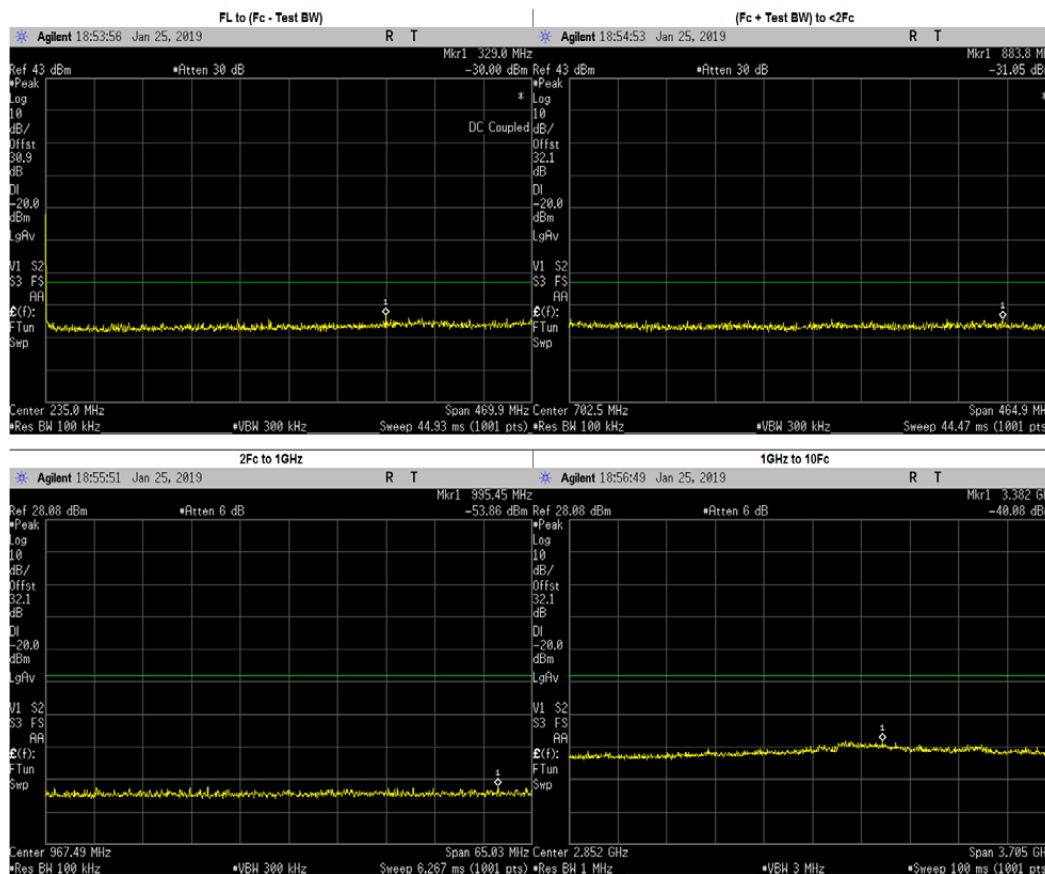
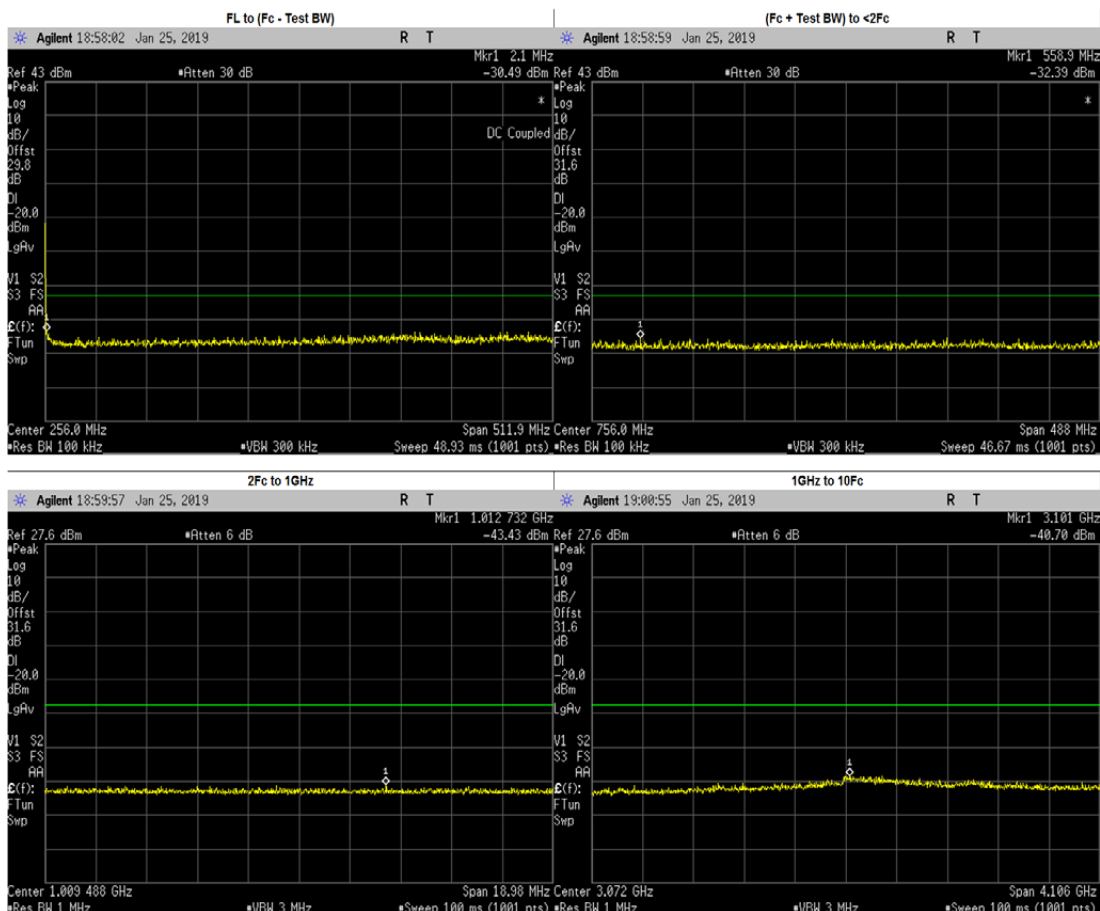


Digital: 469.9875 MHz, 12.5kHz Channel Spacing, Low Power



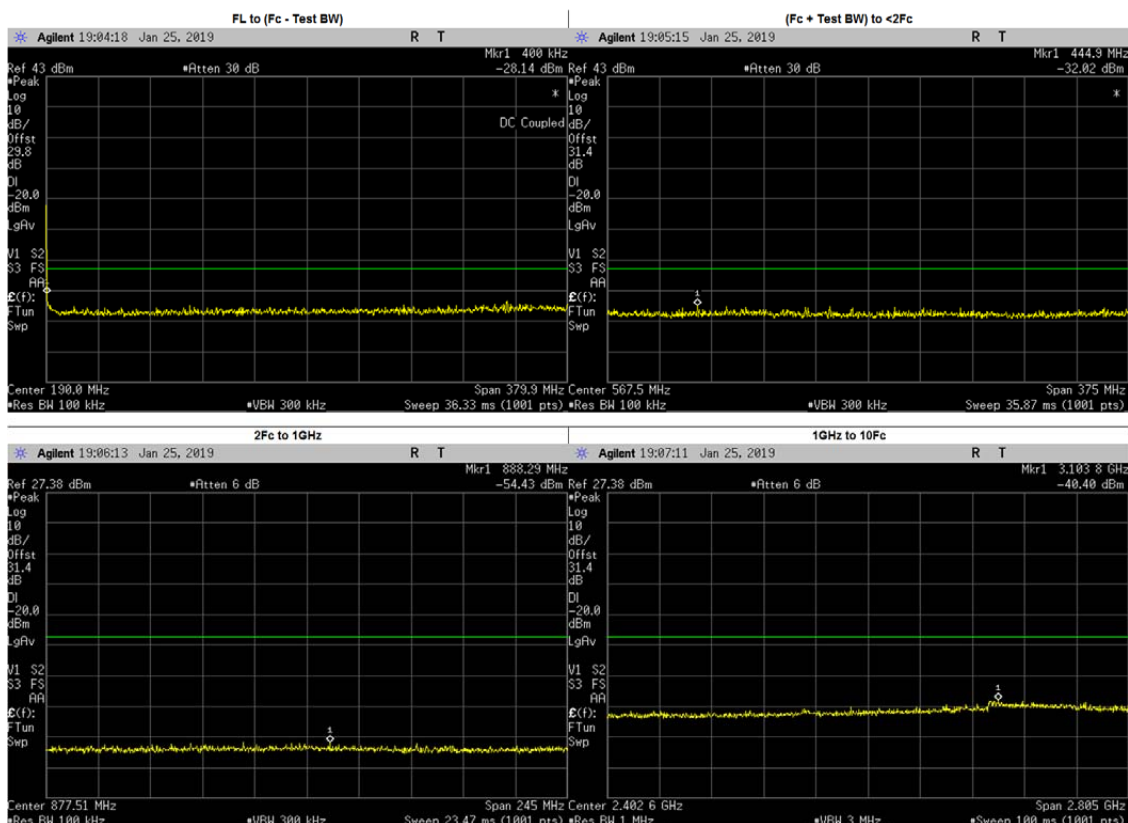
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	328.9542	-30.00	-20	PASS
(Fc + Test BW) to <2Fc	883.8326	-31.05	-20	PASS
2Fc to 1GHz	995.4483	-53.86	-20	PASS
	939.9750	-57.12	-20	PASS
1GHz to 10Fc	3382.2350	-40.08	-20	PASS
	1409.9630	-45.04	-20	PASS
	1879.9500	-44.28	-20	PASS
	2349.9370	-44.10	-20	PASS
	2819.9250	-43.06	-20	PASS
	3289.9120	-41.18	-20	PASS
	3759.9000	-42.84	-20	PASS
	4229.8870	-43.87	-20	PASS
	4699.8750	-44.12	-20	PASS

Digital: 511.9875 MHz, 12.5kHz Channel Spacing, Low Power



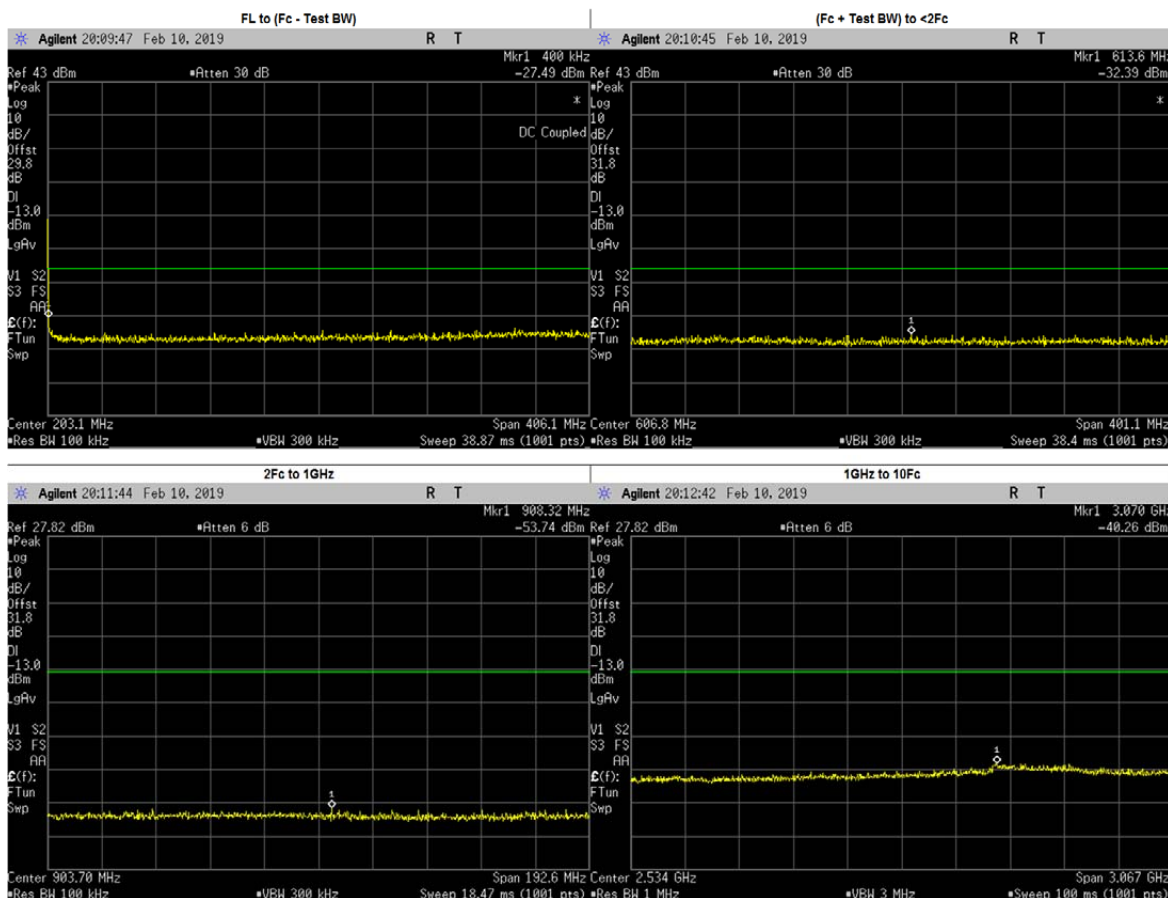
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	2.100	-30.49	-20	PASS
(Fc + Test BW) to <2Fc	558.8880	-32.39	-20	PASS
2Fc to 1GHz	1012.7320	-43.43	-20	PASS
1GHz to 10Fc	3100.6660	-40.70	-20	PASS
	1023.9750	-45.73	-20	PASS
	1535.9630	-45.22	-20	PASS
	2047.9500	-44.38	-20	PASS
	2559.9370	-44.49	-20	PASS
	3071.9250	-40.81	-20	PASS
	3583.9120	-43.11	-20	PASS
	4095.9000	-43.08	-20	PASS
	4607.8870	-44.27	-20	PASS
	5119.8750	-44.42	-20	PASS

Phase II: 380.0125 MHz, 12.5kHz Channel Spacing, Max Power
(Not For FCC Review)



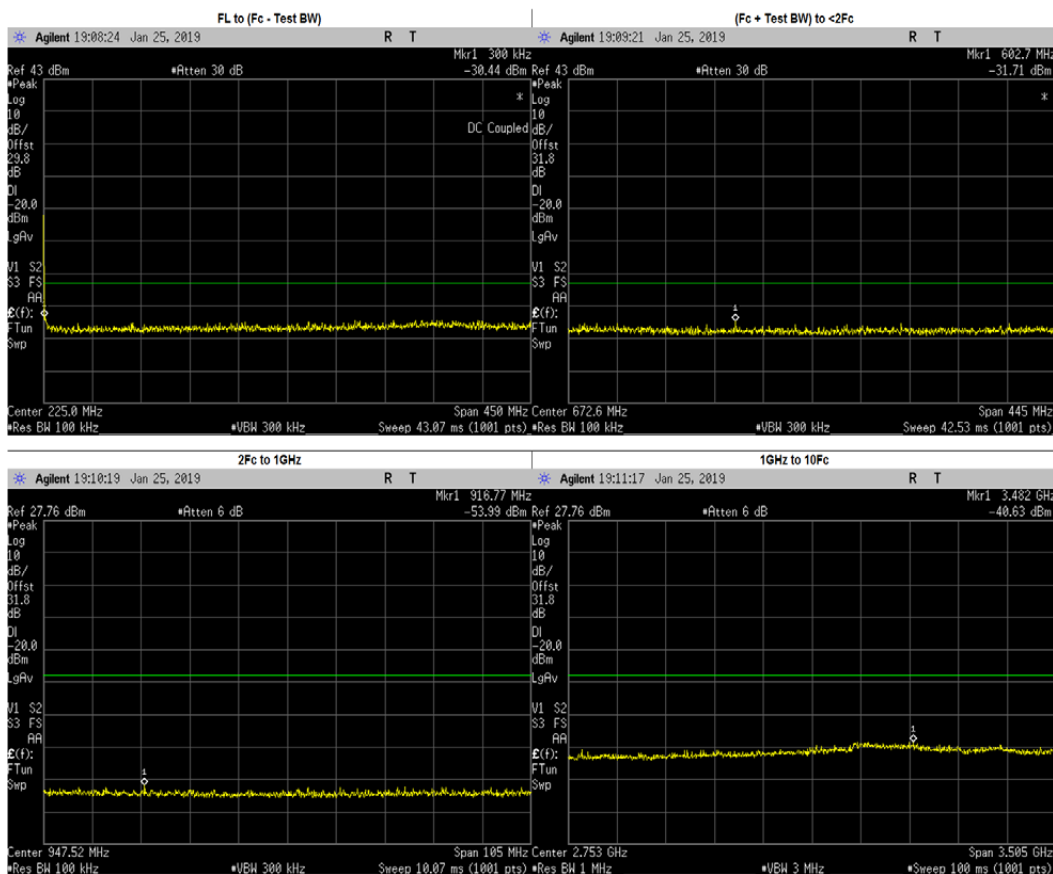
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	335.8829	-29.40	-20	PASS
(Fc + Test BW) to <2Fc	444.9357	-32.02	-20	PASS
2Fc to 1GHz	888.2914	-54.43	-20	PASS
	760.0250	-57.31	-20	PASS
1GHz to 10Fc	3103.8440	-40.40	-20	PASS
	1140.0370	-45.34	-20	PASS
	1520.0500	-45.45	-20	PASS
	1900.0620	-44.69	-20	PASS
	2280.0750	-44.52	-20	PASS
	2660.0880	-43.77	-20	PASS
	3040.1000	-43.02	-20	PASS
	3420.1130	-42.98	-20	PASS
	3800.1250	-42.64	-20	PASS

Phase II: 406.2 MHz, 12.5kHz Channel Spacing, Max Power



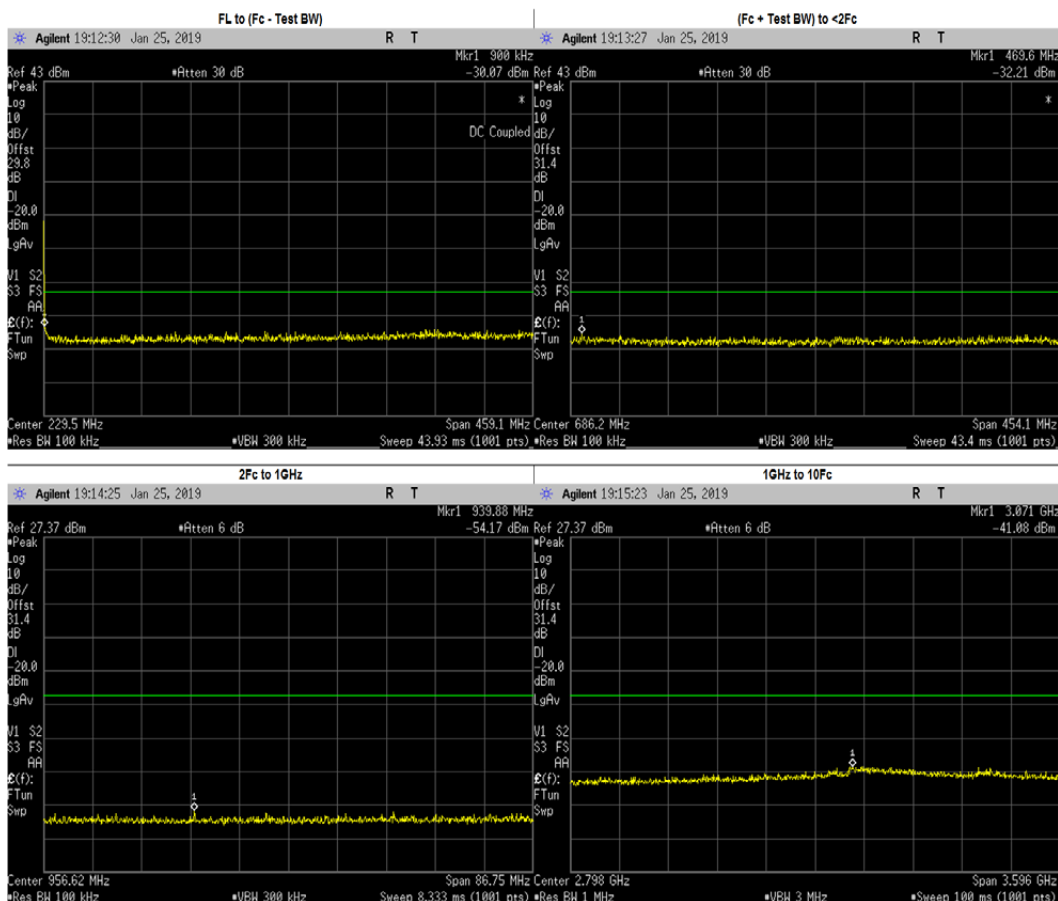
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	350.0977	-29.27	-13	PASS
(Fc + Test BW) to <2Fc	613.6473	-32.39	-13	PASS
2Fc to 1GHz	908.3224	-53.74	-13	PASS
	812.4000	-55.51	-13	PASS
1GHz to 10Fc	3070.2250	-40.26	-13	PASS
	1218.6000	-44.69	-13	PASS
	1624.8000	-45.40	-13	PASS
	2031.0000	-44.76	-13	PASS
	2437.2000	-43.41	-13	PASS
	2843.4000	-42.80	-13	PASS
	3249.6000	-41.56	-13	PASS
	3655.8000	-42.41	-13	PASS
	4062.0000	-42.65	-13	PASS

Phase II: 450.025 MHz, 12.5kHz Channel Spacing, Max Power



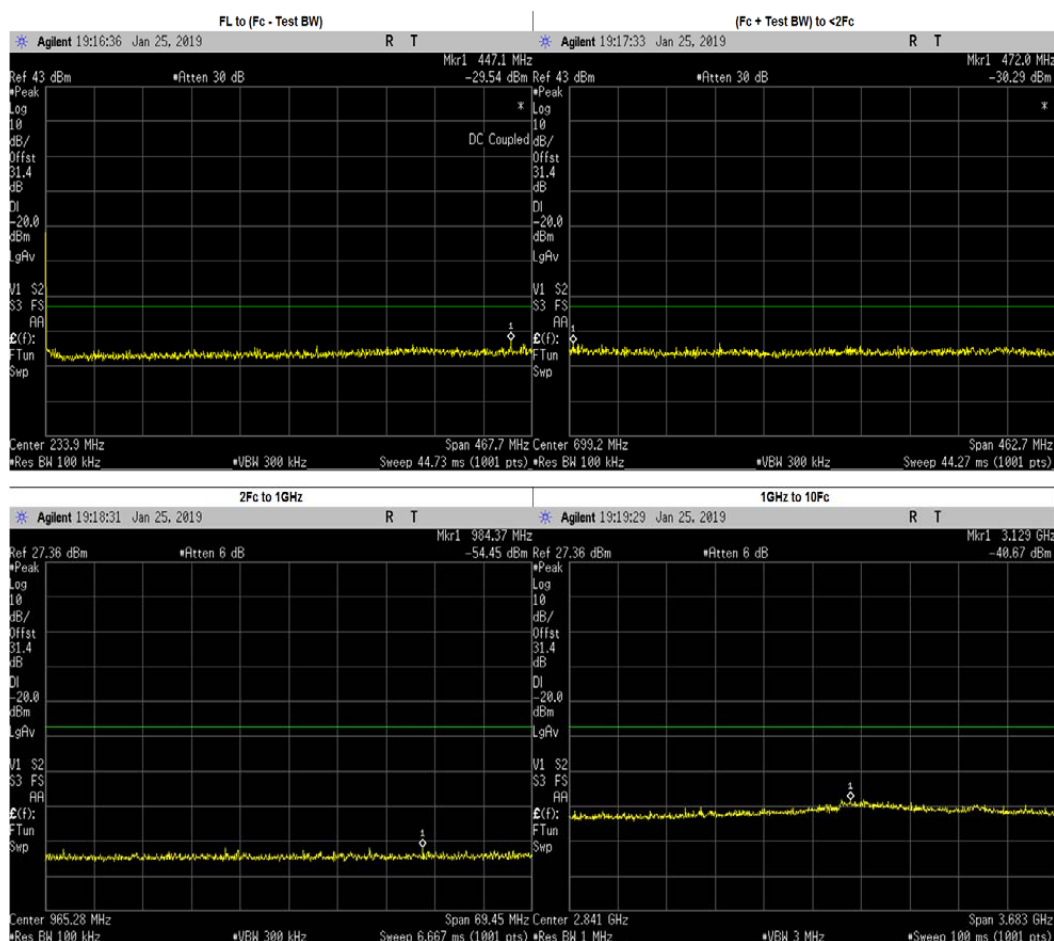
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	1.8088	-30.26	-20	PASS
(Fc + Test BW) to <2Fc	602.7059	-31.71	-20	PASS
2Fc to 1GHz	916.7746	-53.99	-20	PASS
	900.0500	-56.12	-20	PASS
1GHz to 10Fc	3481.7170	-40.63	-20	PASS
	1350.0750	-45.22	-20	PASS
	1800.1000	-45.08	-20	PASS
	2250.1250	-44.80	-20	PASS
	2700.1500	-43.64	-20	PASS
	3150.1750	-41.48	-20	PASS
	3600.2000	-42.76	-20	PASS
	4050.2250	-42.97	-20	PASS
	4500.2500	-43.41	-20	PASS

Phase II: 459.125 MHz, 12.5kHz Channel Spacing, Max Power



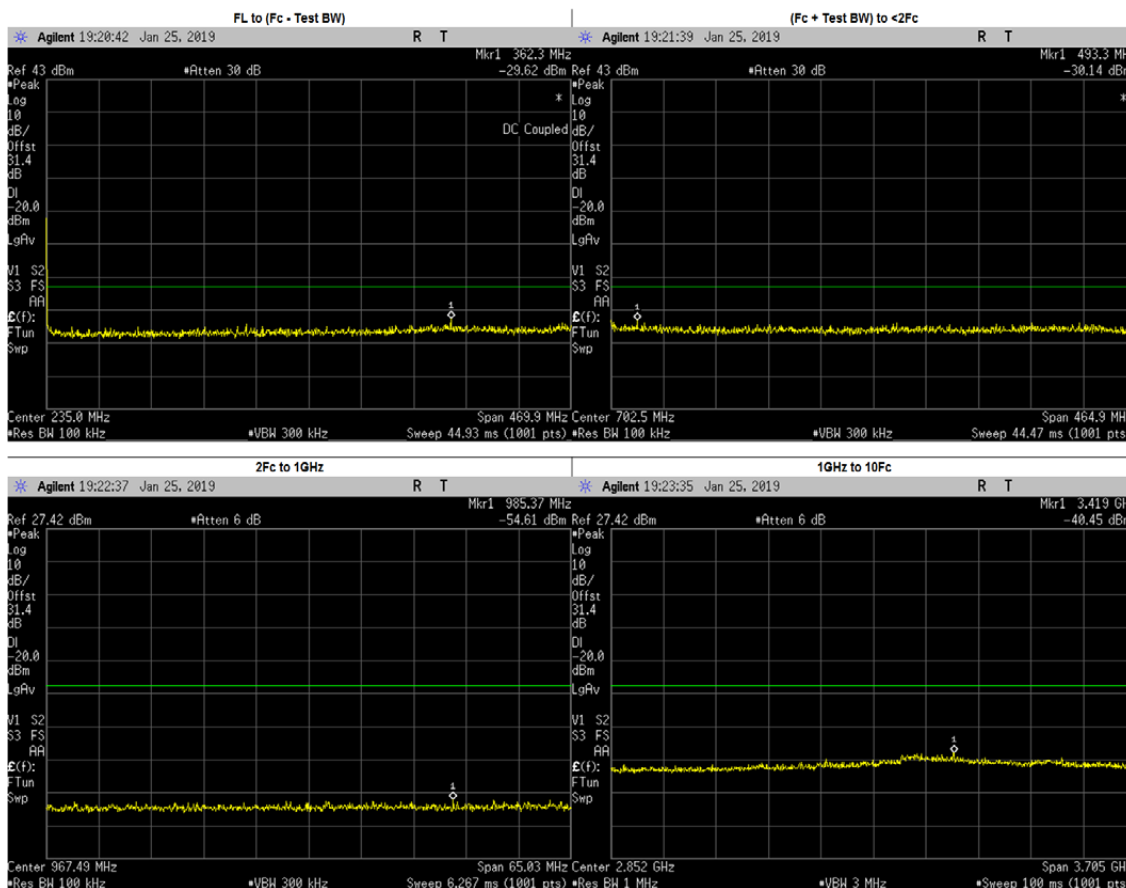
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	369.5517	-29.64	-20	PASS
(Fc + Test BW) to <2Fc	469.6254	-32.21	-20	PASS
2Fc to 1GHz	939.8822	-54.17	-20	PASS
	918.2500	-56.68	-20	PASS
1GHz to 10Fc	3071.4400	-41.08	-20	PASS
	1377.3750	-46.08	-20	PASS
	1836.5000	-44.67	-20	PASS
	2295.6250	-45.49	-20	PASS
	2754.7500	-44.58	-20	PASS
	3213.8750	-41.46	-20	PASS
	3673.0000	-43.00	-20	PASS
	4132.1250	-43.48	-20	PASS
	4591.2500	-43.70	-20	PASS

Phase II: 467.775 MHz, 12.5kHz Channel Spacing, Max Power



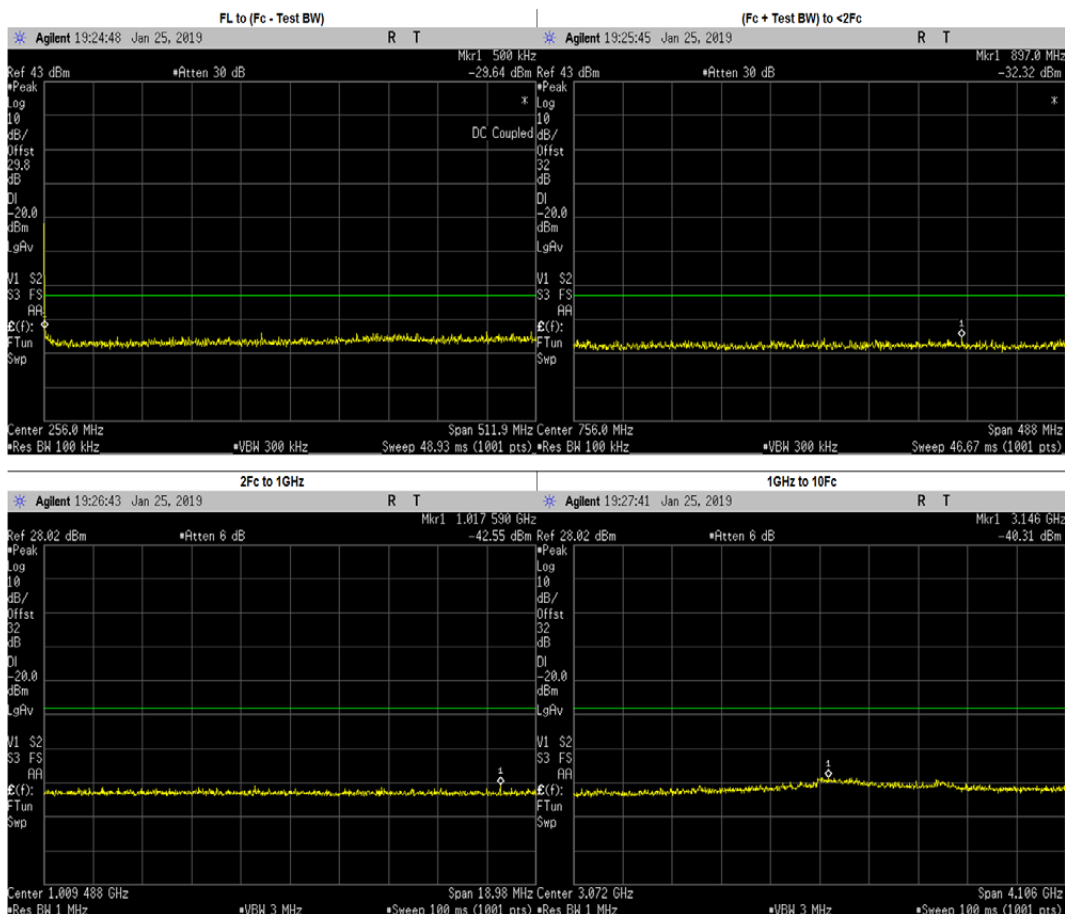
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	447.1390	-29.54	-20	PASS
(Fc + Test BW) to <2Fc	471.9963	-30.29	-20	PASS
2Fc to 1GHz	984.3737	-54.45	-20	PASS
	935.5500	-56.92	-20	PASS
1GHz to 10Fc	3128.6300	-40.66	-20	PASS
	1403.3250	-45.49	-20	PASS
	1871.1000	-45.45	-20	PASS
	2338.8750	-44.54	-20	PASS
	2806.6500	-43.78	-20	PASS
	3274.4250	-42.17	-20	PASS
	3742.2000	-43.74	-20	PASS
	4209.9750	-43.70	-20	PASS
	4677.7500	-45.09	-20	PASS

Phase II: 469.9875 MHz, 12.5kHz Channel Spacing, Max Power



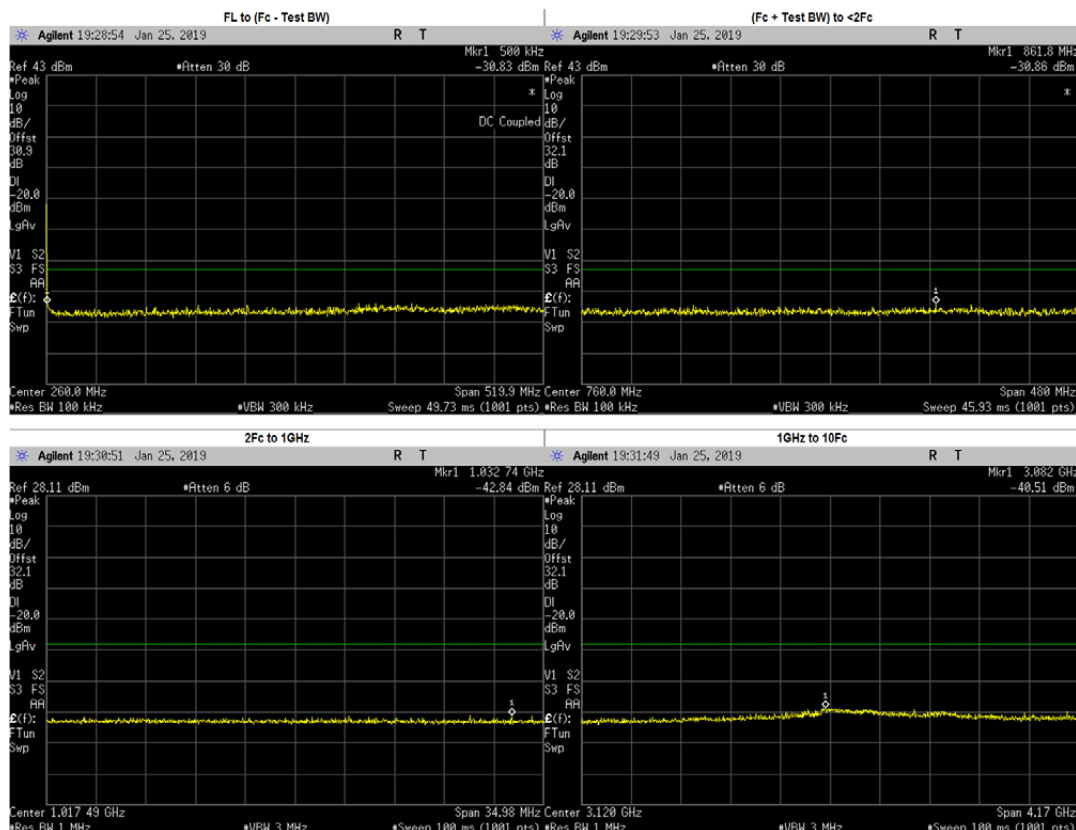
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	362.3186	-29.62	-20	PASS
(Fc + Test BW) to <2Fc	493.2908	-30.18	-20	PASS
2Fc to 1GHz	985.3694	-54.61	-20	PASS
	939.9750	-56.81	-20	PASS
1GHz to 10Fc	3419.2830	-40.45	-20	PASS
	1409.9630	-45.65	-20	PASS
	1879.9500	-44.97	-20	PASS
	2349.9370	-44.91	-20	PASS
	2819.9250	-44.06	-20	PASS
	3289.9120	-42.80	-20	PASS
	3759.9000	-43.33	-20	PASS
	4229.8870	-43.59	-20	PASS
	4699.8750	-44.74	-20	PASS

Phase II: 511.9875 MHz, 12.5kHz Channel Spacing, Max Power



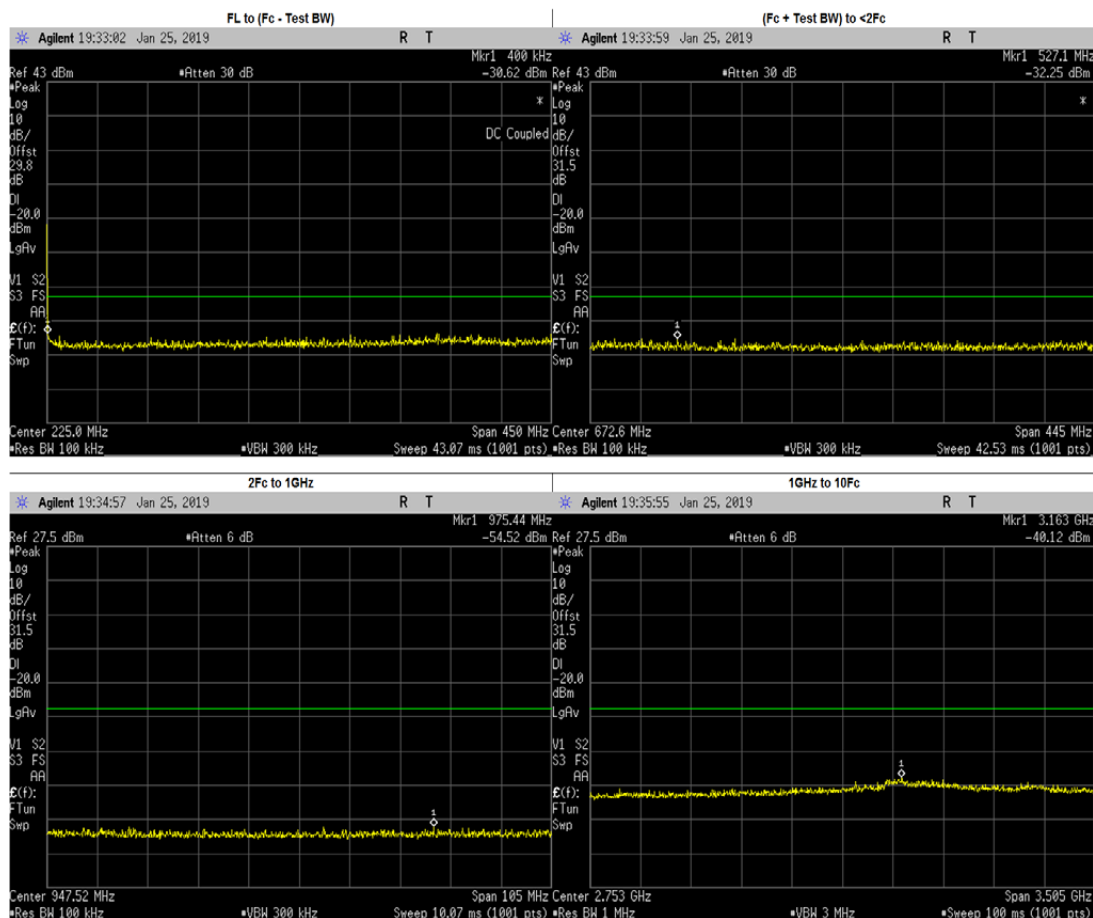
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	506.8115	-29.10	-20	PASS
(Fc + Test BW) to <2Fc	897.0413	-32.32	-20	PASS
2Fc to 1GHz	1017.5900	-42.55	-20	PASS
1GHz to 10Fc	3145.8310	-40.31	-20	PASS
	1023.9750	-45.15	-20	PASS
	1535.9630	-45.66	-20	PASS
	2047.9500	-44.15	-20	PASS
	2559.9370	-43.73	-20	PASS
	3071.9250	-41.06	-20	PASS
	3583.9120	-42.63	-20	PASS
	4095.9000	-41.86	-20	PASS
	4607.8870	-43.73	-20	PASS
	5119.8750	-43.86	-20	PASS

Phase II: 519.9875 MHz, 12.5kHz Channel Spacing, Max Power
(Not For FCC Review)



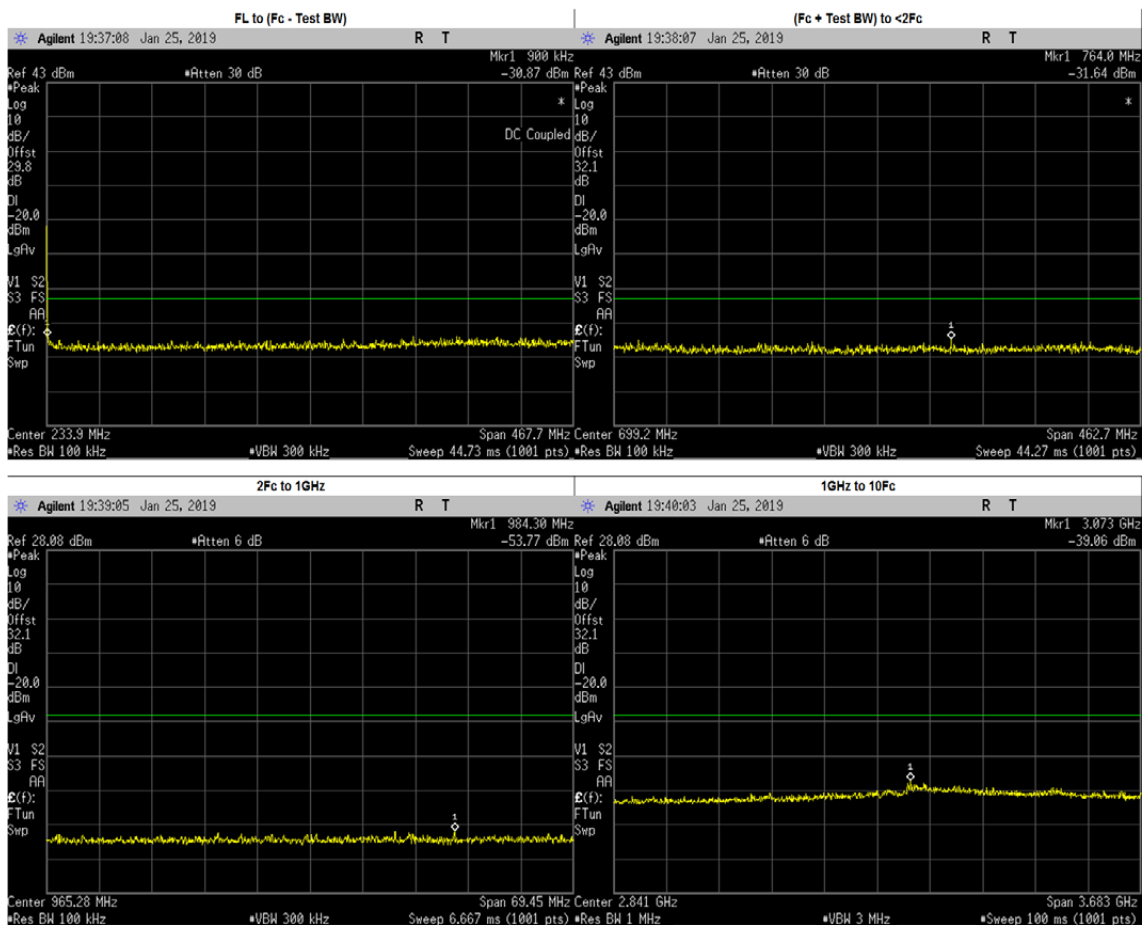
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	382.1514	-30.50	-20	PASS
(Fc + Test BW) to <2Fc	861.7728	-30.86	-20	PASS
2Fc to 1GHz	1032.7370	-42.84	-20	PASS
1GHz to 10Fc	3082.3960	-40.51	-20	PASS
	1039.9750	-44.17	-20	PASS
	1559.9630	-44.74	-20	PASS
	2079.9500	-44.25	-20	PASS
	2599.9370	-43.80	-20	PASS
	3119.9250	-41.58	-20	PASS
	3639.9120	-42.67	-20	PASS
	4159.9000	-42.70	-20	PASS
	4679.8870	-43.75	-20	PASS
	5199.8750	-43.59	-20	PASS

Phase II: 450.025 MHz, 12.5kHz Channel Spacing, Low Power



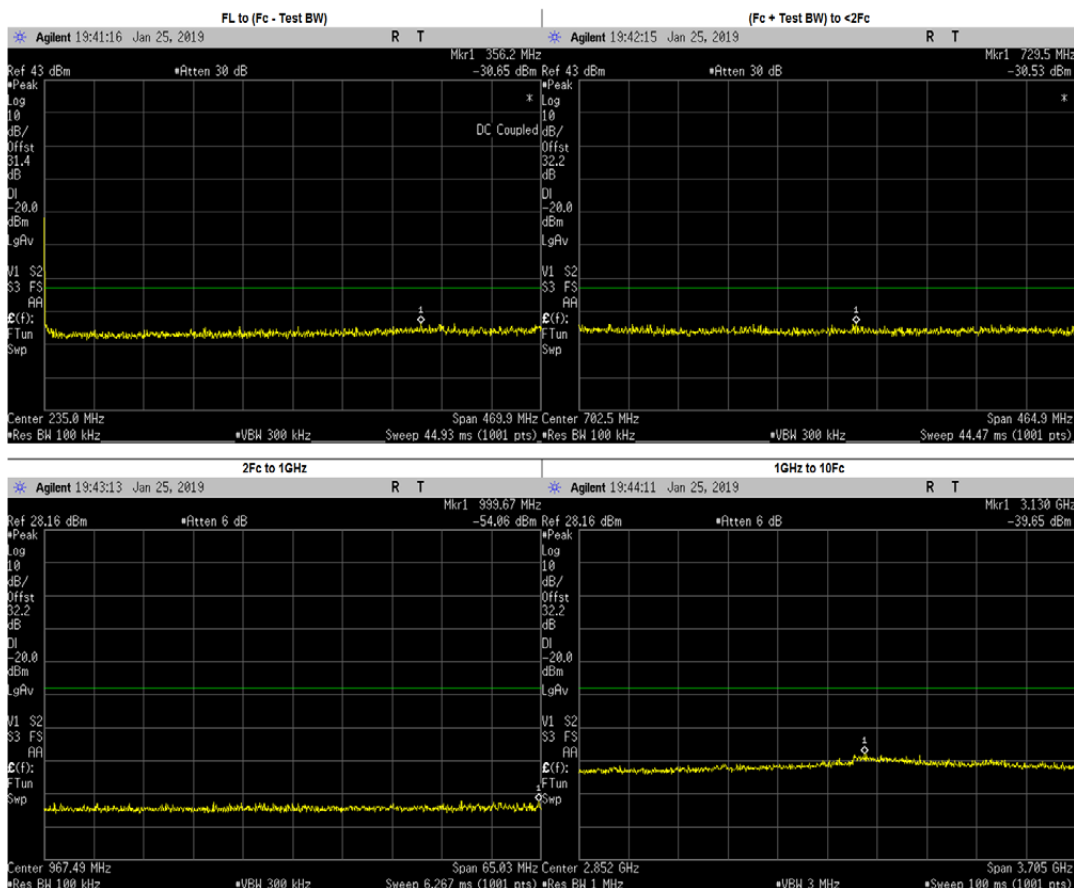
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	347.8275	-29.34	-20	PASS
(Fc + Test BW) to <2Fc	527.0613	-32.25	-20	PASS
2Fc to 1GHz	975.4417	-54.52	-20	PASS
	900.0500	-56.63	-20	PASS
1GHz to 10Fc	3162.7390	-40.12	-20	PASS
	1350.0750	-45.77	-20	PASS
	1800.1000	-45.36	-20	PASS
	2250.1250	-45.41	-20	PASS
	2700.1500	-44.13	-20	PASS
	3150.1750	-41.64	-20	PASS
	3600.2000	-42.80	-20	PASS
	4050.2250	-43.50	-20	PASS
	4500.2500	-43.89	-20	PASS

Phase II: 467.775 MHz, 12.5kHz Channel Spacing, Low Power



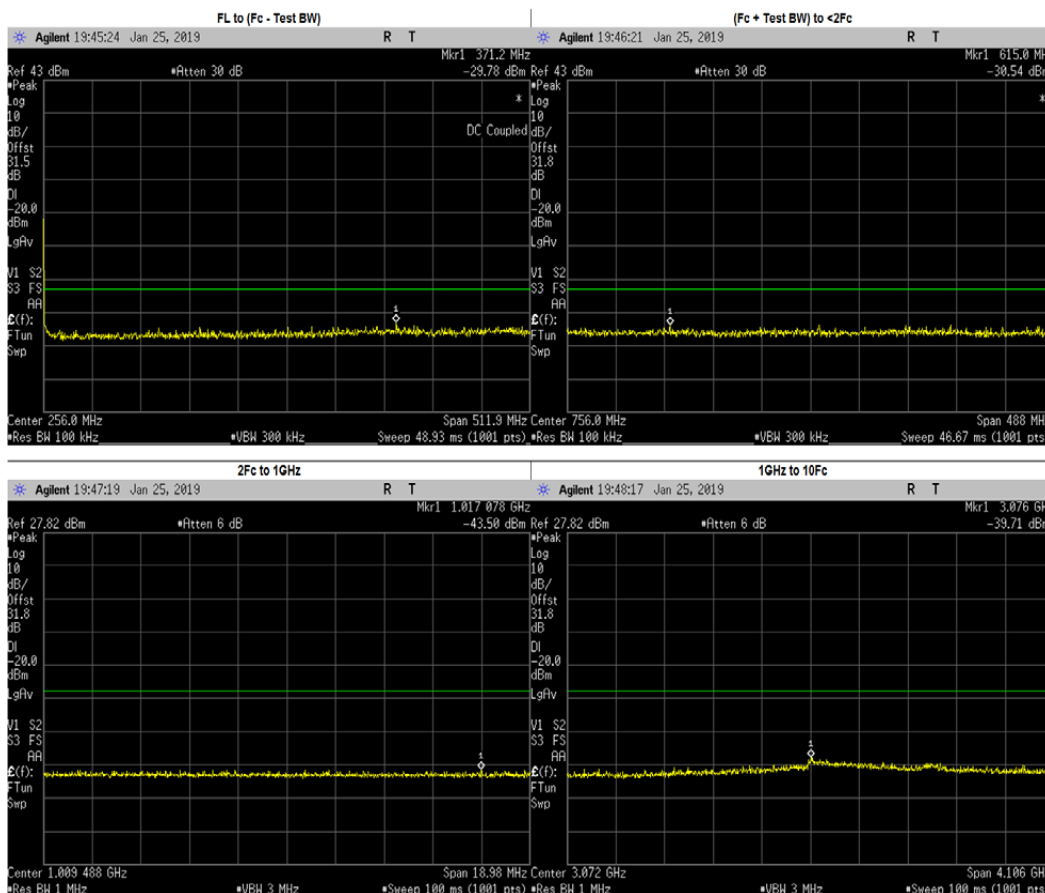
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	364.3545	-29.52	-20	PASS
(Fc + Test BW) to <2Fc	763.9714	-31.64	-20	PASS
2Fc to 1GHz	984.3043	-53.77	-20	PASS
	935.5500	-55.99	-20	PASS
1GHz to 10Fc	1403.3250	-44.55	-20	PASS
	1871.1000	-44.80	-20	PASS
	2338.8750	-44.18	-20	PASS
	2806.6500	-43.02	-20	PASS
	3274.4250	-41.63	-20	PASS
	3742.2000	-42.56	-20	PASS
	4209.9750	-43.13	-20	PASS
	4677.7500	-43.61	-20	PASS
	3073.3880	-39.06	-20	PASS

Phase II: 469.9875 MHz, 12.5kHz Channel Spacing, Low Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	356.200	-30.65	-20	PASS
(Fc + Test BW) to <2Fc	729.4756	-30.53	-20	PASS
2Fc to 1GHz	999.6749	-54.06	-20	PASS
	939.9750	-57.01	-20	PASS
1GHz to 10Fc	1409.9630	-44.53	-20	PASS
	1879.9500	-44.73	-20	PASS
	2349.9370	-43.45	-20	PASS
	2819.9250	-42.78	-20	PASS
	3289.9120	-41.41	-20	PASS
	3759.9000	-42.23	-20	PASS
	4229.8870	-42.97	-20	PASS
	4699.8750	-43.89	-20	PASS
	3130.3030	-39.65	-20	PASS

Phase II: 511.9875 MHz, 12.5kHz Channel Spacing, Low Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	371.1522	-29.78	-20	PASS
(Fc + Test BW) to <2Fc	615.0030	-30.54	-20	PASS
2Fc to 1GHz	1017.0780	-43.50	-20	PASS
1GHz to 10Fc	3076.0310	-39.71	-20	PASS
	1023.9750	-45.35	-20	PASS
	1535.9630	-45.43	-20	PASS
	2047.9500	-44.56	-20	PASS
	2559.9370	-43.01	-20	PASS
	3071.9250	-41.53	-20	PASS
	3583.9120	-41.86	-20	PASS
	4095.9000	-42.00	-20	PASS
	4607.8870	-44.32	-20	PASS
	5119.8750	-43.22	-20	PASS

6.12.4. Test Limit

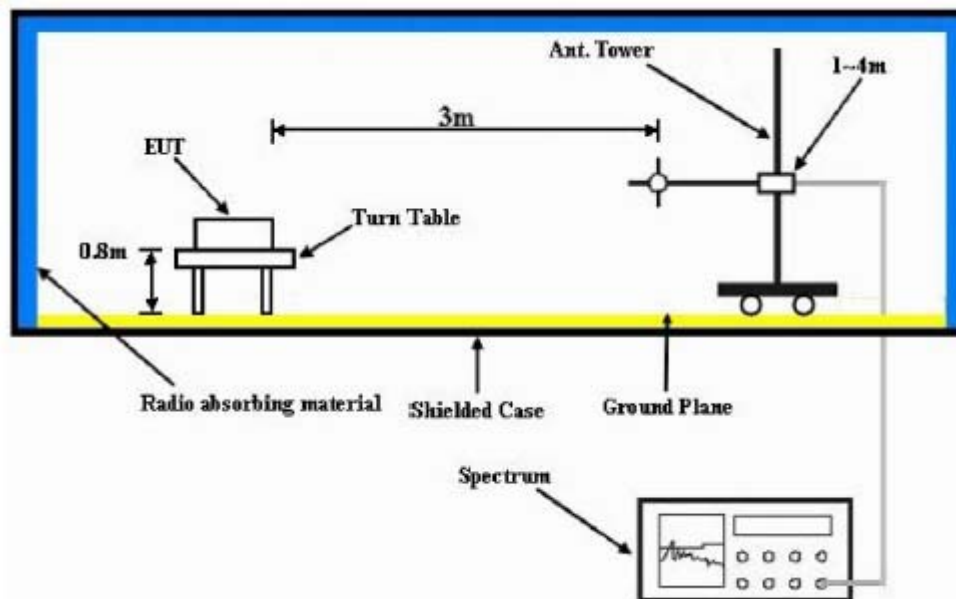
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

Channel Spacing	Part 22	Part 24D	Part 74	Part 80	Part 90 (UHF, VHF, 800, 900)	Part 90 (700)
12.5kHz	43 + 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)

6.13. Radiated Spurious Emission

6.13.1. Test Setup



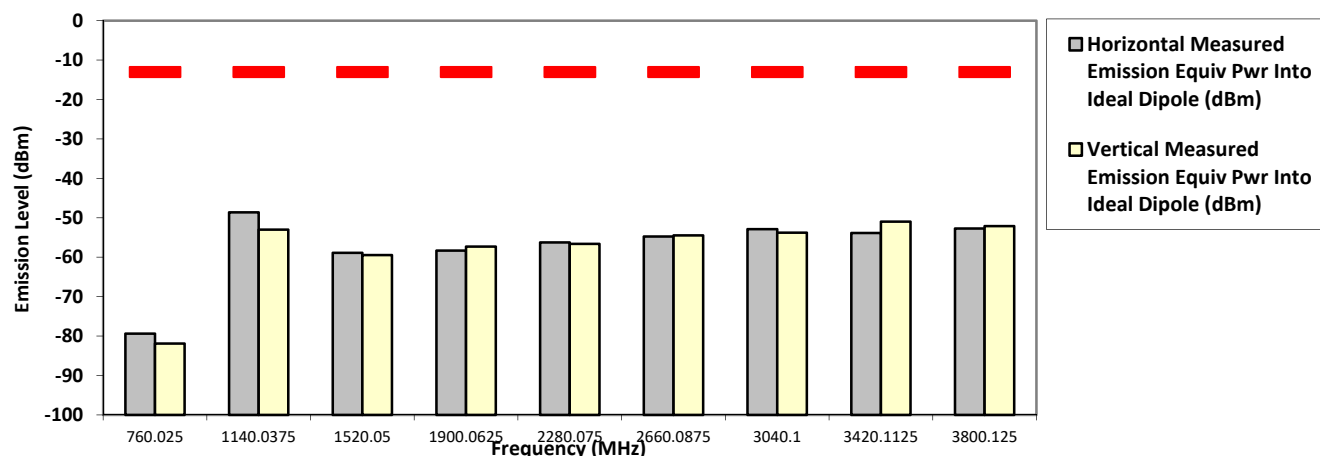
- 1) The Resolution Bandwidth for scanning Radiated Emission below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector mode is positive peak.
- 2) In the semi- anechoic chamber, setup as illustrated above the DUT placed 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.

6.13.2. Test Result (Analog)

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN S/N: 437TUX0086 SR:12464-EMC-00068
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX Analog
380.012500 MHz 25 kHz 1.000 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	-79.3667 **	-81.9029 **
1140.0375	-13.0000	-48.6400 *	-53.0100 *
1520.0500	-13.0000	-58.8784 **	-59.4692 **
1900.0625	-13.0000	-58.3238 **	-57.2900 **
2280.0750	-13.0000	-56.2487 **	-56.6106 **
2660.0875	-13.0000	-54.7457 **	-54.4713 **
3040.1000	-13.0000	-52.8637 **	-53.7807 **
3420.1125	-13.0000	-53.8518 **	-50.9821 **
3800.1250	-13.0000	-52.7151 **	-52.1016 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

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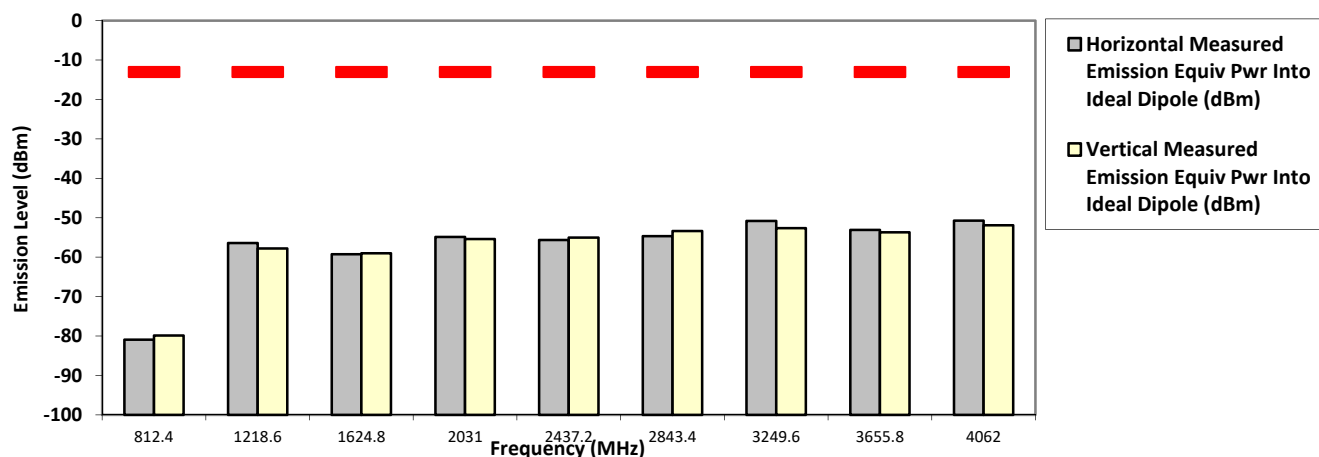
5.700 Watt(s) /Max Power

SAC Transmitter Radiated Emission:

Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX Analog
406.200000 MHz **25 kHz** **1.000 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	-80.9376 **	-79.8796 **
1218.6000	-13.0000	-56.3982 **	-57.8116 **
1624.8000	-13.0000	-59.2348 **	-59.0193 **
2031.0000	-13.0000	-54.8652 **	-55.3887 **
2437.2000	-13.0000	-55.6211 **	-55.0203 **
2843.4000	-13.0000	-54.6800 **	-53.3630 **
3249.6000	-13.0000	-50.8039 **	-52.6538 **
3655.8000	-13.0000	-53.0903 **	-53.6863 **
4062.0000	-13.0000	-50.7293 **	-51.8993 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

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

[illegible]

Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)

Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)

Frequency (MHz)	Horizontal Measured (dBm)	Vertical Measured (dBm)
812.4	-82	-82
1218.6	-38	-41
1624.8	-59	-59
2031	-56	-56
2437.2	-57	-56
2843.4	-55	-55
3249.6	-52	-52
3655.8	-53	-54
4062	-52	-51

Passed Results	Marginal Results	Failed Results
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[illegible]

The chart displays the emission level in dBm across various frequencies in MHz. The y-axis ranges from -100 to 0 dBm, and the x-axis shows frequencies from 900.05 to 4500.25 MHz. A red dashed line is positioned at -12.5 dBm, and a yellow shaded region is located between -50 and -60 dBm. 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)'.

Frequency (MHz)	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
900.05	-81	-82
1350.075	-58	-60
1800.1	-58	-58
2250.125	-57	-57
2700.15	-55	-55
3150.175	-52	-52
3600.2	-55	-53
4050.225	-51	-51
4500.25	-51	-50

Passed Results	Marginal Results	Failed Results
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[illegible]

The chart displays the measured emission levels for a device under test (DUT) across various frequencies. The y-axis represents the Emission Level in dBm, ranging from -100 to 0. The x-axis represents the Frequency in MHz, with values: 900.05, 1350.075, 1800.1, 2250.125, 2700.15, 3150.175, 3600.2, 4050.225, and 4500.25. Two data series are shown: Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm) (gray bars) and Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm) (yellow bars). A red dashed line indicates a limit at -12.5 dBm.

Frequency (MHz)	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
900.05	-82	-82
1350.075	-43	-51
1800.1	-50	-55
2250.125	-57	-57
2700.15	-55	-54
3150.175	-53	-54
3600.2	-55	-54
4050.225	-51	-51
4500.25	-51	-49

Passed Results	Marginal Results	Failed Results
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[illegible]

The chart displays the measured emission levels for horizontal and vertical polarization at various frequencies. The horizontal measured power is consistently higher than the vertical measured power across all frequencies. The red dashed line at -12.5 dBm represents the limit for the horizontal measured power, and the yellow dashed line at -50 dBm represents the limit for the vertical measured power.

Frequency (MHz)	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
918.25	-80	-82
1377.375	-60	-59
1836.5	-58	-57
2295.625	-56	-57
2754.75	-56	-55
3213.875	-52	-52
3673	-53	-54
4132.125	-51	-51
4591.25	-51	-50

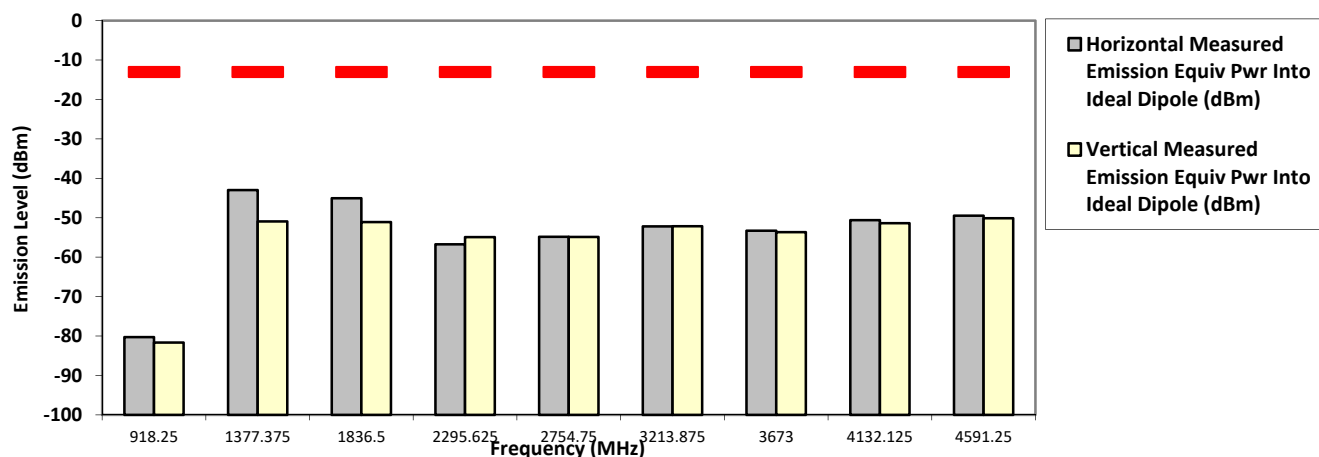
Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX Analog
459.125000 MHz **25 kHz** **5.700 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)
918.2500	-13.0000	-80.2643 **	-81.6527 **
1377.3750	-13.0000	-43.0000 *	-50.9500 *
1836.5000	-13.0000	-45.0300 *	-51.1000 *
2295.6250	-13.0000	-56.7484 **	-54.9113 **
2754.7500	-13.0000	-54.8466 **	-54.8741 **
3213.8750	-13.0000	-52.1988 **	-52.1442 **
3673.0000	-13.0000	-53.2792 **	-53.6553 **
4132.1250	-13.0000	-50.6172 **	-51.3688 **
4591.2500	-13.0000	-49.4914 **	-50.1052 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

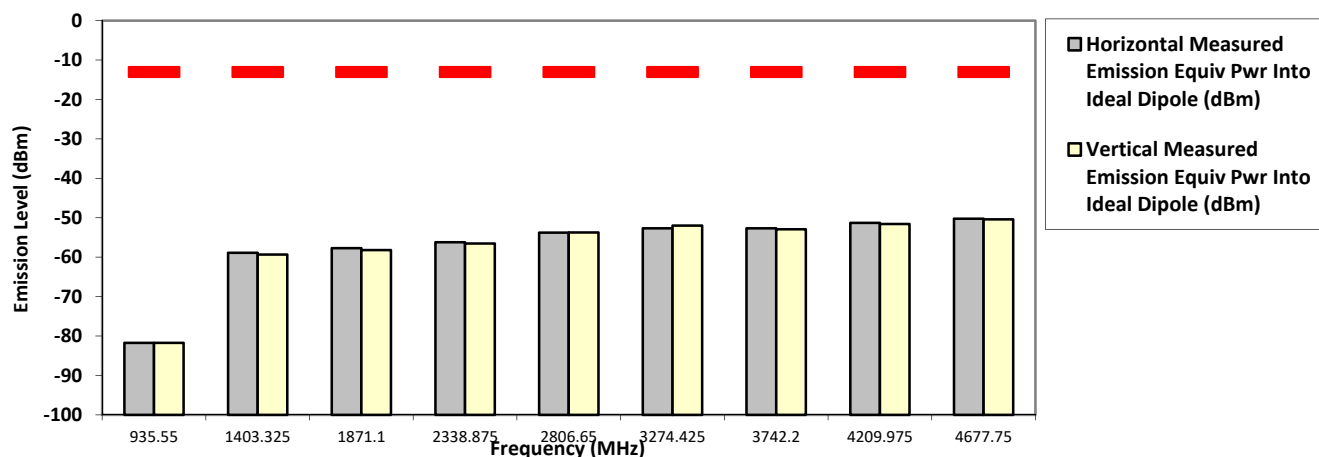
Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX Analog
467.775000 MHz **25 kHz** **1.000 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)
935.5500	-13.0000	-81.7310 **	-81.7310 **
1403.3250	-13.0000	-58.8894 **	-59.3442 **
1871.1000	-13.0000	-57.7075 **	-58.1812 **
2338.8750	-13.0000	-56.2087 **	-56.5401 **
2806.6500	-13.0000	-53.7806 **	-53.7419 **
3274.4250	-13.0000	-52.6614 **	-51.9838 **
3742.2000	-13.0000	-52.6767 **	-52.9076 **
4209.9750	-13.0000	-51.3146 **	-51.5773 **
4677.7500	-13.0000	-50.2617 **	-50.4196 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

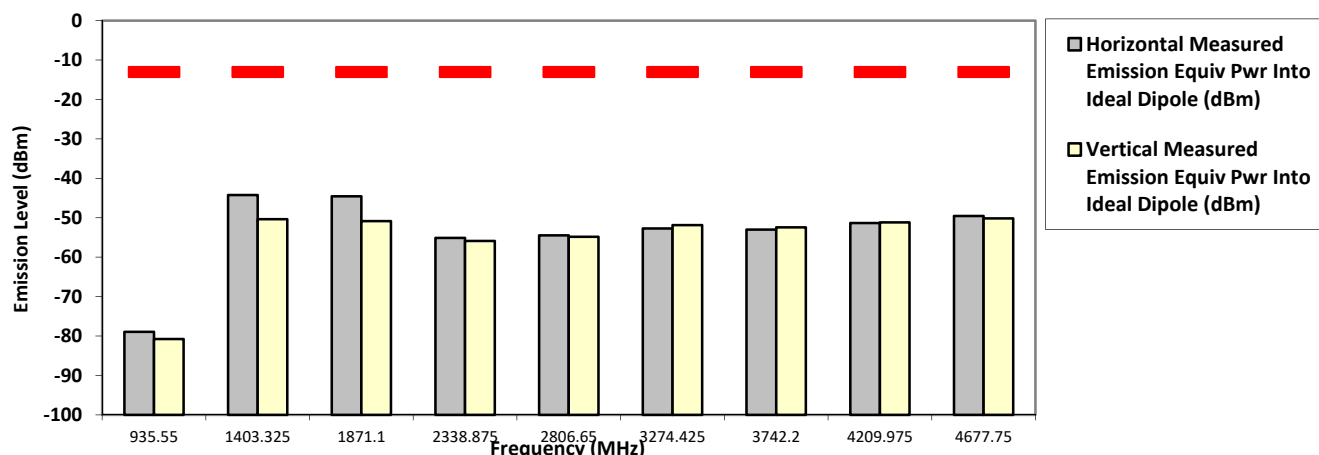
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX Analog
467.775000 MHz **25 kHz** **5.700 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)
935.5500	-13.0000	-78.9274 **	-80.7746 **
1403.3250	-13.0000	-44.2200 *	-50.3500 *
1871.1000	-13.0000	-44.5800 *	-50.8400 *
2338.8750	-13.0000	-55.0985 **	-55.8711 **
2806.6500	-13.0000	-54.4480 **	-54.8336 **
3274.4250	-13.0000	-52.7023 **	-51.8644 **
3742.2000	-13.0000	-53.0168 **	-52.4471 **
4209.9750	-13.0000	-51.3370 **	-51.1960 **
4677.7500	-13.0000	-49.5601 **	-50.1747 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

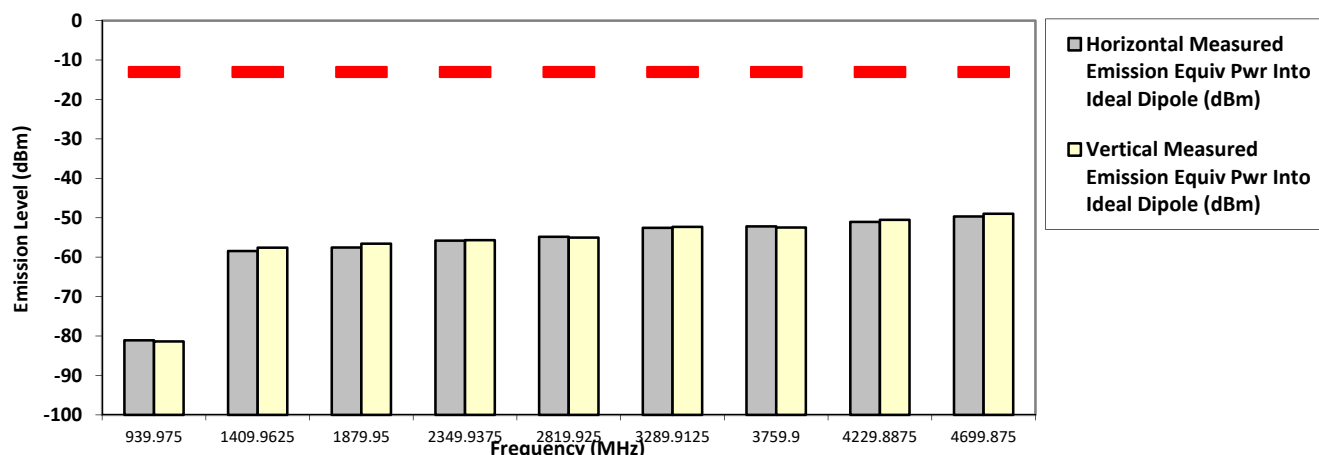
Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX Analog
469.987500 MHz **25 kHz** **1.000 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)
939.9750	-13.0000	-81.0849 **	-81.3687 **
1409.9625	-13.0000	-58.4544 **	-57.6034 **
1879.9500	-13.0000	-57.5427 **	-56.5575 **
2349.9375	-13.0000	-55.7973 **	-55.6734 **
2819.9250	-13.0000	-54.8116 **	-55.0441 **
3289.9125	-13.0000	-52.5662 **	-52.3010 **
3759.9000	-13.0000	-52.1796 **	-52.4955 **
4229.8875	-13.0000	-51.0527 **	-50.5241 **
4699.8750	-13.0000	-49.6662 **	-48.9934 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

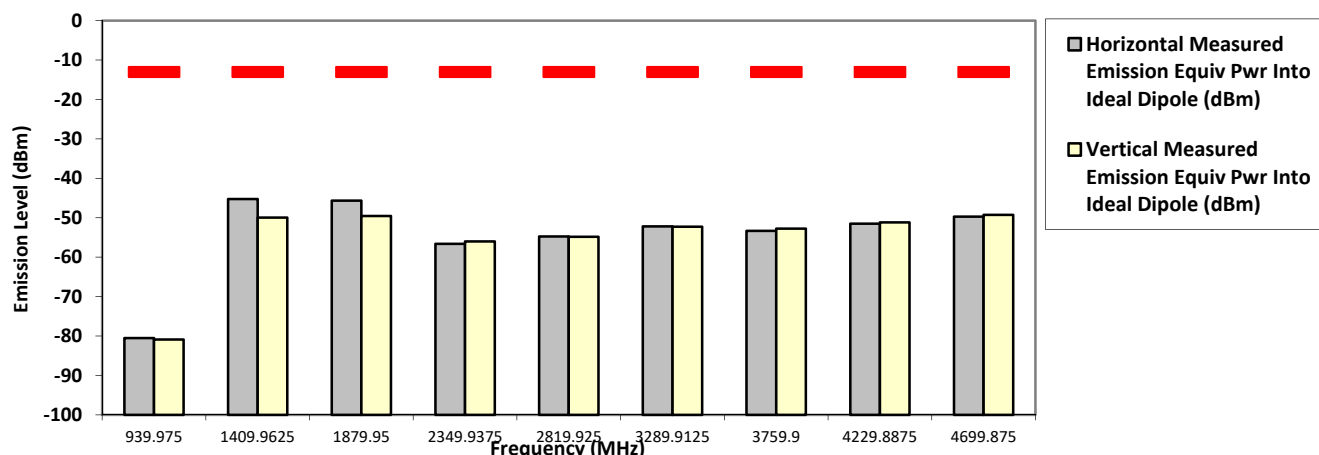
Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX Analog
469.987500 MHz **25 kHz** **5.700 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)
939.9750	-13.0000	-80.5098 **	-80.8681 **
1409.9625	-13.0000	-45.2700 *	-49.9400 *
1879.9500	-13.0000	-45.6400 *	-49.5700 *
2349.9375	-13.0000	-56.6207 **	-56.0005 **
2819.9250	-13.0000	-54.7416 **	-54.8129 **
3289.9125	-13.0000	-52.1863 **	-52.2673 **
3759.9000	-13.0000	-53.3188 **	-52.7404 **
4229.8875	-13.0000	-51.5166 **	-51.1639 **
4699.8750	-13.0000	-49.7196 **	-49.2503 **

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 Sat, Dec 29, 2018

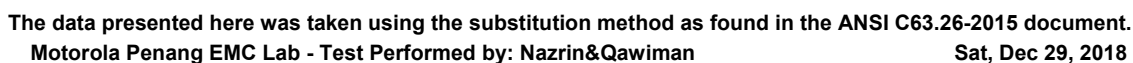
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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1.000 Watt(s) /Low Power

[illegible]

Passed Results	Marginal Results	Failed Results
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[illegible]

Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)

Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)

Frequency (MHz)	Horizontal Measured (dBm)	Vertical Measured (dBm)
1039.975	-52	-49
1559.9625	-58	-57
2079.95	-57	-56
2599.9375	-55	-53
3119.925	-52	-52
3639.9125	-54	-52
4159.9	-52	-51
4679.8875	-51	-49
5199.875	-49	-48

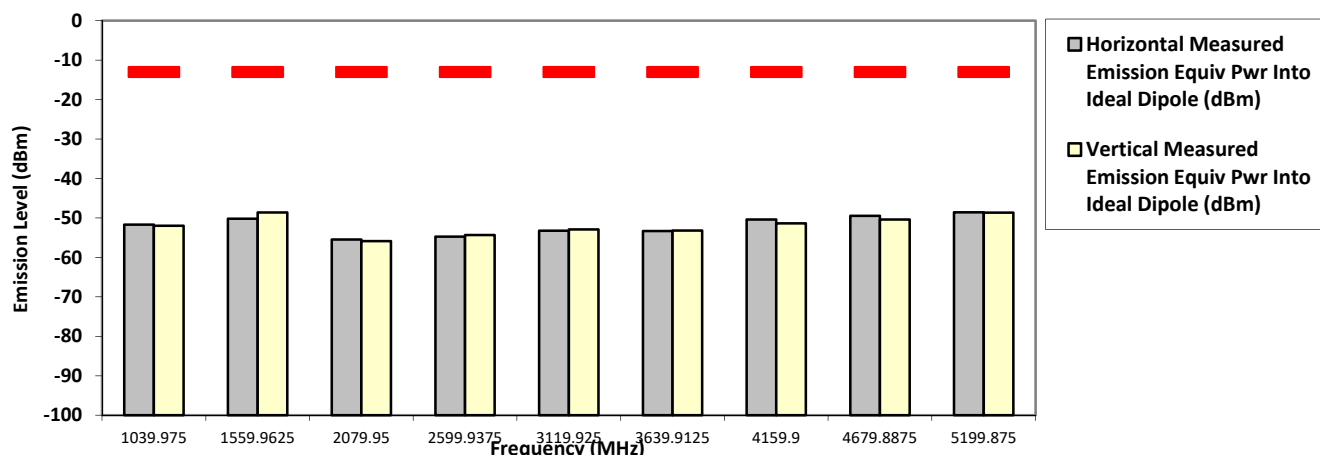
Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00071**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX Analog
519.987500 MHz **25 kHz** **5.700 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)
1039.9750	-13.0000	-51.6800 *	-51.9700 *
1559.9625	-13.0000	-50.1800 *	-48.6300 *
2079.9500	-13.0000	-55.4639 **	-55.8498 **
2599.9375	-13.0000	-54.7497 **	-54.3233 **
3119.9250	-13.0000	-53.2398 **	-52.8961 **
3639.9125	-13.0000	-53.3091 **	-53.2102 **
4159.9000	-13.0000	-50.3934 **	-51.3816 **
4679.8875	-13.0000	-49.4462 **	-50.3808 **
5199.8750	-13.0000	-48.5835 **	-48.6310 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

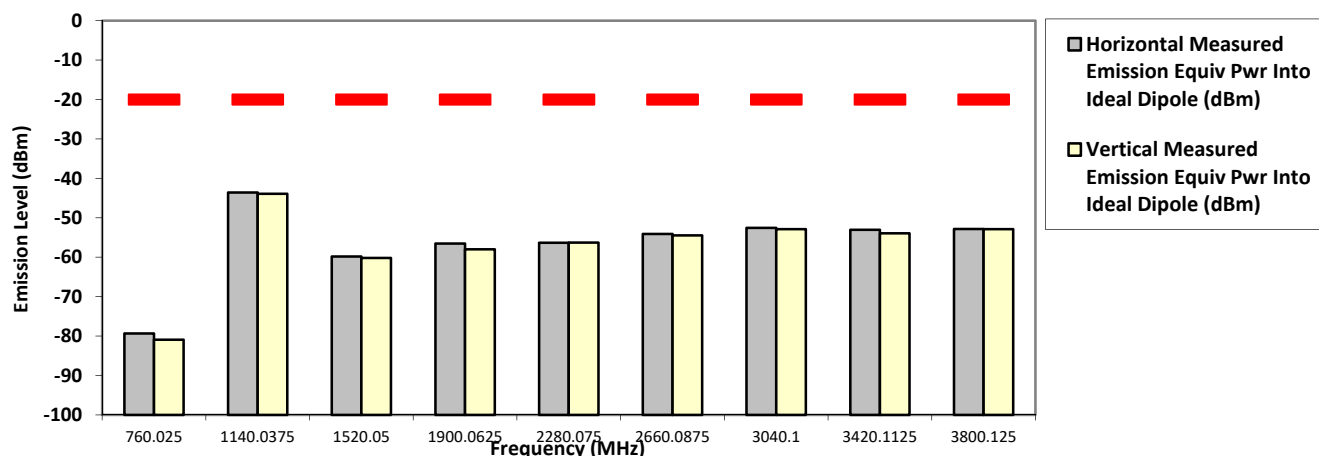
Passed Results	Marginal Results	Failed Results
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6.13.3. Test Result (Digital)

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN S/N: 437TUX0086 SR:12464-EMC-00068
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX APCO Digital C4FM
380.012500 MHz 12.5 kHz 1.000 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	-79.3312 **	-80.9074 **
1140.0375	-20.0000	-43.5700 *	-43.9200 *
1520.0500	-20.0000	-59.8111 **	-60.1686 **
1900.0625	-20.0000	-56.5515 **	-57.9761 **
2280.0750	-20.0000	-56.3410 **	-56.2946 **
2660.0875	-20.0000	-54.0798 **	-54.4726 **
3040.1000	-20.0000	-52.5487 **	-52.8698 **
3420.1125	-20.0000	-53.0321 **	-53.9436 **
3800.1250	-20.0000	-52.8471 **	-52.8652 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

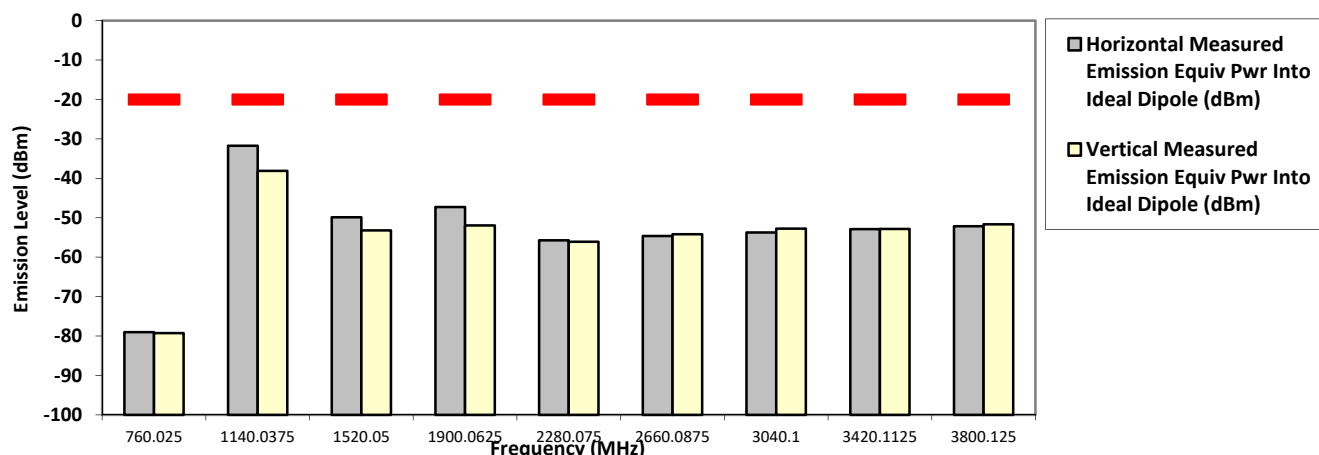
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital C4FM
380.012500 MHz **12.5 kHz** **5.700 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	-79.0226 **	-79.2518 **
1140.0375	-20.0000	-31.7400	-38.1200
1520.0500	-20.0000	-49.8700 *	-53.2100 *
1900.0625	-20.0000	-47.2800 *	-51.9400 *
2280.0750	-20.0000	-55.7088 **	-56.1038 **
2660.0875	-20.0000	-54.6409 **	-54.1679 **
3040.1000	-20.0000	-53.7534 **	-52.7427 **
3420.1125	-20.0000	-52.9009 **	-52.8481 **
3800.1250	-20.0000	-52.1495 **	-51.6774 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

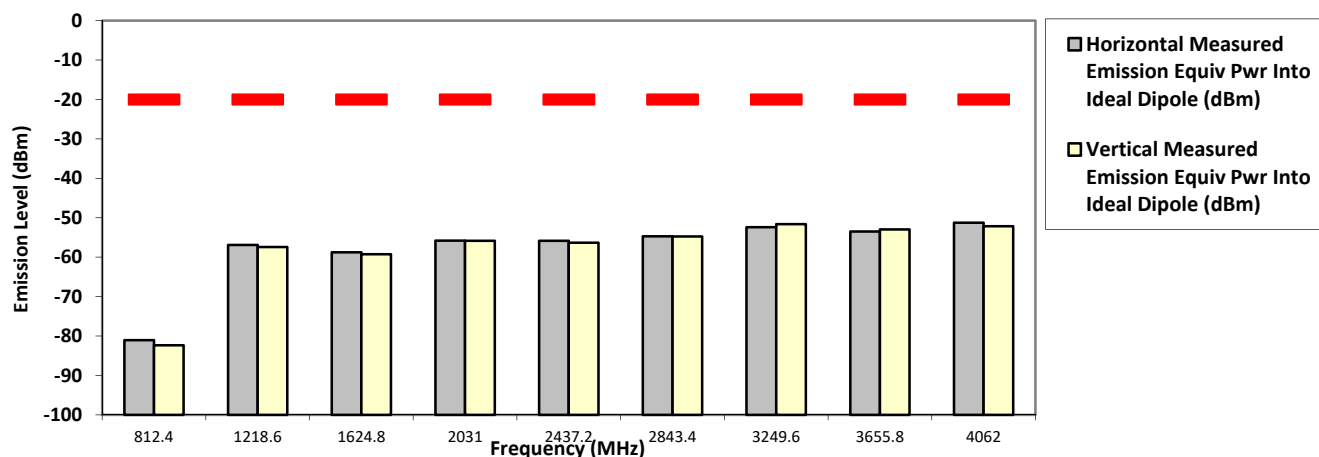
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN S/N: 437TUX0086 SR:12464-EMC-00068
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX APCO Digital C4FM
406.200000 MHz 12.5 kHz 1.000 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	-20.0000	-81.0521 **	-82.3459 **
1218.6000	-20.0000	-56.8987 **	-57.4077 **
1624.8000	-20.0000	-58.7645 **	-59.2425 **
2031.0000	-20.0000	-55.8055 **	-55.8315 **
2437.2000	-20.0000	-55.8253 **	-56.3153 **
2843.4000	-20.0000	-54.7229 **	-54.7487 **
3249.6000	-20.0000	-52.4108 **	-51.6404 **
3655.8000	-20.0000	-53.4901 **	-52.9711 **
4062.0000	-20.0000	-51.2413 **	-52.1416 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

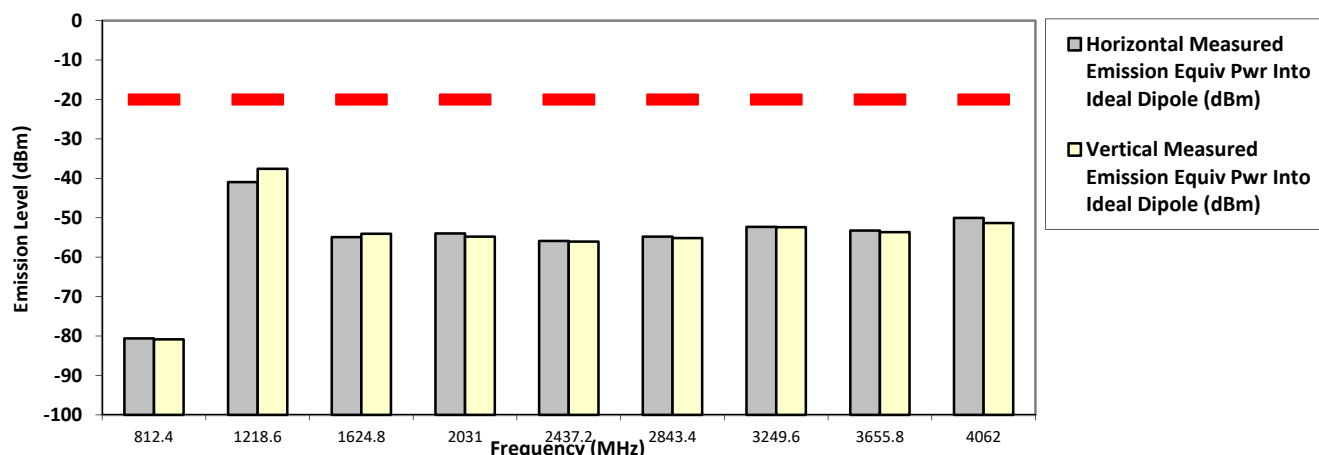
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital C4FM
406.200000 MHz **12.5 kHz** **5.700 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	-80.5802 **	-80.8358 **
1218.6000	-20.0000	-40.9400 *	-37.5800
1624.8000	-20.0000	-54.9100 *	-54.0400 *
2031.0000	-20.0000	-53.9621 **	-54.7691 **
2437.2000	-20.0000	-55.8702 **	-56.0546 **
2843.4000	-20.0000	-54.7853 **	-55.1550 **
3249.6000	-20.0000	-52.3238 **	-52.4098 **
3655.8000	-20.0000	-53.2330 **	-53.6390 **
4062.0000	-20.0000	-50.0287 **	-51.3455 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

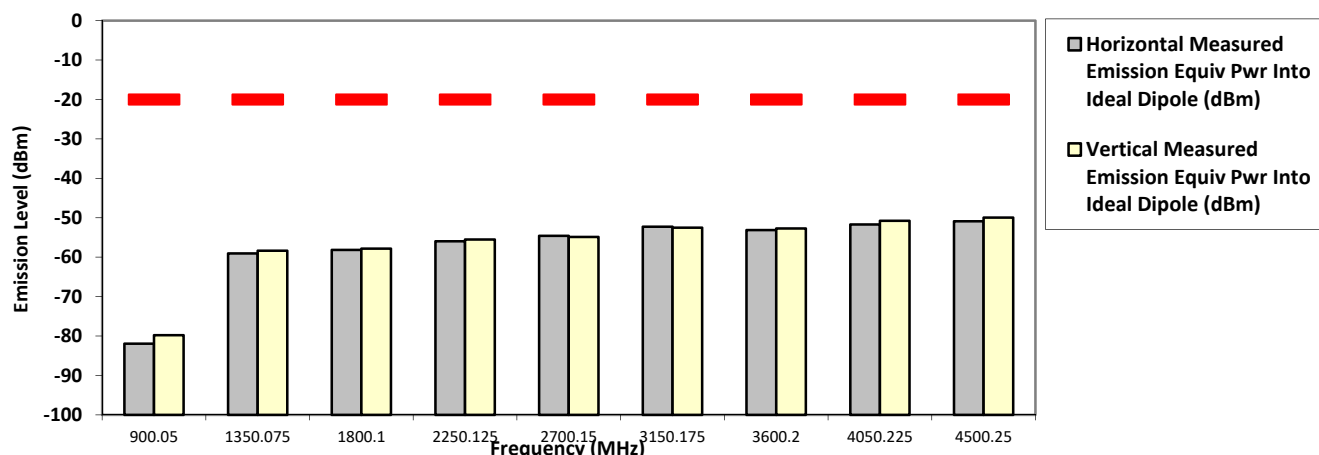
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital C4FM
450.025000 MHz **12.5 kHz** **1.000 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)
900.0500	-20.0000	-81.9483 **	-79.8069 **
1350.0750	-20.0000	-59.0437 **	-58.3696 **
1800.1000	-20.0000	-58.1713 **	-57.8308 **
2250.1250	-20.0000	-55.9742 **	-55.5303 **
2700.1500	-20.0000	-54.5805 **	-54.8723 **
3150.1750	-20.0000	-52.2616 **	-52.5045 **
3600.2000	-20.0000	-53.1101 **	-52.7049 **
4050.2250	-20.0000	-51.7196 **	-50.7745 **
4500.2500	-20.0000	-50.8974 **	-49.9794 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

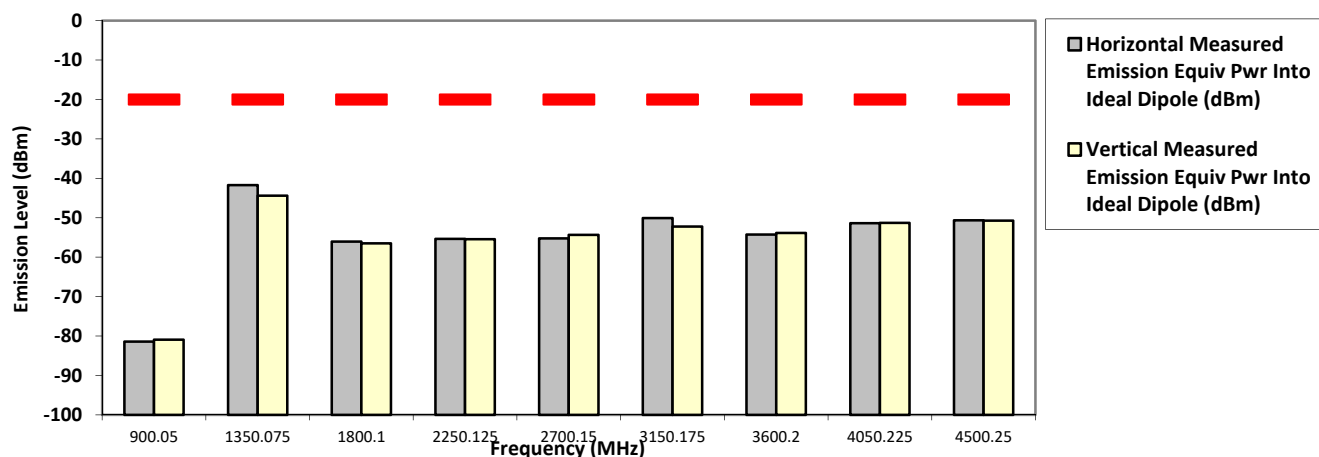
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital C4FM
450.025000 MHz **12.5 kHz** **5.700 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)
900.0500	-20.0000	-81.4110 **	-80.9307 **
1350.0750	-20.0000	-41.7200 *	-44.4000 *
1800.1000	-20.0000	-56.0472 **	-56.5049 **
2250.1250	-20.0000	-55.3529 **	-55.4574 **
2700.1500	-20.0000	-55.2281 **	-54.3493 **
3150.1750	-20.0000	-50.0889 **	-52.2127 **
3600.2000	-20.0000	-54.2476 **	-53.8512 **
4050.2250	-20.0000	-51.3792 **	-51.2791 **
4500.2500	-20.0000	-50.6466 **	-50.7265 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

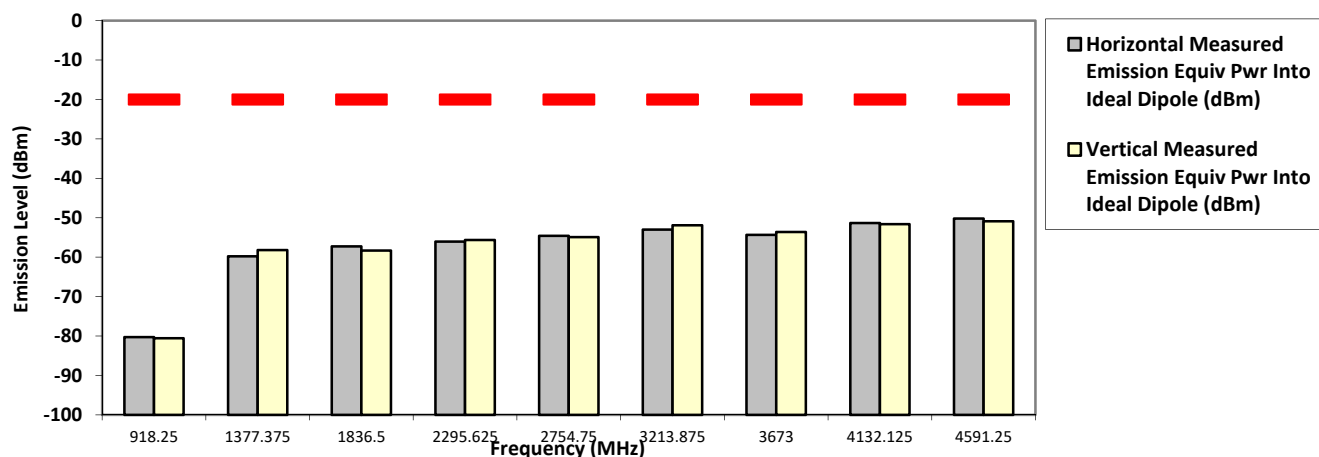
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital C4FM
459.125000 MHz **12.5 kHz** **1.000 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)
918.2500	-20.0000	-80.2782 **	-80.5707 **
1377.3750	-20.0000	-59.7613 **	-58.1913 **
1836.5000	-20.0000	-57.2717 **	-58.3041 **
2295.6250	-20.0000	-56.0316 **	-55.6298 **
2754.7500	-20.0000	-54.6054 **	-54.9224 **
3213.8750	-20.0000	-52.9857 **	-51.9173 **
3673.0000	-20.0000	-54.3540 **	-53.6185 **
4132.1250	-20.0000	-51.3325 **	-51.6425 **
4591.2500	-20.0000	-50.1889 **	-50.8814 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

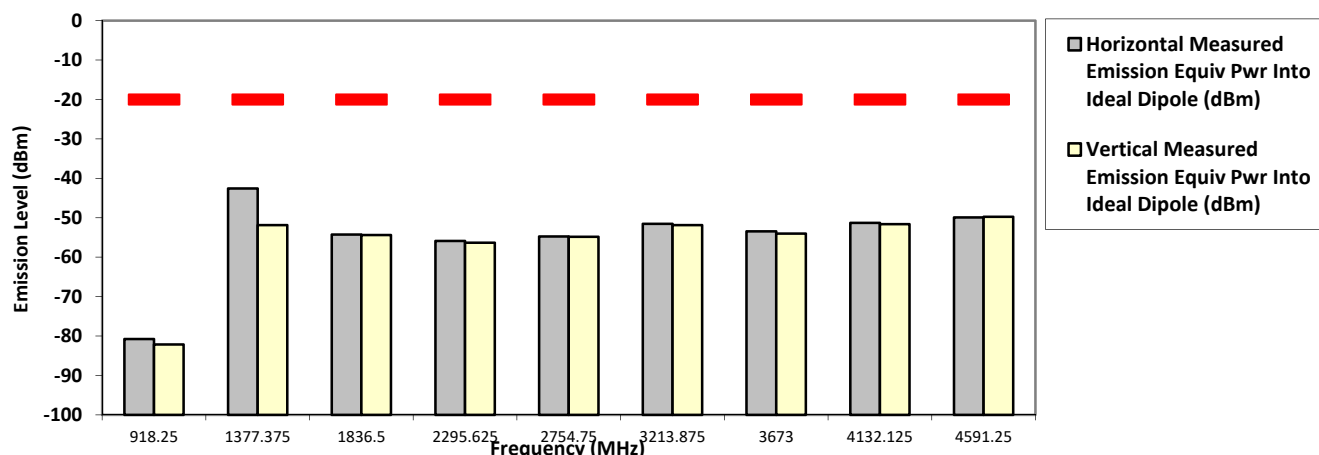
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital C4FM
459.125000 MHz **12.5 kHz** **5.700 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)
918.2500	-20.0000	-80.7743 **	-82.1211 **
1377.3750	-20.0000	-42.5800 *	-51.8500 *
1836.5000	-20.0000	-54.2590 **	-54.3826 **
2295.6250	-20.0000	-55.8892 **	-56.3187 **
2754.7500	-20.0000	-54.7309 **	-54.8443 **
3213.8750	-20.0000	-51.5241 **	-51.8742 **
3673.0000	-20.0000	-53.4540 **	-54.0036 **
4132.1250	-20.0000	-51.2911 **	-51.6249 **
4591.2500	-20.0000	-49.9047 **	-49.7505 **

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: Nazrin&Qawiman Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

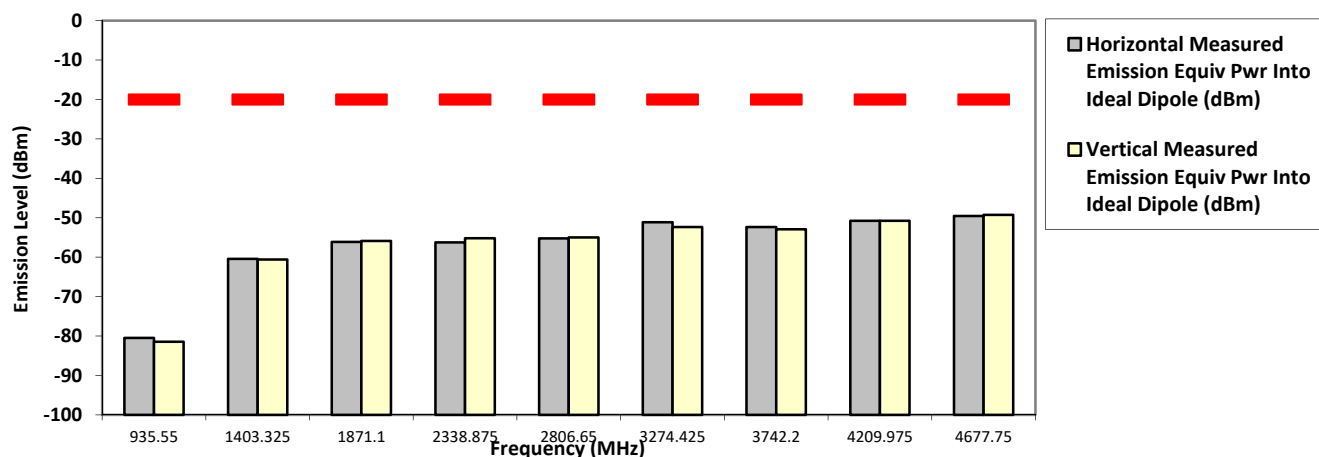
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital C4FM
467.775000 MHz **12.5 kHz** **1.000 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)
935.5500	-20.0000	-80.4826 **	-81.4583 **
1403.3250	-20.0000	-60.4376 **	-60.5763 **
1871.1000	-20.0000	-56.1362 **	-55.9012 **
2338.8750	-20.0000	-56.2540 **	-55.2036 **
2806.6500	-20.0000	-55.2241 **	-55.0116 **
3274.4250	-20.0000	-51.1304 **	-52.3486 **
3742.2000	-20.0000	-52.3708 **	-52.9264 **
4209.9750	-20.0000	-50.7644 **	-50.7787 **
4677.7500	-20.0000	-49.5397 **	-49.2801 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

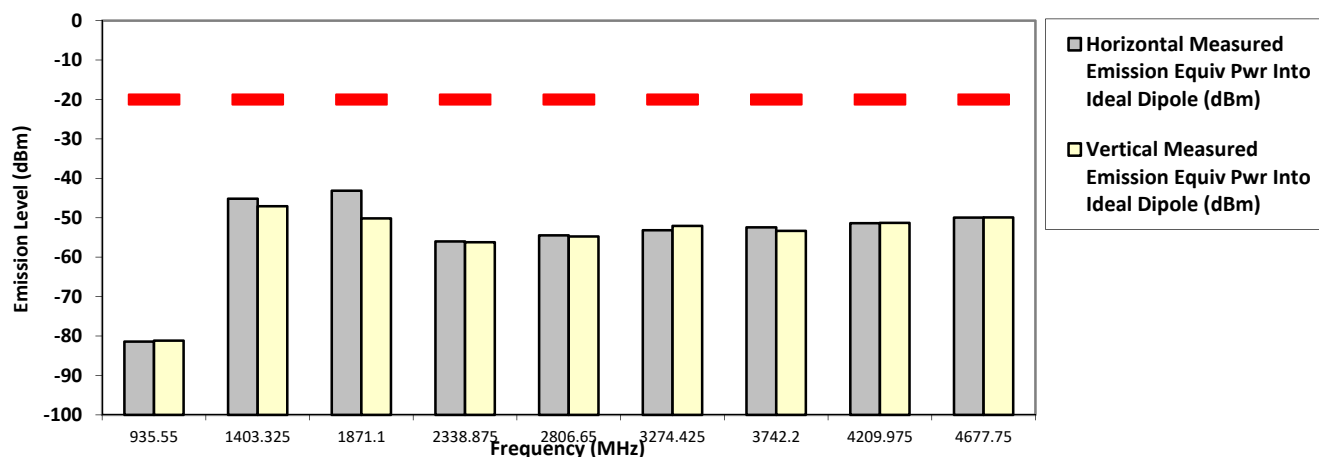
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital C4FM
467.775000 MHz **12.5 kHz** **5.700 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)
935.5500	-20.0000	-81.3899 **	-81.1612 **
1403.3250	-20.0000	-45.1600 *	-47.0600 *
1871.1000	-20.0000	-43.1400 *	-50.1800 *
2338.8750	-20.0000	-56.0085 **	-56.2151 **
2806.6500	-20.0000	-54.4514 **	-54.7518 **
3274.4250	-20.0000	-53.1605 **	-52.0853 **
3742.2000	-20.0000	-52.4196 **	-53.3193 **
4209.9750	-20.0000	-51.3956 **	-51.3156 **
4677.7500	-20.0000	-49.9400 **	-49.9128 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

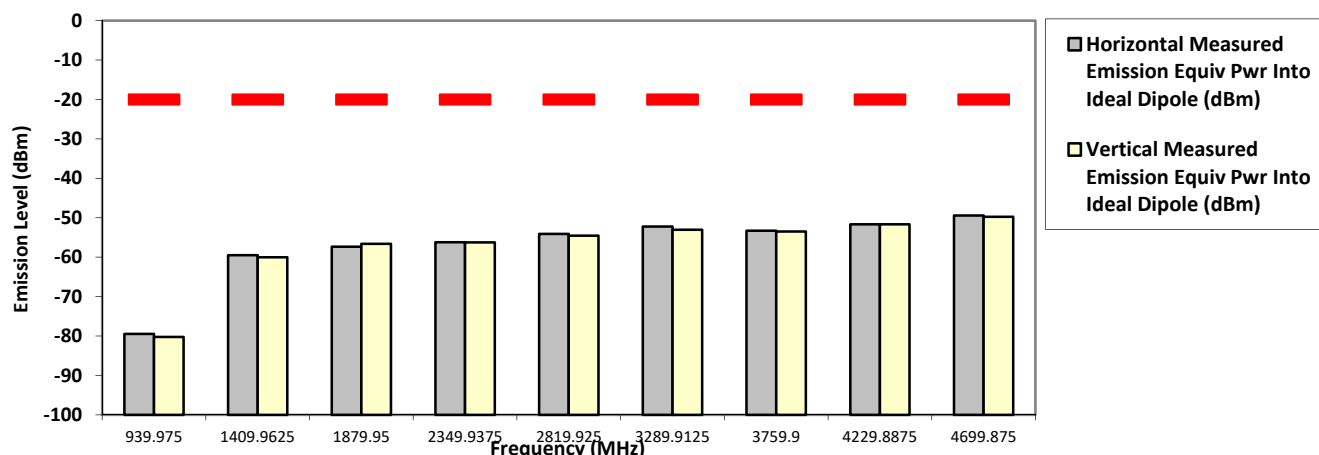
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital C4FM
469.987500 MHz **12.5 kHz** **1.000 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)
939.9750	-20.0000	-79.4437 **	-80.2261 **
1409.9625	-20.0000	-59.5081 **	-60.0112 **
1879.9500	-20.0000	-57.3447 **	-56.6268 **
2349.9375	-20.0000	-56.1966 **	-56.2622 **
2819.9250	-20.0000	-54.0821 **	-54.5310 **
3289.9125	-20.0000	-52.2127 **	-53.0425 **
3759.9000	-20.0000	-53.2875 **	-53.4911 **
4229.8875	-20.0000	-51.6569 **	-51.6767 **
4699.8750	-20.0000	-49.4390 **	-49.7526 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

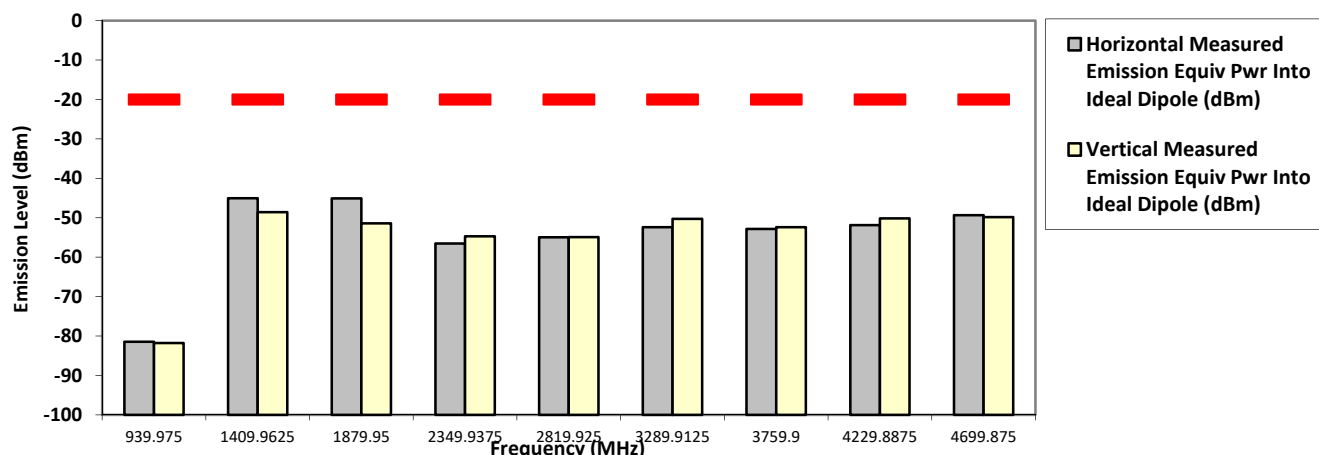
System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital C4FM
469.987500 MHz **12.5 kHz** **5.700 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)
939.9750	-20.0000	-81.4436 **	-81.7674 **
1409.9625	-20.0000	-45.0300 *	-48.5600 *
1879.9500	-20.0000	-45.1100 *	-51.4100 *
2349.9375	-20.0000	-56.5425 **	-54.6896 **
2819.9250	-20.0000	-54.9336 **	-54.9283 **
3289.9125	-20.0000	-52.4132 **	-50.2872 **
3759.9000	-20.0000	-52.8228 **	-52.4001 **
4229.8875	-20.0000	-51.8786 **	-50.1533 **
4699.8750	-20.0000	-49.3398 **	-49.8254 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

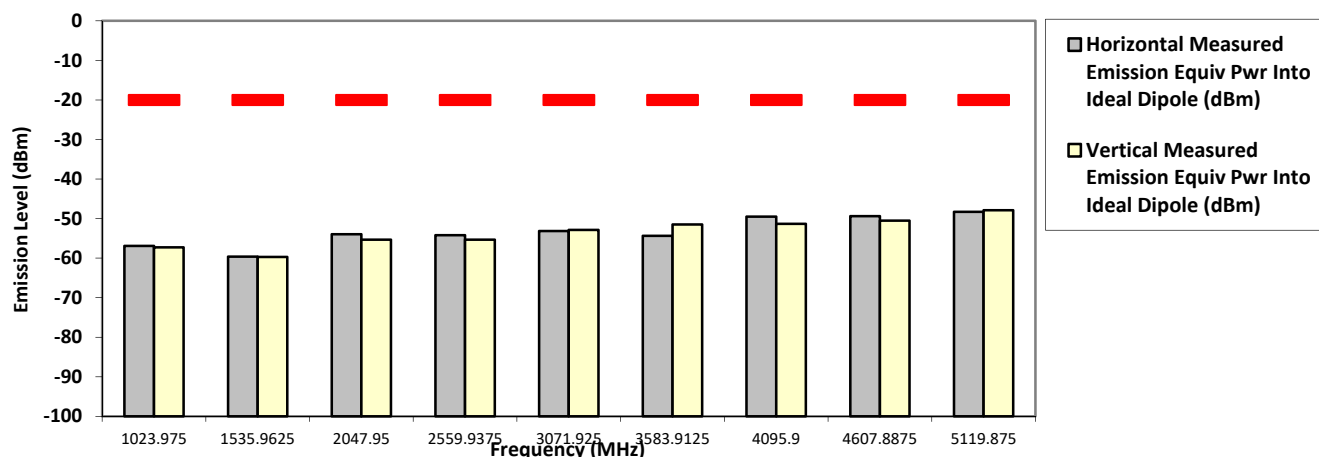
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00071**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital C4FM
511.987500 MHz **12.5 kHz** **1.000 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)
1023.9750	-20.0000	-56.9007 **	-57.2757 **
1535.9625	-20.0000	-59.6147 **	-59.7135 **
2047.9500	-20.0000	-53.9779 **	-55.3489 **
2559.9375	-20.0000	-54.2050 **	-55.3275 **
3071.9250	-20.0000	-53.1601 **	-52.8777 **
3583.9125	-20.0000	-54.3492 **	-51.5017 **
4095.9000	-20.0000	-49.5175 **	-51.3148 **
4607.8875	-20.0000	-49.4051 **	-50.5282 **
5119.8750	-20.0000	-48.2909 **	-47.8753 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

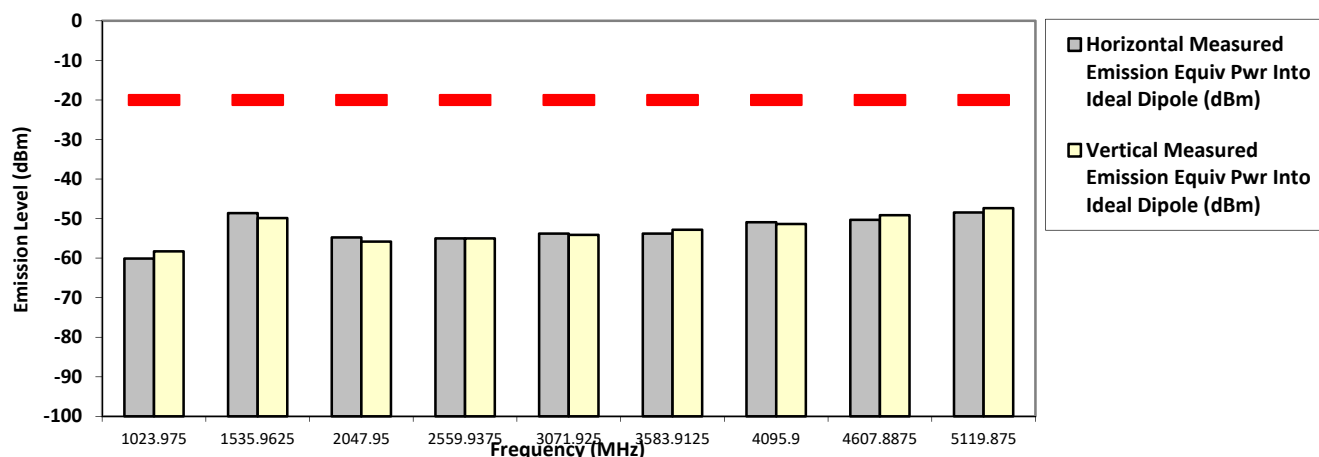
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00071**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital C4FM
511.987500 MHz **12.5 kHz** **5.700 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)
1023.9750	-20.0000	-60.1271 **	-58.3012 **
1535.9625	-20.0000	-48.6200 *	-49.8700 *
2047.9500	-20.0000	-54.7592 **	-55.8378 **
2559.9375	-20.0000	-55.0156 **	-55.0264 **
3071.9250	-20.0000	-53.7908 **	-54.1241 **
3583.9125	-20.0000	-53.7868 **	-52.8331 **
4095.9000	-20.0000	-50.9061 **	-51.3754 **
4607.8875	-20.0000	-50.3102 **	-49.1424 **
5119.8750	-20.0000	-48.4472 **	-47.3540 **

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 Sun, Jan 06, 2019

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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

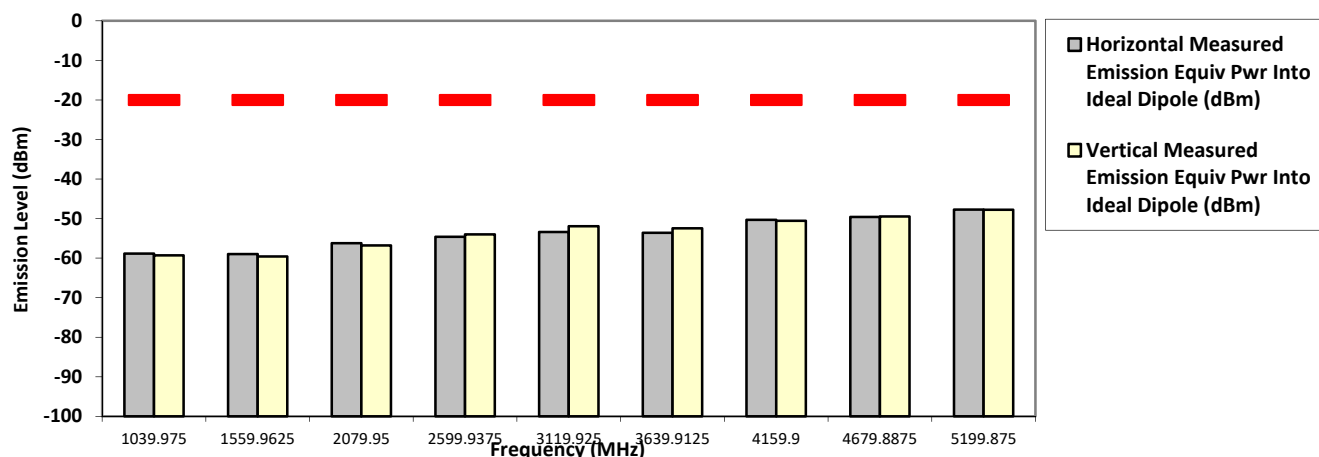
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00071**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital C4FM
519.987500 MHz **12.5 kHz** **1.000 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)
1039.9750	-20.0000	-58.8575 **	-59.3133 **
1559.9625	-20.0000	-58.9940 **	-59.5833 **
2079.9500	-20.0000	-56.2410 **	-56.7888 **
2599.9375	-20.0000	-54.6149 **	-53.9994 **
3119.9250	-20.0000	-53.4017 **	-51.9489 **
3639.9125	-20.0000	-53.5983 **	-52.4485 **
4159.9000	-20.0000	-50.3217 **	-50.5453 **
4679.8875	-20.0000	-49.5893 **	-49.4735 **
5199.8750	-20.0000	-47.7224 **	-47.7855 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

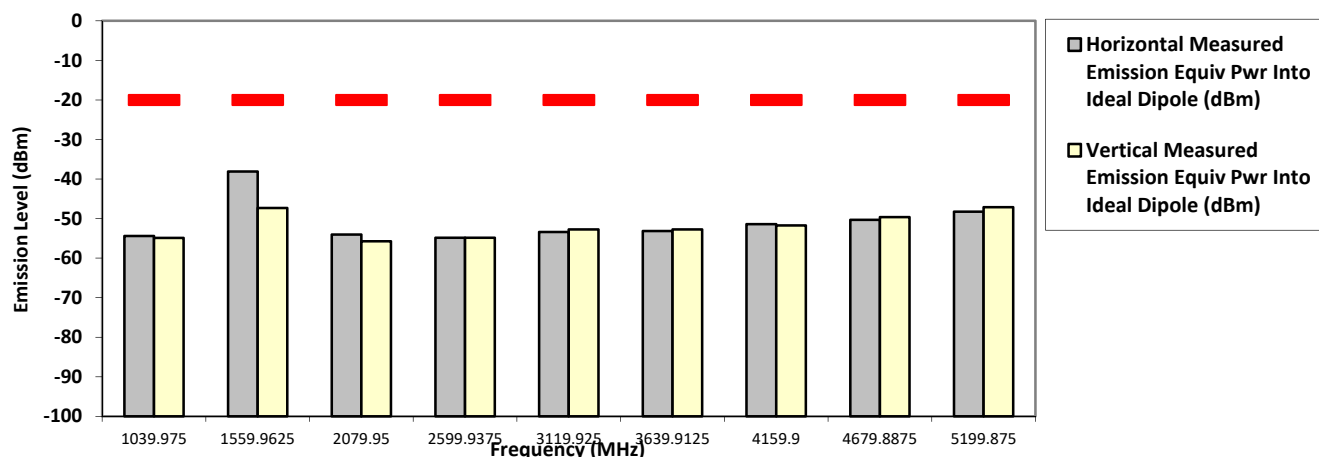
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00071**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital C4FM
519.987500 MHz **12.5 kHz** **5.700 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)
1039.9750	-20.0000	-54.4000 *	-54.8900 *
1559.9625	-20.0000	-38.0800 *	-47.3100 *
2079.9500	-20.0000	-54.0583 **	-55.7279 **
2599.9375	-20.0000	-54.8692 **	-54.8474 **
3119.9250	-20.0000	-53.3905 **	-52.7641 **
3639.9125	-20.0000	-53.1528 **	-52.7510 **
4159.9000	-20.0000	-51.4024 **	-51.7277 **
4679.8875	-20.0000	-50.3303 **	-49.6414 **
5199.8750	-20.0000	-48.2476 **	-47.1020 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

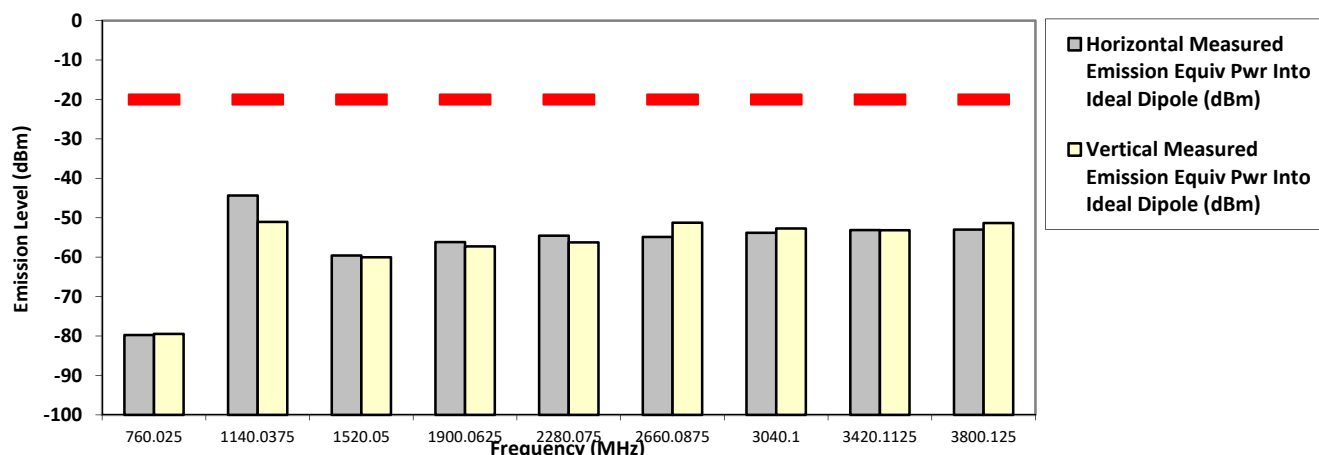
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital Phase II
380.012500 MHz **12.5 kHz** **1.000 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	-79.7439 **	-79.4479 **
1140.0375	-20.0000	-44.3400 *	-51.0600 *
1520.0500	-20.0000	-59.5891 **	-60.0308 **
1900.0625	-20.0000	-56.1800 **	-57.2508 **
2280.0750	-20.0000	-54.5623 **	-56.2670 **
2660.0875	-20.0000	-54.8794 **	-51.2787 **
3040.1000	-20.0000	-53.8338 **	-52.7021 **
3420.1125	-20.0000	-53.1161 **	-53.1531 **
3800.1250	-20.0000	-53.0012 **	-51.3244 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

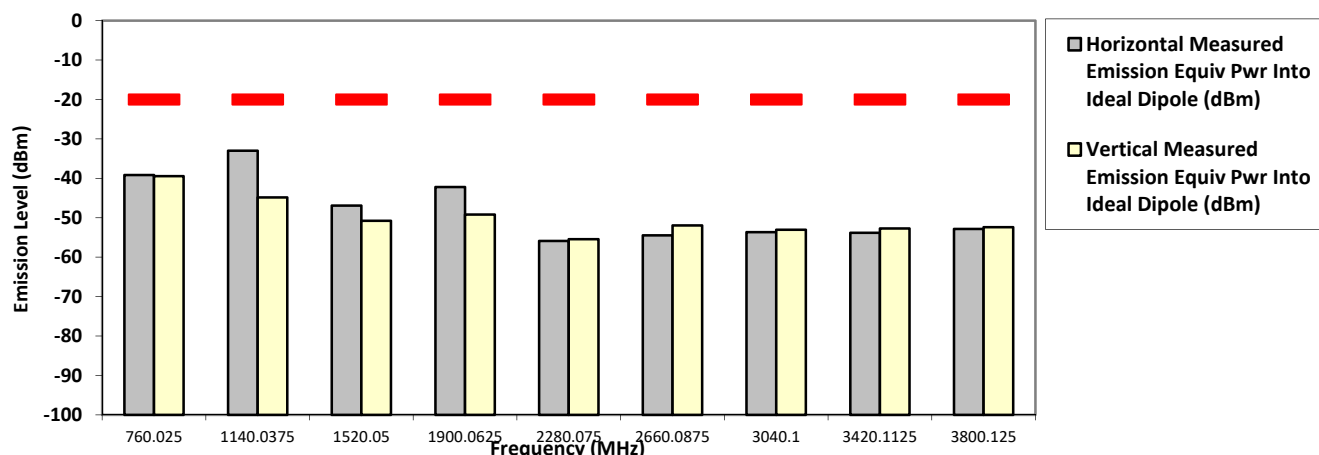
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital Phase II
380.012500 MHz **12.5 kHz** **5.700 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	-39.1500	-39.4600
1140.0375	-20.0000	-33.0100	-44.8400 *
1520.0500	-20.0000	-46.9200 *	-50.7600 *
1900.0625	-20.0000	-42.1900 *	-49.1700 *
2280.0750	-20.0000	-55.8871 **	-55.4436 **
2660.0875	-20.0000	-54.4651 **	-51.9447 **
3040.1000	-20.0000	-53.6411 **	-53.0626 **
3420.1125	-20.0000	-53.8219 **	-52.7068 **
3800.1250	-20.0000	-52.8465 **	-52.3780 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

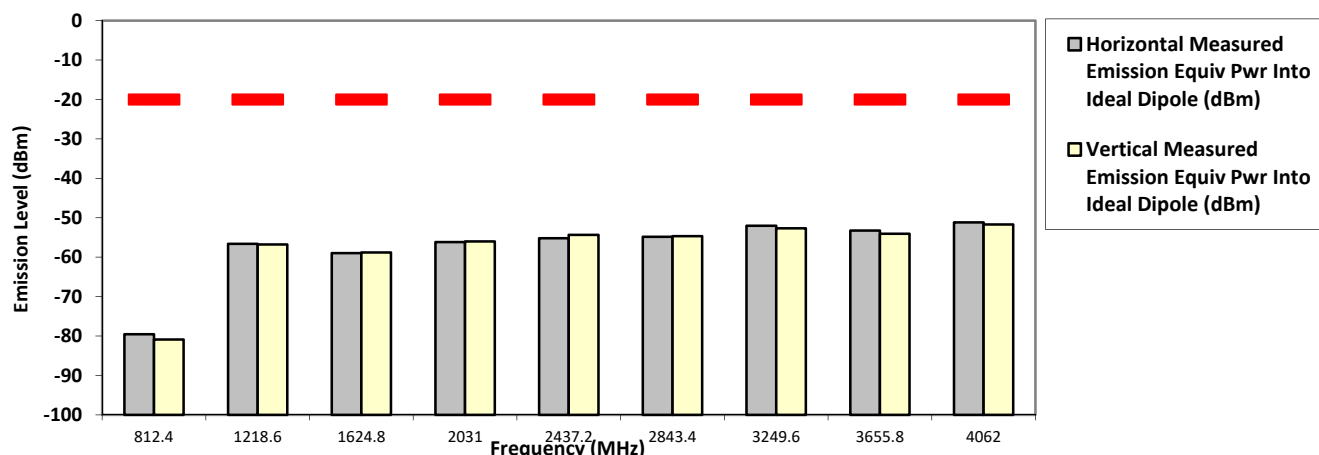
System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital Phase II
406.200000 MHz **12.5 kHz** **1.000 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	-20.0000	-79.5342 **	-80.8713 **
1218.6000	-20.0000	-56.6221 **	-56.7842 **
1624.8000	-20.0000	-58.9751 **	-58.8143 **
2031.0000	-20.0000	-56.1602 **	-55.9867 **
2437.2000	-20.0000	-55.2004 **	-54.3435 **
2843.4000	-20.0000	-54.8430 **	-54.6648 **
3249.6000	-20.0000	-52.0107 **	-52.6705 **
3655.8000	-20.0000	-53.2394 **	-54.0749 **
4062.0000	-20.0000	-51.1907 **	-51.6850 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

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

[illegible]

The chart displays the measured emission levels for a device across various frequencies. The y-axis represents the Emission Level in dBm, ranging from -100 to 0. The x-axis represents the Frequency in MHz, with values: 812.4, 1218.6, 1624.8, 2031, 2437.2, 2843.4, 3249.6, 3655.8, and 4062. Two data series are shown: Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm) in grey bars and Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm) in yellow bars. A red horizontal line at -20 dBm indicates the regulatory limit. All measured values are well below the limit.

Frequency (MHz)	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
812.4	-81	-81
1218.6	-39	-44
1624.8	-58	-57
2031	-52	-52
2437.2	-55	-55
2843.4	-53	-54
3249.6	-52	-53
3655.8	-53	-54
4062	-50	-51

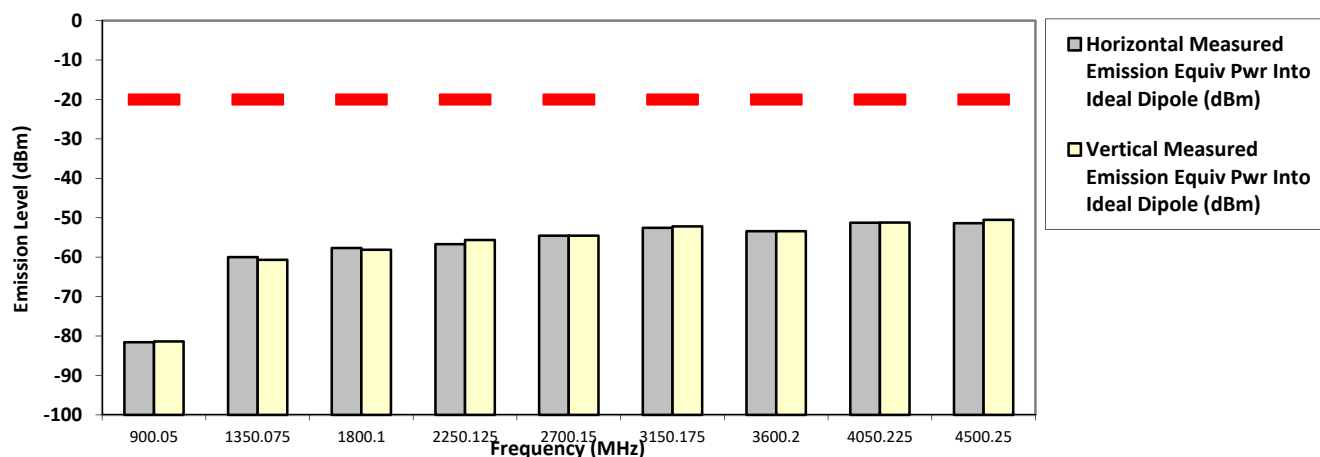
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.5 Hum(%RH): 70.1

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

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital Phase II
450.025000 MHz **12.5 kHz** **1.000 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)
900.0500	-20.0000	-81.5871 **	-81.3537 **
1350.0750	-20.0000	-59.9881 **	-60.6662 **
1800.1000	-20.0000	-57.6611 **	-58.1049 **
2250.1250	-20.0000	-56.7163 **	-55.6269 **
2700.1500	-20.0000	-54.5653 **	-54.5287 **
3150.1750	-20.0000	-52.5461 **	-52.1940 **
3600.2000	-20.0000	-53.4064 **	-53.4131 **
4050.2250	-20.0000	-51.2731 **	-51.2319 **
4500.2500	-20.0000	-51.3702 **	-50.5401 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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[illegible]

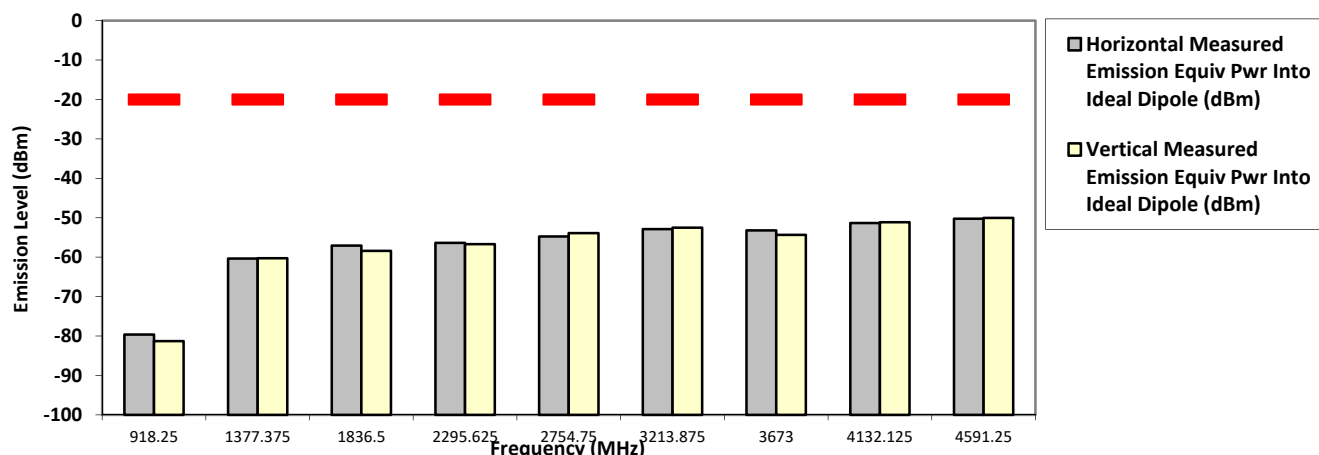
Frequency (MHz)	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
900.05	-82	-82
1350.075	-43	-46
1800.1	-54	-57
2250.125	-55	-55
2700.15	-55	-54
3150.175	-52	-52
3600.2	-54	-53
4050.225	-51	-50
4500.25	-50	-50

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital Phase II
459.125000 MHz **12.5 kHz** **1.000 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)
918.2500	-20.0000	-79.6239 **	-81.2937 **
1377.3750	-20.0000	-60.3491 **	-60.2682 **
1836.5000	-20.0000	-57.0670 **	-58.3854 **
2295.6250	-20.0000	-56.3534 **	-56.7064 **
2754.7500	-20.0000	-54.7672 **	-53.8772 **
3213.8750	-20.0000	-52.8939 **	-52.5147 **
3673.0000	-20.0000	-53.2082 **	-54.3592 **
4132.1250	-20.0000	-51.3584 **	-51.1482 **
4591.2500	-20.0000	-50.2451 **	-50.0536 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

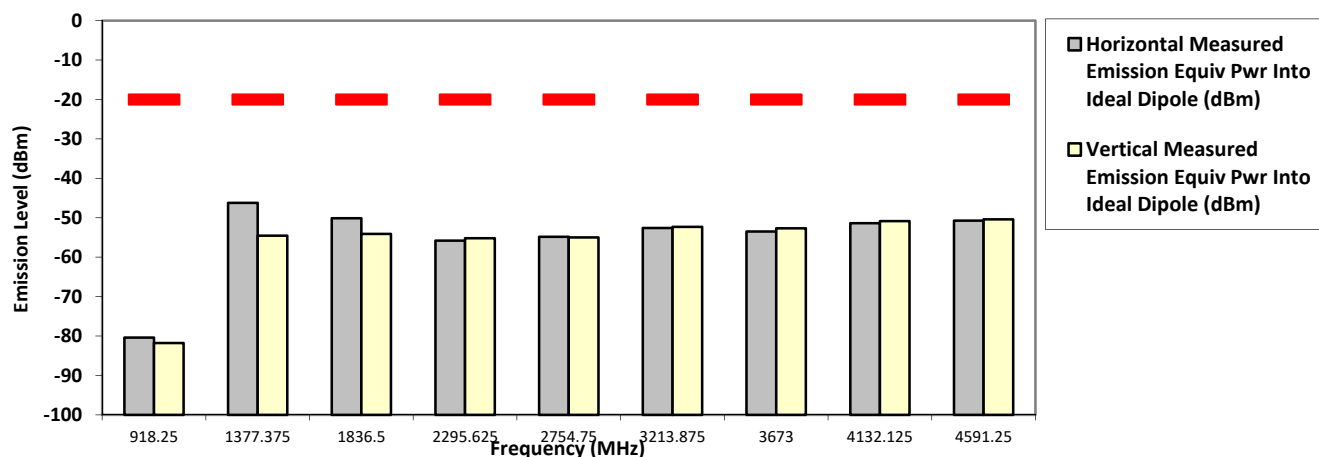
System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital Phase II
459.125000 MHz **12.5 kHz** **5.700 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)
918.2500	-20.0000	-80.3972 **	-81.7571 **
1377.3750	-20.0000	-46.2200 *	-54.5400 *
1836.5000	-20.0000	-50.1300 *	-54.1100 *
2295.6250	-20.0000	-55.8012 **	-55.1769 **
2754.7500	-20.0000	-54.8192 **	-55.0039 **
3213.8750	-20.0000	-52.5945 **	-52.3058 **
3673.0000	-20.0000	-53.5084 **	-52.6660 **
4132.1250	-20.0000	-51.3707 **	-50.8581 **
4591.2500	-20.0000	-50.7470 **	-50.3974 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

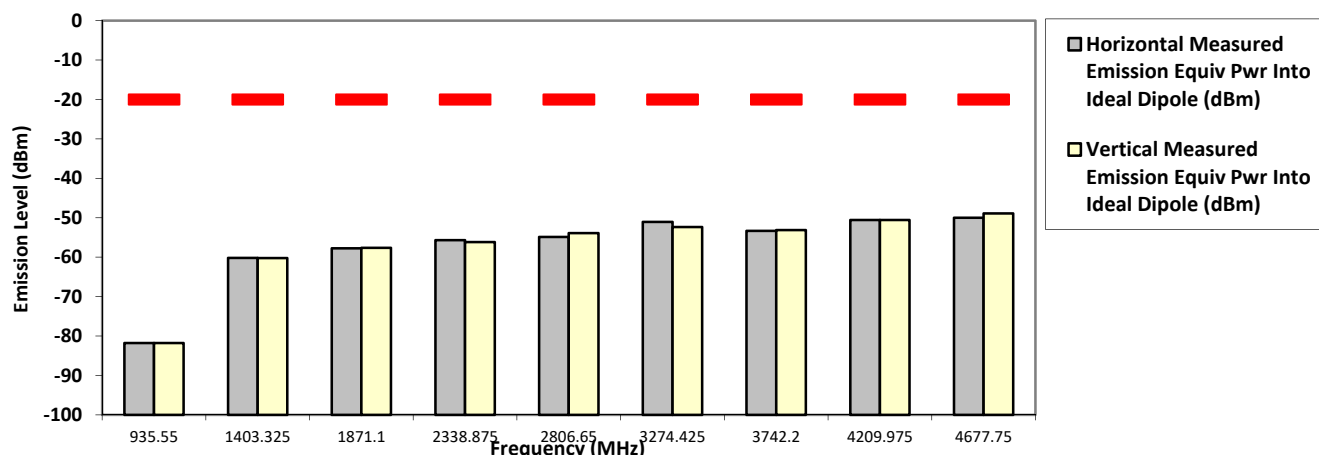
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital Phase II
467.775000 MHz **12.5 kHz** **1.000 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)
935.5500	-20.0000	-81.7780 **	-81.7714 **
1403.3250	-20.0000	-60.1920 **	-60.2409 **
1871.1000	-20.0000	-57.7544 **	-57.6134 **
2338.8750	-20.0000	-55.6864 **	-56.1794 **
2806.6500	-20.0000	-54.8519 **	-53.8789 **
3274.4250	-20.0000	-51.0700 **	-52.3635 **
3742.2000	-20.0000	-53.3208 **	-53.1218 **
4209.9750	-20.0000	-50.5823 **	-50.5540 **
4677.7500	-20.0000	-50.0145 **	-48.8917 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

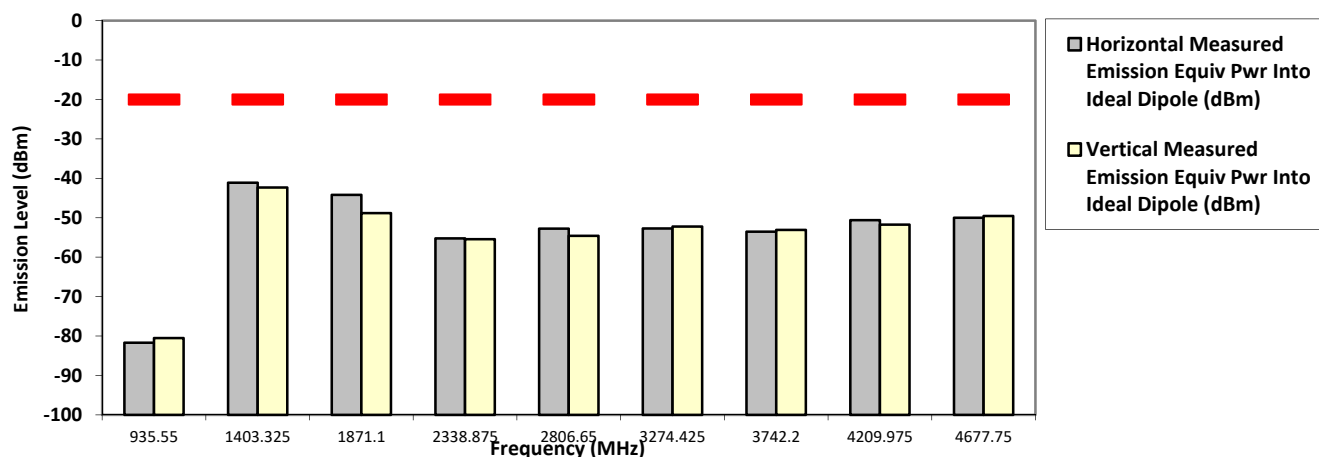
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital Phase II
467.775000 MHz **12.5 kHz** **5.700 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)
935.5500	-20.0000	-81.7114 **	-80.5290 **
1403.3250	-20.0000	-41.1300 *	-42.3400 *
1871.1000	-20.0000	-44.2100 *	-48.8300 *
2338.8750	-20.0000	-55.2383 **	-55.4460 **
2806.6500	-20.0000	-52.7697 **	-54.6060 **
3274.4250	-20.0000	-52.7049 **	-52.2164 **
3742.2000	-20.0000	-53.5284 **	-53.0742 **
4209.9750	-20.0000	-50.5897 **	-51.7326 **
4677.7500	-20.0000	-50.0207 **	-49.5425 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

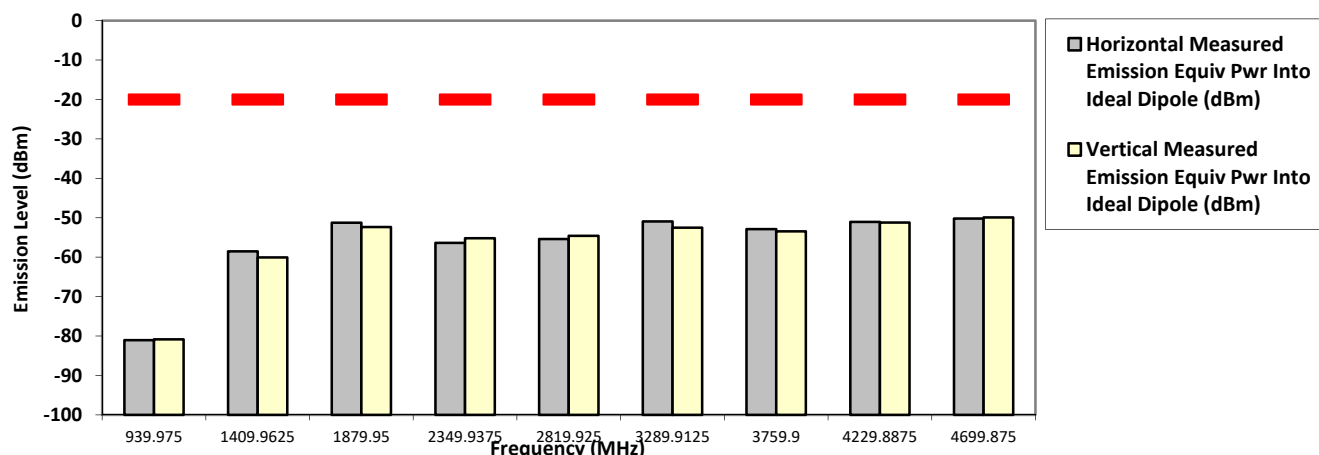
Remarks:

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

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital Phase II
469.987500 MHz **12.5 kHz** **1.000 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)
939.9750	-20.0000	-81.0602 **	-80.8560 **
1409.9625	-20.0000	-58.5406 **	-60.0769 **
1879.9500	-20.0000	-51.2700 *	-52.3500 *
2349.9375	-20.0000	-56.3763 **	-55.1846 **
2819.9250	-20.0000	-55.3807 **	-54.5994 **
3289.9125	-20.0000	-50.9464 **	-52.5305 **
3759.9000	-20.0000	-52.8850 **	-53.4440 **
4229.8875	-20.0000	-51.0487 **	-51.2116 **
4699.8750	-20.0000	-50.2230 **	-49.9129 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

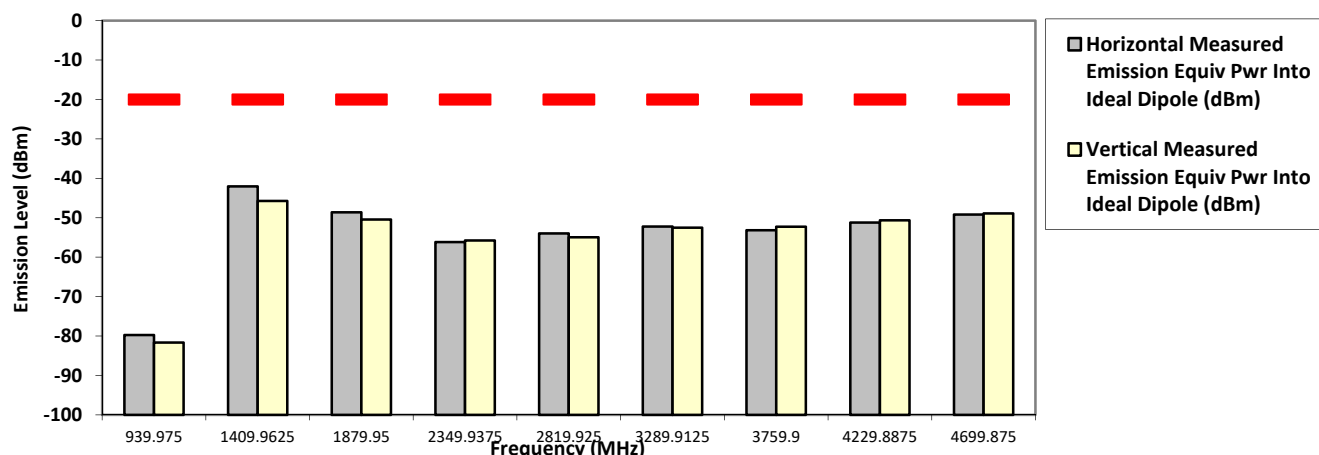
Remarks:

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

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00068**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital Phase II
469.987500 MHz **12.5 kHz** **5.700 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)
939.9750	-20.0000	-79.7537 **	-81.6500 **
1409.9625	-20.0000	-42.0600 *	-45.7500 *
1879.9500	-20.0000	-48.6100 *	-50.4500 *
2349.9375	-20.0000	-56.1590 **	-55.7771 **
2819.9250	-20.0000	-53.9816 **	-54.9414 **
3289.9125	-20.0000	-52.2194 **	-52.5141 **
3759.9000	-20.0000	-53.1631 **	-52.2638 **
4229.8875	-20.0000	-51.1986 **	-50.6400 **
4699.8750	-20.0000	-49.2006 **	-48.9242 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

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

[illegible]

The chart displays the emission level in dBm across various frequencies in MHz. The y-axis ranges from -100 to 0 dBm, and the x-axis lists frequencies from 1023.975 to 5119.875 MHz. A red line at -20 dBm represents the limit, and a yellow line at -50 dBm represents the measured level. The measured level is consistently below the limit, with a slight increase at 5119.875 MHz.

Frequency (MHz)	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1023.975	-50	-50
1535.9625	-55	-57
2047.95	-57	-57
2559.9375	-55	-54
3071.925	-52	-52
3583.9125	-53	-54
4095.9	-52	-51
4607.8875	-50	-49
5119.875	-48	-48

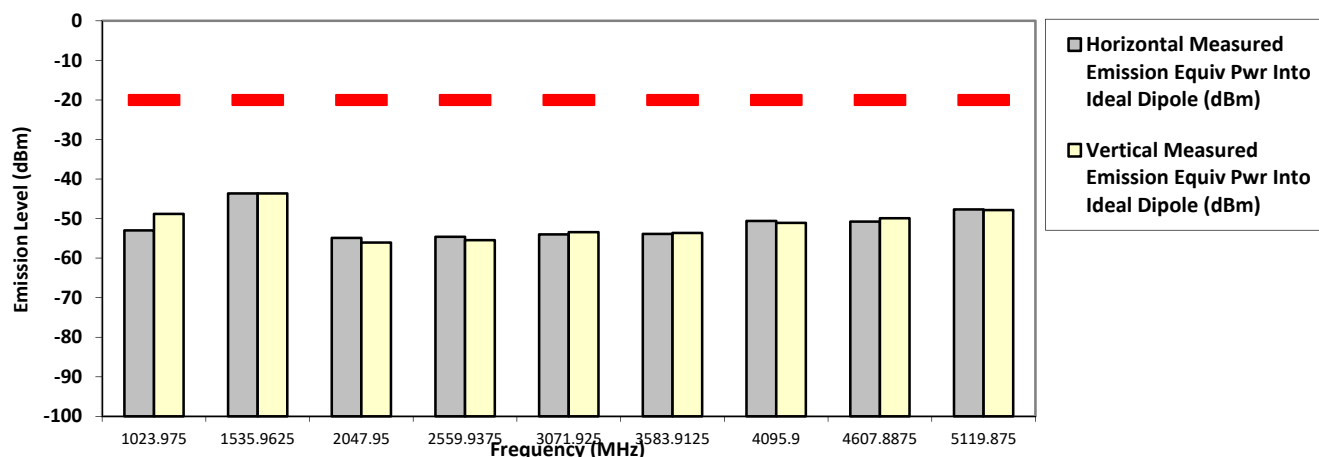
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.5 Hum(%RH): 70.1

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

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00071**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital Phase II
511.987500 MHz **12.5 kHz** **5.700 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)
1023.9750	-20.0000	-52.9700 *	-48.8300 *
1535.9625	-20.0000	-43.6500 *	-43.6500 *
2047.9500	-20.0000	-54.8732 **	-56.0528 **
2559.9375	-20.0000	-54.6115 **	-55.4414 **
3071.9250	-20.0000	-53.9858 **	-53.4172 **
3583.9125	-20.0000	-53.8919 **	-53.6474 **
4095.9000	-20.0000	-50.5940 **	-51.0881 **
4607.8875	-20.0000	-50.7498 **	-49.8980 **
5119.8750	-20.0000	-47.7023 **	-47.8664 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

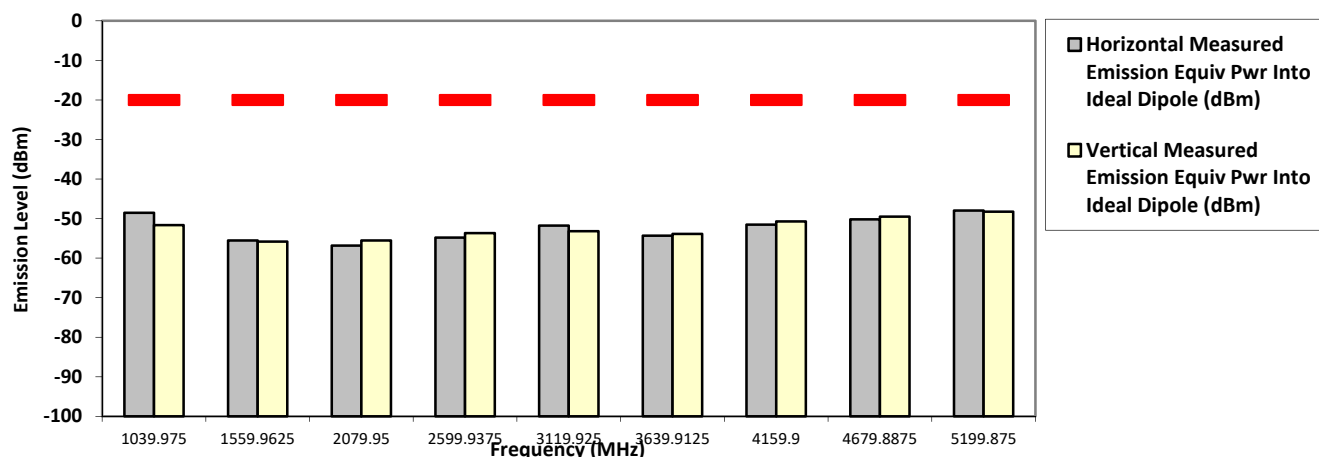
Remarks:

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

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN **S/N: 437TUX0086** **SR:12464-EMC-00071**
Battery Part No: NNTN9089A **Accy Part No: NA**
Test Mode: TX APCO Digital Phase II
519.987500 MHz **12.5 kHz** **1.000 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)
1039.9750	-20.0000	-48.5300 *	-51.6700 *
1559.9625	-20.0000	-55.5300 *	-55.8400 *
2079.9500	-20.0000	-56.8386 **	-55.5283 **
2599.9375	-20.0000	-54.8000 **	-53.6765 **
3119.9250	-20.0000	-51.7708 **	-53.2048 **
3639.9125	-20.0000	-54.3381 **	-53.8720 **
4159.9000	-20.0000	-51.5374 **	-50.7143 **
4679.8875	-20.0000	-50.1894 **	-49.5051 **
5199.8750	-20.0000	-47.9811 **	-48.2685 **

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 Sat, Dec 29, 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): 23.5 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

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

[illegible]

The chart displays the emission level in dBm across various frequencies in MHz. The y-axis ranges from 0 to -100 dBm, and the x-axis lists frequencies from 1039.975 to 5199.875 MHz. A red line at -20 dBm represents the limit, and a yellow line at -50 dBm represents the measured level. The measured level is consistently below the limit, with a slight variation around 2079.95 MHz.

Frequency (MHz)	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1039.975	-50	-48
1559.9625	-49	-47
2079.95	-56	-57
2599.9375	-54	-55
3119.925	-53	-52
3639.9125	-52	-53
4159.9	-51	-50
4679.8875	-49	-49
5199.875	-48	-48

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): 23.5 Hum(%RH): 70.1

Passed Results	Marginal Results	Failed Results
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6.13.4. Test Limit

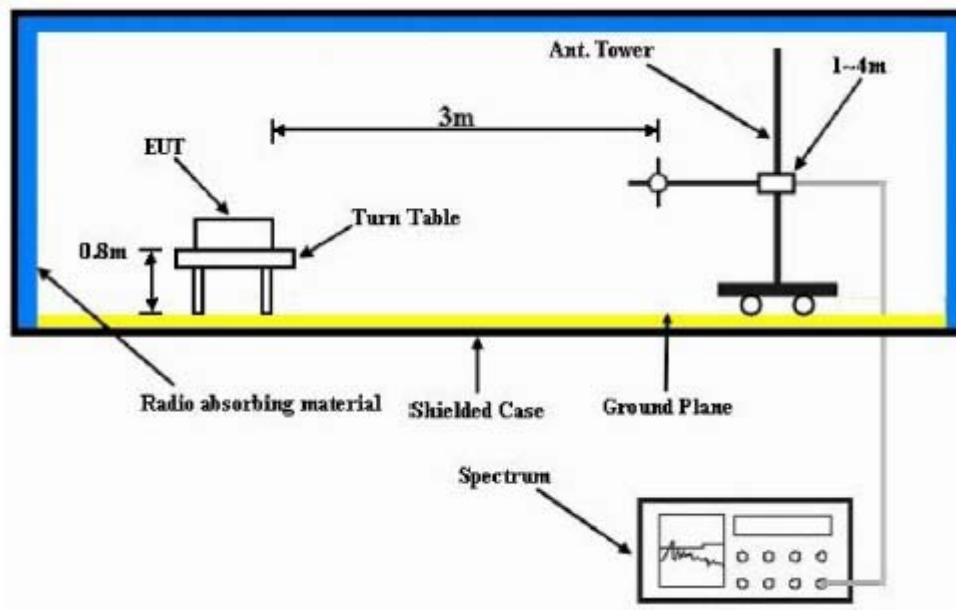
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

Channel Spacing	Part 22	Part 24D	Part 74	Part 80	Part 90 (UHF, VHF, 800, 900)	Part 90 (700)
12.5kHz	43 + 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)

6.14. Effective Radiated Power (ERP)

6.14.1. 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.

6.14.2. Test Result

EIRP/ERP

S/N: 437TXB0189

Tx Power: 2.00 Watts

Channel Spacing: 25 kHz

Modulation: FM

Accessory: AN000393A01

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Vert.	467.7750	35.01	32.86

6.14.3. Test Limit

FCC CFR 47 Part 80.215(e)

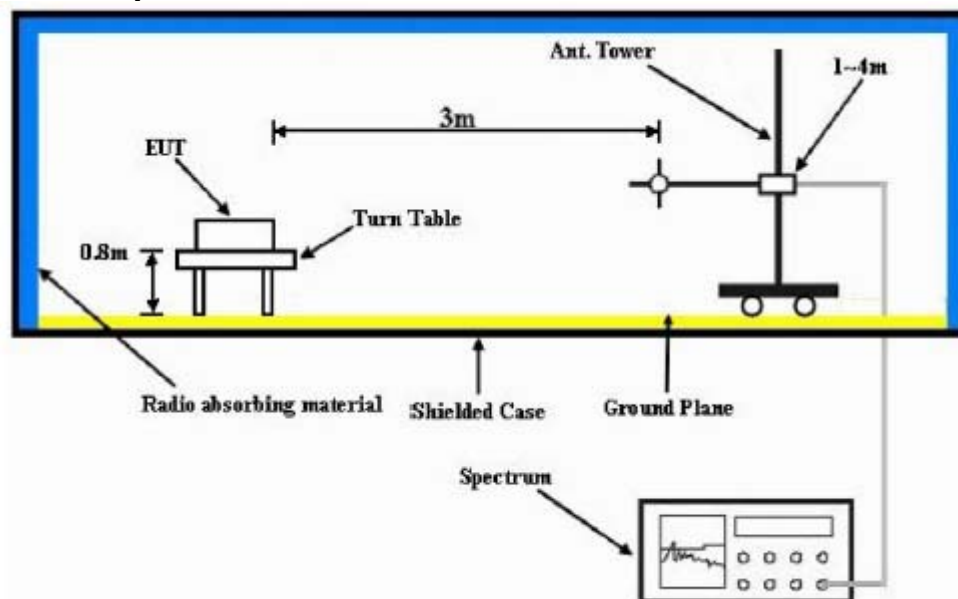
The maximum power must not exceed the values listed below.

On board stations 456-468 MHz - 4W*.

*Certification based on a carrier power of 4 watts with transmitter connected to a dummy load of matching impedance. The effective radiated power must not exceed 2 watts

6.15. GNSS (EIRP for 1559 - 1610MHz)

6.15.1. 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) $EIRP = \text{“Read Value”} + \text{Measured substitution value} + 2.15$.

6.15.1. Test Result

NA → Not Applicable

6.15.2. 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 ~