High Power Level:



Low Power Level:



Report No.: 2402Z38638E-RF-00A



High Power Level:



Page 34 of 66

Low Power Level:



Page 35 of 66

4.5 Transmitter Unwanted Emissions(Conducted)

4.5.1 Applicable Standard

FCC §80.211 Emission limitations

(f) The mean power when using emissions other than those in paragraphs (a), (b), (c) and (d) of this section:

(1) On any frequency removed from the assigned frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: At least 25 dB;

(2) On any frequency removed from the assigned frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: At least 35 dB; and

(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 plus 10log10 (mean power in watts) dB.

4.5.2 Block Diagram of Test Setup



Note: The Insertion loss of the RF cable, Attenuators was offset into the Spectrum Analyzer.

4.5.3 Test Procedure

According to ANSI C63.26-2015 Section 5.7.4:

a) Set the spectrum analyzer start frequency to the lowest frequency generated by the EUT, without going below 9 kHz, and the stop frequency to the lower frequency covered by the measurements previously performed in 5.7.3. As an alternative, the stop frequency can be set to the value specified in 5.1.1, depending on the EUT operating range, if the resulting plot can clearly demonstrate compliance for all frequencies not addressed by the out-of-band emissions measurements performed as per 5.7.3.

b) When using an average power (rms) detector, ensure that the number of points in the sweep $\geq 2 \times$ (span / RBW). This may require that the measurement range defined by the start and stop frequencies be subdivided, depending on the spectrum analyzer capabilities. This requirement does not apply to peak-detected power measurements. When average power is specified by the applicable regulation, a peak-detector can be utilized for preliminary measurements to accommodate wider frequency spans. Any emissions found in the preliminary measurement to exceed the applicable limit(s) shall be further examined using a power averaging (rms) detector with the minimum number of measurement points as defined above.

Report Template Version: FCC-80-V1.2

Page 36 of 66

Bay Area Compliance Laboratories Corp. (Dongguan)

c) The sweep time should be set to auto-couple for performing peak-detector measurements. For measurements that use a power averaging (rms) detector, the sweep time shall be set as described for out-of-band emissions measurements in item d) of 5.7.3.

d) Identify and measure the highest spurious emission levels in each frequency range. It is not necessary to re-measure the out-of-band emissions as a part of this test. Record the frequencies and amplitudes corresponding to the measured emissions and capture the data plots.

e) Repeat step b) through step d) for the upper spurious emission frequency range if not already captured by a wide span measurement performed as per the alternative provided in step a). The upper frequency for this measurement is defined in 5.1.1 as a function of the EUT operating range.

f) Compare the results with the corresponding limit in the applicable regulation.

g) The test report shall include the data plots of the measuring instrument display and the measured data.

4.5.4 Test Data And Result

Serial Number:	2TXQ-2	Test Date:	2024/11/29
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jojo Zhou	Test Result:	Pass

Environmental Conditions:								
Temperature: (℃)	23.1	Relative Humidity: (%)	31	ATM Pressure: (kPa)	102.3			

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101947	2024/9/5	2025/9/4
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-03	2024/8/23	2025/8/22
Huaxiang	Coaxial Attenuator	DTS250-30	11022109	2024/6/7	2025/6/6
HP	RF Communications Test Set	8920A	3438A05201	2024/10/17	2025/10/16

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Only the high power level was tested for the channel with difference power level

Bay Area Compliance Laboratories Corp. (Dongguan)

Report No.: 2402Z38638E-RF-00A





156.050 MHz

ProjectNo.:2402Z38638E=RF Tester:Jojo Zhou

Date: 29.NOV.2024 11:26:05

offset 31.20 dB
RBW 100 kHz Spectrum 4 Spe Ref Leve 50.00 de Att 30 dB SWT 20 ms 👄 VBW 300 kHz Mode Sweet -26.79 dBi 930.3780 MH 40 dBm Fundamental 30 dBm 20 dBm 10 dBm) dBr 10 dBm 13.00 20 dBi M1 40 dBm Start 30.0 20000 Stop 1.0 GHz inte



ProjectNo.:2402Z38638E-RF Tester:Jojo Zhou Date: 29.NOV.2024 11:25:13 ProjectNo.:2402Z38638E=RF Tester:Jojo Zhou

ProjectNo.:2402238638E=RF Tester:Jojo Zhou

Date: 29.NOV.2024 11:26:58

Report Template Version: FCC-80-V1.2

Page 39 of 66