **SR:13880-EMC-00006**
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) &
SR8570 cable (LAN-2), 3082933N20-C1
Test Mode: TX Digital C4FM
12.5 kHz **2.000 Watt(s) /Low Power**

[illegible]

The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:	Passed Results	Marginal Results	Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 112CUX0897

SR:13880-EMC-00006

Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1

Test Mode: TX Digital C4FM

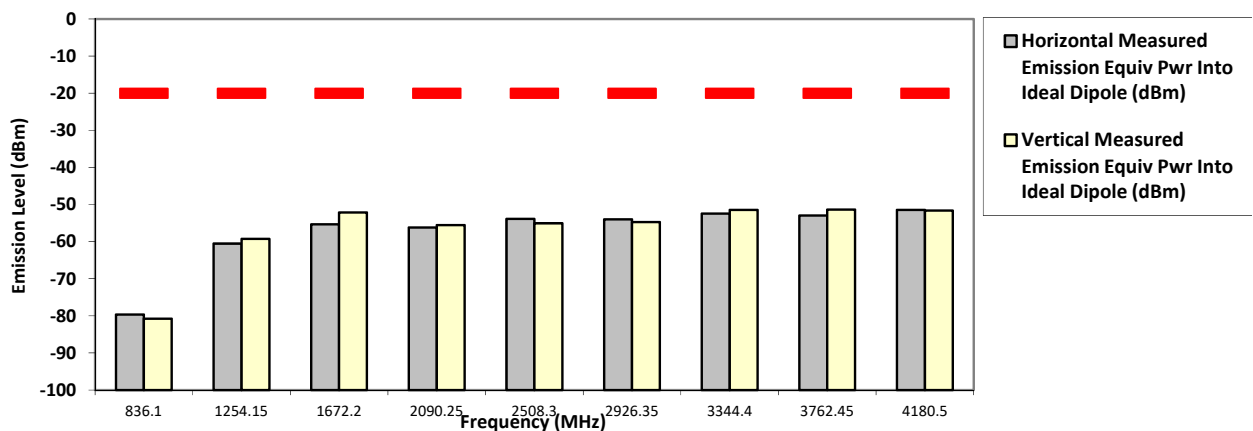
418.050000 MHz

12.5 kHz

33.000 Watt(s) /Max Power

[illegible]

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

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

Tue, Dec 18, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

Failed Results

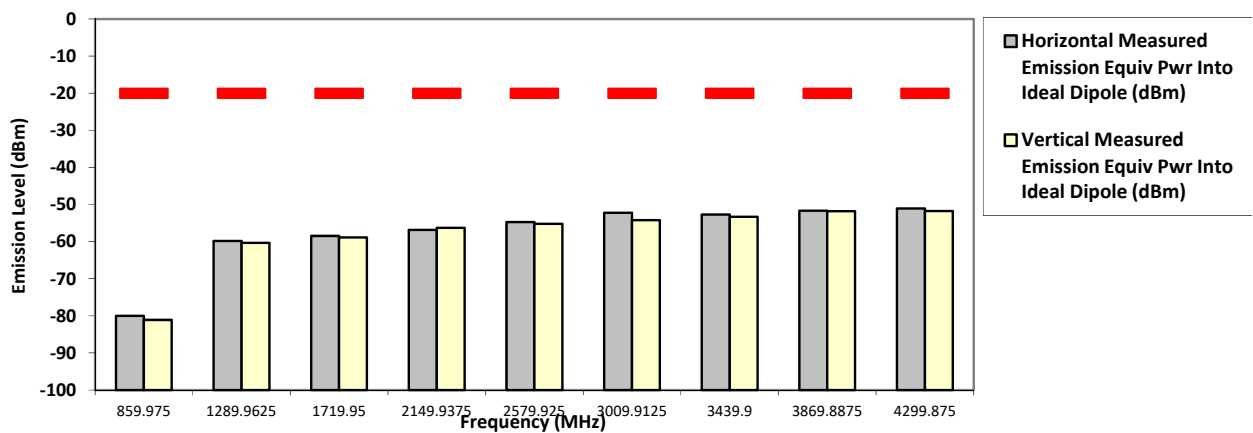
Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
 S/N: 112CUX0897
 Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1
 Test Mode: TX Digital C4FM
 12.5 kHz
 2.000 Watt(s) /Low Power

429.987500 MHz

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
859.9750	-20.0000	-80.0015 **	-81.1099 **
1289.9625	-20.0000	-59.7939 **	-60.3173 **
1719.9500	-20.0000	-58.4749 **	-58.8505 **
2149.9375	-20.0000	-56.8569 **	-56.2701 **
2579.9250	-20.0000	-54.7387 **	-55.1988 **
3009.9125	-20.0000	-52.1966 **	-54.2145 **
3439.9000	-20.0000	-52.7051 **	-53.3027 **
3869.8875	-20.0000	-51.6691 **	-51.8134 **
4299.8750	-20.0000	-51.0701 **	-51.7481 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
 Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 112CUX0897

SR:13880-EMC-00006

Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) &
SR8570 cable (LAN-2), 3082933N20-C1

Test Mode: TX Digital C4FM

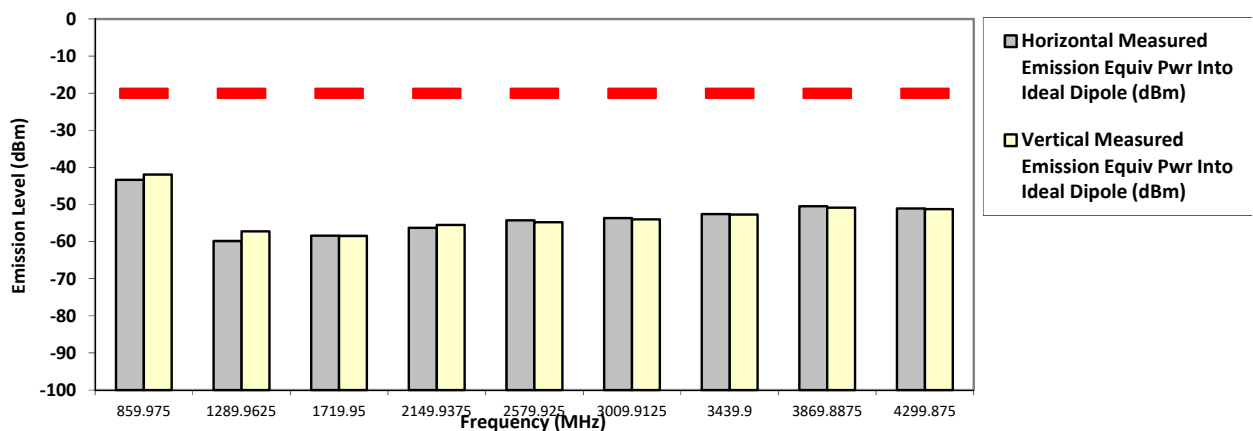
429.987500 MHz

12.5 kHz

33.000 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)
859.9750	-20.0000	-43.3400 *	-41.8900 *
1289.9625	-20.0000	-59.8545 **	-57.2416 **
1719.9500	-20.0000	-58.3857 **	-58.4581 **
2149.9375	-20.0000	-56.2856 **	-55.5143 **
2579.9250	-20.0000	-54.2504 **	-54.7835 **
3009.9125	-20.0000	-53.6286 **	-54.0136 **
3439.9000	-20.0000	-52.5975 **	-52.6953 **
3869.8875	-20.0000	-50.4561 **	-50.8236 **
4299.8750	-20.0000	-51.0957 **	-51.2500 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

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

Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

Failed Results

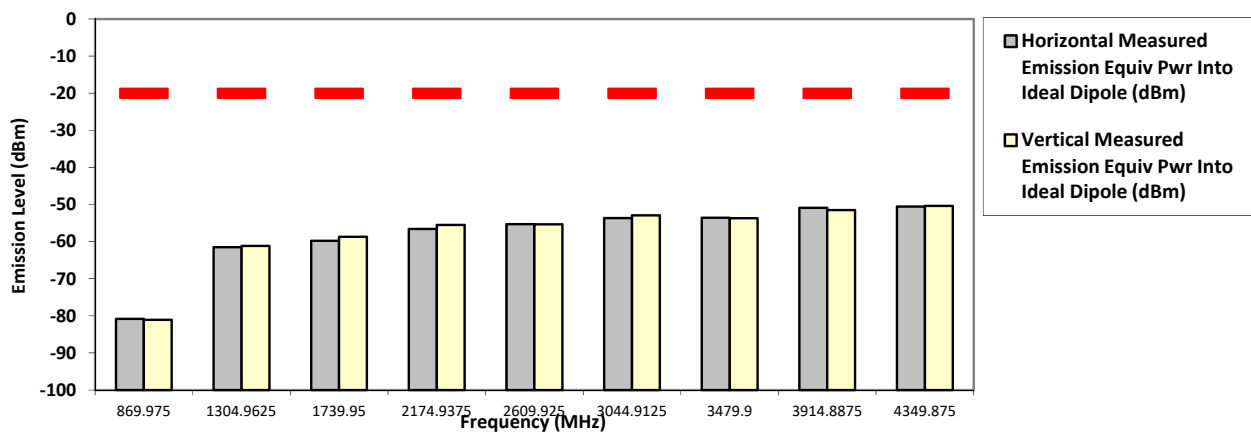
Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
 S/N: 112CUX0897
 Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1
 Test Mode: TX Digital C4FM
 12.5 kHz
 2.000 Watt(s) /Low Power

434.987500 MHz

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
869.9750	-20.0000	-80.8096 **	-81.0494 **
1304.9625	-20.0000	-61.5185 **	-61.1492 **
1739.9500	-20.0000	-59.7575 **	-58.7076 **
2174.9375	-20.0000	-56.6011 **	-55.5153 **
2609.9250	-20.0000	-55.2837 **	-55.3215 **
3044.9125	-20.0000	-53.6494 **	-52.8857 **
3479.9000	-20.0000	-53.5347 **	-53.7322 **
3914.8875	-20.0000	-50.8564 **	-51.5021 **
4349.8750	-20.0000	-50.5642 **	-50.3895 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
 Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

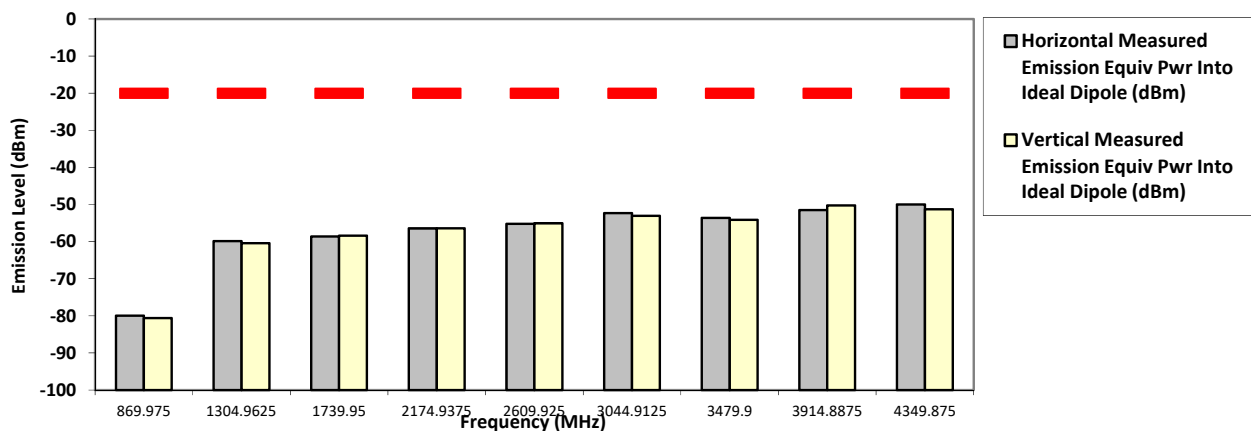
Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
 S/N: 112CUX0897
 Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1
 Test Mode: TX Digital C4FM
 12.5 kHz
 33.000 Watt(s) /Max Power

434.987500 MHz

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
869.9750	-20.0000	-79.9698 **	-80.6262 **
1304.9625	-20.0000	-59.8661 **	-60.4036 **
1739.9500	-20.0000	-58.6385 **	-58.3749 **
2174.9375	-20.0000	-56.4417 **	-56.3850 **
2609.9250	-20.0000	-55.2219 **	-55.0583 **
3044.9125	-20.0000	-52.3235 **	-53.0525 **
3479.9000	-20.0000	-53.5933 **	-54.1407 **
3914.8875	-20.0000	-51.4977 **	-50.2258 **
4349.8750	-20.0000	-49.9765 **	-51.2662 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
 Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

Model Number: T7039A
Battery Part No: NA

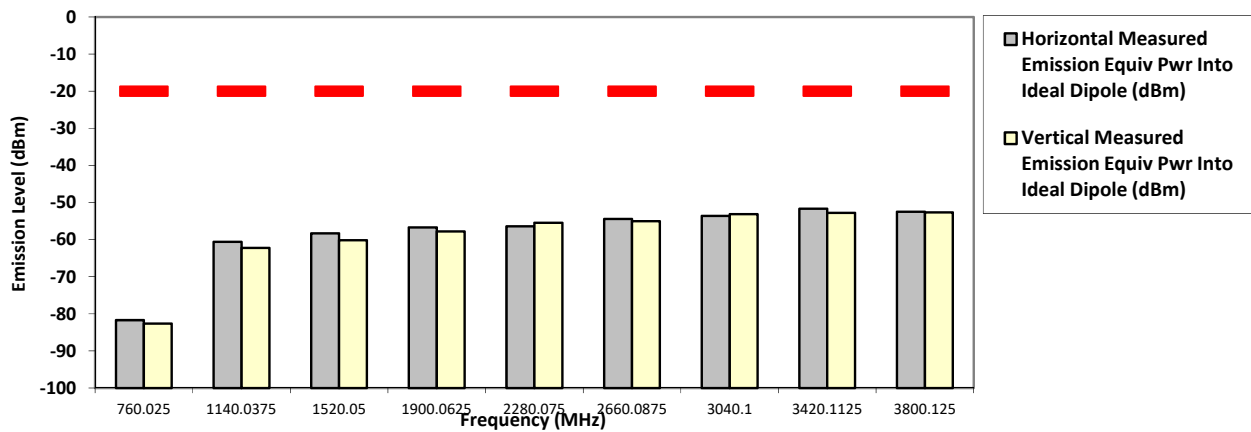
SAC Transmitter Radiated Emission:
S/N: 112CUX0897
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1
Test Mode: TX Digital Phase II
12.5 kHz
2.000 Watt(s) /Low Power

SR:13880-EMC-00006

380.012500 MHz

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
760.0250	-20.0000	-81.7204 **	-82.6575 **
1140.0375	-20.0000	-60.5956 **	-62.2237 **
1520.0500	-20.0000	-58.2936 **	-60.1827 **
1900.0625	-20.0000	-56.7138 **	-57.8142 **
2280.0750	-20.0000	-56.4226 **	-55.4672 **
2660.0875	-20.0000	-54.4422 **	-55.0607 **
3040.1000	-20.0000	-53.6380 **	-53.1524 **
3420.1125	-20.0000	-51.7014 **	-52.7917 **
3800.1250	-20.0000	-52.4878 **	-52.6742 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman
Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

Failed Results

33.000 Watt(s) /Max Power

[illegible]

The chart displays the Emission Level (dBm) on the Y-axis (ranging from -100 to 0) against Frequency (MHz) on the X-axis. The X-axis labels are 760.025, 1140.0375, 1520.05, 1900.0625, 2280.075, 2660.0875, 3040.1, 3420.1125, and 3800.125. The legend indicates four data series: Horizontal Measured (grey bar), Emission Equiv Pwr Into Ideal Dipole (red line), Vertical Measured (yellow bar), and Emission Equiv Pwr Into Ideal Dipole (red line). The red lines are constant at approximately -20 dBm. The measured emissions (grey and yellow bars) increase with frequency, starting around -82 dBm at 760.025 MHz and reaching approximately -52 dBm at 3800.125 MHz. The vertical measured emissions are consistently slightly higher than the horizontal measured emissions.

Frequency (MHz)	Horizontal Measured (dBm)	Vertical Measured (dBm)	Emission Equiv Pwr Into Ideal Dipole (dBm)
760.025	-82	-82	-20
1140.0375	-62	-62	-20
1520.05	-60	-60	-20
1900.0625	-59	-58	-20
2280.075	-57	-57	-20
2660.0875	-56	-54	-20
3040.1	-53	-53	-20
3420.1125	-53	-52	-20
3800.125	-52	-52	-20

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.6

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 112CUX0897

SR:13880-EMC-00006

Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1

Test Mode: TX Digital Phase II

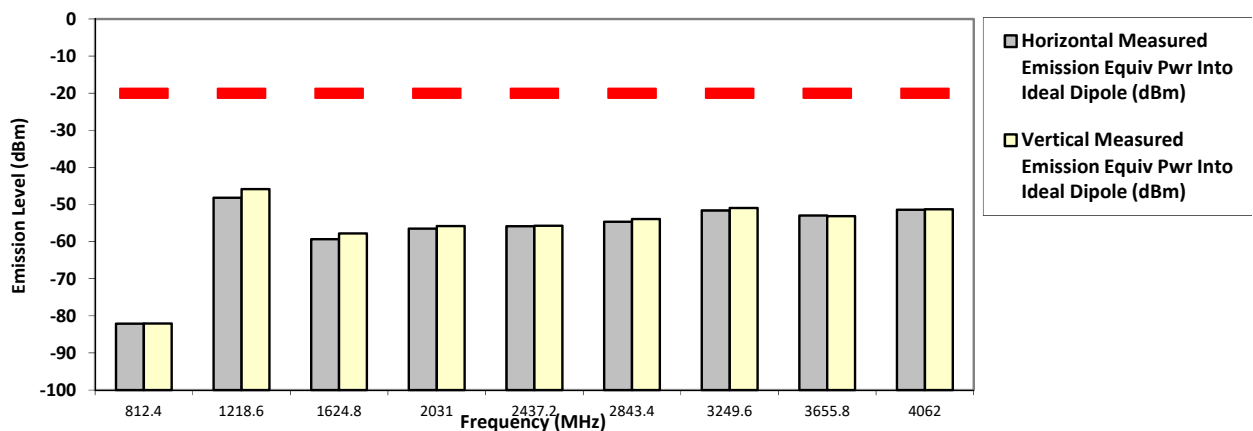
406.200000 MHz

12.5 kHz

33.000 Watt(s) /Max Power

[illegible]

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

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

Tue, Dec 18, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 112CUX0897
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1
Test Mode: TX Digital Phase II

SR:13880-EMC-00006

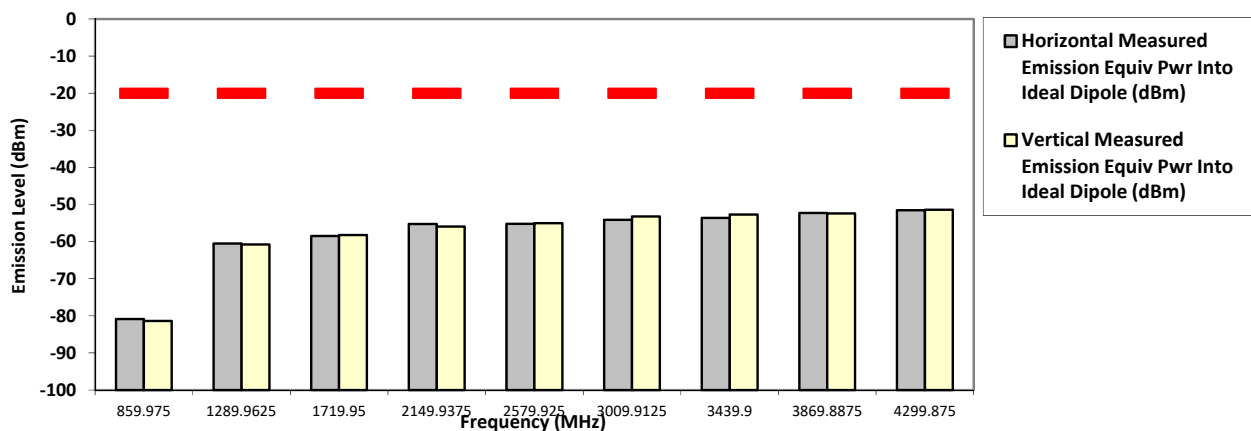
429.987500 MHz

12.5 kHz

2.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
859.9750	-20.0000	-80.8652 **	-81.3810 **
1289.9625	-20.0000	-60.4936 **	-60.7783 **
1719.9500	-20.0000	-58.4947 **	-58.2083 **
2149.9375	-20.0000	-55.2757 **	-55.9648 **
2579.9250	-20.0000	-55.2245 **	-55.0084 **
3009.9125	-20.0000	-54.1050 **	-53.2402 **
3439.9000	-20.0000	-53.6075 **	-52.6961 **
3869.8875	-20.0000	-52.2475 **	-52.4338 **
4299.8750	-20.0000	-51.5065 **	-51.4060 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

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

Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 112CUX0897
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1
Test Mode: TX Digital Phase II

SR:13880-EMC-00006

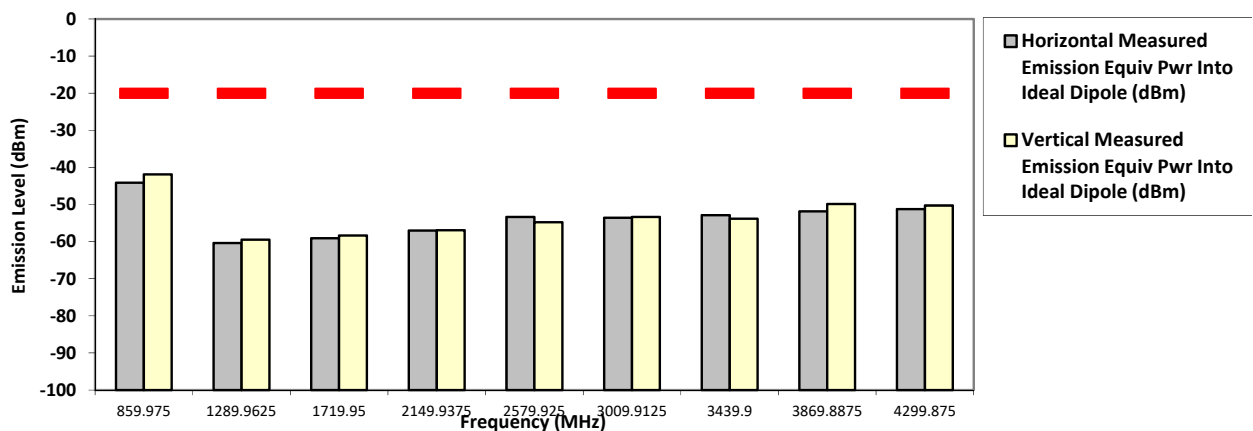
429.987500 MHz

12.5 kHz

33.000 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)
859.9750	-20.0000	-44.1300 *	-41.8700 *
1289.9625	-20.0000	-60.3631 **	-59.4697 **
1719.9500	-20.0000	-59.0646 **	-58.3229 **
2149.9375	-20.0000	-57.0047 **	-56.9390 **
2579.9250	-20.0000	-53.3672 **	-54.7782 **
3009.9125	-20.0000	-53.5710 **	-53.3306 **
3439.9000	-20.0000	-52.8726 **	-53.8291 **
3869.8875	-20.0000	-51.8585 **	-49.8691 **
4299.8750	-20.0000	-51.2570 **	-50.2807 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

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

Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

Failed Results

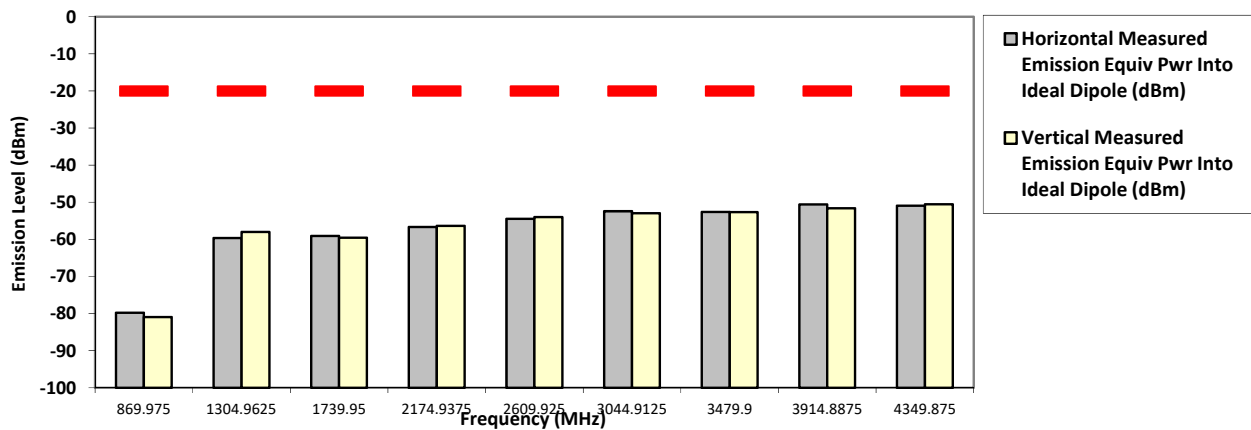
2.000 Watt(s) /Low Power

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
 S/N: 112CUX0897
 Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1
 Test Mode: TX Digital Phase II
 434.987500 MHz 12.5 kHz 33.000 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)
869.9750	-20.0000	-79.7610 **	-80.9243 **
1304.9625	-20.0000	-59.6422 **	-58.0089 **
1739.9500	-20.0000	-59.0872 **	-59.5491 **
2174.9375	-20.0000	-56.6658 **	-56.3538 **
2609.9250	-20.0000	-54.4286 **	-54.0136 **
3044.9125	-20.0000	-52.4187 **	-52.9355 **
3479.9000	-20.0000	-52.6337 **	-52.6644 **
3914.8875	-20.0000	-50.5752 **	-51.5902 **
4349.8750	-20.0000	-50.9277 **	-50.5527 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 112CUX0901

SR:13880-EMC-00020

Accy Part No: (1948691-1)C1, LAN-1, LAN-2

Test Mode: TX FSK

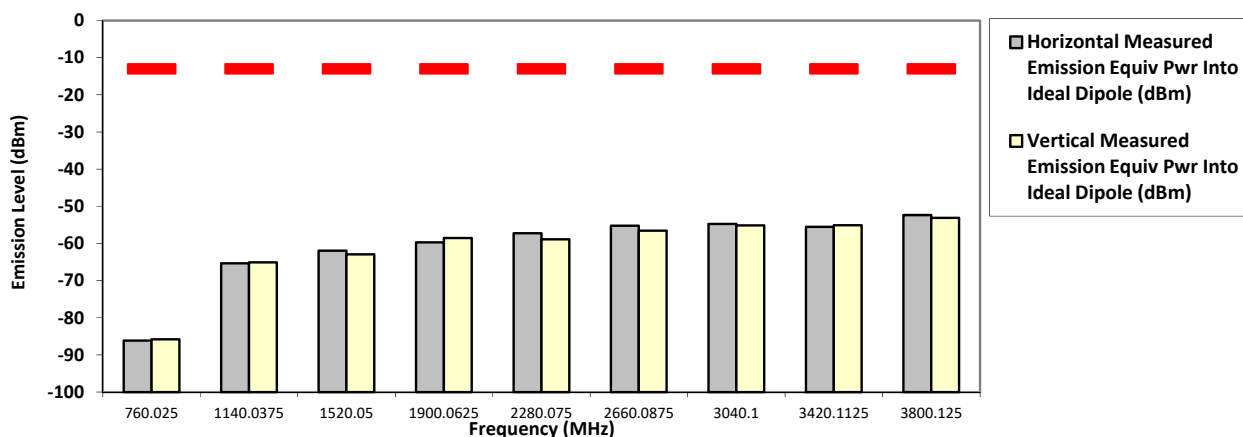
380.012500 MHz

25 kHz

2.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
760.0250	-13.0000	-86.1492 **	-85.7722 **
1140.0375	-13.0000	-65.3198 **	-65.0690 **
1520.0500	-13.0000	-61.9705 **	-62.9279 **
1900.0625	-13.0000	-59.6840 **	-58.5400 **
2280.0750	-13.0000	-57.2629 **	-58.9040 **
2660.0875	-13.0000	-55.2547 **	-56.5609 **
3040.1000	-13.0000	-54.7427 **	-55.1632 **
3420.1125	-13.0000	-55.5116 **	-55.1234 **
3800.1250	-13.0000	-52.3608 **	-53.1420 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Aiman

Wed, Dec 16, 2020

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): 22.0 Hum(%RH): 71.0

System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
S/N: 112CUX0901

SR:13880-EMC-00020

Accy Part No: (1948691-1)C1, LAN-1, LAN-2

Test Mode: TX FSK

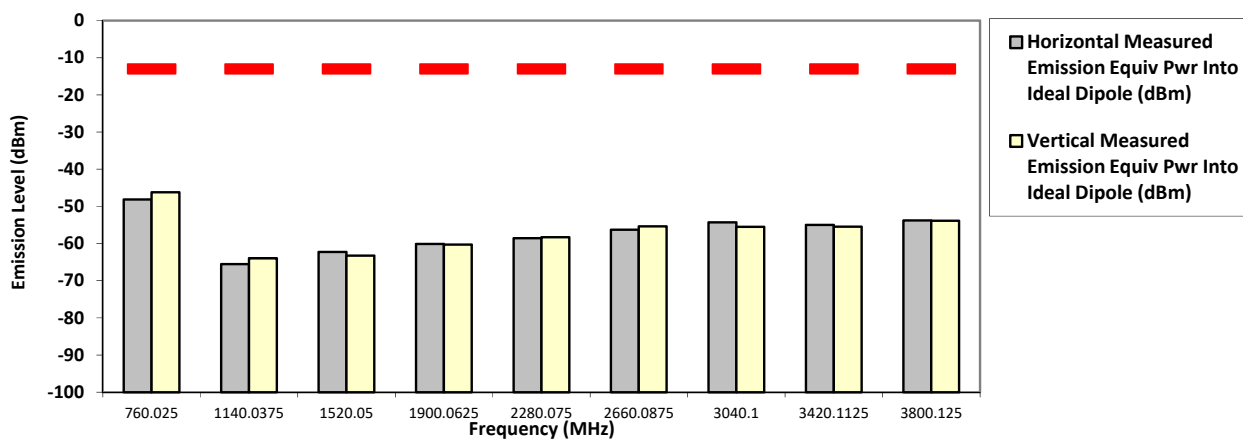
380.012500 MHz

25 kHz

33.000 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)
760.0250	-13.0000	-48.1400 *	-46.2300 *
1140.0375	-13.0000	-65.5294 **	-63.9792 **
1520.0500	-13.0000	-62.2552 **	-63.2547 **
1900.0625	-13.0000	-60.1224 **	-60.2713 **
2280.0750	-13.0000	-58.5919 **	-58.3018 **
2660.0875	-13.0000	-56.2833 **	-55.3661 **
3040.1000	-13.0000	-54.2834 **	-55.4993 **
3420.1125	-13.0000	-54.9779 **	-55.4675 **
3800.1250	-13.0000	-53.7901 **	-53.8812 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazirul Tue, Dec 15, 2020

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): 22.0 Hum(%RH): 71.0

System MU: 4.03 dB

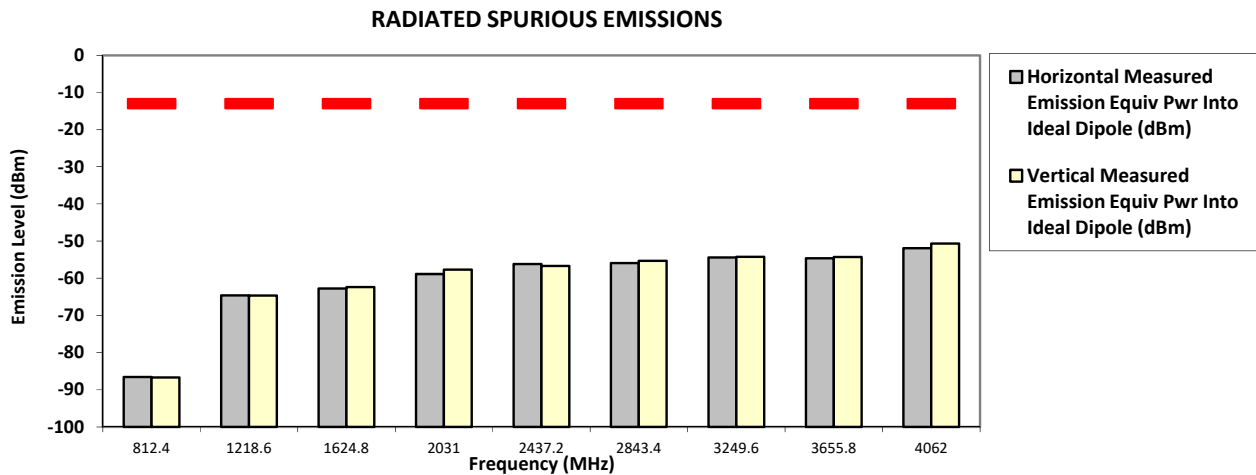
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: T7039A S/N: 112CUX0901 SR:13880-EMC-00020
 Battery Part No: NA Accy Part No: (1948691-1)C1, LAN-1, LAN-2
 Test Mode: TX FSK
 406.200000 MHz 25 kHz 2.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
812.4000	-13.0000	-86.5784 **	-86.7069 **
1218.6000	-13.0000	-64.6096 **	-64.6642 **
1624.8000	-13.0000	-62.7670 **	-62.4070 **
2031.0000	-13.0000	-58.8500 **	-57.6822 **
2437.2000	-13.0000	-56.1739 **	-56.6811 **
2843.4000	-13.0000	-55.9118 **	-55.2833 **
3249.6000	-13.0000	-54.4034 **	-54.2590 **
3655.8000	-13.0000	-54.6205 **	-54.2673 **
4062.0000	-13.0000	-51.9048 **	-50.6567 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Aiman Wed, Dec 16, 2020

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): 22.0 Hum(%RH): 71.0

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 112CUX0901

SR:13880-EMC-00020

Accy Part No: (1948691-1)C1, LAN-1, LAN-2

Test Mode: TX FSK

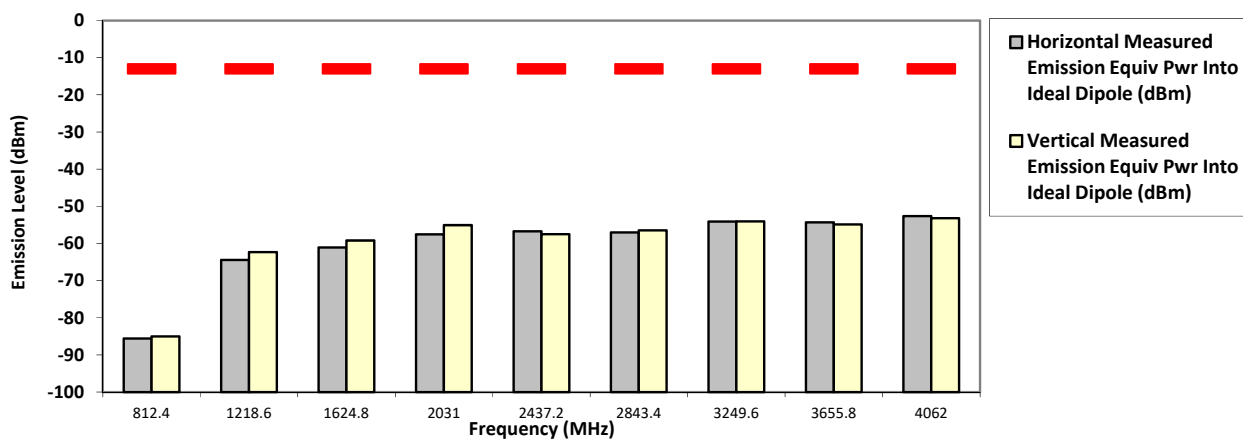
406.200000 MHz

25 kHz

33.000 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)
812.4000	-13.0000	-85.5757 **	-84.9970 **
1218.6000	-13.0000	-64.4521 **	-62.3409 **
1624.8000	-13.0000	-61.0671 **	-59.2078 **
2031.0000	-13.0000	-57.5307 **	-55.0835 **
2437.2000	-13.0000	-56.7438 **	-57.5023 **
2843.4000	-13.0000	-57.0268 **	-56.5135 **
3249.6000	-13.0000	-54.1024 **	-54.0535 **
3655.8000	-13.0000	-54.2983 **	-54.8682 **
4062.0000	-13.0000	-52.6618 **	-53.1975 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Aiman

Wed, Dec 16, 2020

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): 22.0 Hum(%RH): 71.0

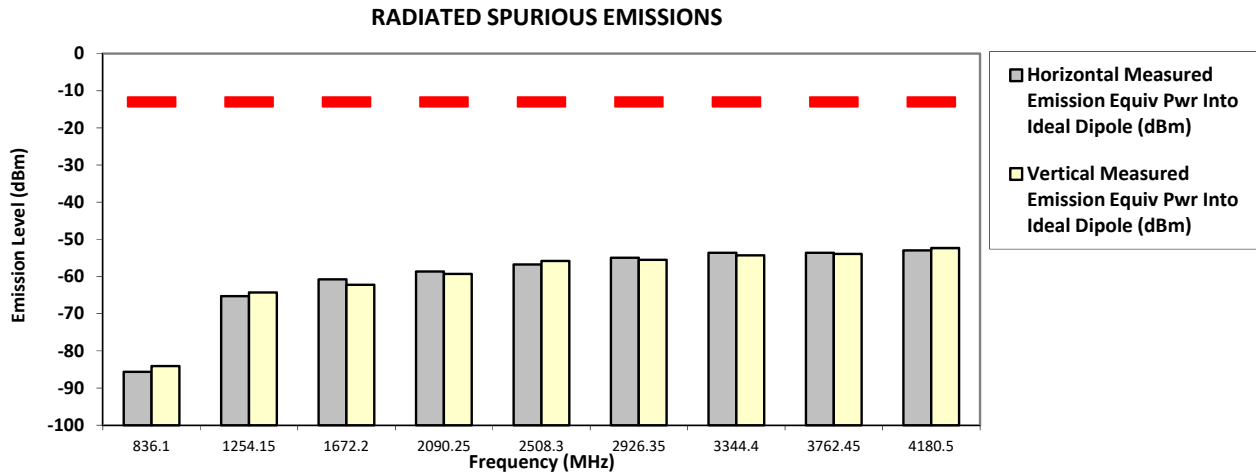
System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: T7039A SAC Transmitter Radiated Emission: SR:13880-EMC-00020
 Battery Part No: NA S/N: 112CUX0901
 Accy Part No: (1948691-1)C1, LAN-1, LAN-2
 Test Mode: TX FSK
 418.050000 MHz 25 kHz 2.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
836.1000	-13.0000	-85.6278 **	-84.0998 **
1254.1500	-13.0000	-65.2746 **	-64.2907 **
1672.2000	-13.0000	-60.7771 **	-62.2231 **
2090.2500	-13.0000	-58.6818 **	-59.3065 **
2508.3000	-13.0000	-56.7714 **	-55.8209 **
2926.3500	-13.0000	-54.9324 **	-55.4906 **
3344.4000	-13.0000	-53.6037 **	-54.2868 **
3762.4500	-13.0000	-53.5817 **	-53.9325 **
4180.5000	-13.0000	-52.9686 **	-52.3621 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Aiman Wed, Dec 16, 2020

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): 22.0 Hum(%RH): 71.0

System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 112CUX0901

SR:13880-EMC-00020

Accy Part No: (1948691-1)C1, LAN-1, LAN-2

Test Mode: TX FSK

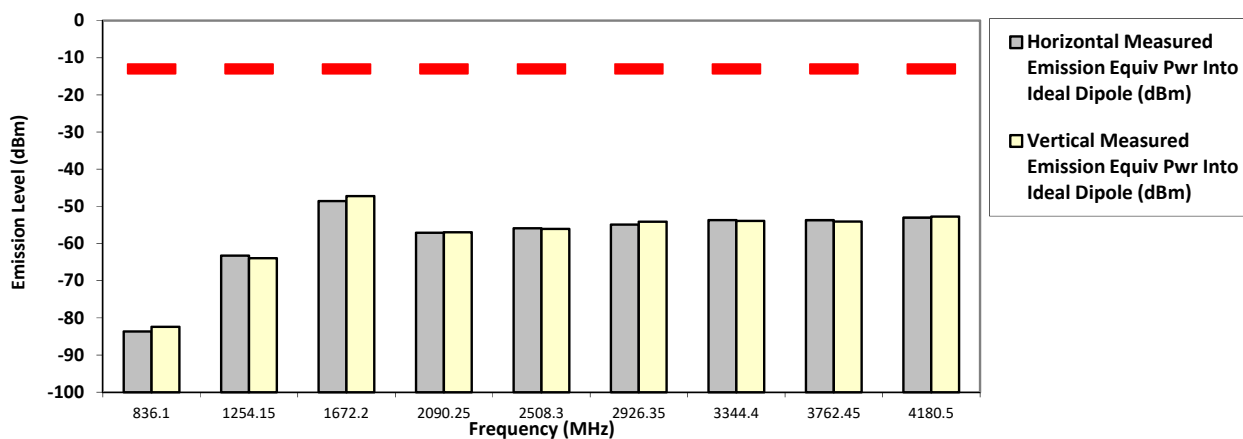
418.050000 MHz

25 kHz

33.000 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)
836.1000	-13.0000	-83.6416 **	-82.4027 **
1254.1500	-13.0000	-63.2577 **	-63.9172 **
1672.2000	-13.0000	-48.5800 *	-47.2400 *
2090.2500	-13.0000	-57.0806 **	-56.9461 **
2508.3000	-13.0000	-55.9102 **	-56.0663 **
2926.3500	-13.0000	-54.8972 **	-54.1080 **
3344.4000	-13.0000	-53.6603 **	-53.9203 **
3762.4500	-13.0000	-53.7331 **	-54.0940 **
4180.5000	-13.0000	-53.0313 **	-52.7505 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Aiman

Wed, Dec 16, 2020

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): 22.0 Hum(%RH): 71.0

System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 112CUX0901

SR:13880-EMC-00020

Accy Part No: (1948691-1)C1, LAN-1, LAN-2

Test Mode: TX FSK

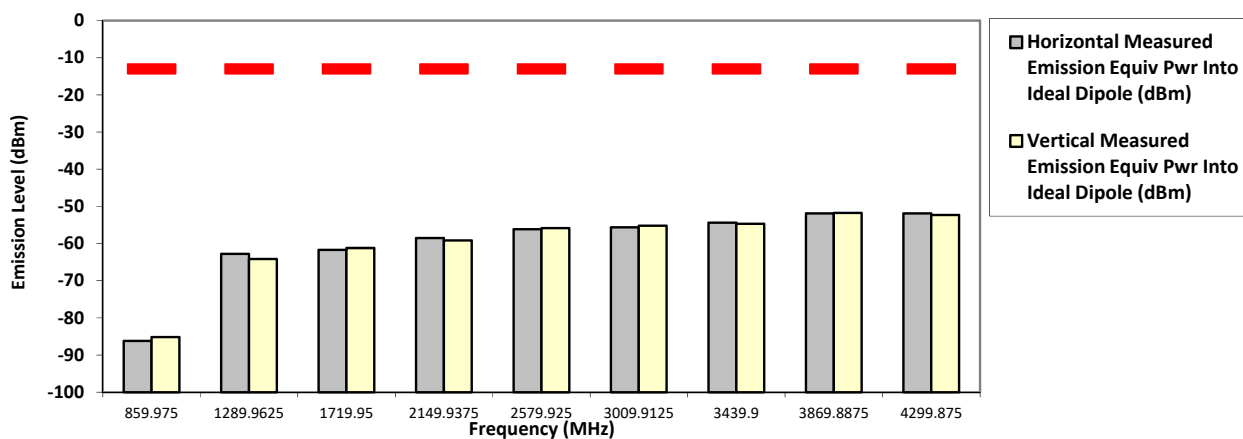
429.987500 MHz

25 kHz

2.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
859.9750	-13.0000	-86.2075 **	-85.1592 **
1289.9625	-13.0000	-62.8105 **	-64.1836 **
1719.9500	-13.0000	-61.7184 **	-61.2254 **
2149.9375	-13.0000	-58.5262 **	-59.1359 **
2579.9250	-13.0000	-56.1411 **	-55.8485 **
3009.9125	-13.0000	-55.6301 **	-55.2132 **
3439.9000	-13.0000	-54.3671 **	-54.6733 **
3869.8875	-13.0000	-51.8892 **	-51.7622 **
4299.8750	-13.0000	-51.9146 **	-52.3066 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Aiman

Wed, Dec 16, 2020

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): 22.0 Hum(%RH): 71.0

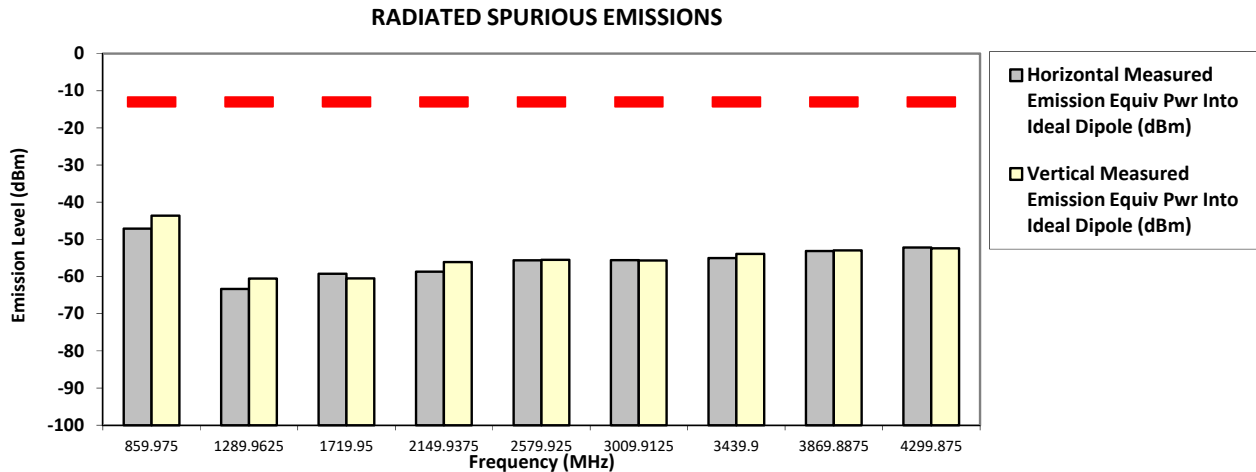
System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: T7039A SAC Transmitter Radiated Emission: SR:13880-EMC-00020
 Battery Part No: NA S/N: 112CUX0901
 Accy Part No: (1948691-1)C1, LAN-1, LAN-2
 Test Mode: TX FSK
 429.987500 MHz 25 kHz 33.000 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)
859.9750	-13.0000	-47.1200 *	-43.6400 *
1289.9625	-13.0000	-63.3616 **	-60.5768 **
1719.9500	-13.0000	-59.2627 **	-60.4770 **
2149.9375	-13.0000	-58.6979 **	-56.0926 **
2579.9250	-13.0000	-55.6115 **	-55.5026 **
3009.9125	-13.0000	-55.5713 **	-55.6508 **
3439.9000	-13.0000	-55.0254 **	-53.9327 **
3869.8875	-13.0000	-53.1606 **	-52.9657 **
4299.8750	-13.0000	-52.1852 **	-52.4186 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Nazirul Tue, Dec 15, 2020

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): 22.0 Hum(%RH): 71.0

System MU: 4.03 dB

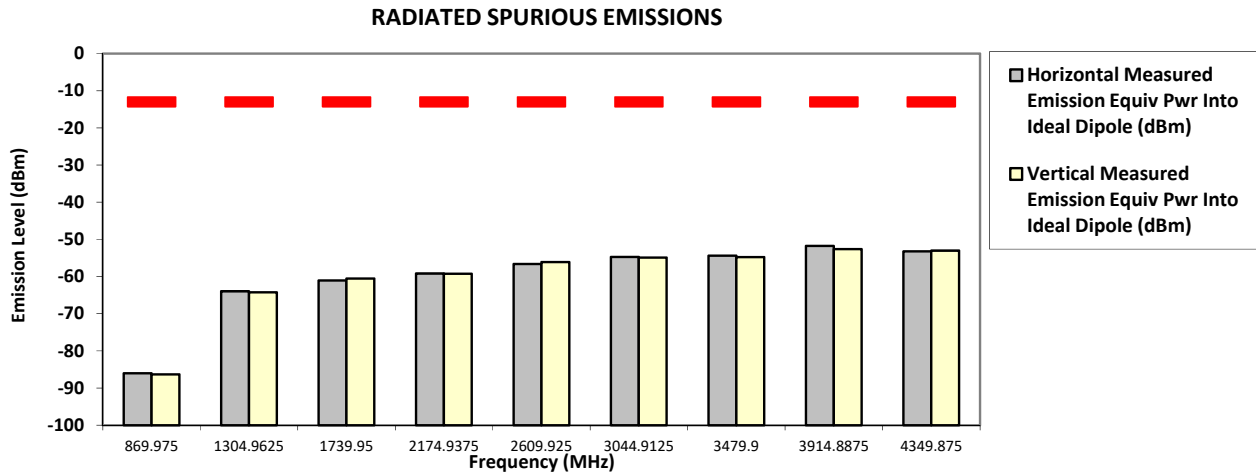
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: T7039A S/N: 112CUX0901 SR:13880-EMC-00020
 Battery Part No: NA Accy Part No: (1948691-1)C1, LAN-1, LAN-2
 Test Mode: TX FSK
 434.987500 MHz 25 kHz 2.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
869.9750	-13.0000	-86.0548 **	-86.3100 **
1304.9625	-13.0000	-63.9859 **	-64.2632 **
1739.9500	-13.0000	-61.0707 **	-60.5310 **
2174.9375	-13.0000	-59.1735 **	-59.2662 **
2609.9250	-13.0000	-56.6433 **	-56.1125 **
3044.9125	-13.0000	-54.7457 **	-54.8989 **
3479.9000	-13.0000	-54.3954 **	-54.7876 **
3914.8875	-13.0000	-51.7725 **	-52.6072 **
4349.8750	-13.0000	-53.2509 **	-53.0257 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Aiman Wed, Dec 16, 2020

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): 22.0 Hum(%RH): 71.0

System MU: 4.03 dB

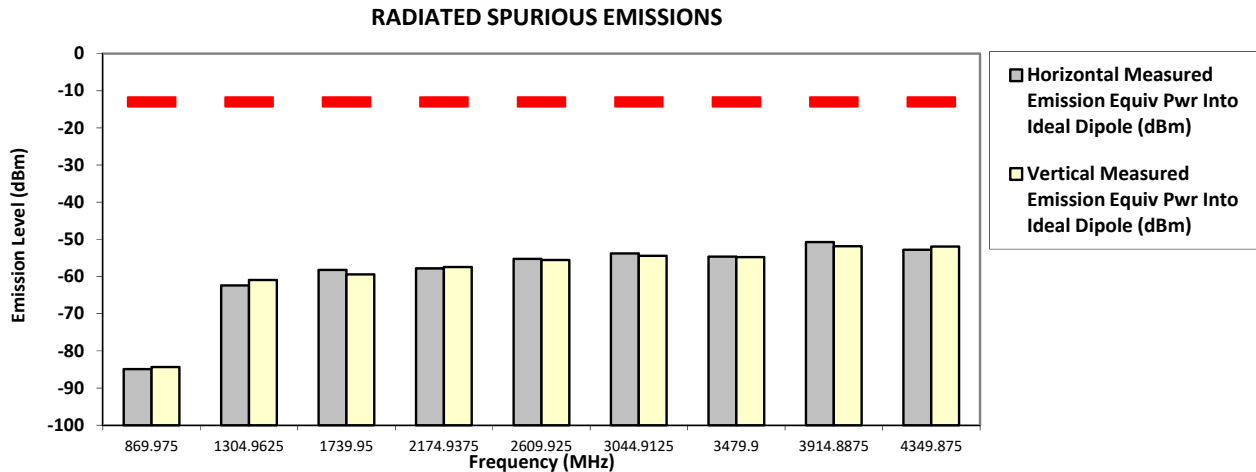
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: T7039A S/N: 112CUX0901 SR:13880-EMC-00020
 Battery Part No: NA Accy Part No: (1948691-1)C1, LAN-1, LAN-2
 Test Mode: TX FSK
 434.987500 MHz 25 kHz 33.000 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)
869.9750	-13.0000	-84.9293 **	-84.3463 **
1304.9625	-13.0000	-62.4015 **	-60.9230 **
1739.9500	-13.0000	-58.2320 **	-59.4232 **
2174.9375	-13.0000	-57.7990 **	-57.4345 **
2609.9250	-13.0000	-55.2753 **	-55.5412 **
3044.9125	-13.0000	-53.7908 **	-54.4379 **
3479.9000	-13.0000	-54.6593 **	-54.7653 **
3914.8875	-13.0000	-50.7273 **	-51.8511 **
4349.8750	-13.0000	-52.7732 **	-51.9232 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Aiman Wed, Dec 16, 2020

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): 22.0 Hum(%RH): 71.0

System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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33.000 Watt(s) /Max Power

[illegible]

The chart displays the Emission Level (dBm) on the Y-axis (ranging from -100 to 0) against Frequency (MHz) on the X-axis. The X-axis labels are 760.025, 1140.0375, 1520.05, 1900.0625, 2280.075, 2660.0875, 3040.1, 3420.1125, and 3800.125. The legend indicates that the grey bars represent Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm) and the yellow bars represent Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm). A red line at -20 dBm represents the Ideal Dipole reference.

Frequency (MHz)	Horizontal Measured (dBm)	Vertical Measured (dBm)
760.025	-82	-82
1140.0375	-62	-61
1520.05	-60	-60
1900.0625	-59	-58
2280.075	-57	-56
2660.0875	-53	-53
3040.1	-53	-53
3420.1125	-52	-52
3800.125	-51	-52

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.6

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 112CUX0897

SR:13880-EMC-00006

Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1

Test Mode: TX LSM

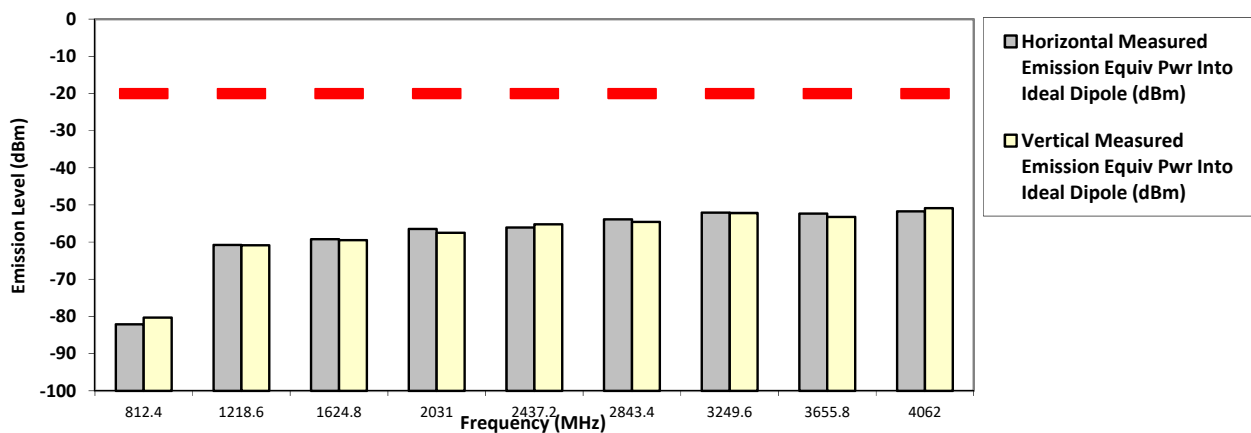
406.200000 MHz

12.5 kHz

2.000 Watt(s) /Low Power

[illegible]

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

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

Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
S/N: 112CUX0897
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1
Test Mode: TX LSM

SR:13880-EMC-00006

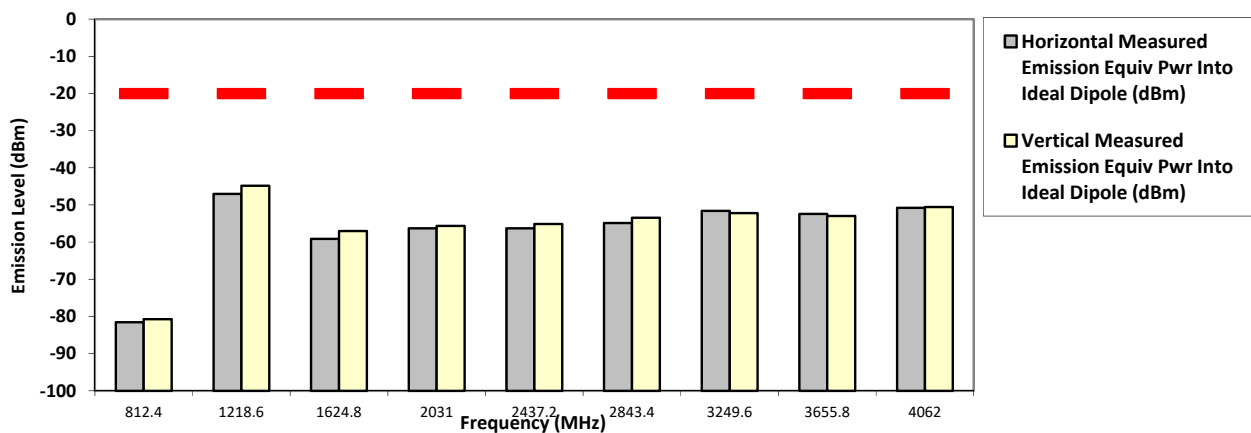
406.200000 MHz

12.5 kHz

33.000 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)
812.4000	-20.0000	-81.5361 **	-80.7390 **
1218.6000	-20.0000	-47.0400 *	-44.8500 *
1624.8000	-20.0000	-59.1458 **	-57.0171 **
2031.0000	-20.0000	-56.2516 **	-55.6560 **
2437.2000	-20.0000	-56.2685 **	-55.1402 **
2843.4000	-20.0000	-54.8601 **	-53.4136 **
3249.6000	-20.0000	-51.6124 **	-52.2092 **
3655.8000	-20.0000	-52.4219 **	-52.9625 **
4062.0000	-20.0000	-50.7558 **	-50.5668 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Tue, Dec 18, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 112CUX0897

SR:13880-EMC-00006

Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1

Test Mode: TX LSM

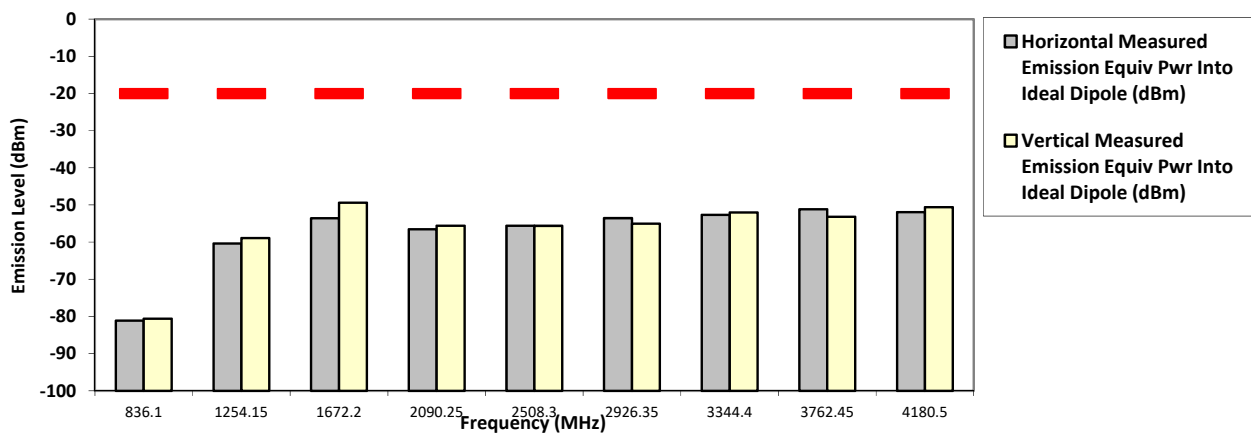
418.050000 MHz

12.5 kHz

33.000 Watt(s) /Max Power

[illegible]

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

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

Tue, Dec 18, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 112CUX0897
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1
Test Mode: TX LSM

SR:13880-EMC-00006

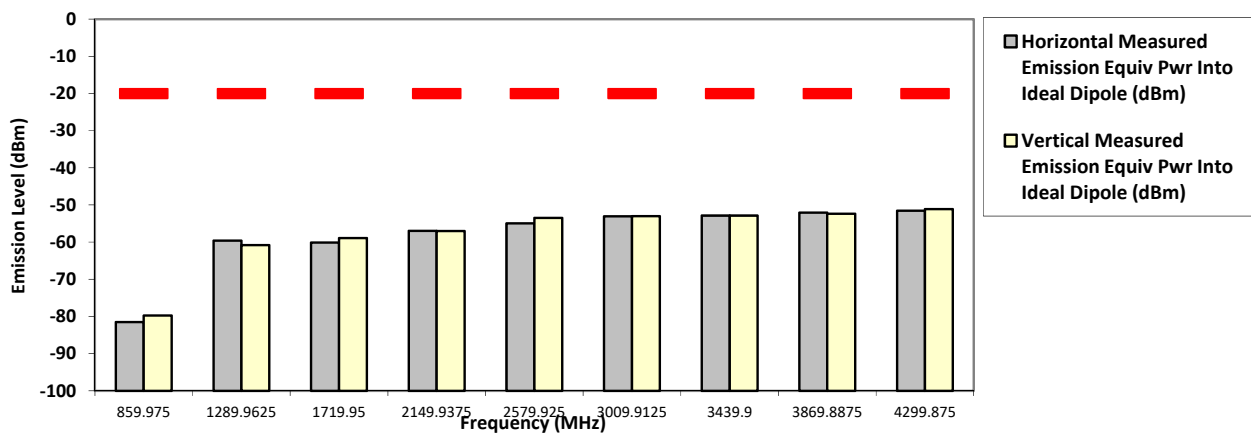
429.987500 MHz

12.5 kHz

2.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
859.9750	-20.0000	-81.4726 **	-79.7362 **
1289.9625	-20.0000	-59.5924 **	-60.7811 **
1719.9500	-20.0000	-60.0953 **	-58.9115 **
2149.9375	-20.0000	-56.9290 **	-57.0280 **
2579.9250	-20.0000	-54.9784 **	-53.4785 **
3009.9125	-20.0000	-53.0617 **	-53.0151 **
3439.9000	-20.0000	-52.8736 **	-52.8649 **
3869.8875	-20.0000	-52.0403 **	-52.3534 **
4299.8750	-20.0000	-51.5456 **	-51.1171 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 112CUX0897

SR:13880-EMC-00006

Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1

Test Mode: TX LSM

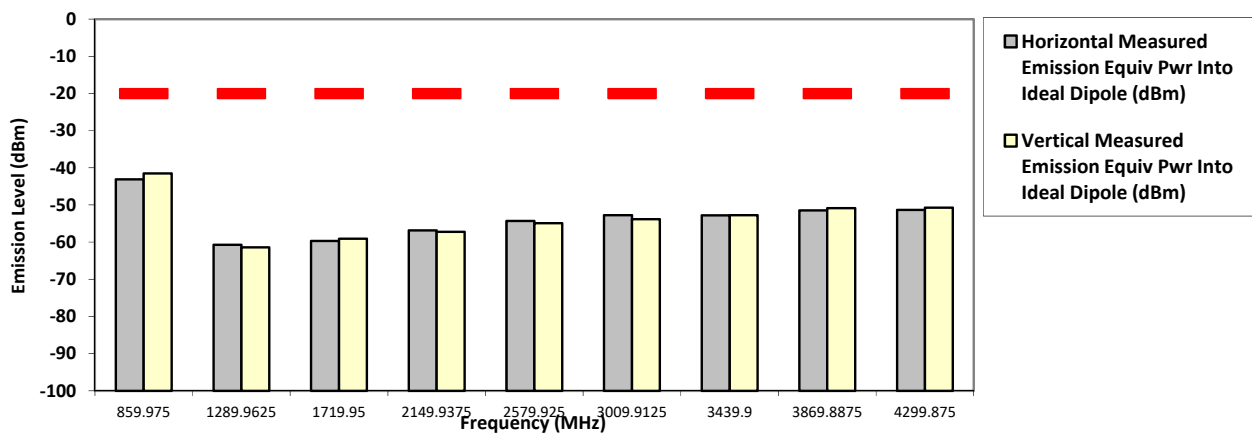
429.987500 MHz

12.5 kHz

33.000 Watt(s) /Max Power

[illegible]

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

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

Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

Passed Results

Marginal Results

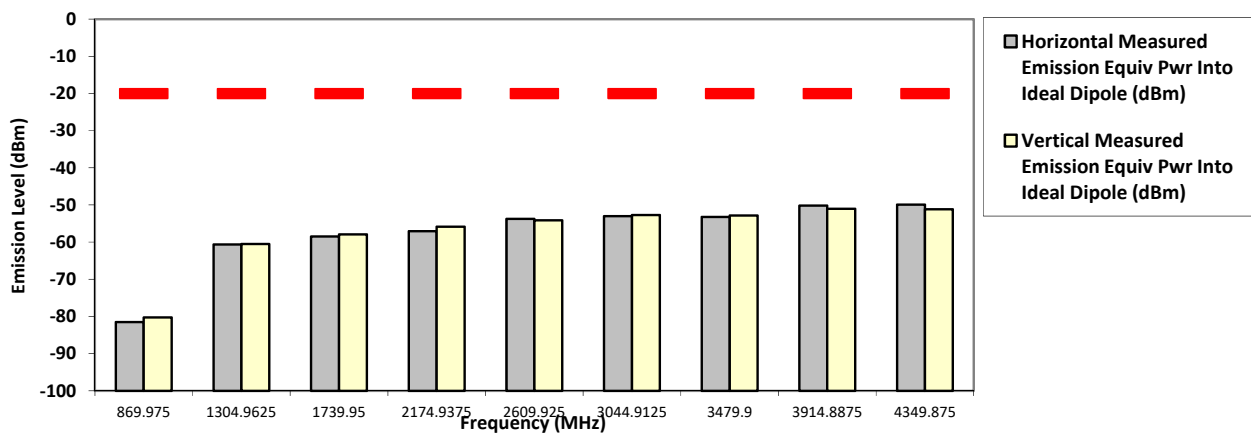
Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
 S/N: 112CUX0897
 Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1
 Test Mode: TX LSM
 434.987500 MHz 12.5 kHz 2.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
869.9750	-20.0000	-81.4779 **	-80.2869 **
1304.9625	-20.0000	-60.6192 **	-60.5186 **
1739.9500	-20.0000	-58.4874 **	-57.9246 **
2174.9375	-20.0000	-57.0752 **	-55.8504 **
2609.9250	-20.0000	-53.7678 **	-54.1217 **
3044.9125	-20.0000	-53.0065 **	-52.6816 **
3479.9000	-20.0000	-53.2206 **	-52.8223 **
3914.8875	-20.0000	-50.1918 **	-51.0509 **
4349.8750	-20.0000	-49.8834 **	-51.1666 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

Model Number: T7039A
Battery Part No: NA

SAC Transmitter Radiated Emission:
S/N: 112CUX0897
Accy Part No: DC CABLE : (1948691-1)C1, LAN CABLE : SR8570 cable (LAN-1) & SR8570 cable (LAN-2), 3082933N20-C1
Test Mode: TX LSM

SR:13880-EMC-00006

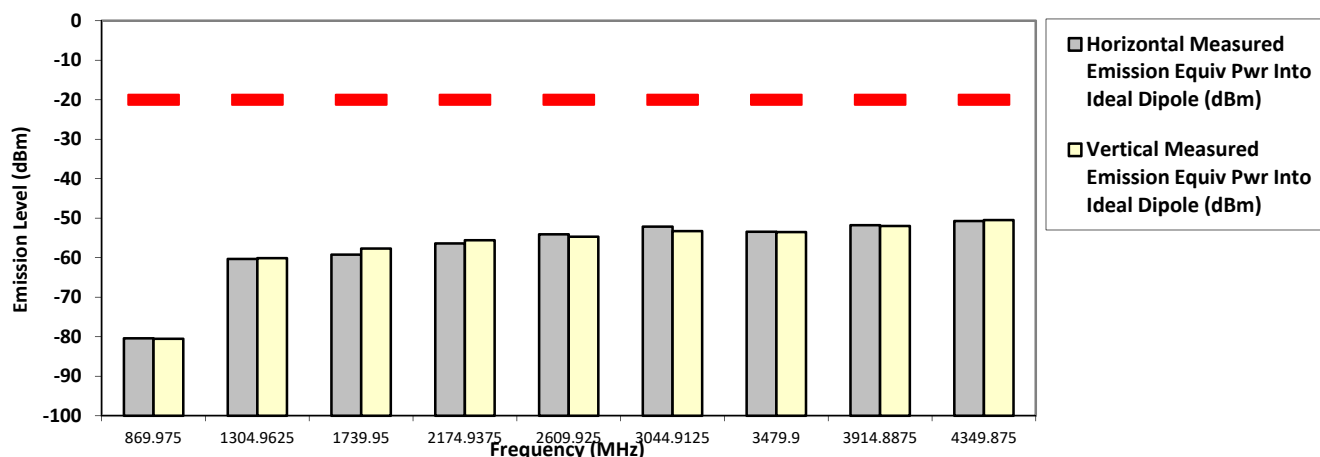
434.987500 MHz

12.5 kHz

33.000 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)
869.9750	-20.0000	-80.4085 **	-80.5052 **
1304.9625	-20.0000	-60.3296 **	-60.0958 **
1739.9500	-20.0000	-59.2223 **	-57.6978 **
2174.9375	-20.0000	-56.3920 **	-55.5751 **
2609.9250	-20.0000	-54.0800 **	-54.6829 **
3044.9125	-20.0000	-52.1151 **	-53.2442 **
3479.9000	-20.0000	-53.4368 **	-53.5200 **
3914.8875	-20.0000	-51.7684 **	-51.9586 **
4349.8750	-20.0000	-50.7162 **	-50.4686 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Mon, Dec 17, 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): 23.4 Hum(%RH): 69.6

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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5.14.3. Test Limit

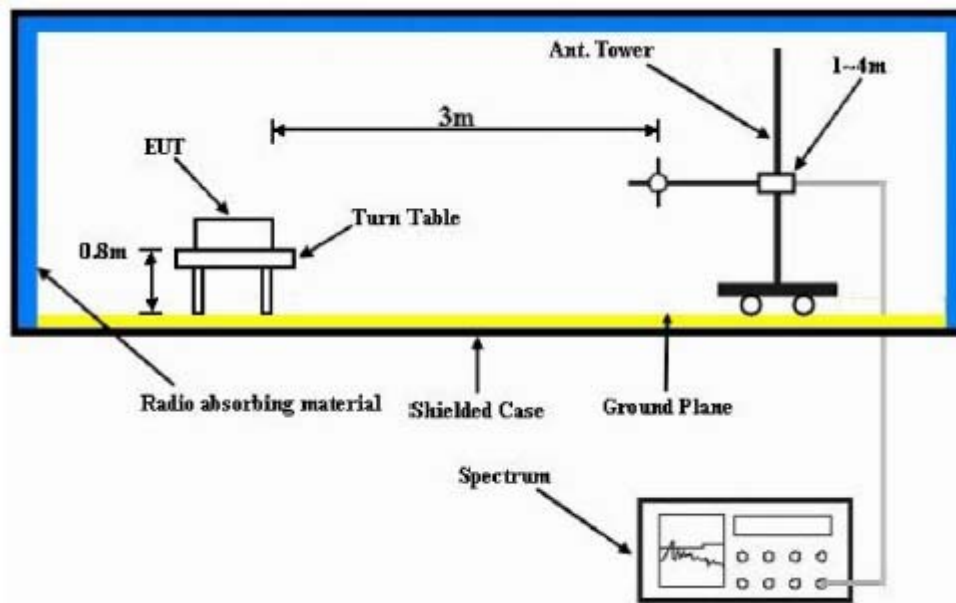
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

Channel Spacing	Part 22	Part 24D	Part 74	Part 80	Part 90 (UHF, VHF, 800, 900)	Part 90 (700)
12.5kHz	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	Not Applicable	50 + log ₁₀ (P) (-20 dBm)	43 + log ₁₀ (P) (-13 dBm)
25kHz		Not Applicable		43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)

Channel Spacing	RSS 134	RSS 182	RSS 119 (UHF, VHF, 800, 900)	RSS 119 (700)
12.5kHz	43 + log ₁₀ (P) (-13 dBm)	Not Applicable	50 + log ₁₀ (P) (-20 dBm)	43 + log ₁₀ (P) (-13 dBm)
25kHz	Not Applicable	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)

5.15. Effective Radiated Power (ERP)

5.15.1. Test Setup



- 1) The Resolution Bandwidth for Equivalent Radiated Power (ERP) below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for EIRP above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector Mode is RMS.
- 2) In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height of Turn Table, rotated the table 45 degree each interval 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 for each degree interval. The “Read Value” is the spectrum reading of maximum power value.
- 3) The substitution antenna is substituted for DUT 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.

5.15.2. Test Result

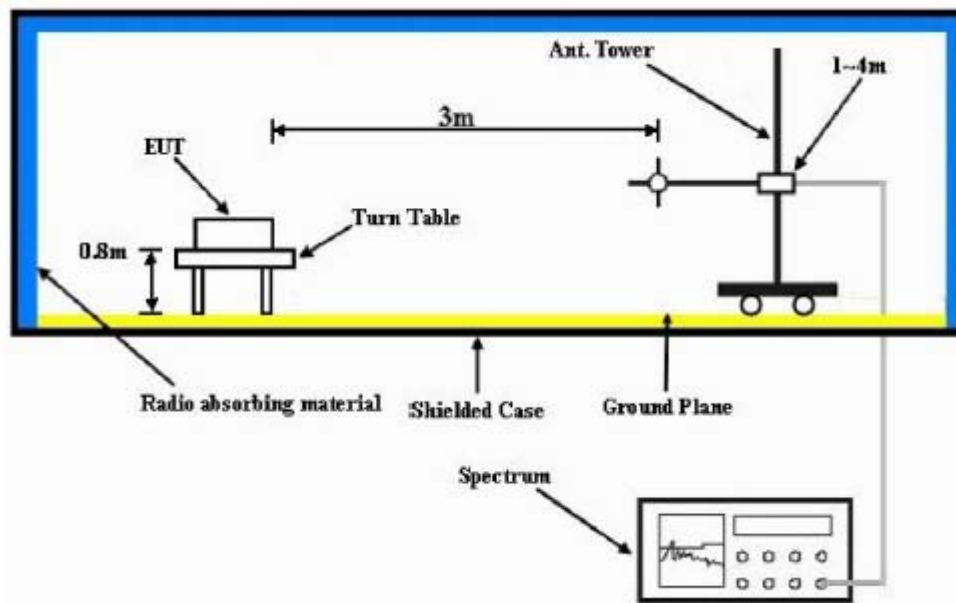
NA → Not Applicable

5.15.3. Test Limit

The maximum output power of the transmitter for mobile stations is 100 watts (20 dB). Power is given in terms of effective radiated power (ERP).

5.16. GNSS (EIRP for 1559 - 1610MHz)

5.16.1. Test Setup



- 4) The Resolution Bandwidth for Equivalent Isotropically Radiated Power (EIRP) below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for EIRP above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector Mode is RMS.
- 5) In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height of Turn Table, rotated the table 45 degree each interval 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 for each degree interval. The “Read Value” is the spectrum reading of maximum power value.
- 6) The substitution antenna is substituted for DUT 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.
- 7) $EIRP = \text{“Read Value”} + \text{Measured substitution value} + 2.15$.

5.16.1. Test Result

NA → Not Applicable

5.16.2. Test Limit

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

~ End of Report ~