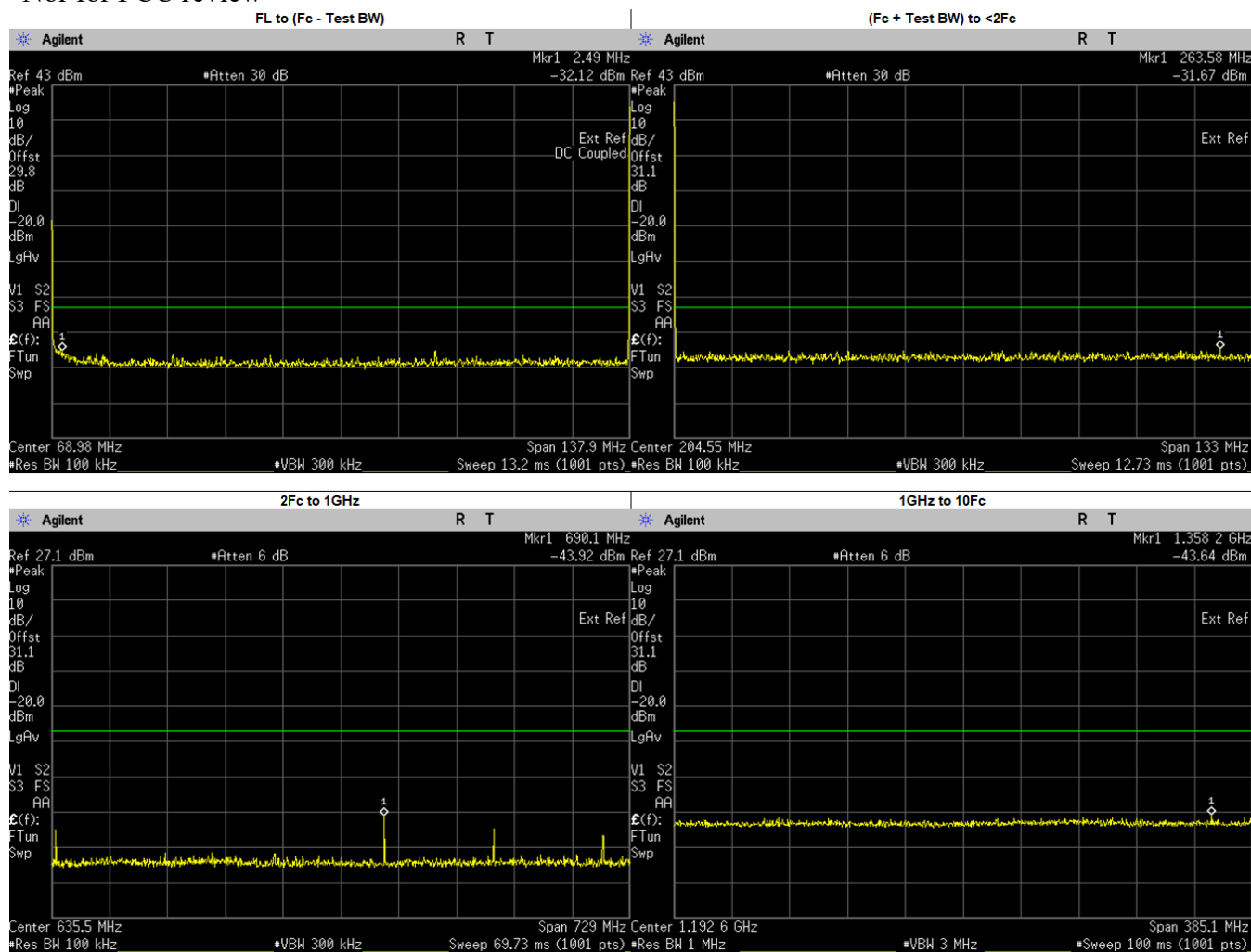


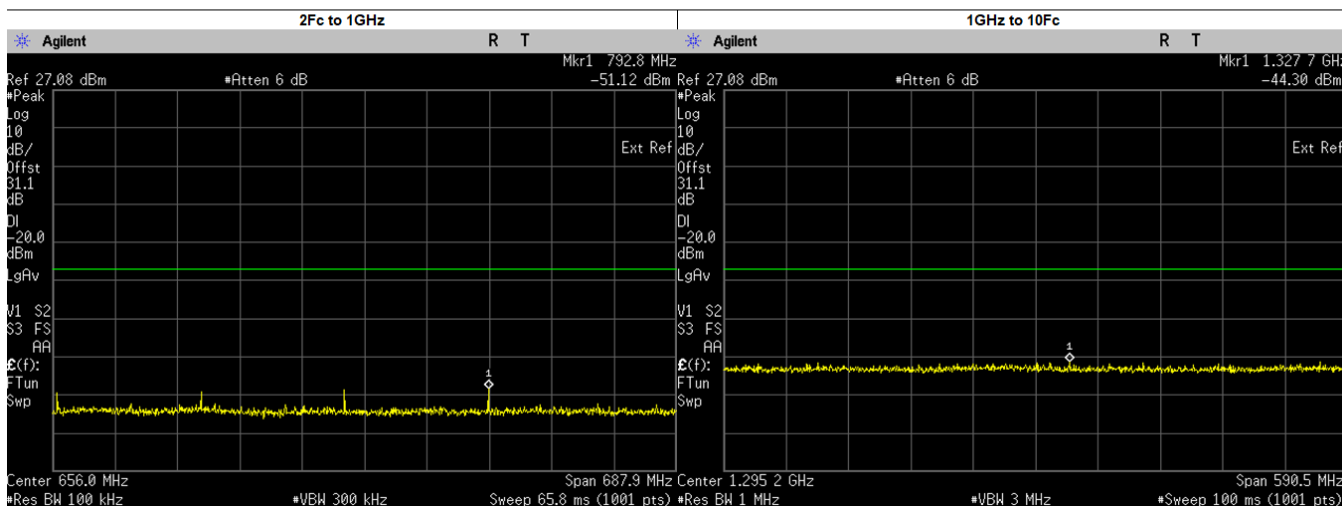
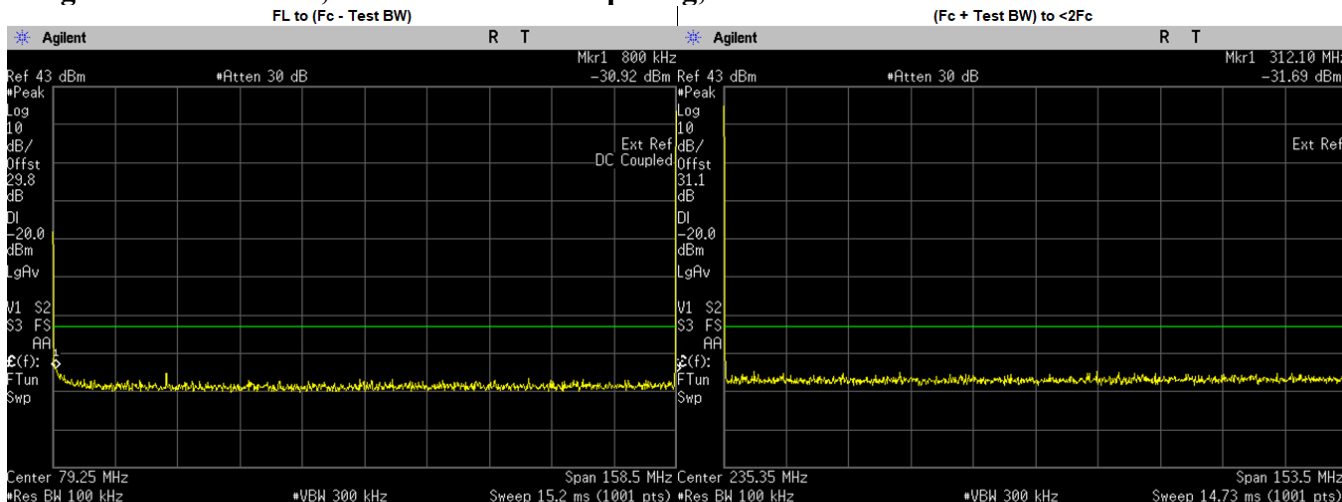
6.9.3. Test Result (Digital)

Digital.: 138.0125. MHz, 12.5 kHz Channel Spacing, Max Power
 Nor for FCC review



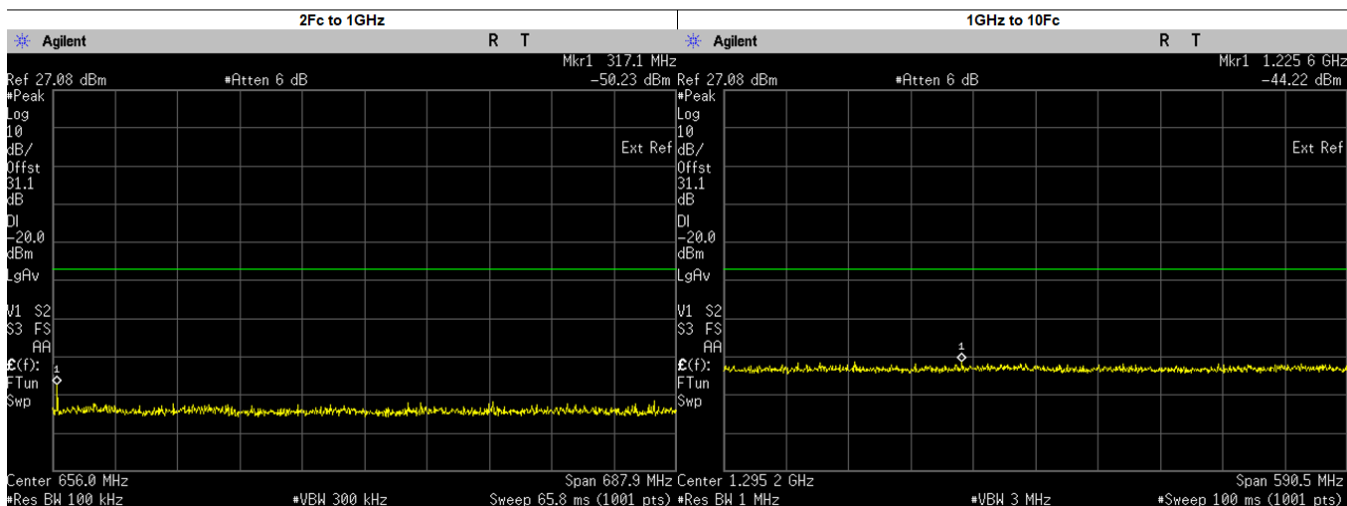
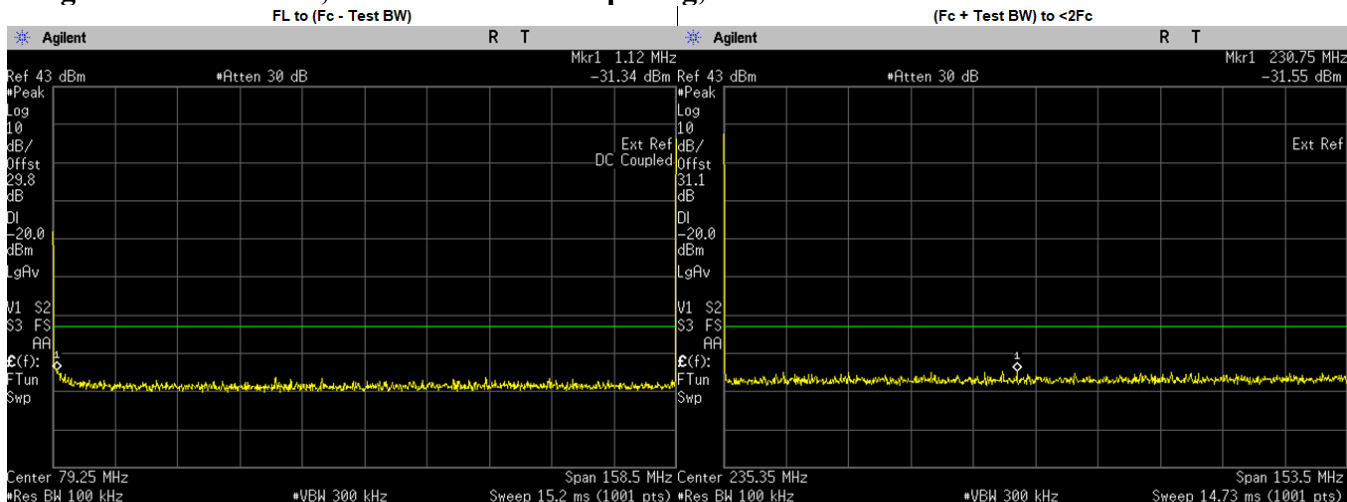
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	2.4900	-32.1180	-20.00	PASS
(Fc + Test BW) to <2Fc	263.5794	-31.6700	-20.00	PASS
2Fc to 1GHz	690.1000	-43.9200	-20.00	PASS
	276.0250	-49.1405	-20.00	PASS
	414.0375	-54.9240	-20.00	PASS
	552.0500	-54.7338	-20.00	PASS
	828.0750	-48.8802	-20.00	PASS
	966.0875	-49.5693	-20.00	PASS
1GHz to 10Fc	1358.1660	-43.6400	-20.00	PASS
	1104.1000	-45.5714	-20.00	PASS
	1242.1120	-46.0024	-20.00	PASS
	1380.1250	-45.1665	-20.00	PASS

Digital.: 158.55. MHz, 12.5 kHz Channel Spacing, Max Power



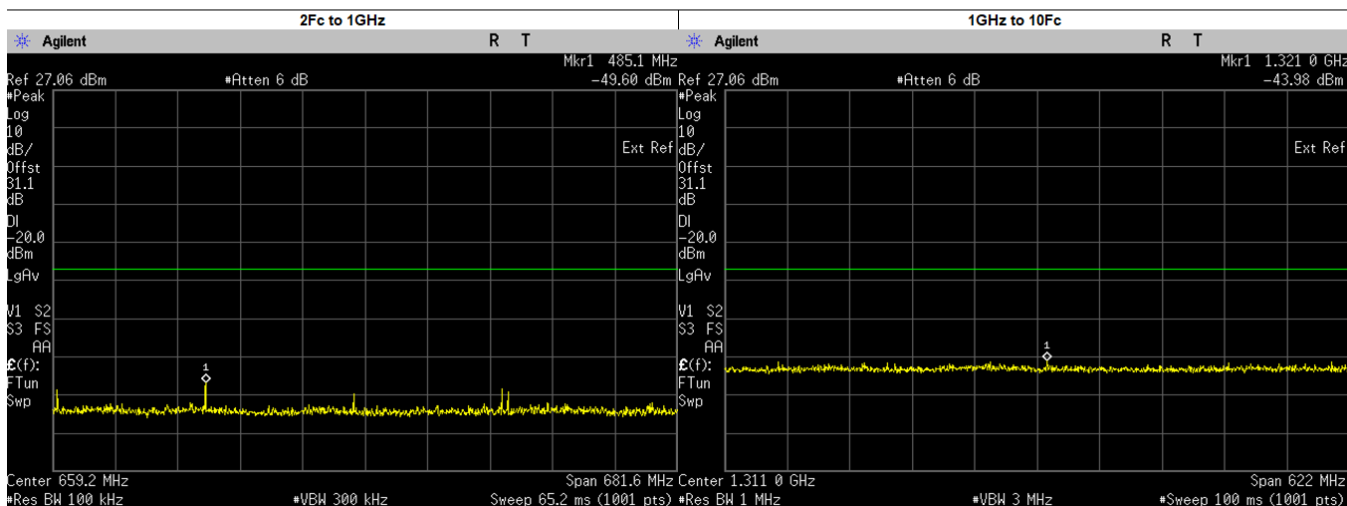
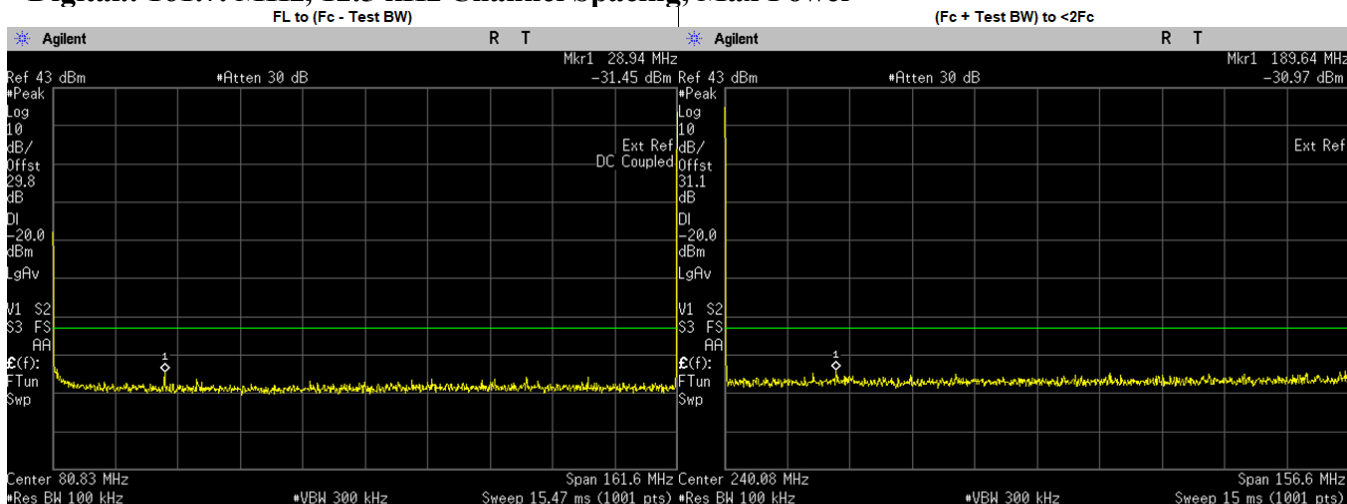
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.8000	-30.9190	-20.00	PASS
(Fc + Test BW) to <2Fc	312.1000	-31.6900	-20.00	PASS
2Fc to 1GHz	792.8000	-51.1200	-20.00	PASS
	317.1000	-53.4268	-20.00	PASS
	475.6500	-53.1820	-20.00	PASS
	634.2000	-52.8809	-20.00	PASS
	951.3000	-57.8007	-20.00	PASS
1GHz to 10Fc	1327.7270	-44.3000	-20.00	PASS
	1109.8500	-46.1676	-20.00	PASS
	1268.4000	-46.0198	-20.00	PASS
	1426.9500	-46.1150	-20.00	PASS
	1585.5000	-45.9135	-20.00	PASS

Digital.: 158.55. MHz, 12.5 kHz Channel Spacing, Low Power



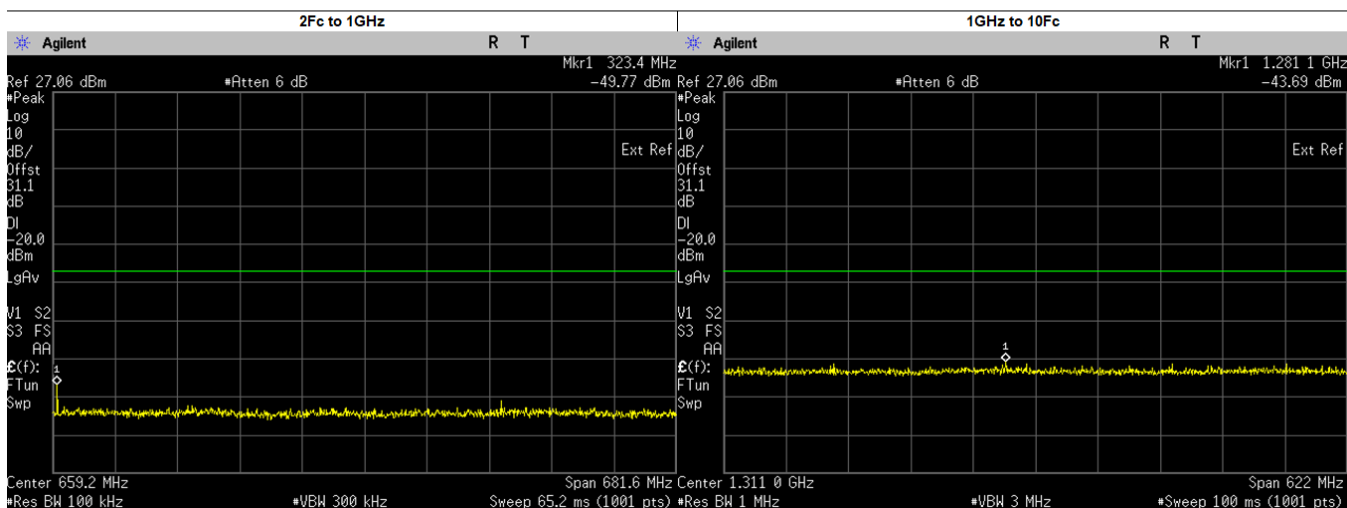
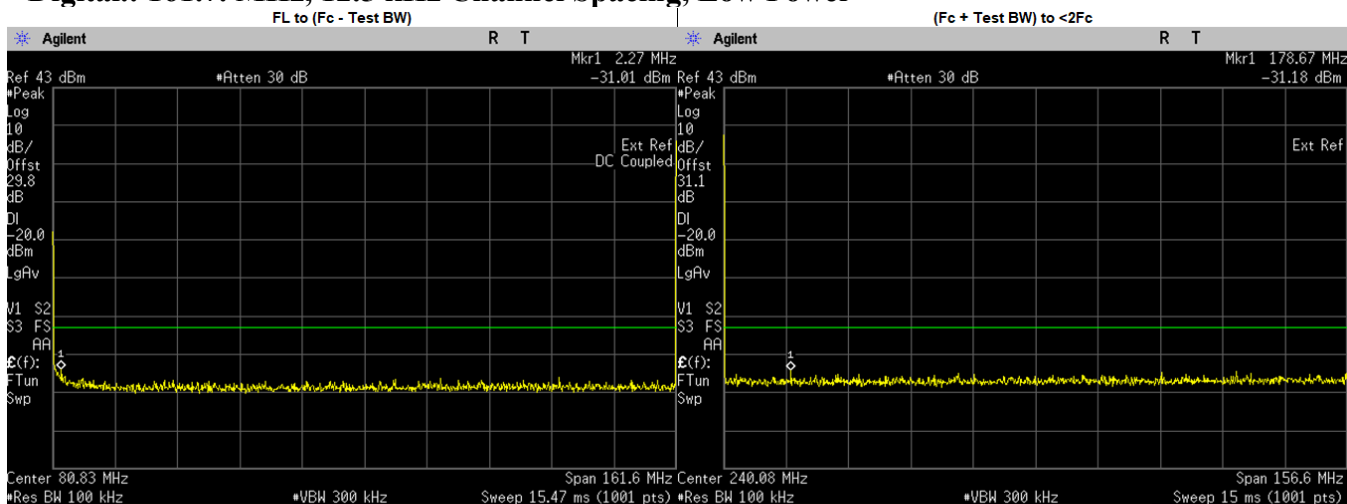
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	1.1200	-31.3360	-20.00	PASS
(Fc + Test BW) to <2Fc	230.7480	-31.5500	-20.00	PASS
2Fc to 1GHz	317.1000	-50.2300	-20.00	PASS
	475.6500	-56.3846	-20.00	PASS
	634.2000	-55.9697	-20.00	PASS
	792.7500	-55.8781	-20.00	PASS
	951.3000	-55.9108	-20.00	PASS
1GHz to 10Fc	1225.5710	-44.2300	-20.00	PASS
	1109.8500	-44.9374	-20.00	PASS
	1268.4000	-45.2562	-20.00	PASS
	1426.9500	-46.3092	-20.00	PASS
	1585.5000	-46.5904	-20.00	PASS

Digital: 161.7. MHz, 12.5 kHz Channel Spacing, Max Power



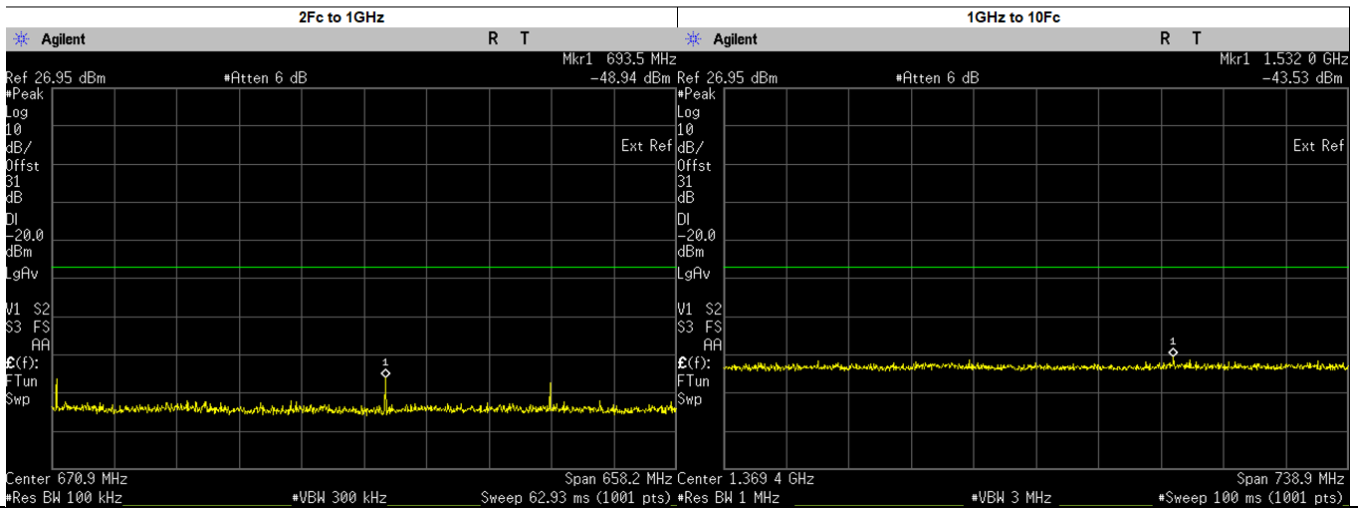
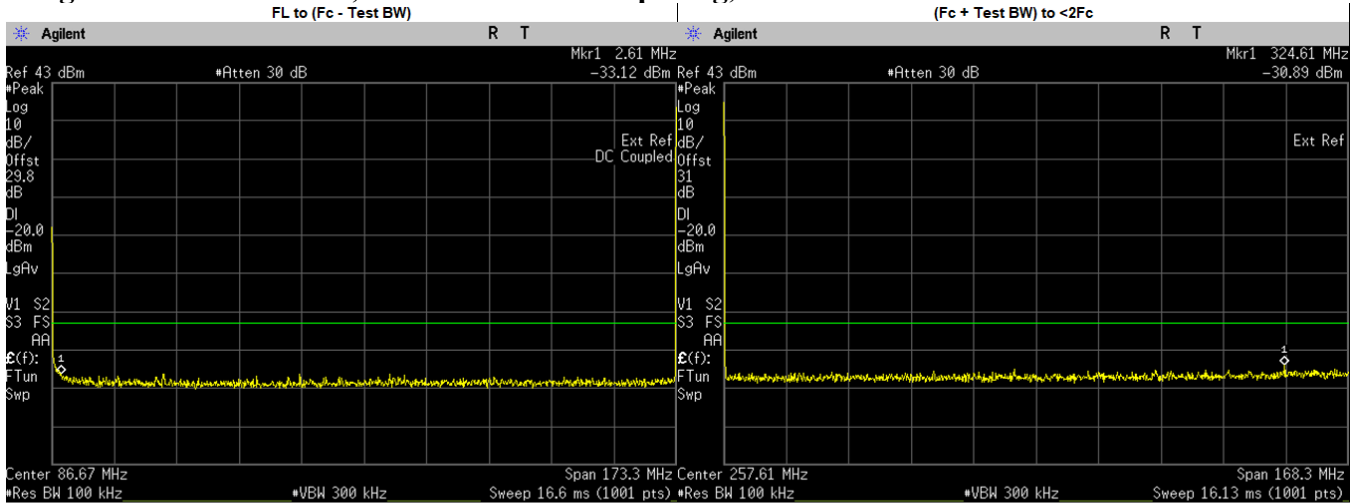
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	28.9400	-31.4490	-20.00	PASS
(Fc + Test BW) to <2Fc	189.6383	-30.9700	-20.00	PASS
2Fc to 1GHz	485.1000	-49.6000	-20.00	PASS
	323.4000	-53.1049	-20.00	PASS
	646.8000	-53.5171	-20.00	PASS
	808.5000	-51.4785	-20.00	PASS
	970.2000	-55.7880	-20.00	PASS
1GHz to 10Fc	1320.9520	-43.9800	-20.00	PASS
	1131.9000	-45.7487	-20.00	PASS
	1293.6000	-46.3280	-20.00	PASS
	1455.3000	-46.1052	-20.00	PASS
	1617.0000	-45.9990	-20.00	PASS

Digital: 161.7. MHz, 12.5 kHz Channel Spacing, Low Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	2.2700	-31.0090	-20.00	PASS
(Fc + Test BW) to <2Fc	178.6732	-31.1800	-20.00	PASS
2Fc to 1GHz	323.4000	-49.7700	-20.00	PASS
	485.1000	-56.5895	-20.00	PASS
	646.8000	-56.6494	-20.00	PASS
	808.5000	-54.0823	-20.00	PASS
	970.2000	-57.0451	-20.00	PASS
1GHz to 10Fc	1281.1440	-43.6900	-20.00	PASS
	1131.9000	-47.0055	-20.00	PASS
	1293.6000	-46.2276	-20.00	PASS
	1455.3000	-46.7772	-20.00	PASS
	1617.0000	-46.3874	-20.00	PASS

Digital.: 173.3875. MHz, 12.5 kHz Channel Spacing, Max Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	2.6100	-33.1210	-20.00	PASS
(Fc + Test BW) to <2Fc	324.6051	-30.8900	-20.00	PASS
2Fc to 1GHz	693.9254	-50.8700	-20.00	PASS
	346.7750	-50.3303	-20.00	PASS
	520.1625	-55.5047	-20.00	PASS
	693.5500	-49.7672	-20.00	PASS
	866.9375	-51.4039	-20.00	PASS
1GHz to 10Fc	1531.9900	-43.5300	-20.00	PASS
	1040.3250	-46.0759	-20.00	PASS
	1213.7130	-46.6337	-20.00	PASS
	1387.1000	-46.4490	-20.00	PASS
	1560.4870	-45.8397	-20.00	PASS
	1733.8750	-46.4656	-20.00	PASS

6.9.4. Test Limit

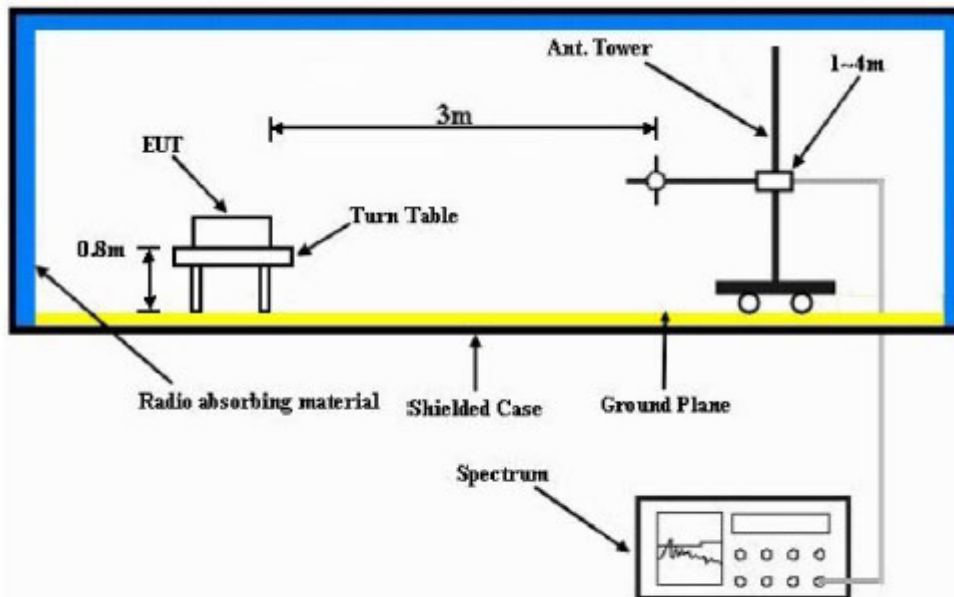
Table below summarized the power of any emission outside a licensee’s frequency block shall be attenuated below the transmitter power (P) by at least

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)

6.10. Radiated Spurious Emission

6.10.1. 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 $F_c < 1\text{GHz}$) or 1.5m height (for $F_c > 1\text{GHz}$) 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.

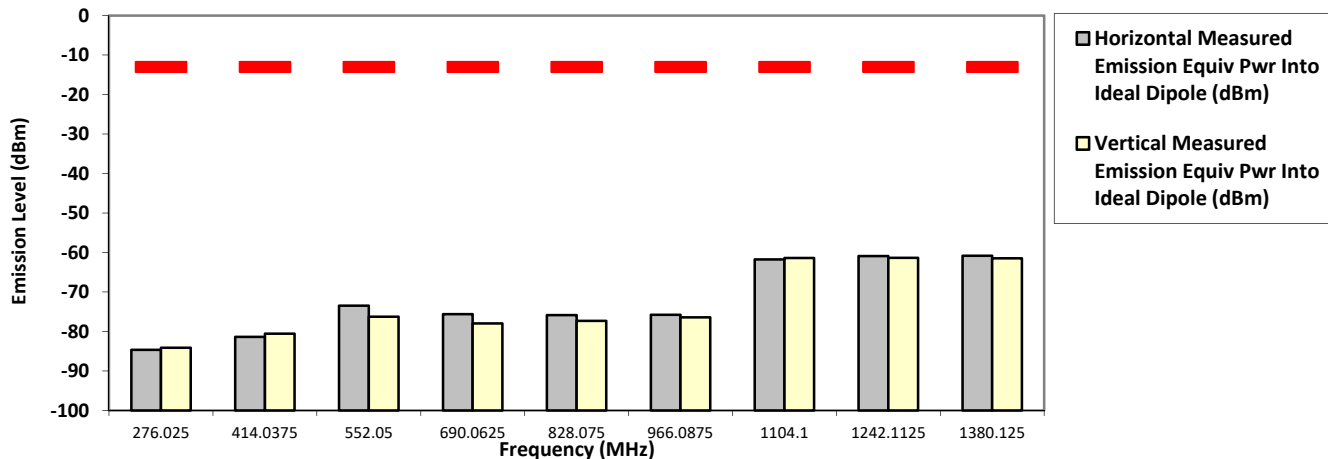
6.10.2. Test Result (Analog)

SAC Transmitter Radiated Emission:

Model Number: AAH01JDC9JA2AN S/N: 752TXR1415 SR:29147-EMC-00010
 Battery Part No: NNTN4497DR Accy Part No: NA
 Test Mode: TX Analog
 138.012500 MHz (Not for FCC review) 25 kHz 6.000 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equip Pwr Into ideal Dipole (dBm)
276.0250	-13.0000	-84.6625 **	-84.1063 **
414.0375	-13.0000	-81.3634 **	-80.5742 **
552.0500	-13.0000	-73.4654 **	-76.2726 **
690.0625	-13.0000	-75.6297 **	-77.9769 **
828.0750	-13.0000	-75.8723 **	-77.3056 **
966.0875	-13.0000	-75.7851 **	-76.4234 **
1104.1000	-13.0000	-61.7506 **	-61.4052 **
1242.1125	-13.0000	-60.8973 **	-61.3530 **
1380.1250	-13.0000	-60.8342 **	-61.4828 **

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: Amaluddin&Qawiman Sat, 25 Sep, 2021

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): 22.8 Hum(%RH): 70.0

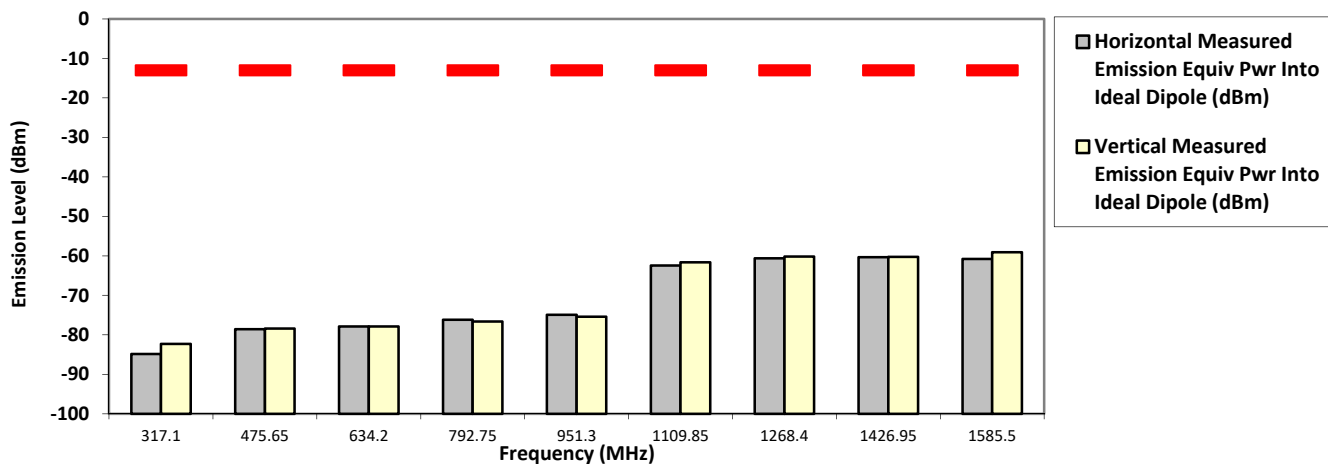
Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: AAH01JDC9JA2AN S/N: 752TXR1415 SR:29147-EMC-00010
 Battery Part No: NNTN4497DR Accy Part No: NA
 Test Mode: TX Analog
 158.55000 MHz (For Part 22) 25 kHz 6.000 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)
317.1000	-13.0000	-84.8722 **	-82.3045 **
475.6500	-13.0000	-78.5565 **	-78.4310 **
634.2000	-13.0000	-77.8673 **	-77.8973 **
792.7500	-13.0000	-76.1787 **	-76.6109 **
951.3000	-13.0000	-74.9136 **	-75.4007 **
1109.8500	-13.0000	-62.4294 **	-61.6549 **
1268.4000	-13.0000	-60.6307 **	-60.1641 **
1426.9500	-13.0000	-60.3453 **	-60.2579 **
1585.5000	-13.0000	-60.7733 **	-59.0788 **

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: Amaluddin&Qawiman Sat, 25 Sep, 2021

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): 22.8 Hum(%RH): 70.0

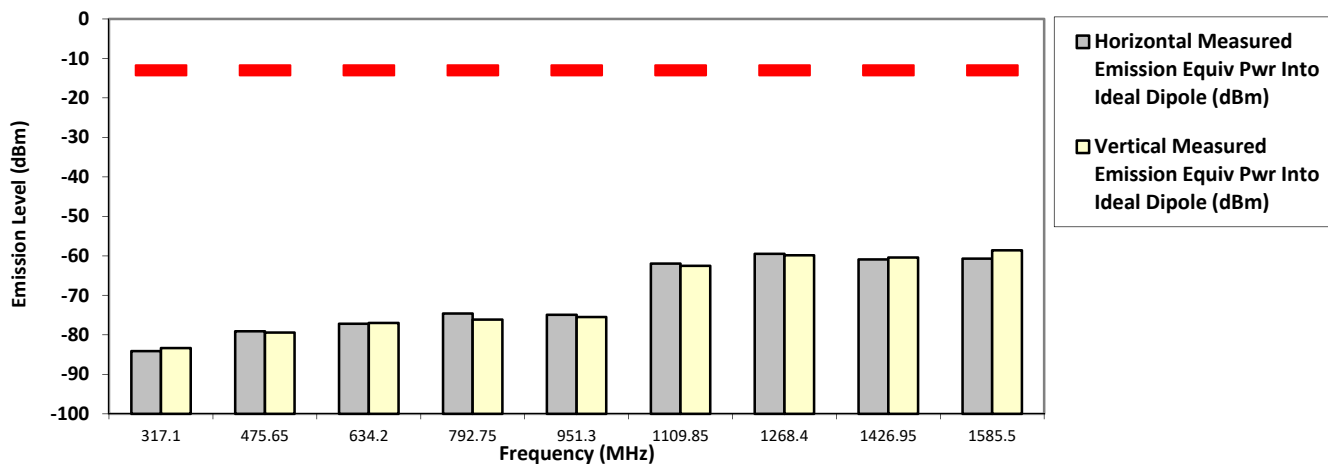
Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: AAH01JDC9JA2AN S/N: 752TXR1415 SR:29147-EMC-00010
 Battery Part No: NNTN4497DR Accy Part No: NA
 Test Mode: TX Analog
 158.55000 MHz (For Part 22) 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)
317.1000	-13.0000	-84.1134 **	-83.3364 **
475.6500	-13.0000	-79.1096 **	-79.4191 **
634.2000	-13.0000	-77.1916 **	-77.0083 **
792.7500	-13.0000	-74.6160 **	-76.1267 **
951.3000	-13.0000	-74.9329 **	-75.4836 **
1109.8500	-13.0000	-61.9666 **	-62.5151 **
1268.4000	-13.0000	-59.4814 **	-59.8743 **
1426.9500	-13.0000	-60.9177 **	-60.4265 **
1585.5000	-13.0000	-60.7035 **	-58.5851 **

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: Amaluddin&Qawiman Sat, 25 Sep, 2021

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): 22.8 Hum(%RH): 70.0

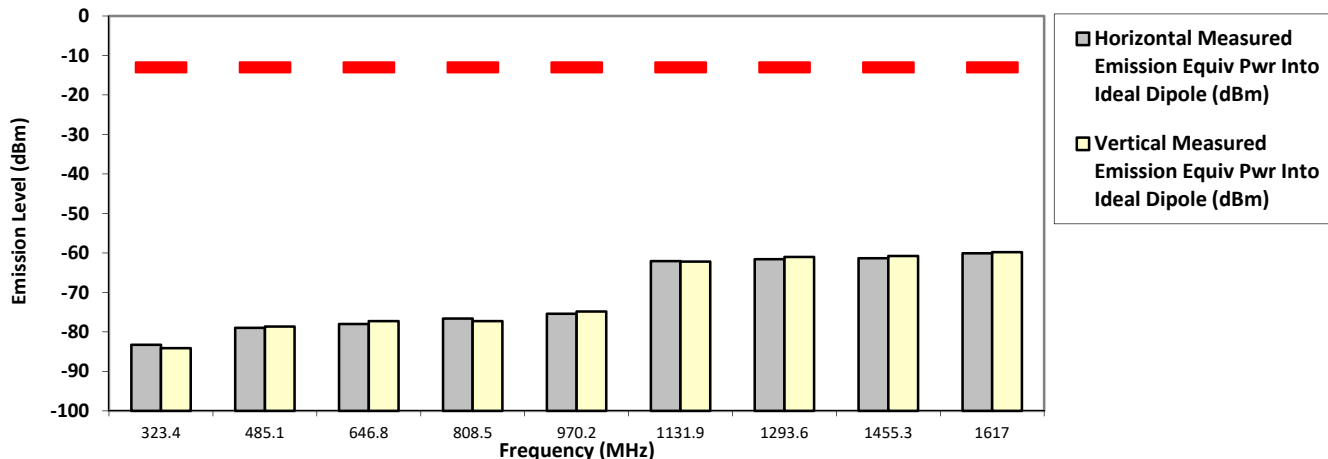
Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: AAH01JDC9JA2AN **S/N: 752TXR1415** **SR:29147-EMC-00010**
Battery Part No: NNTN4497DR **Accy Part No: NA**
Test Mode: TX Analog
161.700000 MHz (Not for FCC review) **25 kHz** **6.000 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equip Pwr Into ideal Dipole (dBm)
323.4000	-13.0000	-83.2662 **	-84.1086 **
485.1000	-13.0000	-78.9739 **	-78.6752 **
646.8000	-13.0000	-78.0106 **	-77.2879 **
808.5000	-13.0000	-76.6100 **	-77.2723 **
970.2000	-13.0000	-75.4088 **	-74.8389 **
1131.9000	-13.0000	-62.0760 **	-62.2002 **
1293.6000	-13.0000	-61.5958 **	-61.0293 **
1455.3000	-13.0000	-61.3707 **	-60.7705 **
1617.0000	-13.0000	-60.1024 **	-59.8277 **

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: Amaluddin&Qawiman Sat, 25 Sep, 2021

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): 22.8 Hum(%RH): 70.0

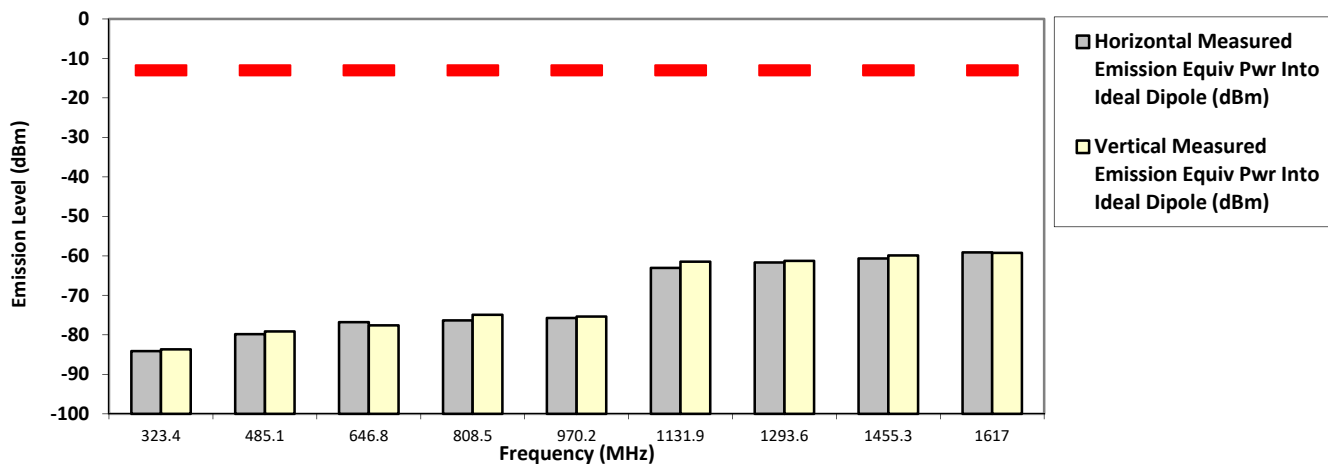
Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: AAH01JDC9JA2AN S/N: 752TXR1415 SR:29147-EMC-00010
 Battery Part No: NNTN4497DR Accy Part No: NA
 Test Mode: TX Analog
 161.700000 MHz (Not for FCC review) 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)
323.4000	-13.0000	-84.1206 **	-83.6857 **
485.1000	-13.0000	-79.8473 **	-79.1560 **
646.8000	-13.0000	-76.7997 **	-77.6189 **
808.5000	-13.0000	-76.3632 **	-74.9279 **
970.2000	-13.0000	-75.7515 **	-75.3708 **
1131.9000	-13.0000	-63.0519 **	-61.4877 **
1293.6000	-13.0000	-61.6913 **	-61.2836 **
1455.3000	-13.0000	-60.6602 **	-59.9078 **
1617.0000	-13.0000	-59.1135 **	-59.2470 **

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: Amaluddin&Qawiman Sat, 25 Sep, 2021

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): 22.8 Hum(%RH): 70.0

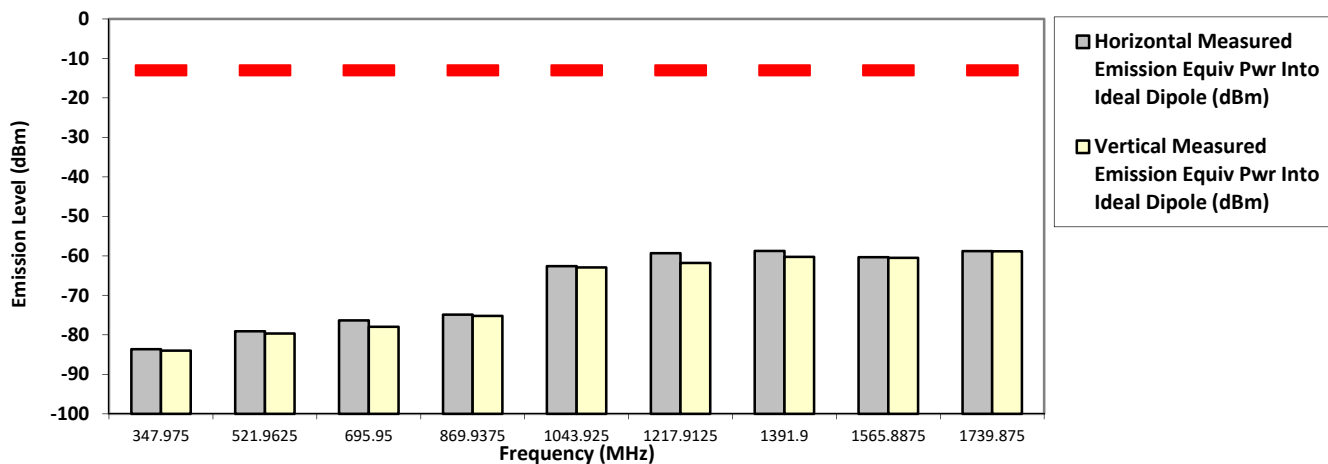
Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: AAH01JDC9JA2AN S/N: 752TXR1415 SR:29147-EMC-00010
 Battery Part No: NNTN4497DR Test Mode: TX Analog Accy Part No: NA
 173.987500 MHz (Not for FCC review) 25 kHz 6.000 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)
347.9750	-13.0000	-83.6537 **	-83.9975 **
521.9625	-13.0000	-79.0993 **	-79.6512 **
695.9500	-13.0000	-76.3609 **	-77.9658 **
869.9375	-13.0000	-74.8727 **	-75.1920 **
1043.9250	-13.0000	-62.6145 **	-62.9213 **
1217.9125	-13.0000	-59.3449 **	-61.8201 **
1391.9000	-13.0000	-58.7610 **	-60.2458 **
1565.8875	-13.0000	-60.3354 **	-60.4970 **
1739.8750	-13.0000	-58.8228 **	-58.8593 **

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: Amaluddin&Qawiman Sat, 25 Sep, 2021

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): 22.8 Hum(%RH): 70.0

Remarks: Passed Results Marginal Results Failed Results

6.10.3. Test Result (Digital)

SAC Transmitter Radiated Emission:

Model Number: AAH01JDC9JA2AN

S/N: 752TXR1415

SR:29147-EMC-00010

Battery Part No: NNTN4497DR

Accy Part No: NA

Test Mode: TX Digital

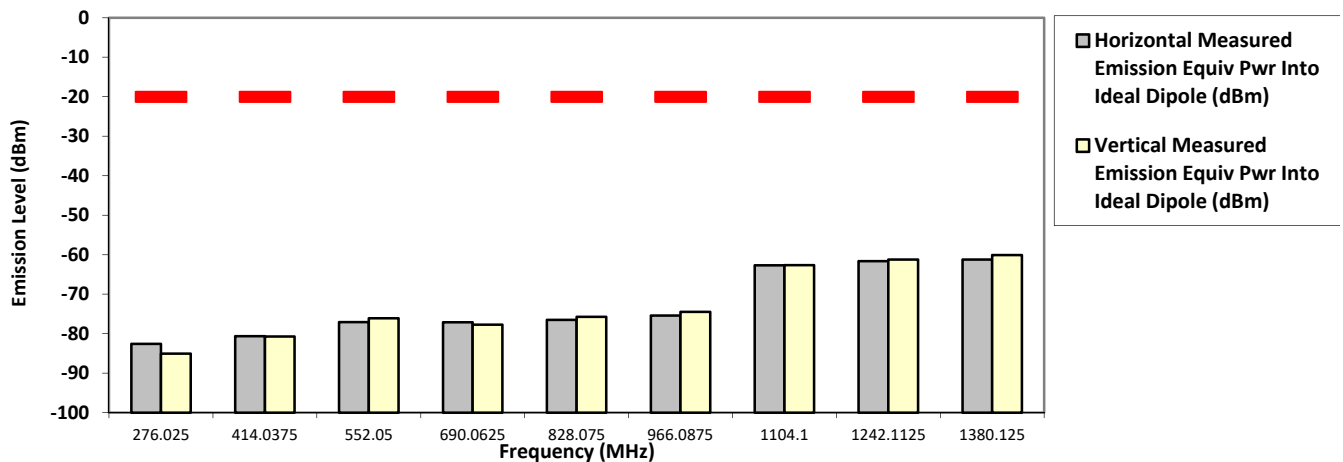
138.012500 MHz (Not for FCC review)

12.5 kHz

6.000 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)
276.0250	-20.0000	-82.6055 **	-85.0623 **
414.0375	-20.0000	-80.6455 **	-80.7127 **
552.0500	-20.0000	-77.0814 **	-76.0842 **
690.0625	-20.0000	-77.1272 **	-77.7121 **
828.0750	-20.0000	-76.5039 **	-75.7448 **
966.0875	-20.0000	-75.4297 **	-74.5006 **
1104.1000	-20.0000	-62.6858 **	-62.6529 **
1242.1125	-20.0000	-61.6532 **	-61.2464 **
1380.1250	-20.0000	-61.2283 **	-60.0792 **

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: Amaluddin&Qawiman Sat, 25 Sep, 2021

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): 22.8 Hum(%RH): 70.0

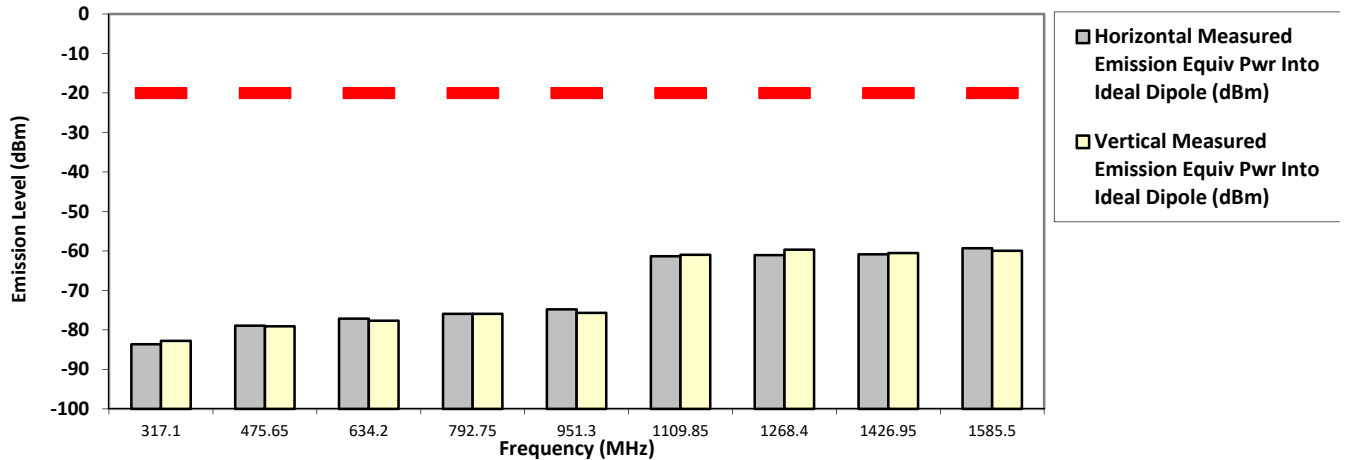
Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: AAH01JDC9JA2AN S/N: 752TXR1415 SR:29147-EMC-00010
 Battery Part No: NNTN4497DR Test Mode: TX Digital Accy Part No: NA
 158.550000 MHz 12.5 kHz 6.000 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equip Pwr Into ideal Dipole (dBm)
317.1000	-20.0000	-83.6530 **	-82.7769 **
475.6500	-20.0000	-78.9201 **	-79.0841 **
634.2000	-20.0000	-77.1702 **	-77.6682 **
792.7500	-20.0000	-75.9479 **	-75.9517 **
951.3000	-20.0000	-74.7915 **	-75.7173 **
1109.8500	-20.0000	-61.3482 **	-61.0003 **
1268.4000	-20.0000	-61.0748 **	-59.6776 **
1426.9500	-20.0000	-60.8799 **	-60.5373 **
1585.5000	-20.0000	-59.3119 **	-59.9693 **

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: Amaluddin&Qawiman Sat, 25 Sep, 2021

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): 22.8 Hum(%RH): 70.0

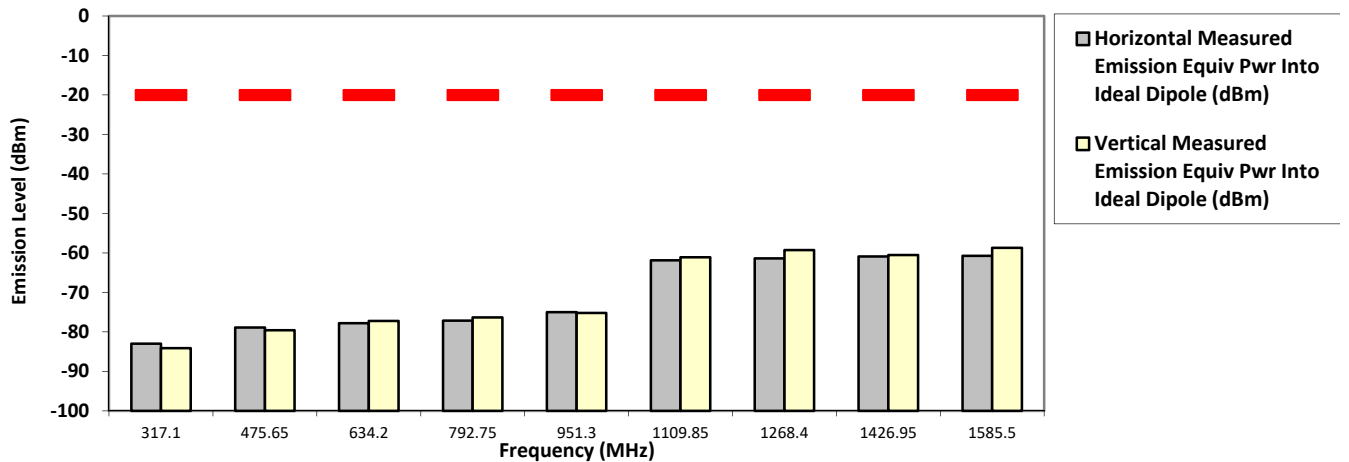
Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: AAH01JDC9JA2AN S/N: 752TXR1415 SR:29147-EMC-00010
 Battery Part No: NNTN4497DR Test Mode: TX Digital Accy Part No: NA
 158.550000 MHz 12.5 kHz 1.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equip Pwr Into ideal Dipole (dBm)
317.1000	-20.0000	-82.9835 **	-84.1374 **
475.6500	-20.0000	-78.8838 **	-79.5929 **
634.2000	-20.0000	-77.8166 **	-77.2203 **
792.7500	-20.0000	-77.1389 **	-76.3474 **
951.3000	-20.0000	-75.0180 **	-75.2316 **
1109.8500	-20.0000	-61.8651 **	-61.0928 **
1268.4000	-20.0000	-61.3921 **	-59.2817 **
1426.9500	-20.0000	-60.9208 **	-60.5555 **
1585.5000	-20.0000	-60.7625 **	-58.7034 **

RADIATED SPURIOUS EMISSIONS



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 Motorola Penang EMC Lab - Test Performed by: Amaluddin&Qawiman Sat, 25 Sep, 2021

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): 22.8 Hum(%RH): 70.0

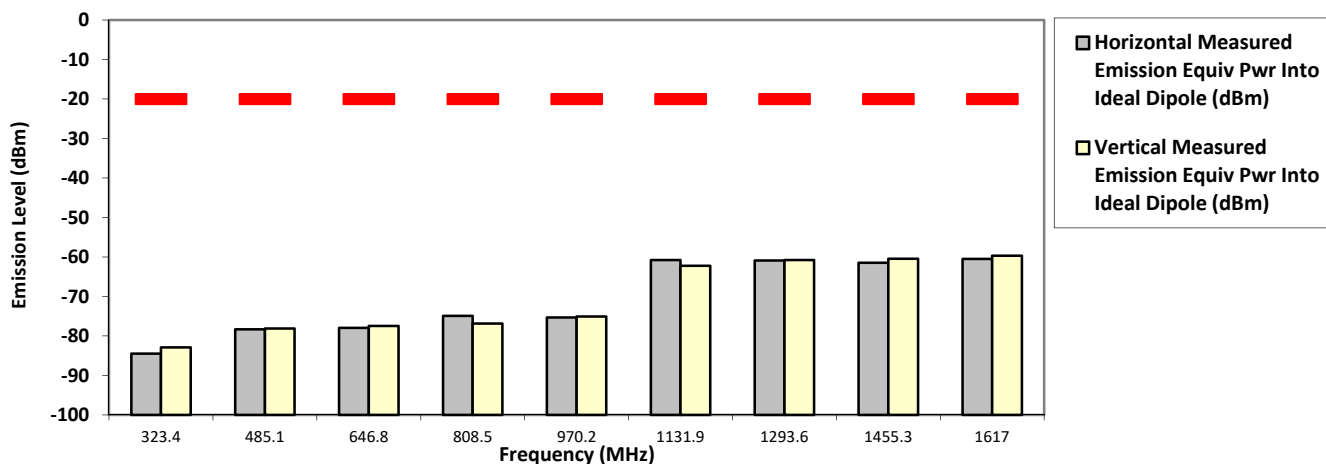
Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: AAH01JDC9JA2AN S/N: 752TXR1415 SR:29147-EMC-00010
 Battery Part No: NNTN4497DR Accy Part No: NA
 Test Mode: TX Digital
 161.700000 MHz 12.5 kHz 6.000 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)
323.4000	-20.0000	-84.4876 **	-82.9255 **
485.1000	-20.0000	-78.3140 **	-78.1405 **
646.8000	-20.0000	-77.9540 **	-77.4801 **
808.5000	-20.0000	-74.9390 **	-76.8543 **
970.2000	-20.0000	-75.3180 **	-75.0813 **
1131.9000	-20.0000	-60.8057 **	-62.2435 **
1293.6000	-20.0000	-60.9172 **	-60.7771 **
1455.3000	-20.0000	-61.4651 **	-60.4612 **
1617.0000	-20.0000	-60.5180 **	-59.7122 **

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: Amaluddin&Qawiman Sat, 25 Sep, 2021

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): 22.8 Hum(%RH): 70.0

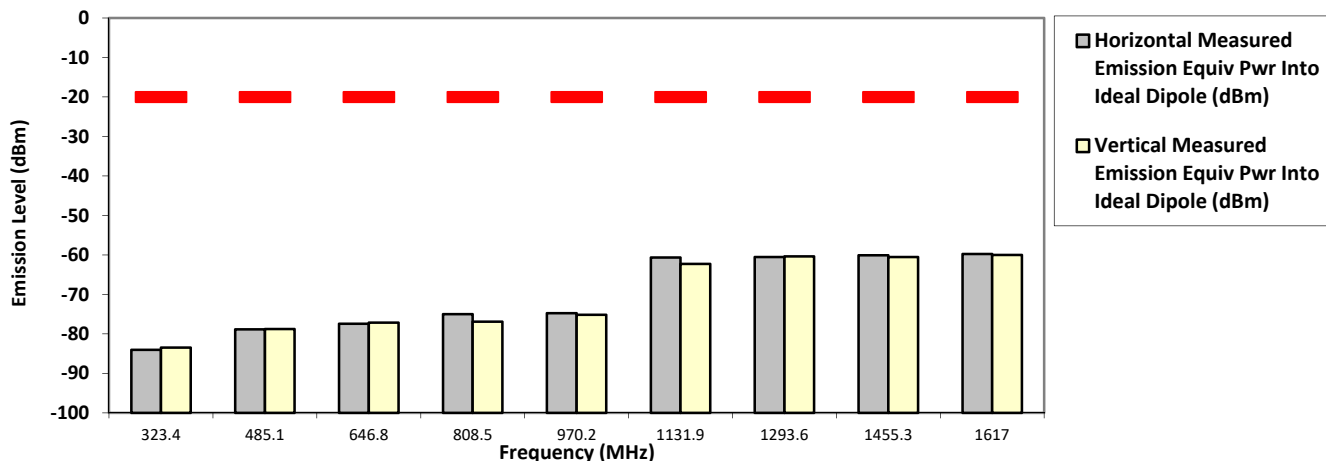
Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: AAH01JDC9JA2AN S/N: 752TXR1415 SR:29147-EMC-00010
 Battery Part No: NNTN4497DR Test Mode: TX Digital Accy Part No: NA
 161.700000 MHz 12.5 kHz 1.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equip Pwr Into ideal Dipole (dBm)
323.4000	-20.0000	-84.0571 **	-83.4880 **
485.1000	-20.0000	-78.8410 **	-78.7824 **
646.8000	-20.0000	-77.4535 **	-77.1718 **
808.5000	-20.0000	-75.0234 **	-76.8972 **
970.2000	-20.0000	-74.7839 **	-75.1876 **
1131.9000	-20.0000	-60.6481 **	-62.2717 **
1293.6000	-20.0000	-60.5625 **	-60.3783 **
1455.3000	-20.0000	-60.1151 **	-60.5497 **
1617.0000	-20.0000	-59.7649 **	-60.0194 **

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: Amaluddin&Qawiman Sat, 25 Sep, 2021

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): 22.8 Hum(%RH): 70.0

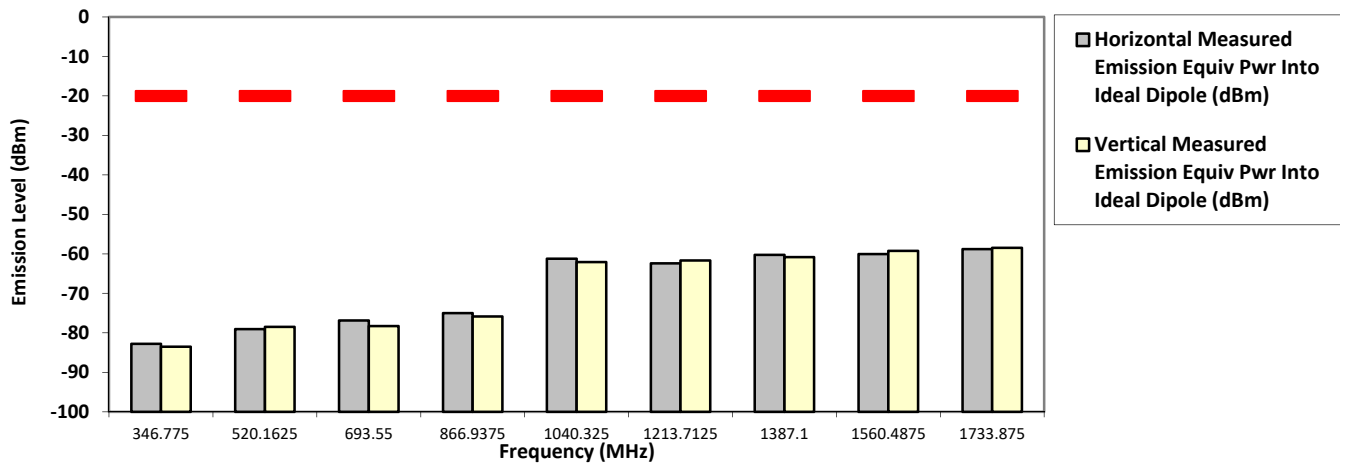
Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: AAH01JDC9JA2AN S/N: 752TXR1415 SR:29147-EMC-00010
 Battery Part No: NNTN4497DR Test Mode: TX Digital Accy Part No: NA
 173.387500 MHz 12.5 kHz 6.000 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)
346.7750	-20.0000	-82.7718 **	-83.5164 **
520.1625	-20.0000	-79.0543 **	-78.4795 **
693.5500	-20.0000	-76.8561 **	-78.2895 **
866.9375	-20.0000	-74.9980 **	-75.8708 **
1040.3250	-20.0000	-61.2470 **	-62.0941 **
1213.7125	-20.0000	-62.4246 **	-61.6895 **
1387.1000	-20.0000	-60.2498 **	-60.8219 **
1560.4875	-20.0000	-60.0451 **	-59.2681 **
1733.8750	-20.0000	-58.8136 **	-58.4850 **

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: Amaluddin&Qawiman Sat, 25 Sep, 2021

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): 22.8 Hum(%RH): 70.0

Remarks: Passed Results Marginal Results Failed Results

6.10.4. Test Limit

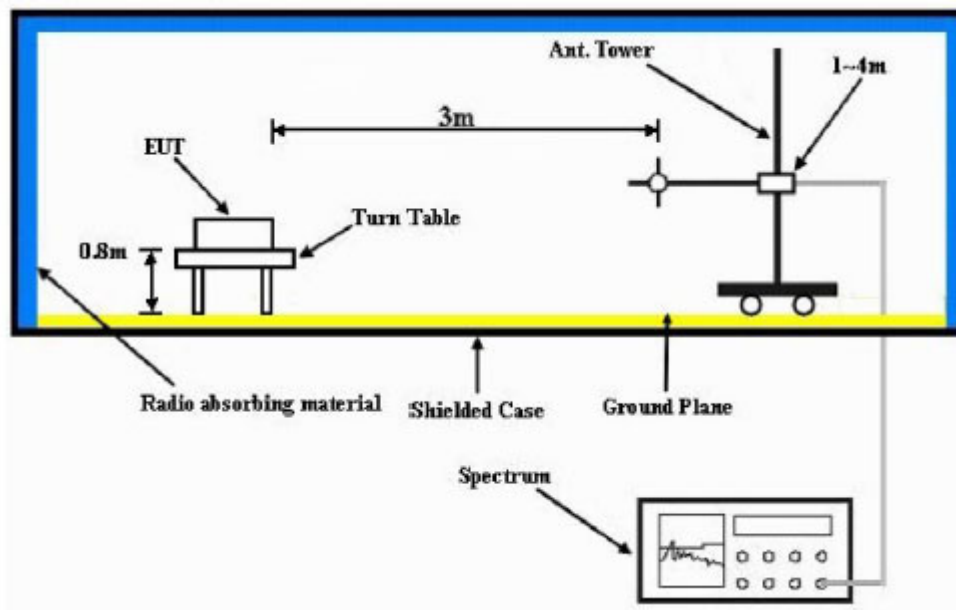
Table below summarized the power of any emission outside a licensee’s frequency block shall be attenuated below the transmitter power (P) by at least

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)

6.11. Effective Radiated Power (ERP)

6.11.1. 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 (for $F_c < 1\text{GHz}$) or 1.5m (for $F_c > 1\text{GHz}$) 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.

6.11.2. Test Result

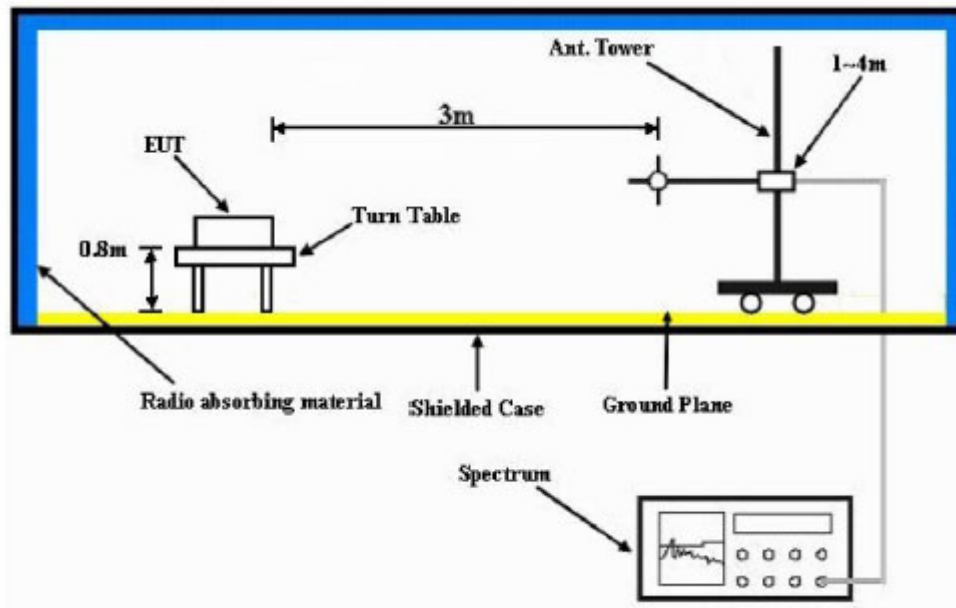
Not Applicable.

6.11.3. 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).

6.12. GNSS (EIRP for 1559 - 1610MHz)

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

6.12.1. Test Result

Not Applicable.

6.12.2. 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 Test Report ~