

10. Frequency Stability Measurement

10.1. Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

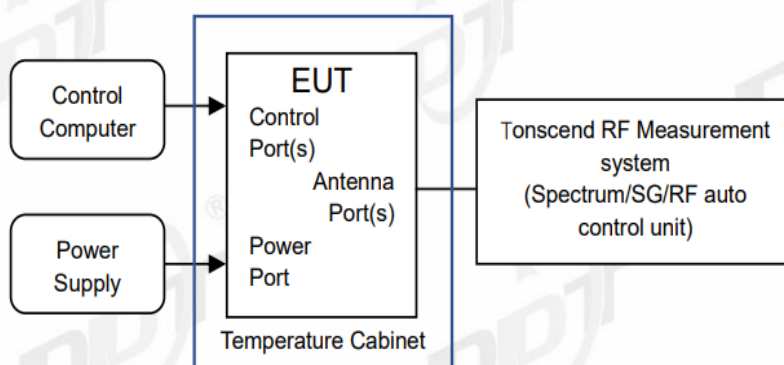
10.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

10.3. Test procedures

- (1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
- (2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value.
- (3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

10.4. Test setup



10.5. Test result

Voltage								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-40000.00	-7.722008	20	PASS
			HV	NT	-40000.00	-7.722008	20	PASS
	Ant2	5180	NV	NT	-40000.00	-7.722008	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-40000.00	-7.722008	20	PASS
	Ant1	5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	-20000.00	-3.846154	20	PASS
			HV	NT	-20000.00	-3.846154	20	PASS
	Ant2	5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	-20000.00	-3.846154	20	PASS
			HV	NT	-20000.00	-3.846154	20	PASS
	Ant1	5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	-40000.00	-7.633588	20	PASS
	Ant2	5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	-20000.00	-3.816794	20	PASS
	Ant1	5260	NV	NT	-20000.00	-3.802281	20	PASS
			LV	NT	-20000.00	-3.802281	20	PASS
			HV	NT	-20000.00	-3.802281	20	PASS
	Ant2	5260	NV	NT	-20000.00	-3.802281	20	PASS
			LV	NT	-20000.00	-3.802281	20	PASS
			HV	NT	-20000.00	-3.802281	20	PASS
	Ant1	5280	NV	NT	-20000.00	-3.787879	20	PASS
			LV	NT	-20000.00	-3.787879	20	PASS
			HV	NT	-20000.00	-3.787879	20	PASS
	Ant2	5280	NV	NT	-40000.00	-7.575758	20	PASS
			LV	NT	-40000.00	-7.575758	20	PASS
			HV	NT	-20000.00	-3.787879	20	PASS
	Ant1	5320	NV	NT	-20000.00	-3.759398	20	PASS

			LV	NT	-20000.00	-3.759398	20	PASS
			HV	NT	-20000.00	-3.759398	20	PASS
Ant2	5320		NV	NT	-20000.00	-3.759398	20	PASS
			LV	NT	-20000.00	-3.759398	20	PASS
			HV	NT	-40000.00	-7.518797	20	PASS
Ant1	5500		NV	NT	-20000.00	-3.636364	20	PASS
			LV	NT	-20000.00	-3.636364	20	PASS
			HV	NT	-20000.00	-3.636364	20	PASS
Ant2	5500		NV	NT	-40000.00	-7.272727	20	PASS
			LV	NT	-40000.00	-7.272727	20	PASS
			HV	NT	-20000.00	-3.636364	20	PASS
Ant1	5580		NV	NT	-20000.00	-3.584229	20	PASS
			LV	NT	-20000.00	-3.584229	20	PASS
			HV	NT	-20000.00	-3.584229	20	PASS
Ant2	5580		NV	NT	-40000.00	-7.168459	20	PASS
			LV	NT	-20000.00	-3.584229	20	PASS
			HV	NT	-20000.00	-3.584229	20	PASS
Ant1	5720		NV	NT	-20000.00	-3.496503	20	PASS
			LV	NT	-20000.00	-3.496503	20	PASS
			HV	NT	-20000.00	-3.496503	20	PASS
Ant2	5720		NV	NT	-20000.00	-3.496503	20	PASS
			LV	NT	-20000.00	-3.496503	20	PASS
			HV	NT	-20000.00	-3.496503	20	PASS
Ant1	5745		NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	-20000.00	-3.481288	20	PASS
			HV	NT	-20000.00	-3.481288	20	PASS
Ant2	5745		NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	-20000.00	-3.481288	20	PASS
			HV	NT	-20000.00	-3.481288	20	PASS
Ant1	5785		NV	NT	-20000.00	-3.457217	20	PASS
			LV	NT	-20000.00	-3.457217	20	PASS
			HV	NT	-20000.00	-3.457217	20	PASS
Ant2	5785		NV	NT	-20000.00	-3.457217	20	PASS
			LV	NT	-20000.00	-3.457217	20	PASS

	Ant1	5825	HV	NT	-40000.00	-6.914434	20	PASS
			NV	NT	-20000.00	-3.433476	20	PASS
			LV	NT	-40000.00	-6.866953	20	PASS
			HV	NT	-20000.00	-3.433476	20	PASS
	Ant2	5825	NV	NT	-20000.00	-3.433476	20	PASS
			LV	NT	-20000.00	-3.433476	20	PASS
			HV	NT	-20000.00	-3.433476	20	PASS
11N20MIMO	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
	Ant2	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
	Ant1	5200	NV	NT	-40000.00	-7.692308	20	PASS
			LV	NT	-40000.00	-7.692308	20	PASS
			HV	NT	-20000.00	-3.846154	20	PASS
	Ant2	5200	NV	NT	-40000.00	-7.692308	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.692308	20	PASS
	Ant1	5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.633588	20	PASS
	Ant2	5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.633588	20	PASS
	Ant1	5260	NV	NT	-40000.00	-7.604563	20	PASS
			LV	NT	-20000.00	-3.802281	20	PASS
			HV	NT	-40000.00	-7.604563	20	PASS
	Ant2	5260	NV	NT	-20000.00	-3.802281	20	PASS
			LV	NT	-20000.00	-3.802281	20	PASS
			HV	NT	-20000.00	-3.802281	20	PASS
	Ant1	5280	NV	NT	-40000.00	-7.575758	20	PASS
			LV	NT	-20000.00	-3.787879	20	PASS
			HV	NT	-20000.00	-3.787879	20	PASS

	Ant2	5280	NV	NT	-40000.00	-7.575758	20	PASS
			LV	NT	-20000.00	-3.787879	20	PASS
			HV	NT	-40000.00	-7.575758	20	PASS
	Ant1	5320	NV	NT	-40000.00	-7.518797	20	PASS
			LV	NT	-20000.00	-3.759398	20	PASS
			HV	NT	-20000.00	-3.759398	20	PASS
	Ant2	5320	NV	NT	-40000.00	-7.518797	20	PASS
			LV	NT	-20000.00	-3.759398	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5500	NV	NT	-20000.00	-3.636364	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.636364	20	PASS
	Ant2	5500	NV	NT	-20000.00	-3.636364	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.636364	20	PASS
	Ant1	5580	NV	NT	-20000.00	-3.584229	20	PASS
			LV	NT	-40000.00	-7.168459	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5580	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.168459	20	PASS
			HV	NT	-40000.00	-7.168459	20	PASS
	Ant1	5720	NV	NT	-40000.00	-6.993007	20	PASS
			LV	NT	-20000.00	-3.496503	20	PASS
			HV	NT	-40000.00	-6.993007	20	PASS
	Ant2	5720	NV	NT	-20000.00	-3.496503	20	PASS
			LV	NT	-20000.00	-3.496503	20	PASS
			HV	NT	-20000.00	-3.496503	20	PASS
	Ant1	5745	NV	NT	-40000.00	-6.962576	20	PASS
			LV	NT	-20000.00	-3.481288	20	PASS
			HV	NT	-20000.00	-3.481288	20	PASS
	Ant2	5745	NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	-20000.00	-3.481288	20	PASS
			HV	NT	-40000.00	-6.962576	20	PASS
	Ant1	5785	NV	NT	-20000.00	-3.457217	20	PASS

			LV	NT	-20000.00	-3.457217	20	PASS
			HV	NT	-40000.00	-6.914434	20	PASS
			NV	NT	0.00	0.000000	20	PASS
	Ant2	5785	LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.457217	20	PASS
			NV	NT	-40000.00	-6.866953	20	PASS
	Ant1	5825	LV	NT	-20000.00	-3.433476	20	PASS
			HV	NT	-40000.00	-6.866953	20	PASS
			NV	NT	-20000.00	-3.433476	20	PASS
	Ant2	5825	LV	NT	-20000.00	-3.433476	20	PASS
			HV	NT	0.00	0.000000	20	PASS
			NV	NT	0.00	0.000000	20	PASS
11N40MIMO	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	-40000.00	-7.707129	20	PASS
	Ant2	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	-40000.00	-7.707129	20	PASS
	Ant1	5230	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5230	NV	NT	-40000.00	-7.648184	20	PASS
			LV	NT	-40000.00	-7.648184	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5270	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5270	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.590133	20	PASS
			HV	NT	-40000.00	-7.590133	20	PASS
	Ant1	5310	NV	NT	-40000.00	-7.532957	20	PASS
			LV	NT	-40000.00	-7.532957	20	PASS
			HV	NT	-40000.00	-7.532957	20	PASS
	Ant2	5310	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS

			HV	NT	0.00	0.000000	20	PASS
	Ant1	5510	NV	NT	-40000.00	-7.259528	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.259528	20	PASS
	Ant2	5510	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.259528	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5550	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.207207	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5550	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5710	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5710	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.005254	20	PASS
	Ant1	5755	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-6.950478	20	PASS
			HV	NT	-40000.00	-6.950478	20	PASS
	Ant2	5755	NV	NT	-40000.00	-6.950478	20	PASS
			LV	NT	-40000.00	-6.950478	20	PASS
			HV	NT	-40000.00	-6.950478	20	PASS
	Ant1	5795	NV	NT	-40000.00	-6.902502	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-6.902502	20	PASS
	Ant2	5795	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-6.902502	20	PASS
			HV	NT	-40000.00	-6.902502	20	PASS
11AC80MIMO	Ant1	5210	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS

	Ant2	5210	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5290	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5290	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5530	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-80000.00	-14.466546	20	PASS
	Ant2	5530	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5610	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5610	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5690	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5690	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	80000.00	14.059754	20	PASS
	Ant1	5775	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5775	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS

Temperature								
Test Mode	Antenna	Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Verdict
		[MHz]	[Vdc]	(°C)	(Hz)	(ppm)	(ppm)	
11A	Ant1	5180	NV	0	-40000	-7.722008	20	PASS
11A	Ant1	5180	NV	10	-20000	-3.861004	20	PASS
11A	Ant1	5180	NV	20	-20000	-3.861004	20	PASS
11A	Ant1	5180	NV	30	-20000	-3.861004	20	PASS
11A	Ant1	5180	NV	40	-40000	-7.722008	20	PASS
11A	Ant2	5180	NV	0	-20000	-3.861004	20	PASS
11A	Ant2	5180	NV	10	-20000	-3.861004	20	PASS
11A	Ant2	5180	NV	20	-40000	-7.722008	20	PASS
11A	Ant2	5180	NV	30	-20000	-3.861004	20	PASS
11A	Ant2	5180	NV	40	-20000	-3.861004	20	PASS
11A	Ant1	5200	NV	0	-20000	-3.846154	20	PASS
11A	Ant1	5200	NV	10	-20000	-3.846154	20	PASS
11A	Ant1	5200	NV	20	-20000	-3.846154	20	PASS
11A	Ant1	5200	NV	30	-20000	-3.846154	20	PASS
11A	Ant1	5200	NV	40	-20000	-3.846154	20	PASS
11A	Ant2	5200	NV	0	-20000	-3.846154	20	PASS
11A	Ant2	5200	NV	10	-20000	-3.846154	20	PASS
11A	Ant2	5200	NV	20	-20000	-3.846154	20	PASS
11A	Ant2	5200	NV	30	-20000	-3.846154	20	PASS
11A	Ant2	5200	NV	40	-20000	-3.846154	20	PASS
11A	Ant1	5240	NV	0	-20000	-3.816794	20	PASS
11A	Ant1	5240	NV	10	-20000	-3.816794	20	PASS
11A	Ant1	5240	NV	20	-20000	-3.816794	20	PASS
11A	Ant1	5240	NV	30	-20000	-3.816794	20	PASS
11A	Ant1	5240	NV	40	-40000	-7.633588	20	PASS
11A	Ant2	5240	NV	0	-20000	-3.816794	20	PASS
11A	Ant2	5240	NV	10	-20000	-3.816794	20	PASS
11A	Ant2	5240	NV	20	-40000	-7.633588	20	PASS
11A	Ant2	5240	NV	30	-20000	-3.816794	20	PASS
11A	Ant2	5240	NV	40	-40000	-7.633588	20	PASS
11A	Ant1	5260	NV	0	-20000	-3.802281	20	PASS

11A	Ant1	5260	NV	10	-20000	-3.802281	20	PASS
11A	Ant1	5260	NV	20	-20000	-3.802281	20	PASS
11A	Ant1	5260	NV	30	-20000	-3.802281	20	PASS
11A	Ant1	5260	NV	40	-20000	-3.802281	20	PASS
11A	Ant2	5260	NV	0	-20000	-3.802281	20	PASS
11A	Ant2	5260	NV	10	-20000	-3.802281	20	PASS
11A	Ant2	5260	NV	20	-20000	-3.802281	20	PASS
11A	Ant2	5260	NV	30	-20000	-3.802281	20	PASS
11A	Ant2	5260	NV	40	-20000	-3.802281	20	PASS
11A	Ant1	5280	NV	0	-20000	-3.787879	20	PASS
11A	Ant1	5280	NV	10	-40000	-7.575758	20	PASS
11A	Ant1	5280	NV	20	-40000	-7.575758	20	PASS
11A	Ant1	5280	NV	30	-20000	-3.787879	20	PASS
11A	Ant1	5280	NV	40	-20000	-3.787879	20	PASS
11A	Ant2	5280	NV	0	-40000	-7.575758	20	PASS
11A	Ant2	5280	NV	10	-40000	-7.575758	20	PASS
11A	Ant2	5280	NV	20	-20000	-3.787879	20	PASS
11A	Ant2	5280	NV	30	-20000	-3.787879	20	PASS
11A	Ant2	5280	NV	40	-20000	-3.787879	20	PASS
11A	Ant1	5320	NV	0	-20000	-3.759398	20	PASS
11A	Ant1	5320	NV	10	-20000	-3.759398	20	PASS
11A	Ant1	5320	NV	20	-20000	-3.759398	20	PASS
11A	Ant1	5320	NV	30	-20000	-3.759398	20	PASS
11A	Ant1	5320	NV	40	-40000	-7.518797	20	PASS
11A	Ant2	5320	NV	0	-20000	-3.759398	20	PASS
11A	Ant2	5320	NV	10	-20000	-3.759398	20	PASS
11A	Ant2	5320	NV	20	-20000	-3.759398	20	PASS
11A	Ant2	5320	NV	30	-40000	-7.518797	20	PASS
11A	Ant2	5320	NV	40	-20000	-3.759398	20	PASS
11A	Ant1	5500	NV	0	-40000	-7.272727	20	PASS
11A	Ant1	5500	NV	10	-20000	-3.636364	20	PASS
11A	Ant1	5500	NV	20	-20000	-3.636364	20	PASS
11A	Ant1	5500	NV	30	-20000	-3.636364	20	PASS
11A	Ant1	5500	NV	40	-20000	-3.636364	20	PASS

11A	Ant2	5500	NV	0	-20000	-3.636364	20	PASS
11A	Ant2	5500	NV	10	-20000	-3.636364	20	PASS
11A	Ant2	5500	NV	20	-20000	-3.636364	20	PASS
11A	Ant2	5500	NV	30	-20000	-3.636364	20	PASS
11A	Ant2	5500	NV	40	-20000	-3.636364	20	PASS
11A	Ant1	5580	NV	0	-20000	-3.584229	20	PASS
11A	Ant1	5580	NV	10	-20000	-3.584229	20	PASS
11A	Ant1	5580	NV	20	-20000	-3.584229	20	PASS
11A	Ant1	5580	NV	30	-20000	-3.584229	20	PASS
11A	Ant1	5580	NV	40	-20000	-3.584229	20	PASS
11A	Ant2	5580	NV	0	-20000	-3.584229	20	PASS
11A	Ant2	5580	NV	10	-40000	-7.168459	20	PASS
11A	Ant2	5580	NV	20	-20000	-3.584229	20	PASS
11A	Ant2	5580	NV	30	-20000	-3.584229	20	PASS
11A	Ant2	5580	NV	40	-20000	-3.584229	20	PASS
11A	Ant1	5720	NV	0	-20000	-3.496503	20	PASS
11A	Ant1	5720	NV	10	-20000	-3.496503	20	PASS
11A	Ant1	5720	NV	20	-20000	-3.496503	20	PASS
11A	Ant1	5720	NV	30	-20000	-3.496503	20	PASS
11A	Ant1	5720	NV	40	-20000	-3.496503	20	PASS
11A	Ant2	5720	NV	0	-20000	-3.496503	20	PASS
11A	Ant2	5720	NV	10	-20000	-3.496503	20	PASS
11A	Ant2	5720	NV	20	-20000	-3.496503	20	PASS
11A	Ant2	5720	NV	30	-20000	-3.496503	20	PASS
11A	Ant2	5720	NV	40	0	0.000000	20	PASS
11A	Ant1	5745	NV	0	-40000	-6.962576	20	PASS
11A	Ant1	5745	NV	10	-20000	-3.481288	20	PASS
11A	Ant1	5745	NV	20	-20000	-3.481288	20	PASS
11A	Ant1	5745	NV	30	-20000	-3.481288	20	PASS
11A	Ant1	5745	NV	40	-20000	-3.481288	20	PASS
11A	Ant2	5745	NV	0	-20000	-3.481288	20	PASS
11A	Ant2	5745	NV	10	-20000	-3.481288	20	PASS
11A	Ant2	5745	NV	20	-20000	-3.481288	20	PASS
11A	Ant2	5745	NV	30	-20000	-3.481288	20	PASS

11A	Ant2	5745	NV	40	-20000	-3.481288	20	PASS
11A	Ant1	5785	NV	0	-20000	-3.457217	20	PASS
11A	Ant1	5785	NV	10	-20000	-3.457217	20	PASS
11A	Ant1	5785	NV	20	-20000	-3.457217	20	PASS
11A	Ant1	5785	NV	30	-20000	-3.457217	20	PASS
11A	Ant1	5785	NV	40	-20000	-3.457217	20	PASS
11A	Ant2	5785	NV	0	-20000	-3.457217	20	PASS
11A	Ant2	5785	NV	10	-20000	-3.457217	20	PASS
11A	Ant2	5785	NV	20	-20000	-3.457217	20	PASS
11A	Ant2	5785	NV	30	-20000	-3.457217	20	PASS
11A	Ant2	5785	NV	40	-20000	-3.457217	20	PASS
11A	Ant1	5825	NV	0	-20000	-3.433476	20	PASS
11A	Ant1	5825	NV	10	-20000	-3.433476	20	PASS
11A	Ant1	5825	NV	20	-20000	-3.433476	20	PASS
11A	Ant1	5825	NV	30	-20000	-3.433476	20	PASS
11A	Ant1	5825	NV	40	-20000	-3.433476	20	PASS
11A	Ant2	5825	NV	0	-20000	-3.433476	20	PASS
11A	Ant2	5825	NV	10	-20000	-3.433476	20	PASS
11A	Ant2	5825	NV	20	-40000	-6.866953	20	PASS
11A	Ant2	5825	NV	30	-40000	-6.866953	20	PASS
11A	Ant2	5825	NV	40	-20000	-3.433476	20	PASS
11N20MIMO	Ant1	5180	NV	0	-40000	-7.722008	20	PASS
11N20MIMO	Ant1	5180	NV	10	-20000	-3.861004	20	PASS
11N20MIMO	Ant1	5180	NV	20	-40000	-7.722008	20	PASS
11N20MIMO	Ant1	5180	NV	30	-20000	-3.861004	20	PASS
11N20MIMO	Ant1	5180	NV	40	-20000	-3.861004	20	PASS
11N20MIMO	Ant2	5180	NV	0	0	0.000000	20	PASS
11N20MIMO	Ant2	5180	NV	10	0	0.000000	20	PASS
11N20MIMO	Ant2	5180	NV	20	-20000	-3.861004	20	PASS
11N20MIMO	Ant2	5180	NV	30	0	0.000000	20	PASS
11N20MIMO	Ant2	5180	NV	40	-20000	-3.861004	20	PASS
11N20MIMO	Ant1	5200	NV	0	0	0.000000	20	PASS
11N20MIMO	Ant1	5200	NV	10	-20000	-3.846154	20	PASS
11N20MIMO	Ant1	5200	NV	20	-40000	-7.692308	20	PASS

11N20MIMO	Ant1	5200	NV	30	-40000	-7.692308	20	PASS
11N20MIMO	Ant1	5200	NV	40	-40000	-7.692308	20	PASS
11N20MIMO	Ant2	5200	NV	0	-40000	-7.692308	20	PASS
11N20MIMO	Ant2	5200	NV	10	-20000	-3.846154	20	PASS
11N20MIMO	Ant2	5200	NV	20	-20000	-3.846154	20	PASS
11N20MIMO	Ant2	5200	NV	30	-20000	-3.846154	20	PASS
11N20MIMO	Ant2	5200	NV	40	-40000	-7.692308	20	PASS
11N20MIMO	Ant1	5240	NV	0	-20000	-3.816794	20	PASS
11N20MIMO	Ant1	5240	NV	10	-40000	-7.633588	20	PASS
11N20MIMO	Ant1	5240	NV	20	-40000	-7.633588	20	PASS
11N20MIMO	Ant1	5240	NV	30	-40000	-7.633588	20	PASS
11N20MIMO	Ant1	5240	NV	40	-40000	-7.633588	20	PASS
11N20MIMO	Ant2	5240	NV	0	-40000	-7.633588	20	PASS
11N20MIMO	Ant2	5240	NV	10	0	0.000000	20	PASS
11N20MIMO	Ant2	5240	NV	20	-20000	-3.816794	20	PASS
11N20MIMO	Ant2	5240	NV	30	-40000	-7.633588	20	PASS
11N20MIMO	Ant2	5240	NV	40	0	0.000000	20	PASS
11N20MIMO	Ant1	5260	NV	0	-40000	-7.604563	20	PASS
11N20MIMO	Ant1	5260	NV	10	-20000	-3.802281	20	PASS
11N20MIMO	Ant1	5260	NV	20	-20000	-3.802281	20	PASS
11N20MIMO	Ant1	5260	NV	30	-40000	-7.604563	20	PASS
11N20MIMO	Ant1	5260	NV	40	-40000	-7.604563	20	PASS
11N20MIMO	Ant2	5260	NV	0	0	0.000000	20	PASS
11N20MIMO	Ant2	5260	NV	10	-40000	-7.604563	20	PASS
11N20MIMO	Ant2	5260	NV	20	-20000	-3.802281	20	PASS
11N20MIMO	Ant2	5260	NV	30	-20000	-3.802281	20	PASS
11N20MIMO	Ant2	5260	NV	40	-20000	-3.802281	20	PASS
11N20MIMO	Ant1	5280	NV	0	-40000	-7.575758	20	PASS
11N20MIMO	Ant1	5280	NV	10	-20000	-3.787879	20	PASS
11N20MIMO	Ant1	5280	NV	20	-40000	-7.575758	20	PASS
11N20MIMO	Ant1	5280	NV	30	-40000	-7.575758	20	PASS
11N20MIMO	Ant1	5280	NV	40	-40000	-7.575758	20	PASS
11N20MIMO	Ant2	5280	NV	0	0	0.000000	20	PASS
11N20MIMO	Ant2	5280	NV	10	0	0.000000	20	PASS

11N20MIMO	Ant2	5280	NV	20	0	0.000000	20	PASS
11N20MIMO	Ant2	5280	NV	30	-20000	-3.787879	20	PASS
11N20MIMO	Ant2	5280	NV	40	-20000	-3.787879	20	PASS
11N20MIMO	Ant1	5320	NV	0	-40000	-7.518797	20	PASS
11N20MIMO	Ant1	5320	NV	10	-20000	-3.759398	20	PASS
11N20MIMO	Ant1	5320	NV	20	-40000	-7.518797	20	PASS
11N20MIMO	Ant1	5320	NV	30	-40000	-7.518797	20	PASS
11N20MIMO	Ant1	5320	NV	40	-20000	-3.759398	20	PASS
11N20MIMO	Ant2	5320	NV	0	-60000	-11.278195	20	PASS
11N20MIMO	Ant2	5320	NV	10	-20000	-3.759398	20	PASS
11N20MIMO	Ant2	5320	NV	20	-20000	-3.759398	20	PASS
11N20MIMO	Ant2	5320	NV	30	-20000	-3.759398	20	PASS
11N20MIMO	Ant2	5320	NV	40	-20000	-3.759398	20	PASS
11N20MIMO	Ant1	5500	NV	0	-20000	-3.636364	20	PASS
11N20MIMO	Ant1	5500	NV	10	-40000	-7.272727	20	PASS
11N20MIMO	Ant1	5500	NV	20	-20000	-3.636364	20	PASS
11N20MIMO	Ant1	5500	NV	30	-20000	-3.636364	20	PASS
11N20MIMO	Ant1	5500	NV	40	0	0.000000	20	PASS
11N20MIMO	Ant2	5500	NV	0	-20000	-3.636364	20	PASS
11N20MIMO	Ant2	5500	NV	10	-40000	-7.272727	20	PASS
11N20MIMO	Ant2	5500	NV	20	-40000	-7.272727	20	PASS
11N20MIMO	Ant2	5500	NV	30	-40000	-7.272727	20	PASS
11N20MIMO	Ant2	5500	NV	40	-20000	-3.636364	20	PASS
11N20MIMO	Ant1	5580	NV	0	-20000	-3.584229	20	PASS
11N20MIMO	Ant1	5580	NV	10	0	0.000000	20	PASS
11N20MIMO	Ant1	5580	NV	20	-20000	-3.584229	20	PASS
11N20MIMO	Ant1	5580	NV	30	-40000	-7.168459	20	PASS
11N20MIMO	Ant1	5580	NV	40	-20000	-3.584229	20	PASS
11N20MIMO	Ant2	5580	NV	0	0	0.000000	20	PASS
11N20MIMO	Ant2	5580	NV	10	-40000	-7.168459	20	PASS
11N20MIMO	Ant2	5580	NV	20	0	0.000000	20	PASS
11N20MIMO	Ant2	5580	NV	30	-20000	-3.584229	20	PASS
11N20MIMO	Ant2	5580	NV	40	-60000	-10.752688	20	PASS
11N20MIMO	Ant1	5720	NV	0	-20000	-3.496503	20	PASS

11N20MIMO	Ant1	5720	NV	10	-40000	-6.993007	20	PASS
11N20MIMO	Ant1	5720	NV	20	-40000	-6.993007	20	PASS
11N20MIMO	Ant1	5720	NV	30	-40000	-6.993007	20	PASS
11N20MIMO	Ant1	5720	NV	40	-40000	-6.993007	20	PASS
11N20MIMO	Ant2	5720	NV	0	-20000	-3.496503	20	PASS
11N20MIMO	Ant2	5720	NV	10	0	0.000000	20	PASS
11N20MIMO	Ant2	5720	NV	20	-20000	-3.496503	20	PASS
11N20MIMO	Ant2	5720	NV	30	0	0.000000	20	PASS
11N20MIMO	Ant2	5720	NV	40	0	0.000000	20	PASS
11N20MIMO	Ant1	5745	NV	0	-20000	-3.481288	20	PASS
11N20MIMO	Ant1	5745	NV	10	-40000	-6.962576	20	PASS
11N20MIMO	Ant1	5745	NV	20	-20000	-3.481288	20	PASS
11N20MIMO	Ant1	5745	NV	30	-40000	-6.962576	20	PASS
11N20MIMO	Ant1	5745	NV	40	-40000	-6.962576	20	PASS
11N20MIMO	Ant2	5745	NV	0	-20000	-3.481288	20	PASS
11N20MIMO	Ant2	5745	NV	10	0	0.000000	20	PASS
11N20MIMO	Ant2	5745	NV	20	-20000	-3.481288	20	PASS
11N20MIMO	Ant2	5745	NV	30	-40000	-6.962576	20	PASS
11N20MIMO	Ant2	5745	NV	40	0	0.000000	20	PASS
11N20MIMO	Ant1	5785	NV	0	-60000	-10.371651	20	PASS
11N20MIMO	Ant1	5785	NV	10	-20000	-3.457217	20	PASS
11N20MIMO	Ant1	5785	NV	20	-20000	-3.457217	20	PASS
11N20MIMO	Ant1	5785	NV	30	-20000	-3.457217	20	PASS
11N20MIMO	Ant1	5785	NV	40	-40000	-6.914434	20	PASS
11N20MIMO	Ant2	5785	NV	0	-20000	-3.457217	20	PASS
11N20MIMO	Ant2	5785	NV	10	-40000	-6.914434	20	PASS
11N20MIMO	Ant2	5785	NV	20	-40000	-6.914434	20	PASS
11N20MIMO	Ant2	5785	NV	30	0	0.000000	20	PASS
11N20MIMO	Ant2	5785	NV	40	-20000	-3.457217	20	PASS
11N20MIMO	Ant1	5825	NV	0	-40000	-6.866953	20	PASS
11N20MIMO	Ant1	5825	NV	10	-40000	-6.866953	20	PASS
11N20MIMO	Ant1	5825	NV	20	-40000	-6.866953	20	PASS
11N20MIMO	Ant1	5825	NV	30	-40000	-6.866953	20	PASS
11N20MIMO	Ant1	5825	NV	40	-40000	-6.866953	20	PASS

11N20MIMO	Ant2	5825	NV	0	0	0.000000	20	PASS
11N20MIMO	Ant2	5825	NV	10	0	0.000000	20	PASS
11N20MIMO	Ant2	5825	NV	20	0	0.000000	20	PASS
11N20MIMO	Ant2	5825	NV	30	-20000	-3.433476	20	PASS
11N20MIMO	Ant2	5825	NV	40	-40000	-6.866953	20	PASS
11N40MIMO	Ant1	5190	NV	0	0	0.000000	20	PASS
11N40MIMO	Ant1	5190	NV	10	0	0.000000	20	PASS
11N40MIMO	Ant1	5190	NV	20	-40000	-7.707129	20	PASS
11N40MIMO	Ant1	5190	NV	30	-40000	-7.707129	20	PASS
11N40MIMO	Ant1	5190	NV	40	0	0.000000	20	PASS
11N40MIMO	Ant2	5190	NV	0	-40000	-7.707129	20	PASS
11N40MIMO	Ant2	5190	NV	10	0	0.000000	20	PASS
11N40MIMO	Ant2	5190	NV	20	-40000	-7.707129	20	PASS
11N40MIMO	Ant2	5190	NV	30	-40000	-7.707129	20	PASS
11N40MIMO	Ant2	5190	NV	40	0	0.000000	20	PASS
11N40MIMO	Ant1	5230	NV	0	-40000	-7.648184	20	PASS
11N40MIMO	Ant1	5230	NV	10	0	0.000000	20	PASS
11N40MIMO	Ant1	5230	NV	20	-40000	-7.648184	20	PASS
11N40MIMO	Ant1	5230	NV	30	-40000	-7.648184	20	PASS
11N40MIMO	Ant1	5230	NV	40	0	0.000000	20	PASS
11N40MIMO	Ant2	5230	NV	0	0	0.000000	20	PASS
11N40MIMO	Ant2	5230	NV	10	-40000	-7.648184	20	PASS
11N40MIMO	Ant2	5230	NV	20	-40000	-7.648184	20	PASS
11N40MIMO	Ant2	5230	NV	30	-40000	-7.648184	20	PASS
11N40MIMO	Ant2	5230	NV	40	-40000	-7.648184	20	PASS
11N40MIMO	Ant1	5270	NV	0	0	0.000000	20	PASS
11N40MIMO	Ant1	5270	NV	10	0	0.000000	20	PASS
11N40MIMO	Ant1	5270	NV	20	0	0.000000	20	PASS
11N40MIMO	Ant1	5270	NV	30	0	0.000000	20	PASS
11N40MIMO	Ant1	5270	NV	40	0	0.000000	20	PASS
11N40MIMO	Ant2	5270	NV	0	-40000	-7.590133	20	PASS
11N40MIMO	Ant2	5270	NV	10	0	0.000000	20	PASS
11N40MIMO	Ant2	5270	NV	20	0	0.000000	20	PASS
11N40MIMO	Ant2	5270	NV	30	0	0.000000	20	PASS

11N40MIMO	Ant2	5270	NV	40	-40000	-7.590133	20	PASS
11N40MIMO	Ant1	5310	NV	0	0	0.000000	20	PASS
11N40MIMO	Ant1	5310	NV	10	0	0.000000	20	PASS
11N40MIMO	Ant1	5310	NV	20	-40000	-7.532957	20	PASS
11N40MIMO	Ant1	5310	NV	30	0	0.000000	20	PASS
11N40MIMO	Ant1	5310	NV	40	0	0.000000	20	PASS
11N40MIMO	Ant2	5310	NV	0	-40000	-7.532957	20	PASS
11N40MIMO	Ant2	5310	NV	10	-40000	-7.532957	20	PASS
11N40MIMO	Ant2	5310	NV	20	0	0.000000	20	PASS
11N40MIMO	Ant2	5310	NV	30	-40000	-7.532957	20	PASS
11N40MIMO	Ant2	5310	NV	40	0	0.000000	20	PASS
11N40MIMO	Ant1	5510	NV	0	0	0.000000	20	PASS
11N40MIMO	Ant1	5510	NV	10	-40000	-7.259528	20	PASS
11N40MIMO	Ant1	5510	NV	20	-40000	-7.259528	20	PASS
11N40MIMO	Ant1	5510	NV	30	0	0.000000	20	PASS
11N40MIMO	Ant1	5510	NV	40	-40000	-7.259528	20	PASS
11N40MIMO	Ant2	5510	NV	0	0	0.000000	20	PASS
11N40MIMO	Ant2	5510	NV	10	-40000	-7.259528	20	PASS
11N40MIMO	Ant2	5510	NV	20	-40000	-7.259528	20	PASS
11N40MIMO	Ant2	5510	NV	30	0	0.000000	20	PASS
11N40MIMO	Ant2	5510	NV	40	-40000	-7.259528	20	PASS
11N40MIMO	Ant1	5550	NV	0	0	0.000000	20	PASS
11N40MIMO	Ant1	5550	NV	10	0	0.000000	20	PASS
11N40MIMO	Ant1	5550	NV	20	-40000	-7.207207	20	PASS
11N40MIMO	Ant1	5550	NV	30	0	0.000000	20	PASS
11N40MIMO	Ant1	5550	NV	40	-40000	-7.207207	20	PASS
11N40MIMO	Ant2	5550	NV	0	0	0.000000	20	PASS
11N40MIMO	Ant2	5550	NV	10	0	0.000000	20	PASS
11N40MIMO	Ant2	5550	NV	20	-40000	-7.207207	20	PASS
11N40MIMO	Ant2	5550	NV	30	0	0.000000	20	PASS
11N40MIMO	Ant2	5550	NV	40	0	0.000000	20	PASS
11N40MIMO	Ant1	5710	NV	0	0	0.000000	20	PASS
11N40MIMO	Ant1	5710	NV	10	0	0.000000	20	PASS
11N40MIMO	Ant1	5710	NV	20	0	0.000000	20	PASS

11N40MIMO	Ant1	5710	NV	30	-40000	-7.005254	20	PASS
11N40MIMO	Ant1	5710	NV	40	0	0.000000	20	PASS
11N40MIMO	Ant2	5710	NV	0	0	0.000000	20	PASS
11N40MIMO	Ant2	5710	NV	10	0	0.000000	20	PASS
11N40MIMO	Ant2	5710	NV	20	0	0.000000	20	PASS
11N40MIMO	Ant2	5710	NV	30	-40000	-7.005254	20	PASS
11N40MIMO	Ant2	5710	NV	40	0	0.000000	20	PASS
11N40MIMO	Ant1	5755	NV	0	-40000	-6.950478	20	PASS
11N40MIMO	Ant1	5755	NV	10	0	0.000000	20	PASS
11N40MIMO	Ant1	5755	NV	20	0	0.000000	20	PASS
11N40MIMO	Ant1	5755	NV	30	0	0.000000	20	PASS
11N40MIMO	Ant1	5755	NV	40	0	0.000000	20	PASS
11N40MIMO	Ant2	5755	NV	0	0	0.000000	20	PASS
11N40MIMO	Ant2	5755	NV	10	0	0.000000	20	PASS
11N40MIMO	Ant2	5755	NV	20	-40000	-6.950478	20	PASS
11N40MIMO	Ant2	5755	NV	30	-40000	-6.950478	20	PASS
11N40MIMO	Ant2	5755	NV	40	-40000	-6.950478	20	PASS
11N40MIMO	Ant1	5795	NV	0	-40000	-6.902502	20	PASS
11N40MIMO	Ant1	5795	NV	10	0	0.000000	20	PASS
11N40MIMO	Ant1	5795	NV	20	-40000	-6.902502	20	PASS
11N40MIMO	Ant1	5795	NV	30	0	0.000000	20	PASS
11N40MIMO	Ant1	5795	NV	40	-40000	-6.902502	20	PASS
11N40MIMO	Ant2	5795	NV	0	-40000	-6.902502	20	PASS
11N40MIMO	Ant2	5795	NV	10	-40000	-6.902502	20	PASS
11N40MIMO	Ant2	5795	NV	20	-40000	-6.902502	20	PASS
11N40MIMO	Ant2	5795	NV	30	-40000	-6.902502	20	PASS
11N40MIMO	Ant2	5795	NV	40	0	0.000000	20	PASS
11AC80MIMO	Ant1	5210	NV	0	0	0.000000	20	PASS
11AC80MIMO	Ant1	5210	NV	10	0	0.000000	20	PASS
11AC80MIMO	Ant1	5210	NV	20	0	0.000000	20	PASS
11AC80MIMO	Ant1	5210	NV	30	0	0.000000	20	PASS
11AC80MIMO	Ant1	5210	NV	40	0	0.000000	20	PASS
11AC80MIMO	Ant2	5210	NV	0	0	0.000000	20	PASS
11AC80MIMO	Ant2	5210	NV	10	0	0.000000	20	PASS

11AC80MIMO	Ant2	5210	NV	20	0	0.000000	20	PASS
11AC80MIMO	Ant2	5210	NV	30	0	0.000000	20	PASS
11AC80MIMO	Ant2	5210	NV	40	0	0.000000	20	PASS
11AC80MIMO	Ant1	5290	NV	0	0	0.000000	20	PASS
11AC80MIMO	Ant1	5290	NV	10	0	0.000000	20	PASS
11AC80MIMO	Ant1	5290	NV	20	0	0.000000	20	PASS
11AC80MIMO	Ant1	5290	NV	30	0	0.000000	20	PASS
11AC80MIMO	Ant1	5290	NV	40	0	0.000000	20	PASS
11AC80MIMO	Ant2	5290	NV	0	-80000	-15.122873	20	PASS
11AC80MIMO	Ant2	5290	NV	10	0	0.000000	20	PASS
11AC80MIMO	Ant2	5290	NV	20	0	0.000000	20	PASS
11AC80MIMO	Ant2	5290	NV	30	0	0.000000	20	PASS
11AC80MIMO	Ant2	5290	NV	40	0	0.000000	20	PASS
11AC80MIMO	Ant1	5530	NV	0	0	0.000000	20	PASS
11AC80MIMO	Ant1	5530	NV	10	0	0.000000	20	PASS
11AC80MIMO	Ant1	5530	NV	20	0	0.000000	20	PASS
11AC80MIMO	Ant1	5530	NV	30	0	0.000000	20	PASS
11AC80MIMO	Ant1	5530	NV	40	0	0.000000	20	PASS
11AC80MIMO	Ant2	5530	NV	0	0	0.000000	20	PASS
11AC80MIMO	Ant2	5530	NV	10	0	0.000000	20	PASS
11AC80MIMO	Ant2	5530	NV	20	0	0.000000	20	PASS
11AC80MIMO	Ant2	5530	NV	30	0	0.000000	20	PASS
11AC80MIMO	Ant2	5530	NV	40	-80000	-14.466546	20	PASS
11AC80MIMO	Ant1	5610	NV	0	0	0.000000	20	PASS
11AC80MIMO	Ant1	5610	NV	10	0	0.000000	20	PASS
11AC80MIMO	Ant1	5610	NV	20	0	0.000000	20	PASS
11AC80MIMO	Ant1	5610	NV	30	0	0.000000	20	PASS
11AC80MIMO	Ant1	5610	NV	40	0	0.000000	20	PASS
11AC80MIMO	Ant2	5610	NV	0	0	0.000000	20	PASS
11AC80MIMO	Ant2	5610	NV	10	80000	14.260250	20	PASS
11AC80MIMO	Ant2	5610	NV	20	0	0.000000	20	PASS
11AC80MIMO	Ant2	5610	NV	30	0	0.000000	20	PASS
11AC80MIMO	Ant2	5610	NV	40	0	0.000000	20	PASS
11AC80MIMO	Ant1	5690	NV	0	0	0.000000	20	PASS

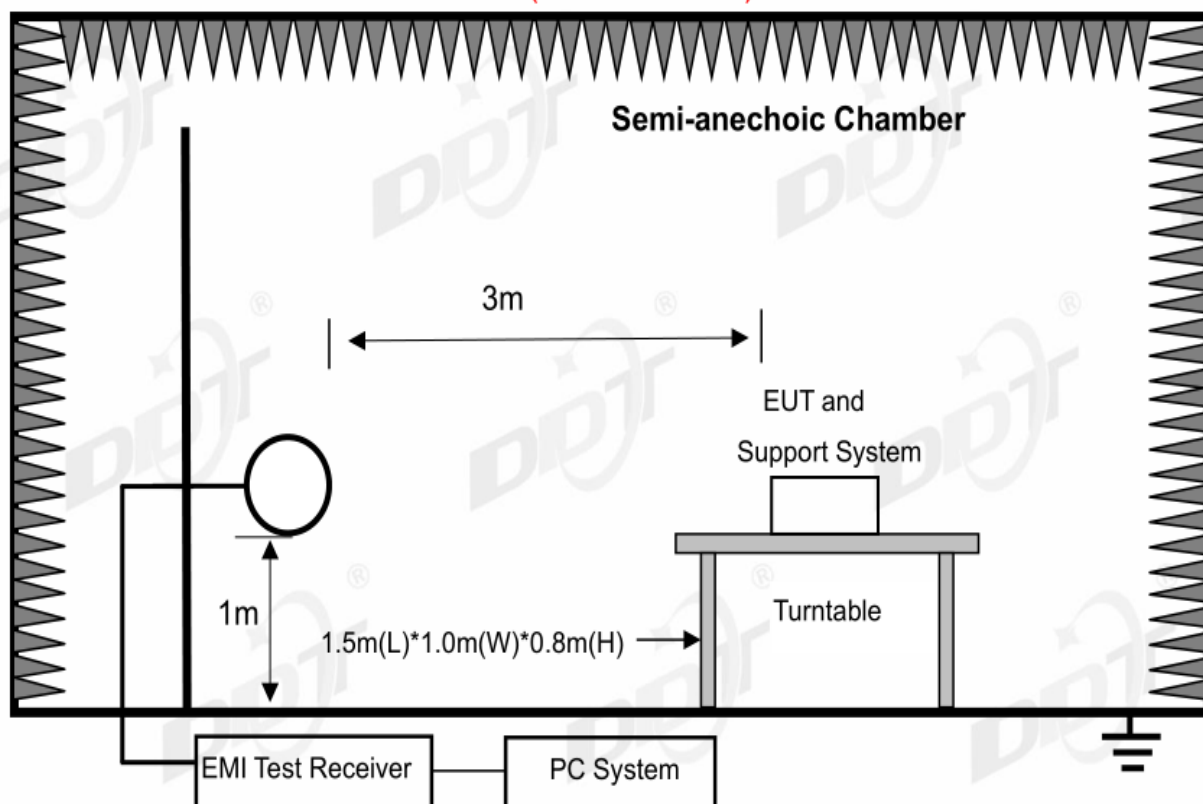
11AC80MIMO	Ant1	5690	NV	10	0	0.000000	20	PASS
11AC80MIMO	Ant1	5690	NV	20	0	0.000000	20	PASS
11AC80MIMO	Ant1	5690	NV	30	0	0.000000	20	PASS
11AC80MIMO	Ant1	5690	NV	40	0	0.000000	20	PASS
11AC80MIMO	Ant2	5690	NV	0	0	0.000000	20	PASS
11AC80MIMO	Ant2	5690	NV	10	0	0.000000	20	PASS
11AC80MIMO	Ant2	5690	NV	20	0	0.000000	20	PASS
11AC80MIMO	Ant2	5690	NV	30	0	0.000000	20	PASS
11AC80MIMO	Ant2	5690	NV	40	0	0.000000	20	PASS
11AC80MIMO	Ant1	5775	NV	0	0	0.000000	20	PASS
11AC80MIMO	Ant1	5775	NV	10	0	0.000000	20	PASS
11AC80MIMO	Ant1	5775	NV	20	0	0.000000	20	PASS
11AC80MIMO	Ant1	5775	NV	30	0	0.000000	20	PASS
11AC80MIMO	Ant1	5775	NV	40	0	0.000000	20	PASS
11AC80MIMO	Ant2	5775	NV	0	0	0.000000	20	PASS
11AC80MIMO	Ant2	5775	NV	10	0	0.000000	20	PASS
11AC80MIMO	Ant2	5775	NV	20	0	0.000000	20	PASS
11AC80MIMO	Ant2	5775	NV	30	0	0.000000	20	PASS
11AC80MIMO	Ant2	5775	NV	40	0	0.000000	20	PASS

Note: The temperature range of the product is 0 °C - 40 °C。

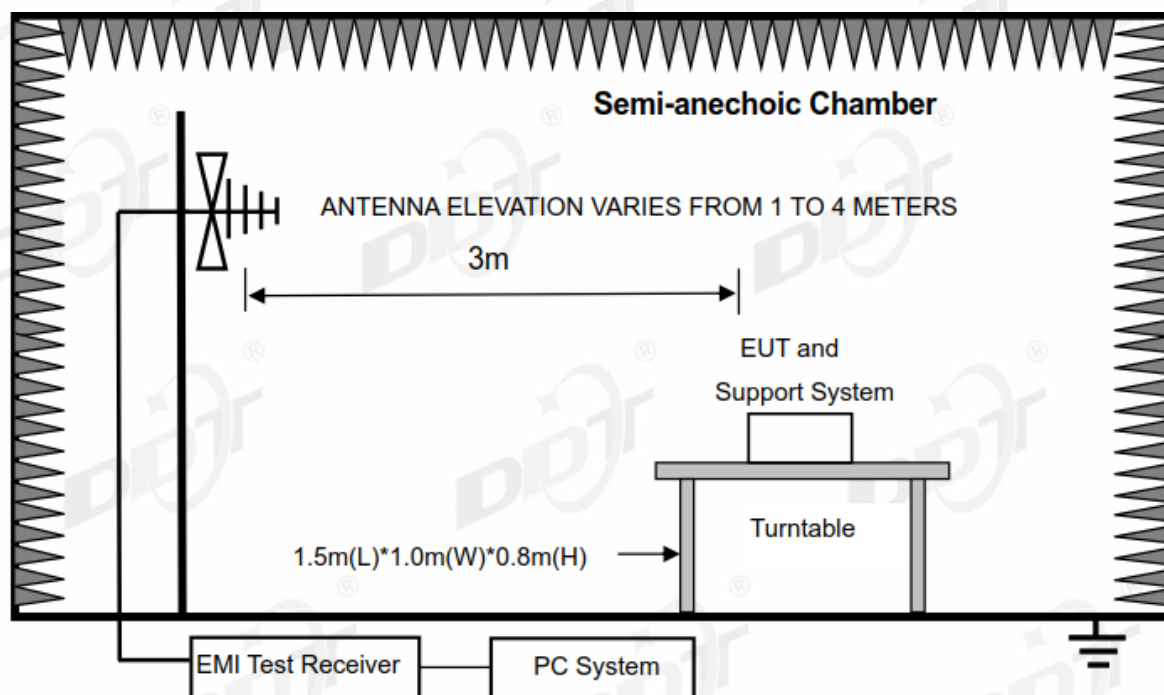
11. Emissions in restricted frequency bands

11.1. Block diagram of test setup

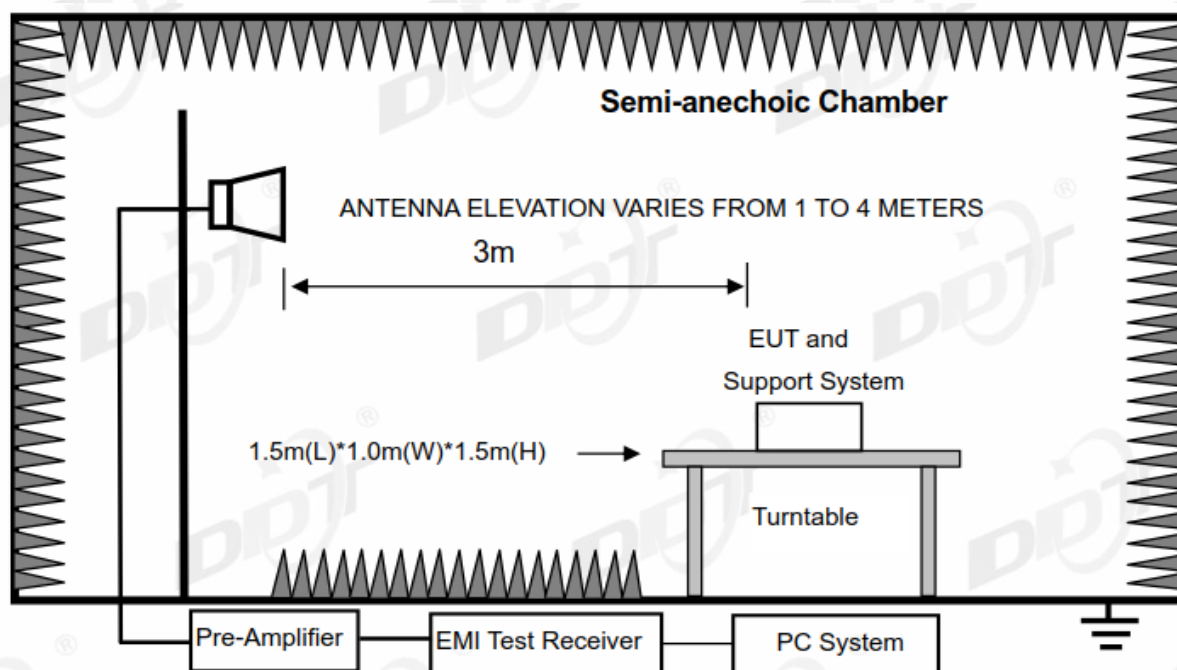
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

11.2. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

RSS-Gen section 8.10 Restricted frequency bands*

MHz	MHz	MHz	GHz
0.090-0.110	12.51975-12.52025	240-285	3.5-4.4
0.495-0.505	12.57675-12.57725	322-335.4	4.5-5.15
2.1735-2.1905	13.36-13.41	399.9-410	5.35-5.46
3.020-3.026	16.42-16.423	608-614	7.25-7.75
4.125-4.128	16.69475-16.69525	960-1427	8.025-8.5
4.1772&4.17775	16.80425-16.80475	1435-1626.5	9.0-9.2
4.2072&4.20775	25.5-25.67	1645.5-1646.5	9.3-9.5
5.677-5.683	37.5-38.25	1660-1710	10.6-12.7
6.215-6.218	73-74.6	1718.8-1722.2	13.25-13.4
6.26775-6.26825	74.8-75.2	2200-2300	14.47-14.5
6.31175-6.31225	108-138	2310-2390	15.35-16.2
8.291-8.294	149.9-150.05	2483.5-2500	17.7-21.4
8.362-8.366	156.52475-156.52525	2655-2900	22.01-23.12
8.37625-8.38675	156.7-156.9	3260-3267	23.6-24.0
8.41425-8.41475	162.0125-167.17	3332-3339	31.2-31.8
12.29-12.293	167.72-173.2	3345.8-3358	36.43-36.5
			Above 38.6

* Certain frequency bands listed in table and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

(2) FCC 15.209 Limit & RSS-Gen section 8.9 Limit

FREQUENCY (MHz)	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V/m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V/m}) + 40\text{Log}(30\text{m}/3\text{m})$$

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, and the emissions appearing within RSS-Gen section 8.10 Restricted frequency bands shall not exceed the limits shown in RSS-Gen section 8.9, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits and RSS-Gen section 8.9 limits..

11.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1G and 150 cm above the ground plane inside a fully-anechoic chamber for above 1G.
- (2) Setup EUT and assistant system according clause 2.3 and 8.2
- (3) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test distance
9 kHz-30 MHz	Active Loop antenna	3 m
30 MHz-1 GHz	Trilog Broadband Antenna	3 m
1 GHz-18 GHz	Double Ridged Horn Antenna(1GHz-18GHz)	3 m
18 GHz-40 GHz	Horn Antenna(18GHz-40GHz)	1 m

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30 MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

- (4) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 40 GHz:

- (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1m above ground.)
- (b) Change work frequency or channel of device if practicable.
- (c) Change modulation type of device if practicable.
- (d) Change power supply range from 85% to 115% of the rated supply voltage
- (e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement

produces highest emissions.

Spectrum frequency from 9 kHz to 40 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 9 kHz to 30 MHz and 18 GHz to 40 GHz, so below final test was performed with frequency range from 30 MHz to 18 GHz.

(5) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission.

Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(6) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz, for emissions from 9 kHz-90kHz,110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(7) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9 kHz-150 kHz	200 Hz
150 kHz-30 MHz	9 kHz
30 MHz-1 GHz	120 kHz

(8) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

11.4. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits and RSS-Gen section 8.9 limits.

Note1: According exploratory test no any obvious emission was detected from 9 kHz to 30 MHz and 18 GHz to 40 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in 802.11ac 80 mode.

Note3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit. Only recorded the worst case (SISO and MIMO) in this report, and the EUT does not support Simultaneous emission with 2.4G WIFI and 5G WIFI.

Note 4: All bands of 5.8 GHz comply with the limit.

Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19

Tested By: Bairong

EUT: LCD Smart Projector

Model Number: XMM2101

Test Mode: TX Mode

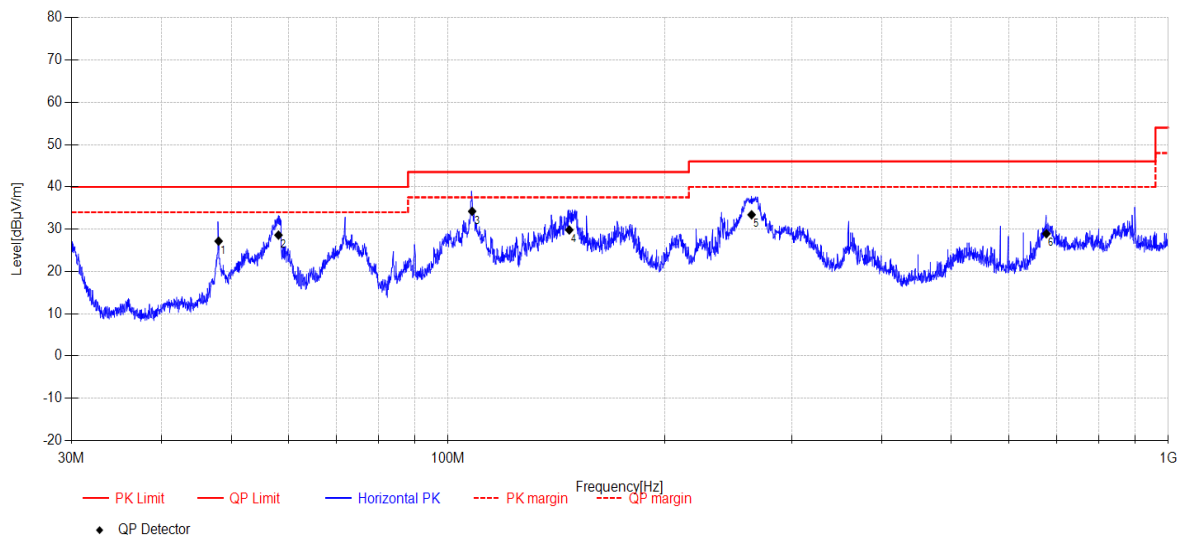
Power Supply: AC 120V/60Hz

Condition: Temp:23.5°C;Humi:66.7%

Test Site: DDT 3# Chamber

File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC BELOW 1G\20230519-024444_H

Memo: 5GWIFI

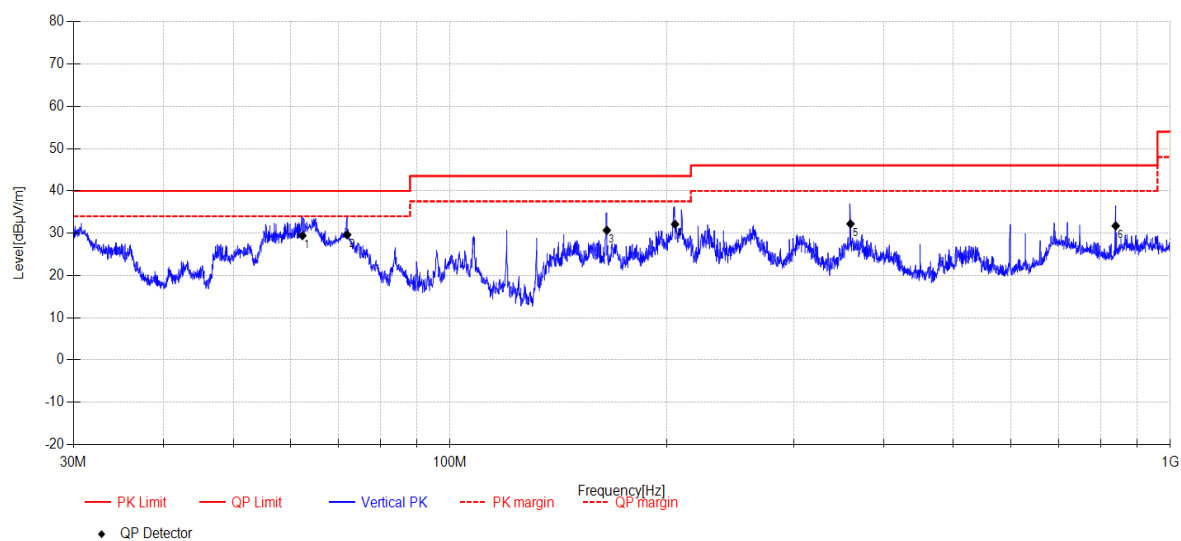


Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	48.02	41.54	13.20	4.70	-32.28	27.16	40.00	12.84	QP	Horizontal
2	58.15	43.93	12.18	4.75	-32.27	28.59	40.00	11.41	QP	Horizontal
3	108.01	50.63	10.70	5.11	-32.23	34.21	43.50	9.29	QP	Horizontal
4	147.36	49.24	7.44	5.31	-32.18	29.81	43.50	13.69	QP	Horizontal
5	263.89	47.07	12.58	6.00	-32.24	33.41	46.00	12.59	QP	Horizontal
6	677.16	34.38	19.70	7.66	-32.83	28.91	46.00	17.09	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19**Tested By:** Bairong**EUT:** LCD Smart Projector**Model** XMM2101**Test Mode:** TX Mode**Number:**
Power AC 120V/60Hz
Supply:**Condition:** Temp:23.5°C;Humi:66.7%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2023 report data\Q23042304-2E XMM2101\FCC BELOW 1G\20230519-024526_V**Memo:** 5GWIFI

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	62.38	45.63	11.29	4.77	-32.27	29.42	40.00	10.58	QP	Vertical
2	71.97	49.17	7.91	4.80	-32.26	29.62	40.00	10.38	QP	Vertical
3	165.08	49.14	8.30	5.44	-32.21	30.67	43.50	12.83	QP	Vertical
4	205.31	47.8	10.81	5.75	-32.26	32.10	43.50	11.40	QP	Vertical
5	359.76	43.25	14.80	6.48	-32.34	32.19	46.00	13.81	QP	Vertical
6	839.80	34.36	21.80	8.12	-32.56	31.72	46.00	14.28	QP	Vertical

Note:

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-18

Tested By: Bairong

EUT: LCD Smart Projector

Model Number: XMM2101

Test Mode: TX Mode

Power Supply: AC 120V/60Hz

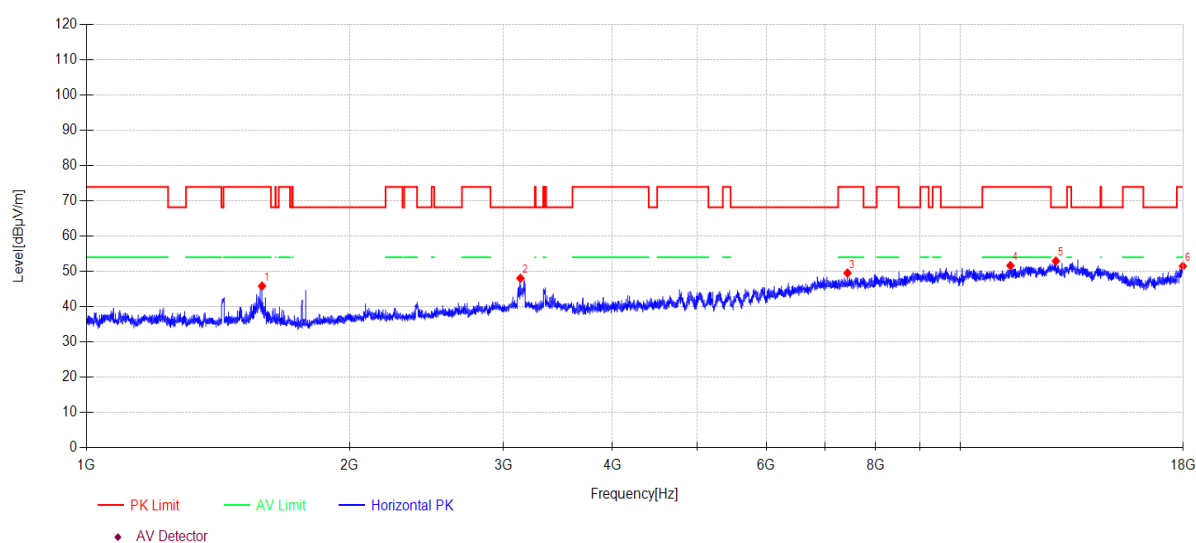
Condition: Temp:22.2°C;Humi:56.7%

Test Site: DDT 3# Chamber

File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\1

Memo: 11A 5180 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1588.36	56.20	3.33	25.40	-39.08	45.85	74.00	28.15	PK	Horizontal
2	3138.06	54.23	5.10	29.60	-40.88	48.05	68.20	20.15	PK	Horizontal
3	7429.28	46.18	7.86	36.50	-41.00	49.54	74.00	24.46	PK	Horizontal
4	11414.62	44.18	8.23	39.09	-39.84	51.66	74.00	22.34	PK	Horizontal
5	12865.43	43.70	9.38	39.63	-39.77	52.94	68.20	15.26	PK	Horizontal
6	17979.20	39.16	11.34	41.68	-40.69	51.49	74.00	22.51	PK	Horizontal

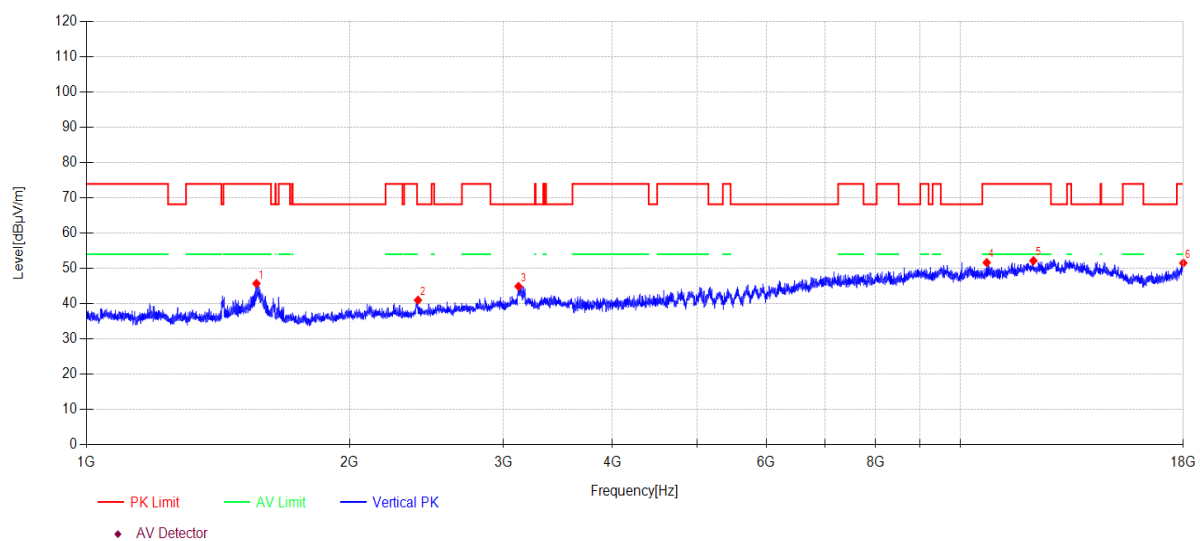
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-18 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI2
Memo: 11A 5180 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1565.12	56.05	3.31	25.40	-39.05	45.71	74.00	28.29	PK	Vertical
2	2395.69	49.36	4.26	27.49	-40.14	40.97	68.20	27.23	PK	Vertical
3	3122.68	51.06	5.09	29.60	-40.87	44.88	68.20	23.32	PK	Vertical
4	10723.84	44.91	8.17	39.10	-40.53	51.65	74.00	22.35	PK	Vertical
5	12125.34	43.66	8.43	39.10	-39.03	52.16	74.00	21.84	PK	Vertical
6	18000.00	39.09	11.35	41.80	-40.70	51.54	74.00	22.46	PK	Vertical

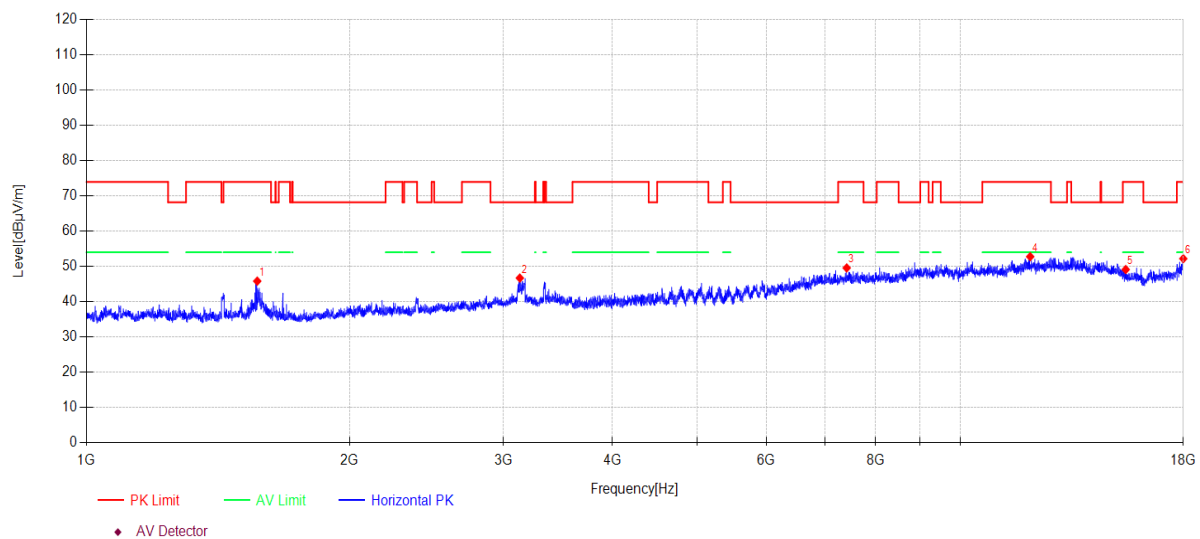
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\51
Memo: 11A 5200 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1568.29	56.16	3.31	25.40	-39.05	45.82	74.00	28.18	PK	Horizontal
2	3133.53	52.87	5.10	29.60	-40.88	46.69	68.20	21.51	PK	Horizontal
3	7414.26	46.20	7.87	36.50	-41.00	49.57	74.00	24.43	PK	Horizontal
4	12024.14	44.43	8.30	38.95	-38.92	52.76	74.00	21.24	PK	Horizontal
5	15465.97	40.43	10.08	38.63	-40.03	49.11	74.00	24.89	PK	Horizontal
6	18000.00	39.74	11.35	41.80	-40.70	52.19	74.00	21.81	PK	Horizontal

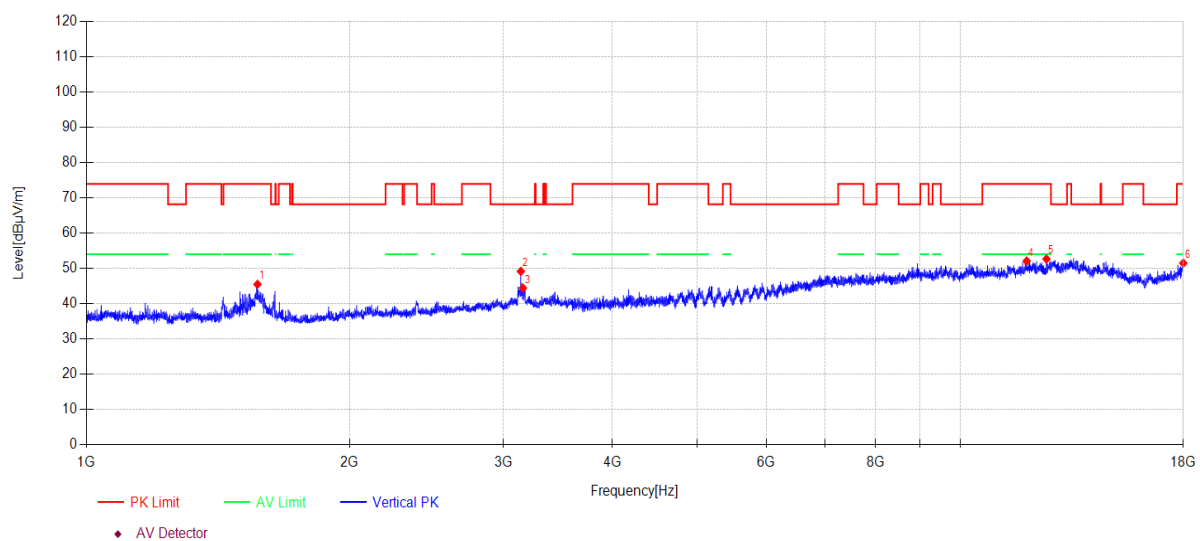
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\52
Memo: 11A 5200 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1569.20	55.82	3.31	25.40	-39.05	45.48	74.00	28.52	PK	Vertical
2	3141.69	55.34	5.10	29.60	-40.89	49.15	68.20	19.05	PK	Vertical
3	3158.99	50.61	5.12	29.60	-40.90	44.43	68.20	23.77	PK	Vertical
4	11913.45	44.06	8.26	38.81	-39.04	52.09	74.00	21.91	PK	Vertical
5	12549.61	43.98	8.97	39.15	-39.45	52.65	74.00	21.35	PK	Vertical
6	18000.00	39.04	11.35	41.80	-40.70	51.49	74.00	22.51	PK	Vertical

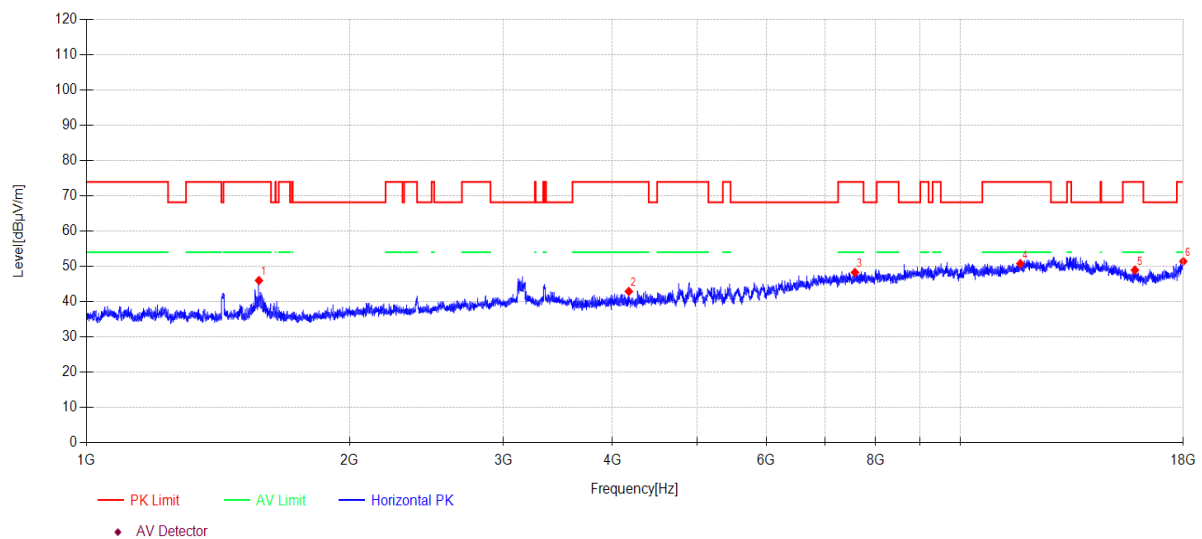
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\53
Memo: 11A 5240 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1575.56	56.35	3.32	25.40	-39.06	46.01	74.00	27.99	PK	Horizontal
2	4176.34	47.32	5.88	31.05	-41.35	42.90	74.00	31.10	PK	Horizontal
3	7576.72	45.04	7.85	36.40	-41.00	48.29	74.00	25.71	PK	Horizontal
4	11715.41	43.10	8.25	38.80	-39.36	50.79	74.00	23.21	PK	Horizontal
5	15846.03	40.81	10.29	38.15	-40.29	48.96	74.00	25.04	PK	Horizontal
6	18000.00	38.97	11.35	41.80	-40.70	51.42	74.00	22.58	PK	Horizontal

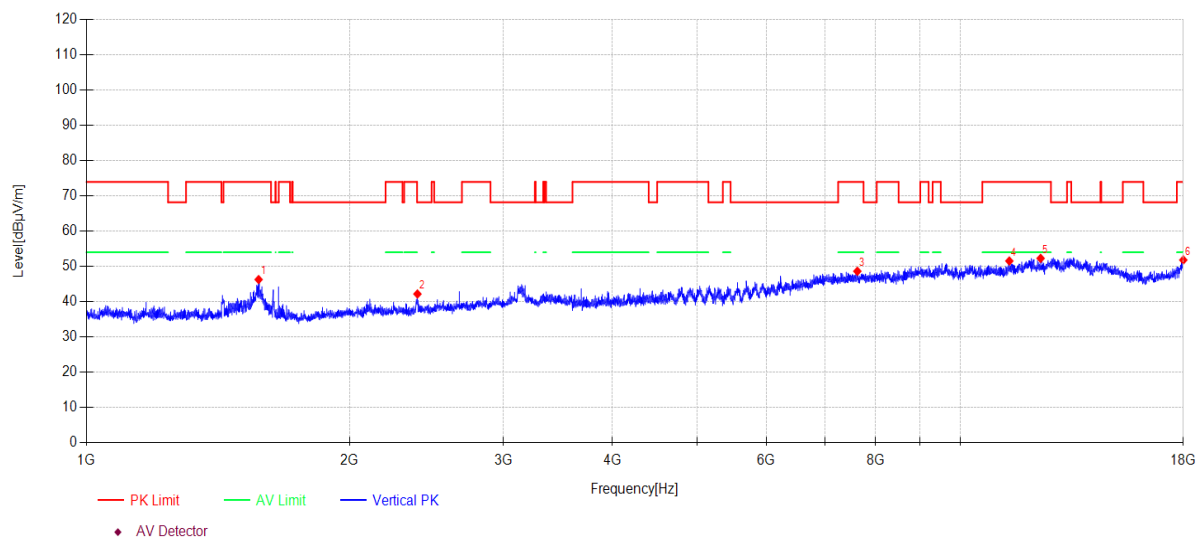
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\54
Memo: 11A 5240 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1574.19	56.61	3.32	25.40	-39.06	46.27	74.00	27.73	PK	Vertical
2	2392.23	50.56	4.26	27.48	-40.13	42.17	68.20	26.03	PK	Vertical
3	7625.05	45.33	7.84	36.45	-41.00	48.62	74.00	25.38	PK	Vertical
4	11381.68	44.10	8.23	39.10	-39.89	51.54	74.00	22.46	PK	Vertical
5	12358.84	43.71	8.73	39.10	-39.26	52.28	74.00	21.72	PK	Vertical
6	18000.00	39.36	11.35	41.80	-40.70	51.81	74.00	22.19	PK	Vertical

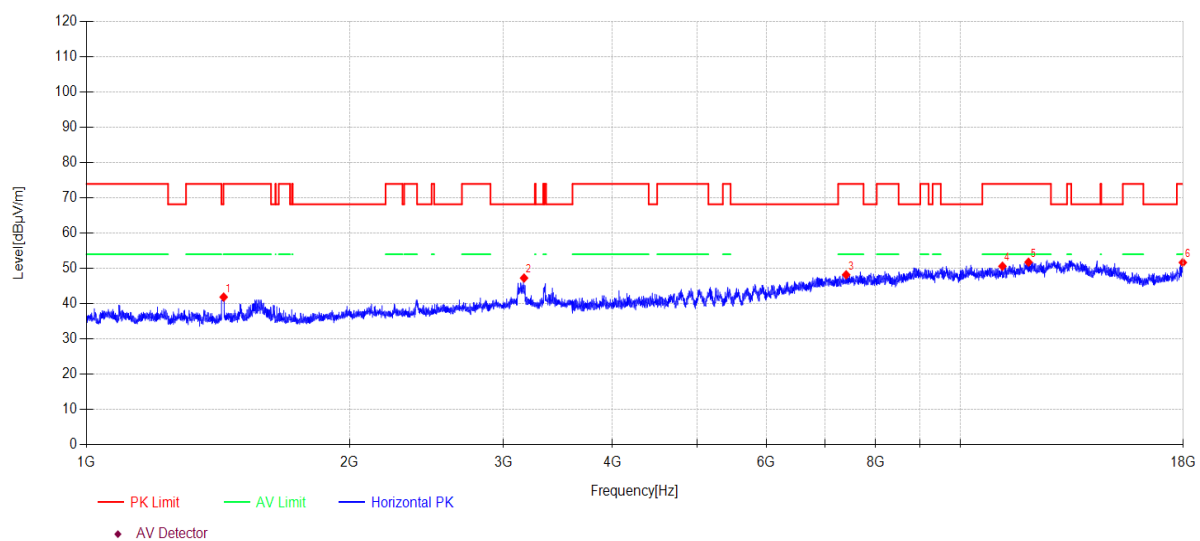
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\55
Memo: 11A 5260 ANT1

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1435.55	51.95	3.16	25.60	-38.85	41.86	74.00	32.14	PK	Horizontal
2	3168.13	53.44	5.13	29.60	-40.90	47.27	68.20	20.93	PK	Horizontal
3	7403.56	44.83	7.87	36.50	-41.00	48.20	74.00	25.80	PK	Horizontal
4	11176.32	43.51	8.22	39.10	-40.22	50.61	74.00	23.39	PK	Horizontal
5	11972.13	43.56	8.27	38.87	-38.94	51.76	74.00	22.24	PK	Horizontal
6	17979.20	39.34	11.34	41.68	-40.69	51.67	74.00	22.33	PK	Horizontal

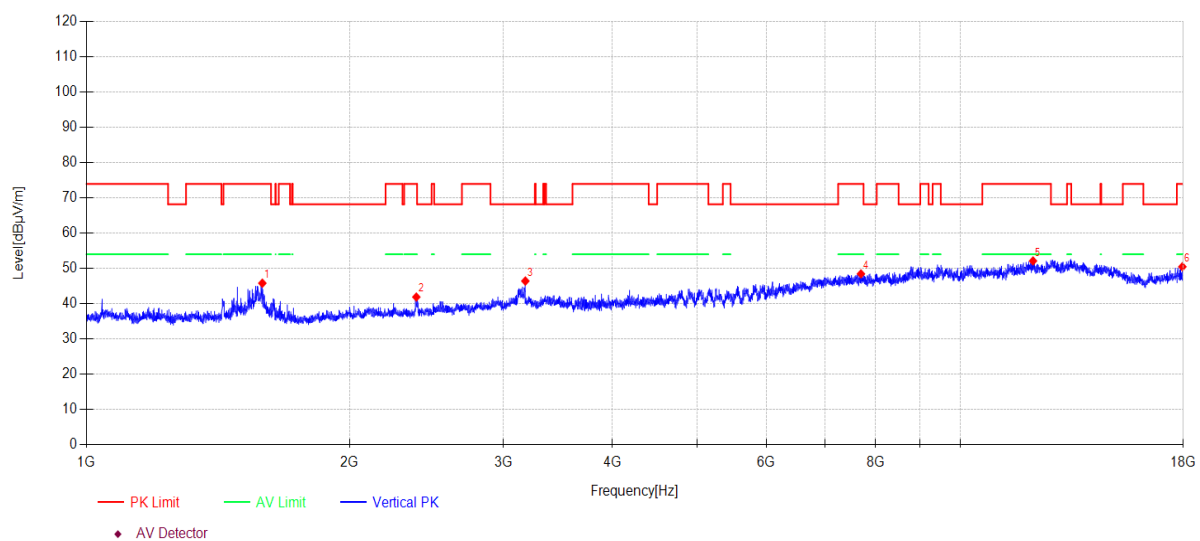
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\56
Memo: 11A 5260 ANT1

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1589.74	56.16	3.33	25.40	-39.08	45.81	74.00	28.19	PK	Vertical
2	2385.33	50.28	4.25	27.47	-40.12	41.88	74.00	32.12	PK	Vertical
3	3179.14	52.59	5.14	29.60	-40.91	46.42	68.20	21.78	PK	Vertical
4	7698.12	45.02	7.83	36.60	-41.00	48.45	74.00	25.55	PK	Vertical
5	12114.83	43.62	8.42	39.10	-39.01	52.13	74.00	21.87	PK	Vertical
6	17958.43	38.28	11.32	41.55	-40.68	50.47	74.00	23.53	PK	Vertical

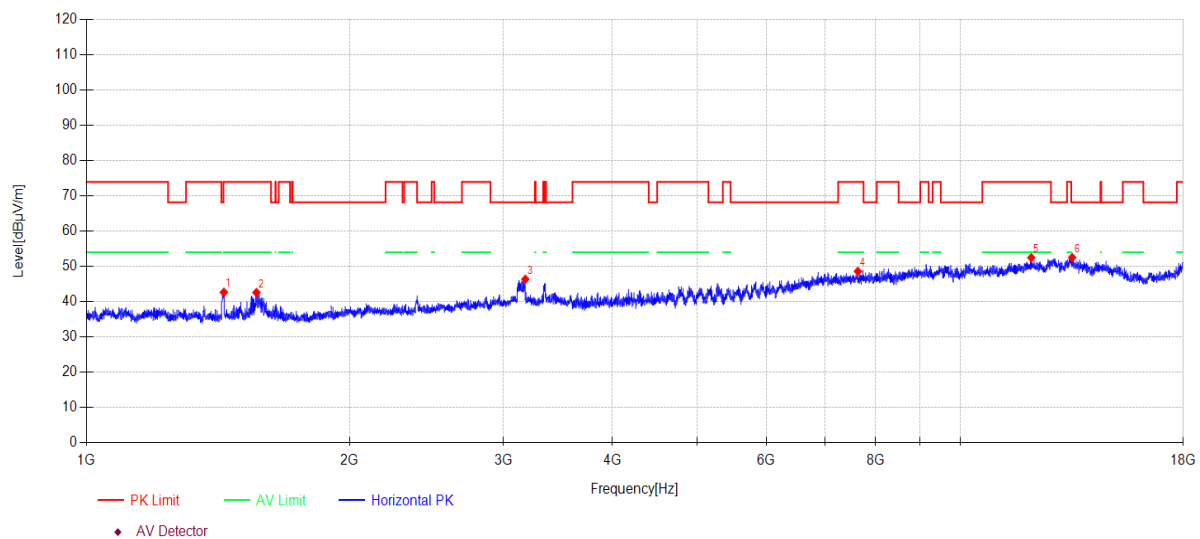
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\57
Memo: 11A 5280 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1436.38	52.75	3.16	25.60	-38.85	42.66	74.00	31.34	PK	Horizontal
2	1565.12	52.94	3.31	25.40	-39.05	42.60	74.00	31.40	PK	Horizontal
3	3179.14	52.53	5.14	29.60	-40.91	46.36	68.20	21.84	PK	Horizontal
4	7636.08	45.29	7.84	36.47	-41.00	48.60	74.00	25.40	PK	Horizontal
5	12058.94	44.06	8.35	39.02	-38.96	52.47	74.00	21.53	PK	Horizontal
6	13431.55	42.80	9.39	40.10	-39.77	52.52	68.20	15.68	PK	Horizontal

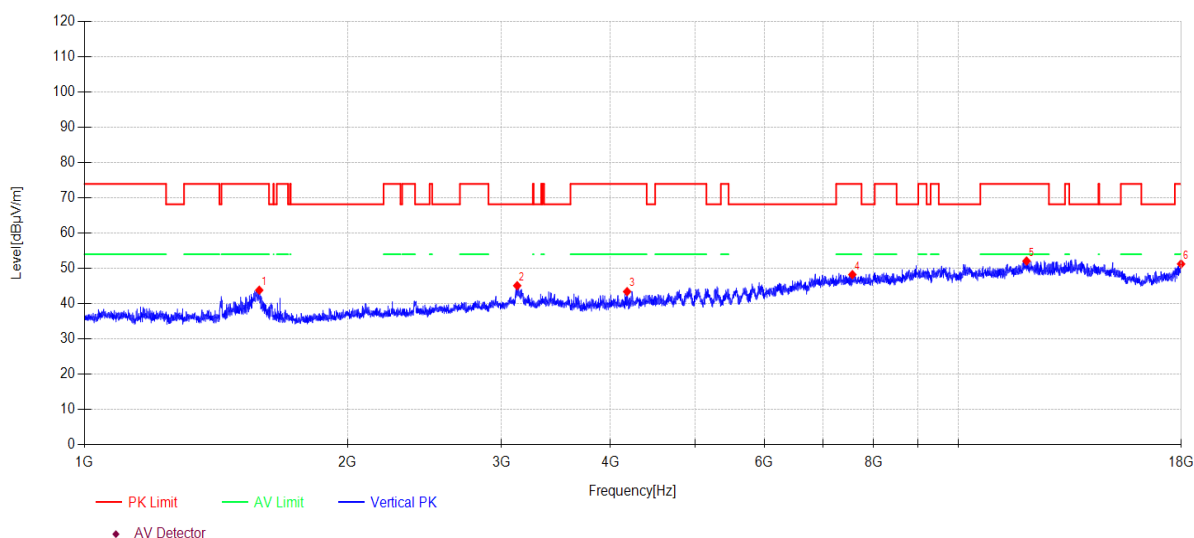
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\58
Memo: 11A 5280 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1585.15	54.16	3.33	25.40	-39.08	43.81	74.00	30.19	PK	Vertical
2	3128.10	51.29	5.09	29.60	-40.88	45.10	68.20	23.10	PK	Vertical
3	4178.75	47.83	5.88	31.06	-41.35	43.42	74.00	30.58	PK	Vertical
4	7565.78	44.98	7.85	36.40	-41.00	48.23	74.00	25.77	PK	Vertical
5	11972.13	43.89	8.27	38.87	-38.94	52.09	74.00	21.91	PK	Vertical
6	17989.60	38.89	11.34	41.74	-40.70	51.27	74.00	22.73	PK	Vertical

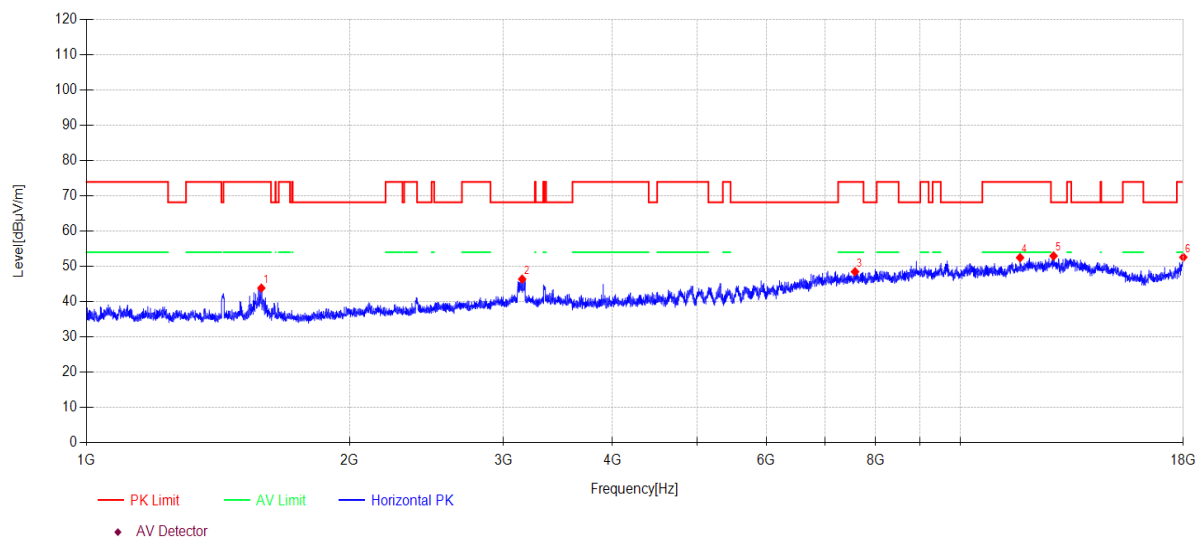
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\59
Memo: 11A 5320 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1585.61	54.20	3.33	25.40	-39.08	43.85	74.00	30.15	PK	Horizontal
2	3152.61	52.57	5.11	29.60	-40.89	46.39	68.20	21.81	PK	Horizontal
3	7578.91	45.24	7.84	36.40	-41.00	48.48	74.00	25.52	PK	Horizontal
4	11708.64	44.79	8.25	38.80	-39.37	52.47	74.00	21.53	PK	Horizontal
5	12787.59	43.90	9.28	39.49	-39.69	52.98	68.20	15.22	PK	Horizontal
6	18000.00	40.13	11.35	41.80	-40.70	52.58	74.00	21.42	PK	Horizontal

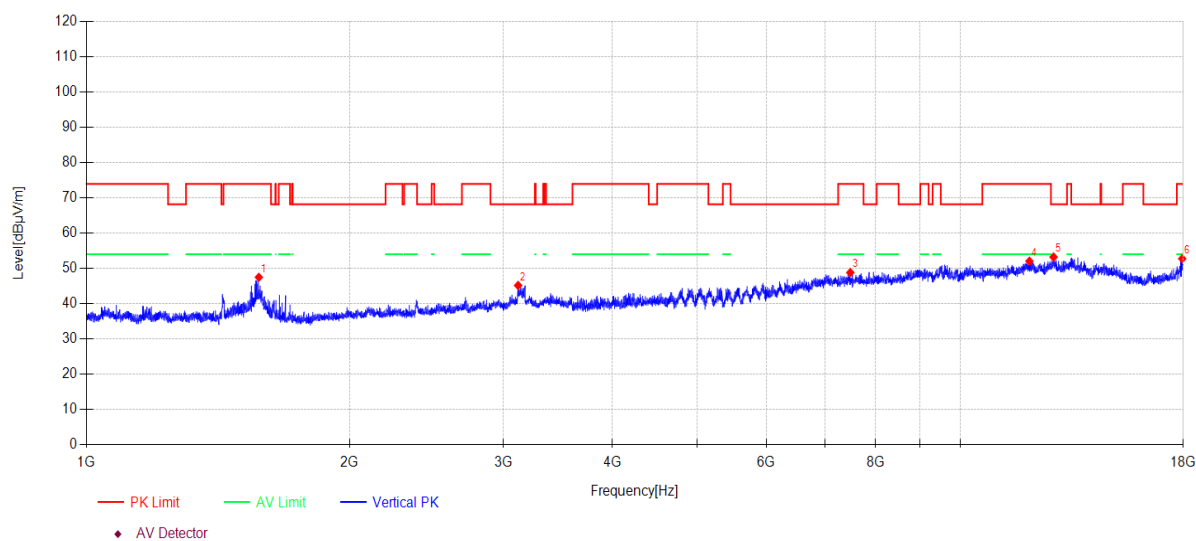
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\60
Memo: 11A 5320 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1575.10	57.83	3.32	25.40	-39.06	47.49	74.00	26.51	PK	Vertical
2	3119.08	51.35	5.09	29.60	-40.87	45.17	68.20	23.03	PK	Vertical
3	7485.31	45.54	7.86	36.43	-41.00	48.83	74.00	25.17	PK	Vertical
4	11999.84	43.77	8.27	38.90	-38.90	52.04	74.00	21.96	PK	Vertical
5	12787.59	44.15	9.28	39.49	-39.69	53.23	68.20	14.97	PK	Vertical
6	17948.05	40.64	11.31	41.49	-40.68	52.76	74.00	21.24	PK	Vertical

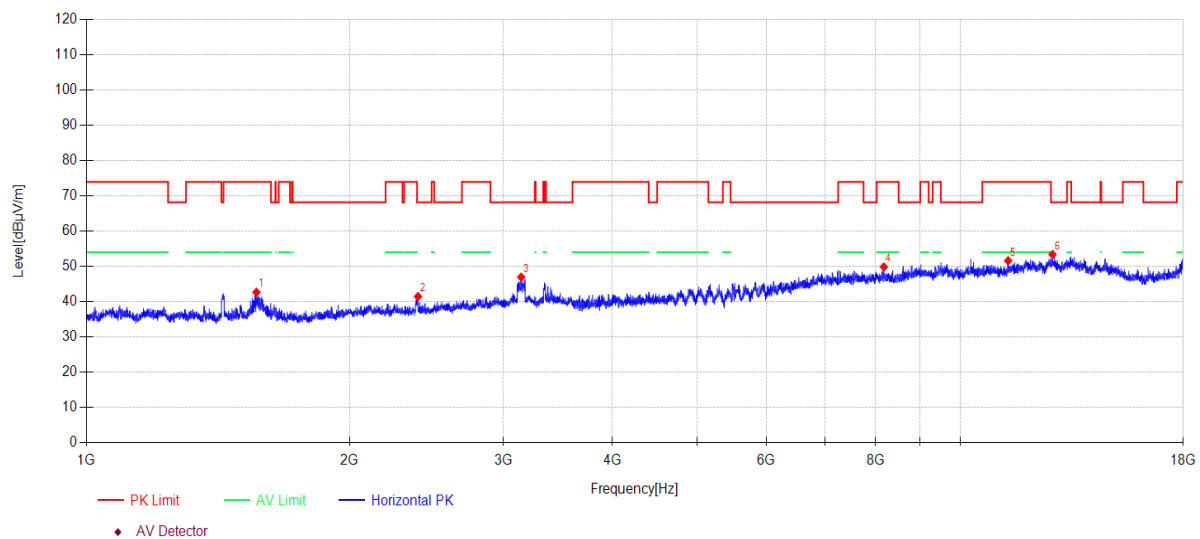
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\61
Memo: 11A 5500 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1565.12	53.03	3.31	25.40	-39.05	42.69	74.00	31.31	PK	Horizontal
2	2395.69	49.83	4.26	27.49	-40.14	41.44	68.20	26.76	PK	Horizontal
3	3144.42	53.13	5.11	29.60	-40.89	46.95	68.20	21.25	PK	Horizontal
4	8177.44	45.77	7.75	37.05	-40.72	49.85	74.00	24.15	PK	Horizontal
5	11345.55	44.23	8.23	39.10	-39.95	51.61	74.00	22.39	PK	Horizontal
6	12754.37	44.34	9.24	39.45	-39.65	53.38	68.20	14.82	PK	Horizontal

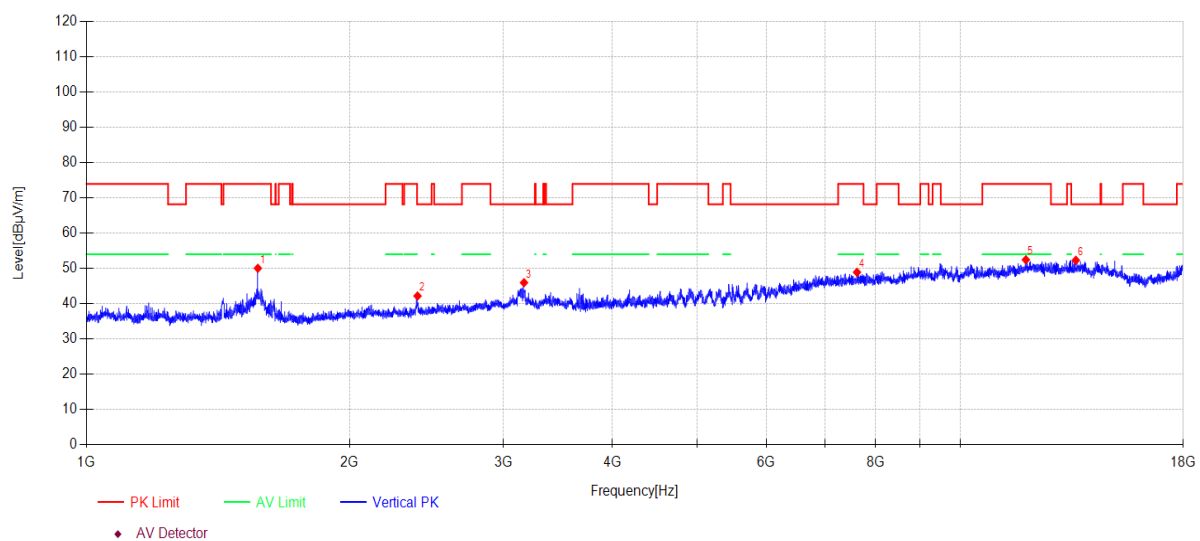
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\62
Memo: 11A 5500 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1571.01	60.38	3.31	25.40	-39.06	50.03	74.00	23.97	PK	Vertical
2	2392.92	50.55	4.26	27.49	-40.13	42.17	68.20	26.03	PK	Vertical
3	3168.13	52.13	5.13	29.60	-40.90	45.96	68.20	22.24	PK	Vertical
4	7618.44	45.63	7.84	36.44	-41.00	48.91	74.00	25.09	PK	Vertical
5	11889.37	44.47	8.26	38.80	-39.08	52.45	74.00	21.55	PK	Vertical
6	13560.26	42.59	9.34	40.10	-39.73	52.30	68.20	15.90	PK	Vertical

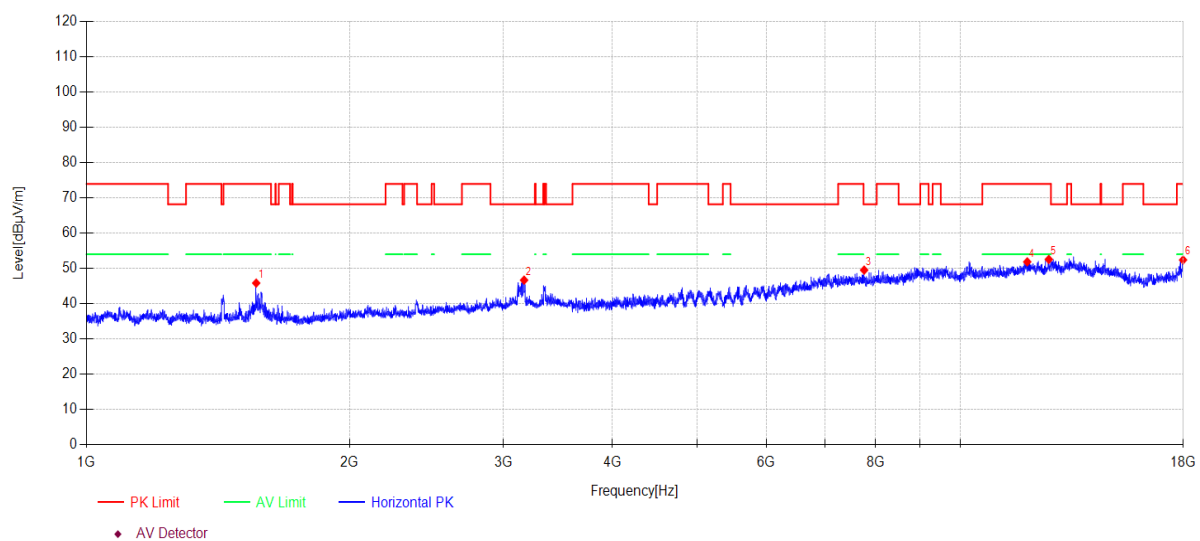
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\63
Memo: 11A 5580 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1564.22	56.17	3.31	25.40	-39.05	45.83	74.00	28.17	PK	Horizontal
2	3169.05	52.84	5.13	29.60	-40.90	46.67	68.20	21.53	PK	Horizontal
3	7762.91	46.07	7.82	36.63	-41.00	49.52	68.20	18.68	PK	Horizontal
4	11930.68	43.77	8.27	38.83	-39.01	51.86	74.00	22.14	PK	Horizontal
5	12629.65	43.74	9.08	39.26	-39.53	52.55	74.00	21.45	PK	Horizontal
6	17989.60	40.02	11.34	41.74	-40.70	52.40	74.00	21.60	PK	Horizontal

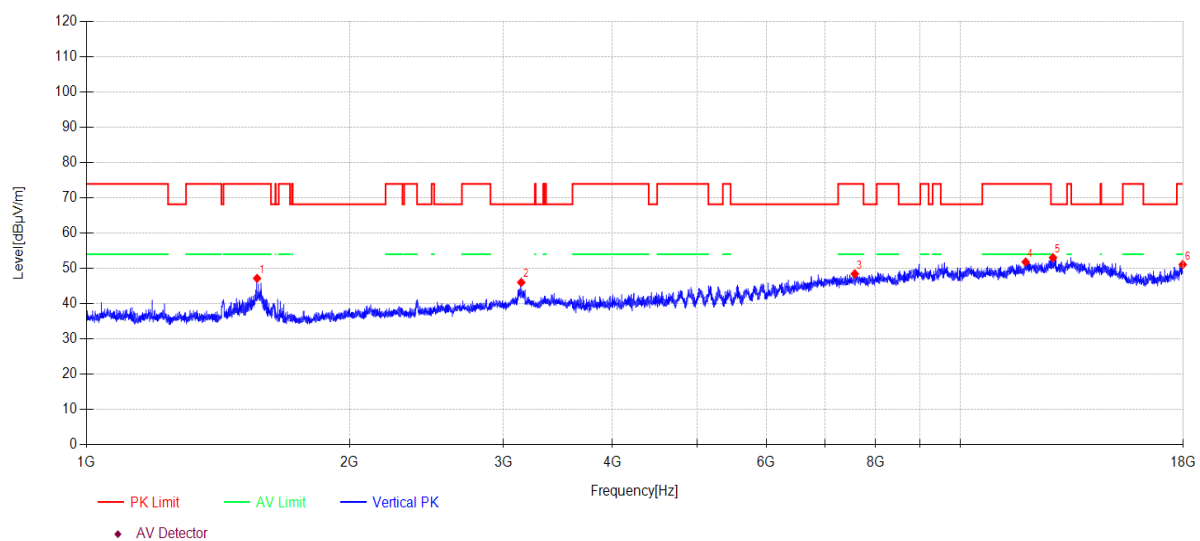
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\64
Memo: 11A 5580 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1567.84	57.51	3.31	25.40	-39.05	47.17	74.00	26.83	PK	Vertical
2	3144.42	52.20	5.11	29.60	-40.89	46.02	68.20	22.18	PK	Vertical
3	7574.54	45.20	7.85	36.40	-41.00	48.45	74.00	25.55	PK	Vertical
4	11882.50	43.84	8.26	38.80	-39.09	51.81	74.00	22.19	PK	Vertical
5	12769.12	44.00	9.25	39.47	-39.67	53.05	68.20	15.15	PK	Vertical
6	17974.01	38.81	11.33	41.64	-40.69	51.09	74.00	22.91	PK	Vertical

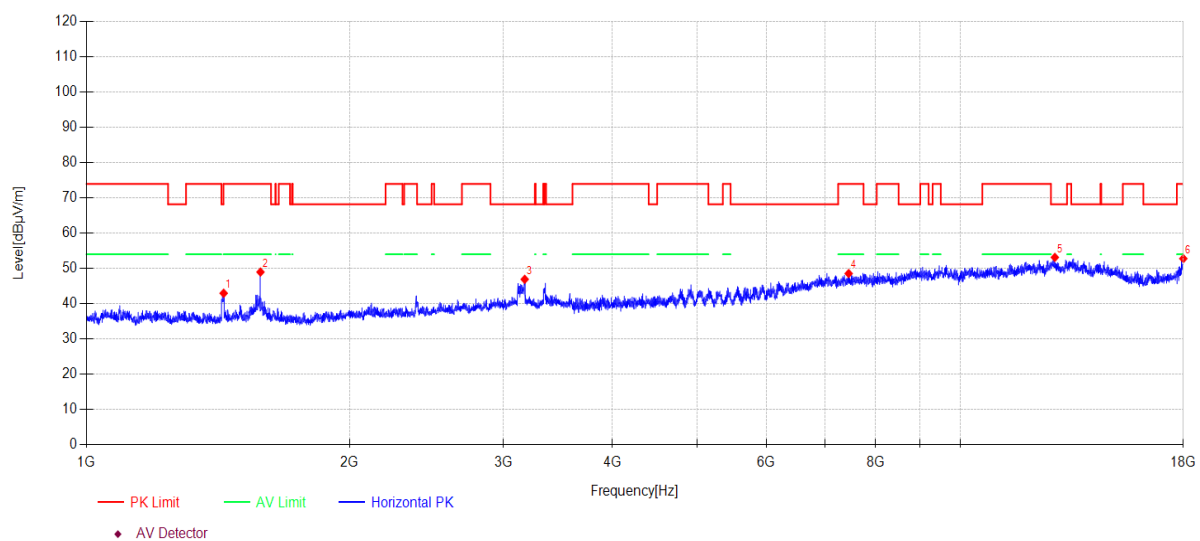
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\65
Memo: 11A 5700 ANT1

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1435.55	53.04	3.16	25.60	-38.85	42.95	74.00	31.05	PK	Horizontal
2	1581.95	59.30	3.33	25.40	-39.07	48.96	74.00	25.04	PK	Horizontal
3	3173.63	53.07	5.13	29.60	-40.90	46.90	68.20	21.30	PK	Horizontal
4	7452.93	45.20	7.86	36.49	-41.00	48.55	74.00	25.45	PK	Horizontal
5	12832.01	43.98	9.33	39.56	-39.73	53.14	68.20	15.06	PK	Horizontal
6	18000.00	40.33	11.35	41.80	-40.70	52.78	74.00	21.22	PK	Horizontal

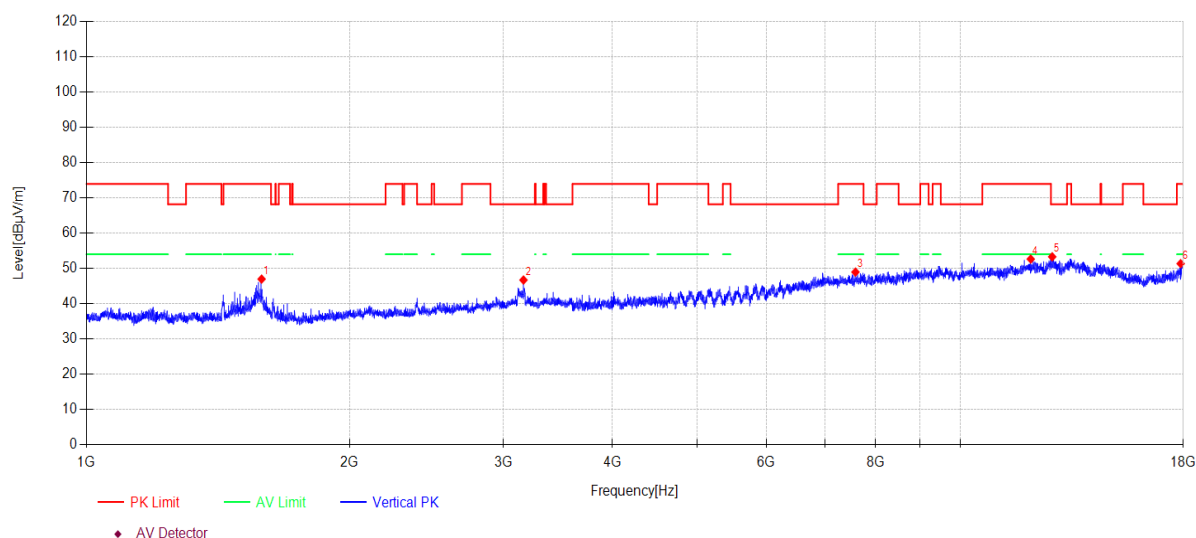
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\66
Memo: 11A 5700 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1586.53	57.32	3.33	25.40	-39.08	46.97	74.00	27.03	PK	Vertical
2	3163.56	52.88	5.12	29.60	-40.90	46.70	68.20	21.50	PK	Vertical
3	7587.68	45.72	7.84	36.40	-41.00	48.96	74.00	25.04	PK	Vertical
4	12041.53	44.28	8.32	38.98	-38.94	52.64	74.00	21.36	PK	Vertical
5	12743.32	44.27	9.22	39.44	-39.64	53.29	68.20	14.91	PK	Vertical
6	17875.58	39.71	11.26	41.03	-40.65	51.35	74.00	22.65	PK	Vertical

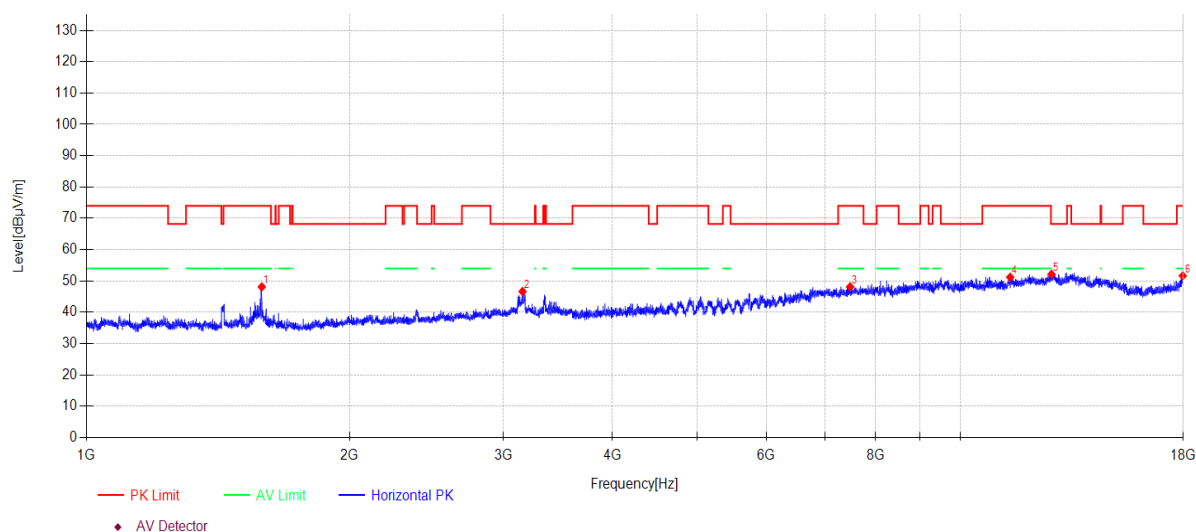
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5.8GWiFi\1
Memo: 11A 5745 ANT1

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1587.44	58.47	3.33	25.40	-39.08	48.12	74.00	25.88	PK	Horizontal
2	3155.34	52.81	5.12	29.60	-40.89	46.64	68.20	21.56	PK	Horizontal
3	7480.99	44.84	7.86	36.44	-41.00	48.14	74.00	25.86	PK	Horizontal
4	11408.02	43.74	8.23	39.09	-39.85	51.21	74.00	22.79	PK	Horizontal
5	12717.56	43.18	9.19	39.42	-39.62	52.17	68.20	16.03	PK	Horizontal
6	17974.01	39.38	11.33	41.64	-40.69	51.66	74.00	22.34	PK	Horizontal

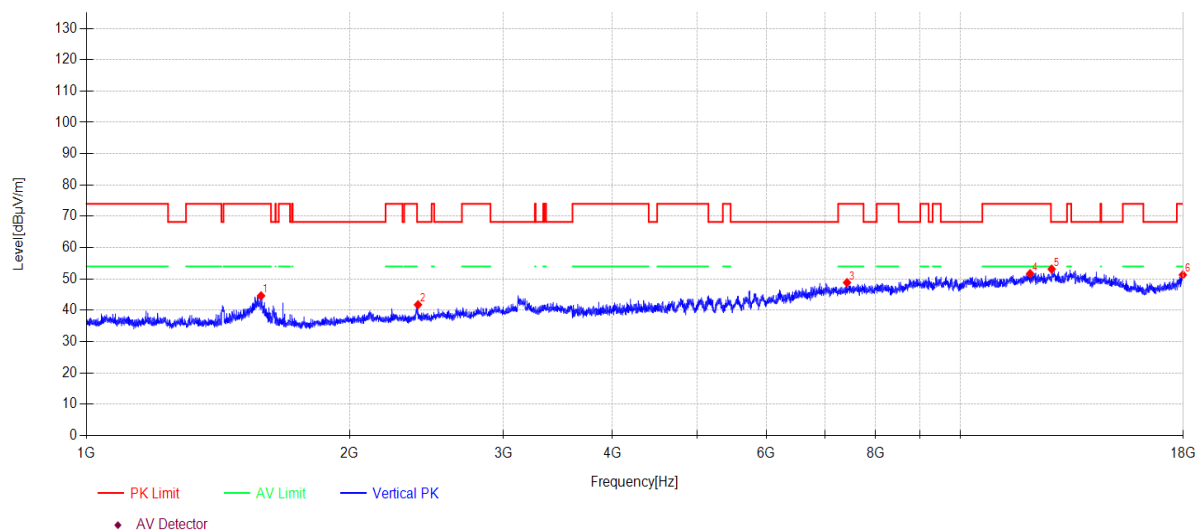
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5.8GWIFI\2
Memo: 11A 5745 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1584.23	54.97	3.33	25.40	-39.08	44.62	74.00	29.38	PK	Vertical
2	2395.69	50.16	4.26	27.49	-40.14	41.77	68.20	26.43	PK	Vertical
3	7420.69	45.47	7.87	36.50	-41.00	48.84	74.00	25.16	PK	Vertical
4	12024.14	43.36	8.30	38.95	-38.92	51.69	74.00	22.31	PK	Vertical
5	12724.91	44.14	9.20	39.42	-39.62	53.14	68.20	15.06	PK	Vertical
6	17979.20	39.00	11.34	41.68	-40.69	51.33	74.00	22.67	PK	Vertical

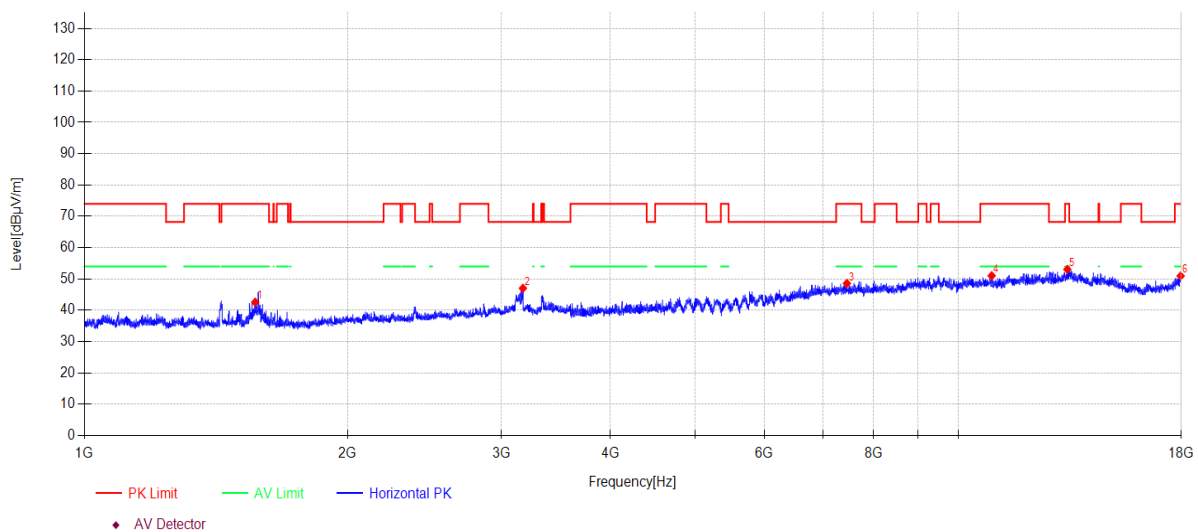
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5.8GWIFI\3
Memo: 11A 5785 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1568.29	52.94	3.31	25.40	-39.05	42.60	74.00	31.40	PK	Horizontal
2	3175.47	53.21	5.13	29.60	-40.91	47.03	68.20	21.17	PK	Horizontal
3	7457.24	45.22	7.86	36.49	-41.00	48.57	74.00	25.43	PK	Horizontal
4	10920.88	44.25	8.20	39.10	-40.51	51.04	74.00	22.96	PK	Horizontal
5	13331.00	43.39	9.42	40.03	-39.80	53.04	74.00	20.96	PK	Horizontal
6	17968.81	38.70	11.33	41.61	-40.69	50.95	74.00	23.05	PK	Horizontal

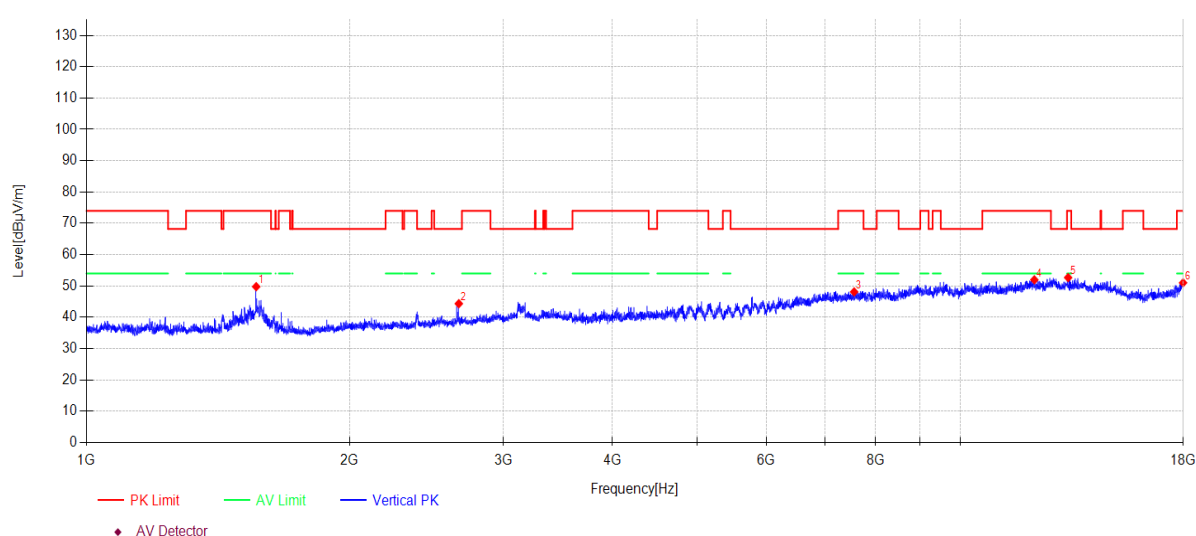
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5.8GWIFI\4
Memo: 11A 5785 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1564.22	60.12	3.31	25.40	-39.05	49.78	74.00	24.22	PK	Vertical
2	2667.61	51.95	4.59	28.24	-40.43	44.35	68.20	23.85	PK	Vertical
3	7561.41	44.87	7.85	36.40	-41.00	48.12	74.00	25.88	PK	Vertical
4	12156.92	43.46	8.47	39.10	-39.06	51.97	74.00	22.03	PK	Vertical
5	13288.69	43.06	9.44	39.99	-39.81	52.68	74.00	21.32	PK	Vertical
6	17989.60	38.63	11.34	41.74	-40.70	51.01	74.00	22.99	PK	Vertical

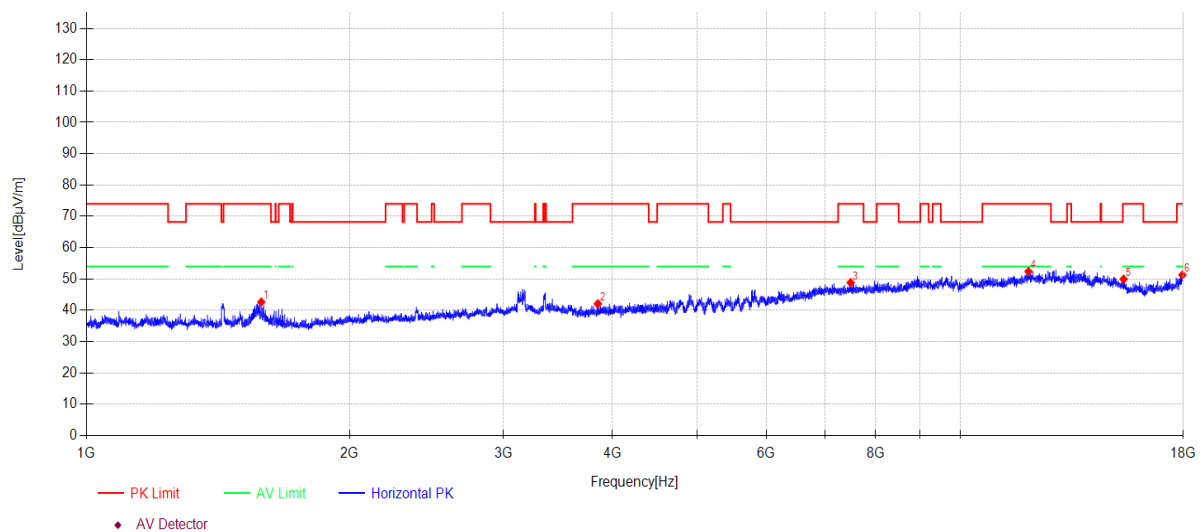
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5.8GWIFI\5
Memo: 11A 5825 ANT1

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1585.15	53.01	3.33	25.40	-39.08	42.66	74.00	31.34	PK	Horizontal
2	3848.35	47.31	5.68	30.40	-41.31	42.08	74.00	31.92	PK	Horizontal
3	7491.80	45.54	7.86	36.42	-41.00	48.82	74.00	25.18	PK	Horizontal
4	11972.13	44.18	8.27	38.87	-38.94	52.38	74.00	21.62	PK	Horizontal
5	15381.28	41.16	10.04	38.72	-39.97	49.95	74.00	24.05	PK	Horizontal
6	17958.43	39.10	11.32	41.55	-40.68	51.29	74.00	22.71	PK	Horizontal

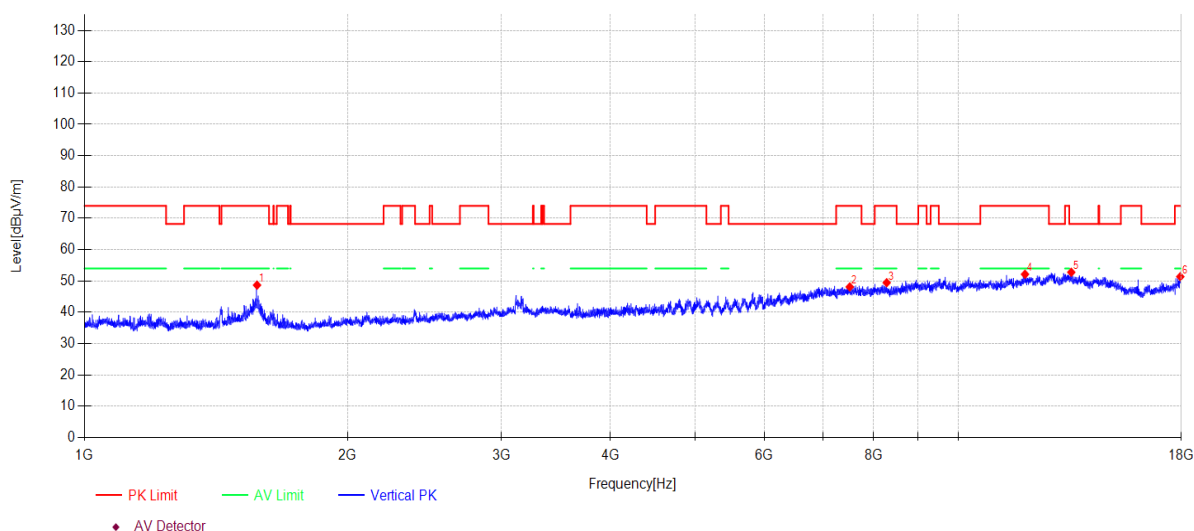
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-05-19 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5.8GWIFI\6
Memo: 11A 5825 ANT1

Test Graph



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1576.01	59.02	3.32	25.40	-39.06	48.68	74.00	25.32	PK	Vertical
2	7513.49	44.85	7.85	36.40	-41.00	48.10	74.00	25.90	PK	Vertical
3	8282.09	45.11	7.73	37.16	-40.55	49.45	74.00	24.55	PK	Vertical
4	11923.78	44.07	8.27	38.82	-39.02	52.14	74.00	21.86	PK	Vertical
5	13470.42	43.08	9.37	40.10	-39.76	52.79	68.20	15.41	PK	Vertical
6	17953.24	39.22	11.32	41.52	-40.68	51.38	74.00	22.62	PK	Vertical

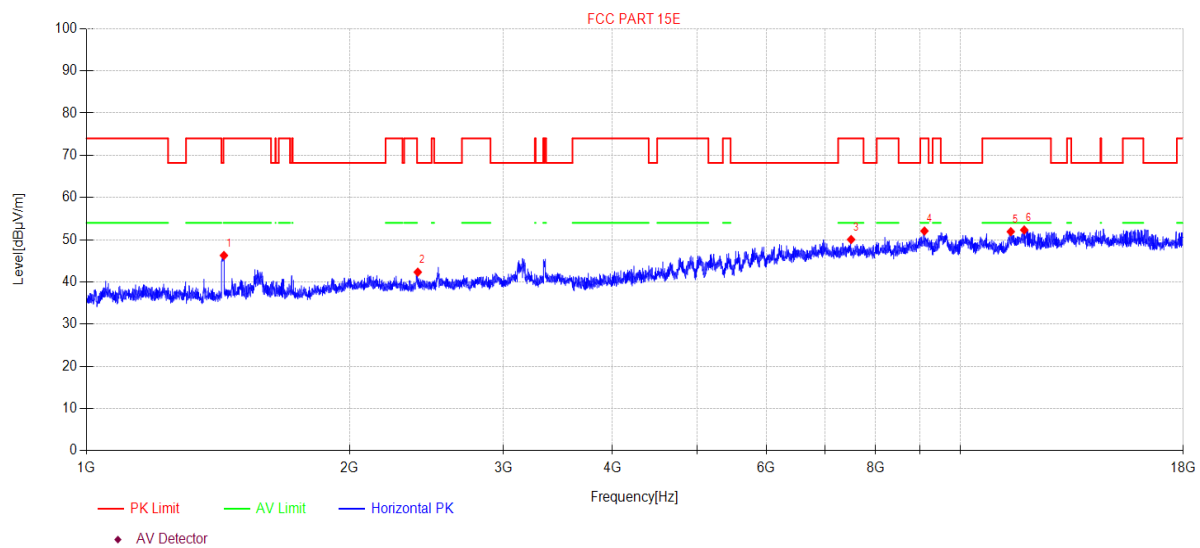
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-06-05 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\89
Memo: 11AC80MIMO 5210

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1436.80	55.16	4.37	25.60	-38.86	46.27	74.00	27.73	PK	Horizontal
2	2394.31	49.09	5.88	27.49	-40.13	42.33	68.20	25.87	PK	Horizontal
3	7500.47	45.77	8.88	36.40	-41.00	50.05	74.00	23.95	PK	Horizontal
4	9100.34	44.31	9.08	38.20	-39.52	52.07	74.00	21.93	PK	Horizontal
5	11424.52	42.79	9.86	39.08	-39.82	51.91	74.00	22.09	PK	Horizontal
6	11837.94	42.47	10.19	38.80	-39.16	52.30	74.00	21.70	PK	Horizontal

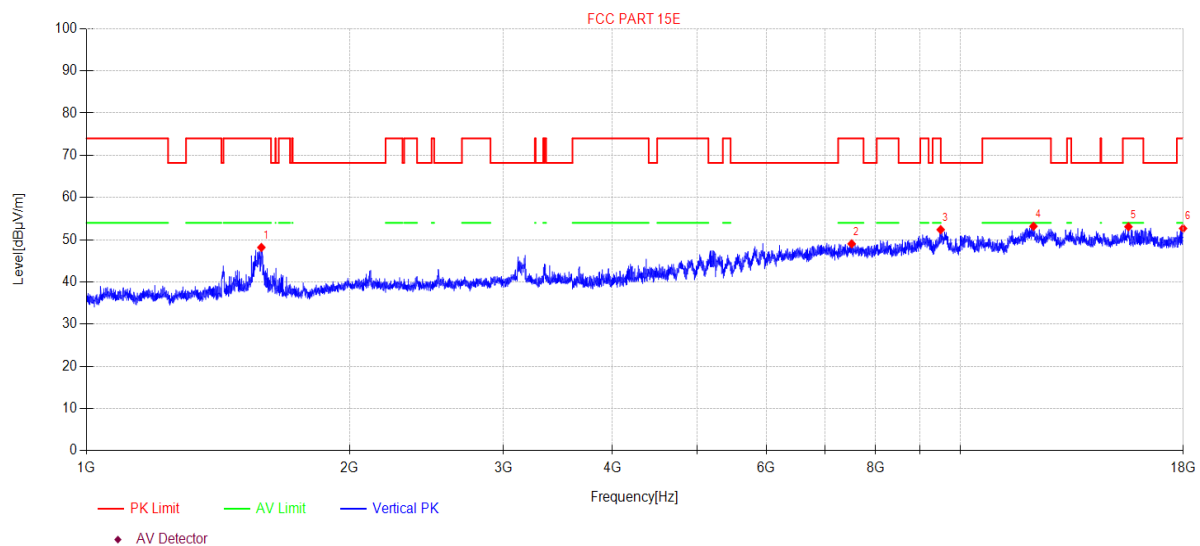
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-06-05 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\90
Memo: 11AC80MIMO 5210

Test Graph



Suspected Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1585.61	56.99	4.86	25.40	-39.08	48.17	74.00	25.83	PK	Vertical
2	7511.32	44.75	8.88	36.40	-41.00	49.03	74.00	24.97	PK	Vertical
3	9498.04	44.75	9.23	38.40	-40.00	52.38	74.00	21.62	PK	Vertical
4	12128.84	42.78	10.33	39.10	-39.03	53.18	74.00	20.82	PK	Vertical
5	15578.12	40.80	13.94	38.44	-40.10	53.08	74.00	20.92	PK	Vertical
6	17989.60	38.80	12.84	41.74	-40.70	52.68	74.00	21.32	PK	Vertical

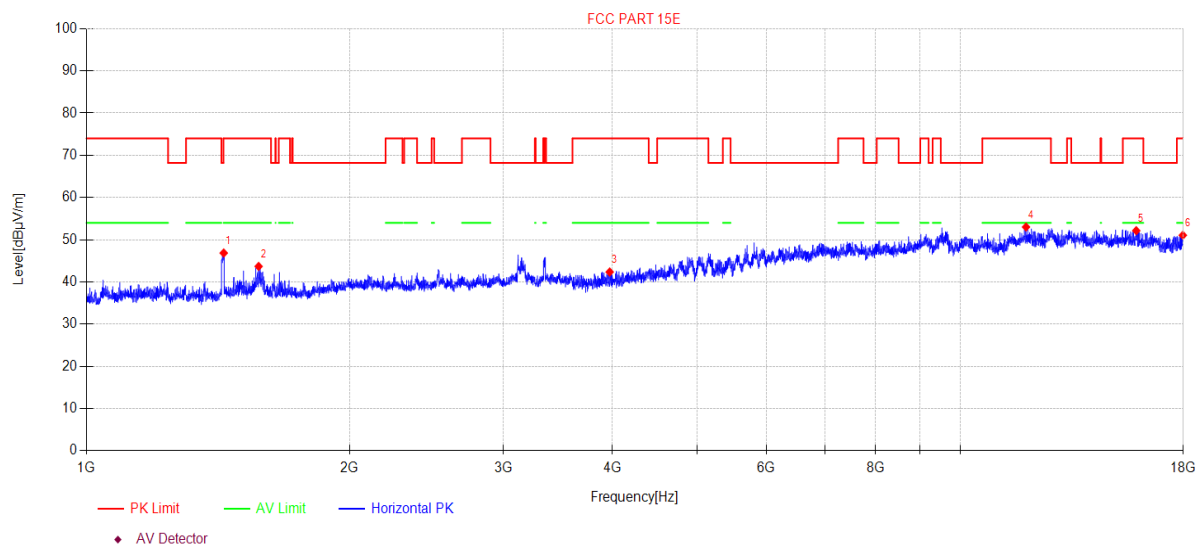
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-06-05 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\91
Memo: 11AC80MIMO 5290

Test Graph



Suspected Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1435.97	55.73	4.37	25.60	-38.85	46.85	74.00	27.15	PK	Horizontal
2	1574.19	52.52	4.82	25.40	-39.06	43.68	74.00	30.32	PK	Horizontal
3	3970.37	47.04	6.06	30.64	-41.38	42.36	74.00	31.64	PK	Horizontal
4	11892.81	43.05	10.23	38.80	-39.07	53.01	74.00	20.99	PK	Horizontal
5	15901.08	38.81	15.57	38.10	-40.33	52.15	74.00	21.85	PK	Horizontal
6	17979.20	37.24	12.83	41.68	-40.69	51.06	74.00	22.94	PK	Horizontal

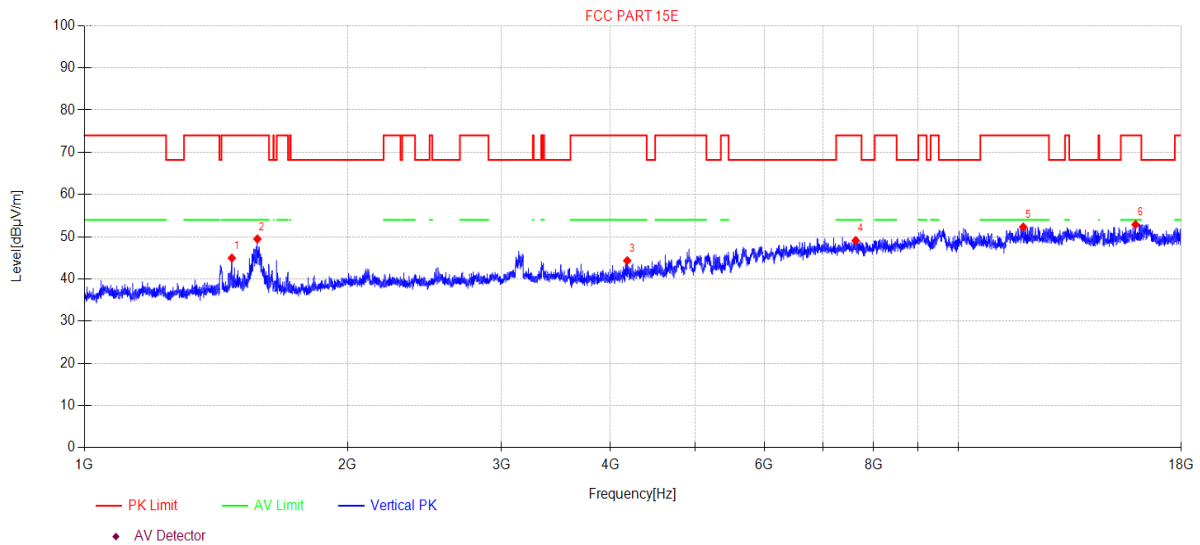
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-06-05 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\92
Memo: 11AC80MIMO 5290

Test Graph



Suspected Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1474.66	53.81	4.50	25.55	-38.91	44.95	74.00	29.05	PK	Vertical
2	1577.38	58.29	4.84	25.40	-39.07	49.46	74.00	24.54	PK	Vertical
3	4179.96	48.18	6.43	31.06	-41.35	44.32	74.00	29.68	PK	Vertical
4	7631.67	44.78	8.86	36.46	-41.00	49.10	74.00	24.90	PK	Vertical
5	11868.77	42.39	10.22	38.80	-39.11	52.30	74.00	21.70	PK	Vertical
6	15956.33	39.42	15.85	37.99	-40.37	52.89	74.00	21.11	PK	Vertical

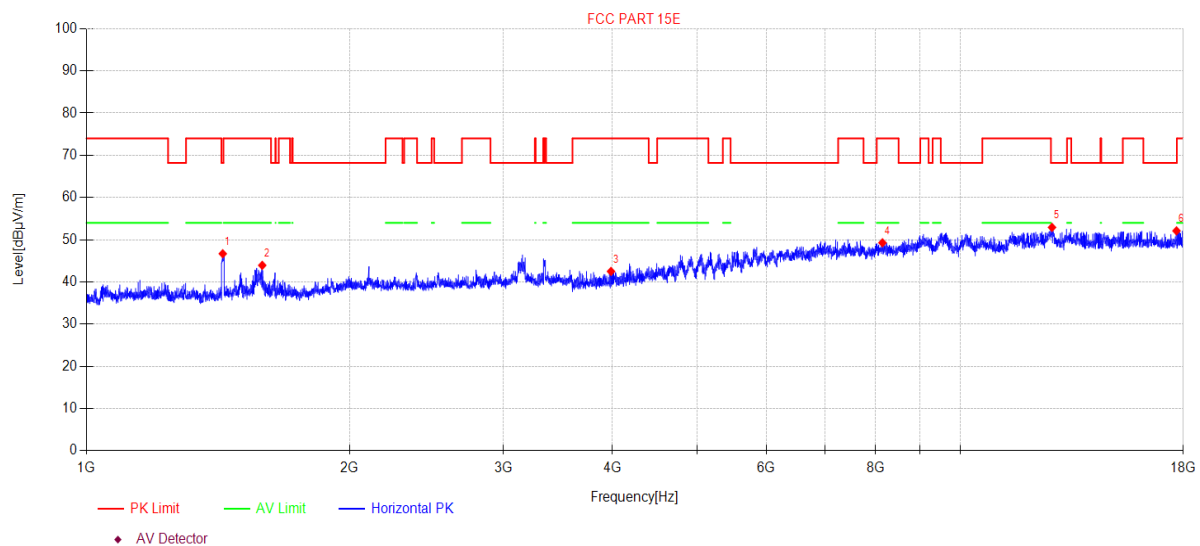
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-06-05 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\93
Memo: 11AC80MIMO 5530

Test Graph



Suspected Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1432.24	55.58	4.36	25.60	-38.85	46.69	68.20	21.51	PK	Horizontal
2	1589.28	52.74	4.87	25.40	-39.08	43.93	74.00	30.07	PK	Horizontal
3	3984.16	47.14	6.07	30.67	-41.39	42.49	74.00	31.51	PK	Horizontal
4	8146.77	44.21	8.84	37.00	-40.77	49.28	74.00	24.72	PK	Horizontal
5	12735.95	42.76	10.36	39.44	-39.64	52.92	68.20	15.28	PK	Horizontal
6	17680.34	40.42	12.54	39.72	-40.57	52.11	68.20	16.09	PK	Horizontal

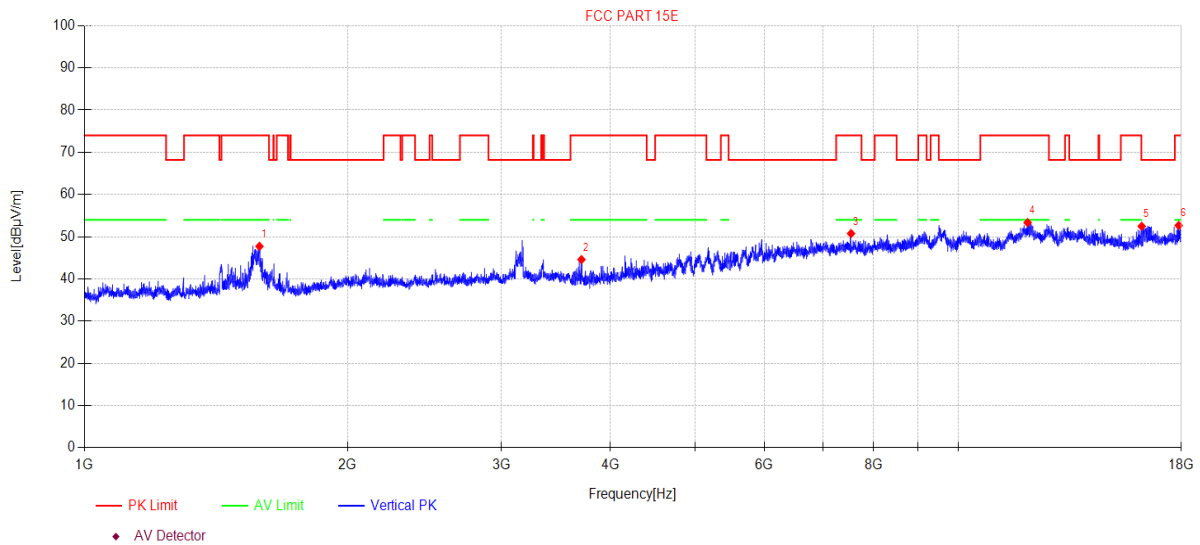
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-06-05 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\94
Memo: 11AC80MIMO 5530

Test Graph



Suspected Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1586.07	56.54	4.86	25.40	-39.08	47.72	74.00	26.28	PK	Vertical
2	3705.38	49.94	5.86	30.01	-41.22	44.59	74.00	29.41	PK	Vertical
3	7539.59	46.49	8.87	36.40	-41.00	50.76	74.00	23.24	PK	Vertical
4	12006.78	43.02	10.32	38.91	-38.91	53.34	74.00	20.66	PK	Vertical
5	16216.67	40.01	15.16	37.68	-40.38	52.47	68.20	15.73	PK	Vertical
6	17875.58	39.56	12.73	41.03	-40.65	52.67	74.00	21.33	PK	Vertical

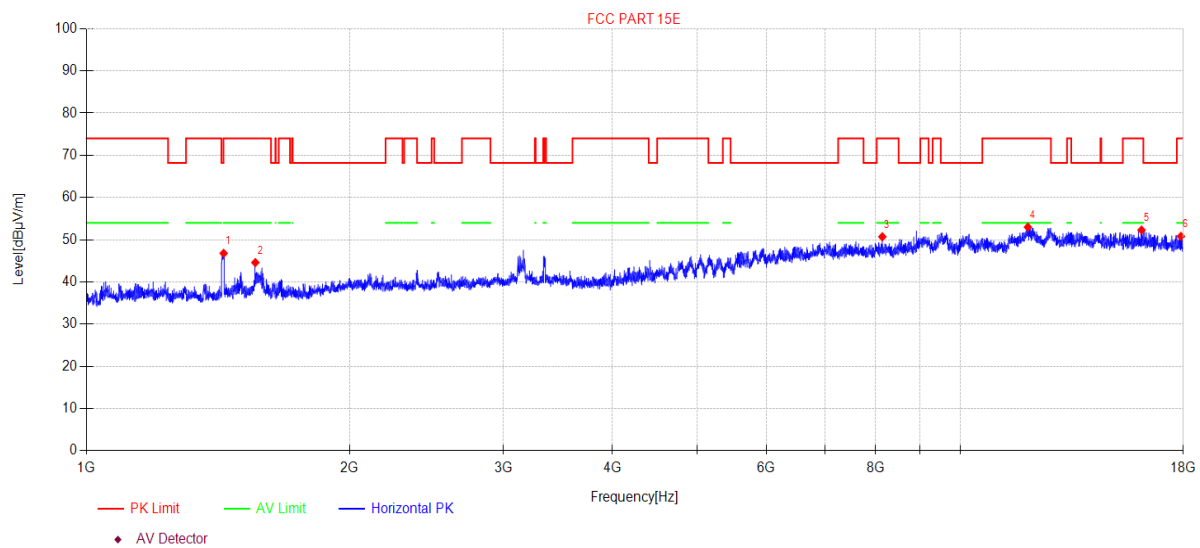
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-06-05 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\95
Memo: 11AC80MIMO 5610

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1435.55	55.66	4.37	25.60	-38.85	46.78	74.00	27.22	PK	Horizontal
2	1560.60	53.45	4.78	25.40	-39.04	44.59	74.00	29.41	PK	Horizontal
3	8144.42	45.65	8.83	37.00	-40.77	50.71	74.00	23.29	PK	Horizontal
4	11951.38	42.84	10.28	38.85	-38.98	52.99	74.00	21.01	PK	Horizontal
5	16123.21	39.35	15.55	37.78	-40.39	52.29	74.00	21.71	PK	Horizontal
6	17885.92	37.61	12.74	41.10	-40.65	50.80	74.00	23.20	PK	Horizontal

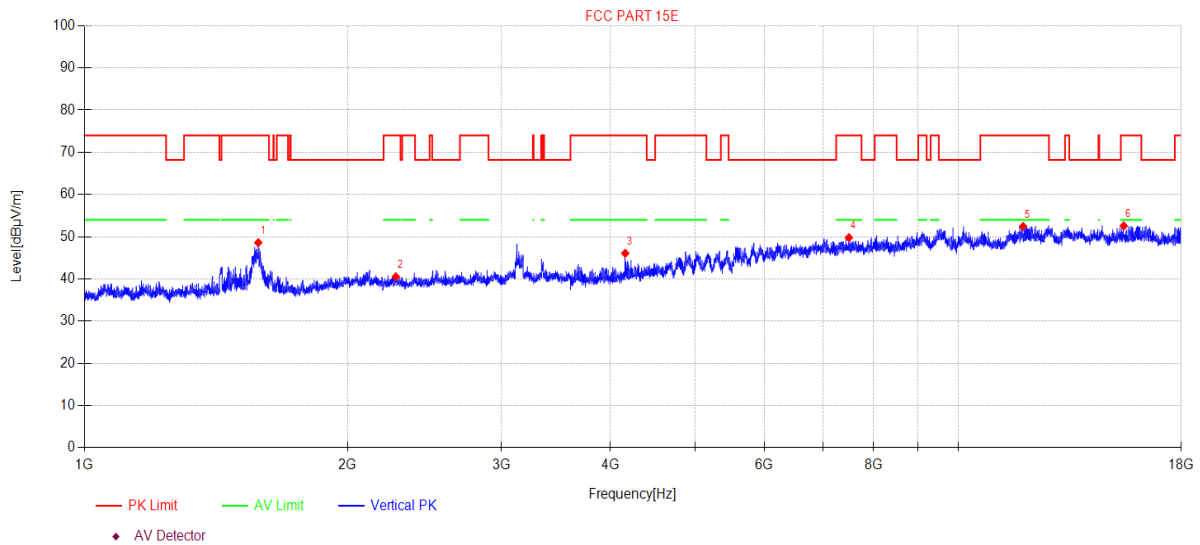
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-06-05 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\96
Memo: 11AC80MIMO 5610

Test Graph



Suspected Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1581.03	57.41	4.85	25.40	-39.07	48.59	74.00	25.41	PK	Vertical
2	2271.62	47.23	5.99	27.30	-40.00	40.52	74.00	33.48	PK	Vertical
3	4158.27	50.01	6.39	31.02	-41.35	46.07	74.00	27.93	PK	Vertical
4	7496.14	45.50	8.88	36.41	-41.00	49.79	74.00	24.21	PK	Vertical
5	11861.91	42.54	10.21	38.80	-39.12	52.43	74.00	21.57	PK	Vertical
6	15465.97	40.58	13.38	38.63	-40.03	52.56	74.00	21.44	PK	Vertical

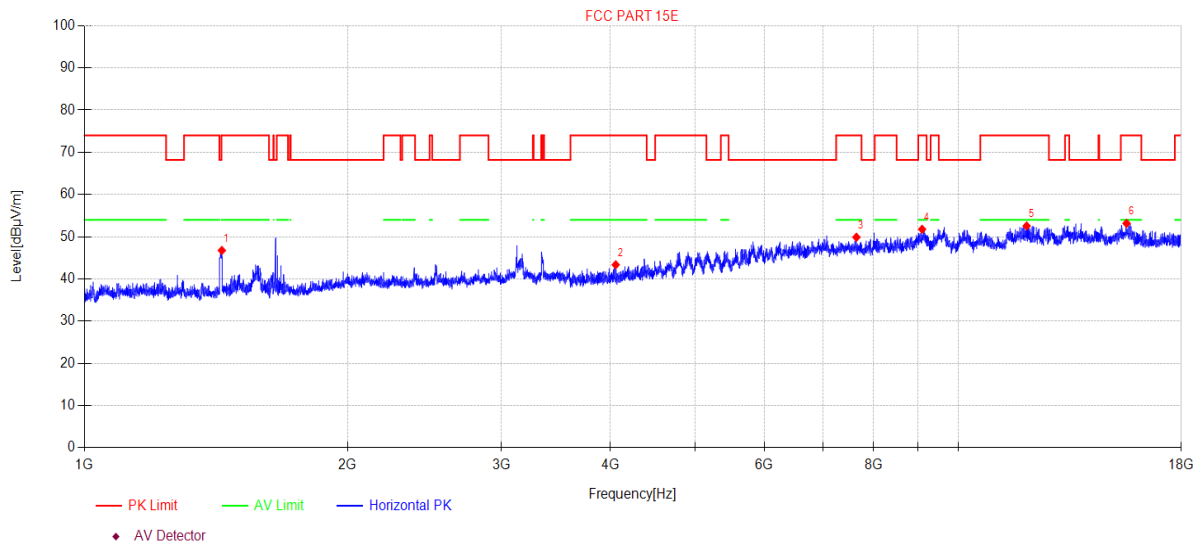
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-06-05 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\97
Memo: 11AC80MIMO 5690

Test Graph



Suspected Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1436.38	55.63	4.37	25.60	-38.85	46.75	74.00	27.25	PK	Horizontal
2	4055.02	47.73	6.19	30.81	-41.38	43.35	74.00	30.65	PK	Horizontal
3	7647.12	45.54	8.86	36.49	-41.00	49.89	74.00	24.11	PK	Horizontal
4	9092.46	44.00	9.08	38.20	-39.51	51.77	74.00	22.23	PK	Horizontal
5	11975.59	42.31	10.30	38.88	-38.94	52.55	74.00	21.45	PK	Horizontal
6	15582.63	40.88	13.97	38.43	-40.11	53.17	74.00	20.83	PK	Horizontal

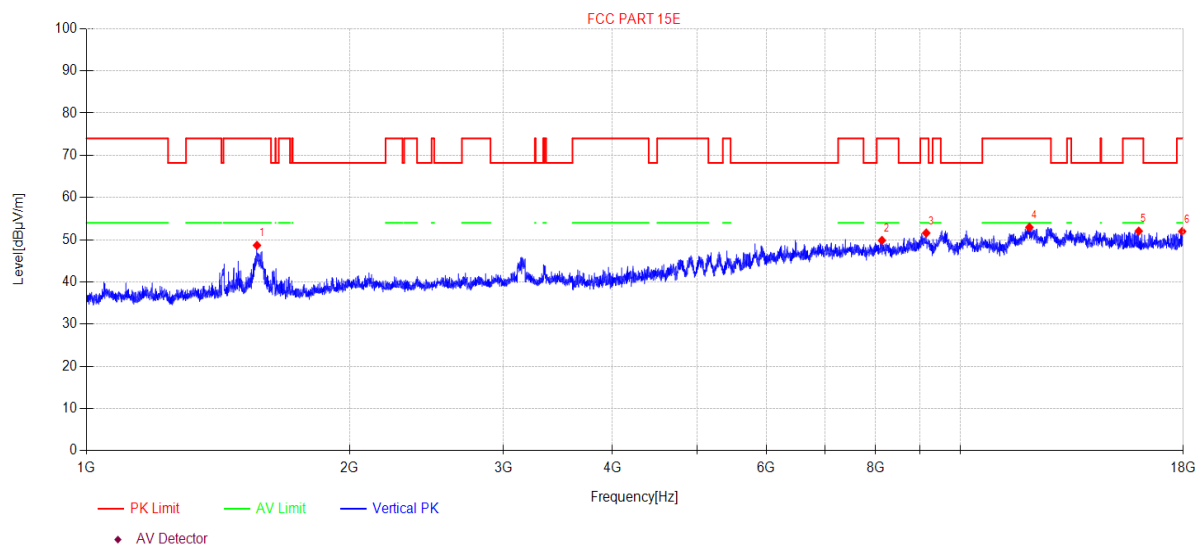
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-06-05 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5GWIFI\98
Memo: 11AC80MIMO 5690

Test Graph



Suspected Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1567.38	57.51	4.80	25.40	-39.05	48.66	74.00	25.34	PK	Vertical
2	8135.01	44.79	8.83	37.00	-40.78	49.84	74.00	24.16	PK	Vertical
3	9142.52	43.78	9.09	38.29	-39.57	51.59	74.00	22.41	PK	Vertical
4	11999.84	42.63	10.32	38.90	-38.90	52.95	74.00	21.05	PK	Vertical
5	16007.13	38.51	16.04	37.89	-40.40	52.04	74.00	21.96	PK	Vertical
6	17948.05	38.35	12.80	41.49	-40.68	51.96	74.00	22.04	PK	Vertical

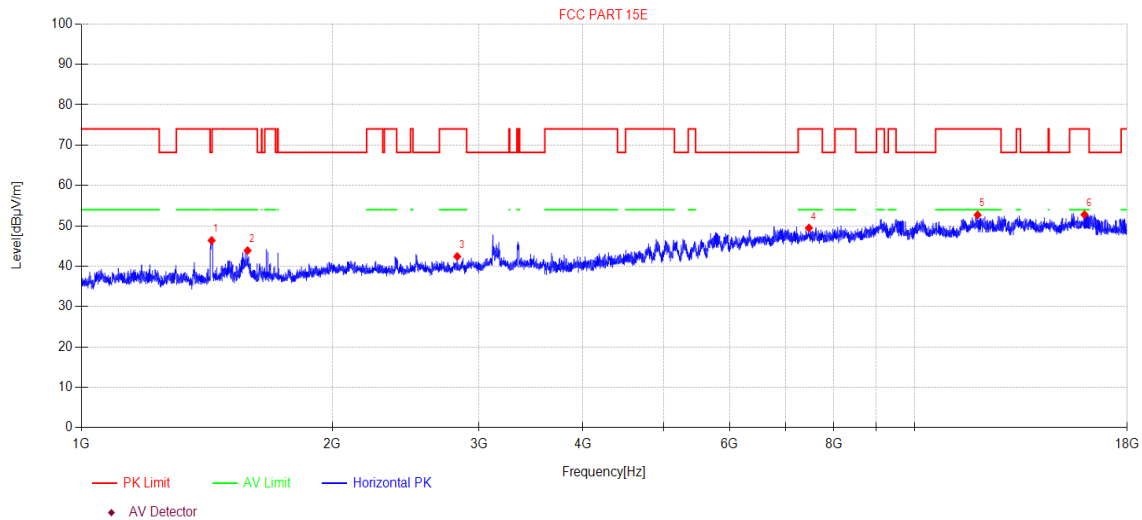
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-06-05 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5.8GWiFi\41
Memo: 11AC80MIMO 5775

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1433.06	55.26	4.36	25.60	-38.85	46.37	68.20	21.83	PK	Horizontal
2	1582.86	52.70	4.85	25.40	-39.07	43.88	74.00	30.12	PK	Horizontal
3	2825.53	48.92	5.50	28.60	-40.61	42.41	74.00	31.59	PK	Horizontal
4	7468.02	45.11	8.89	36.46	-41.00	49.46	74.00	24.54	PK	Horizontal
5	11903.12	42.72	10.24	38.80	-39.06	52.70	74.00	21.30	PK	Horizontal
6	15993.26	39.25	16.04	37.91	-40.40	52.80	74.00	21.20	PK	Horizontal

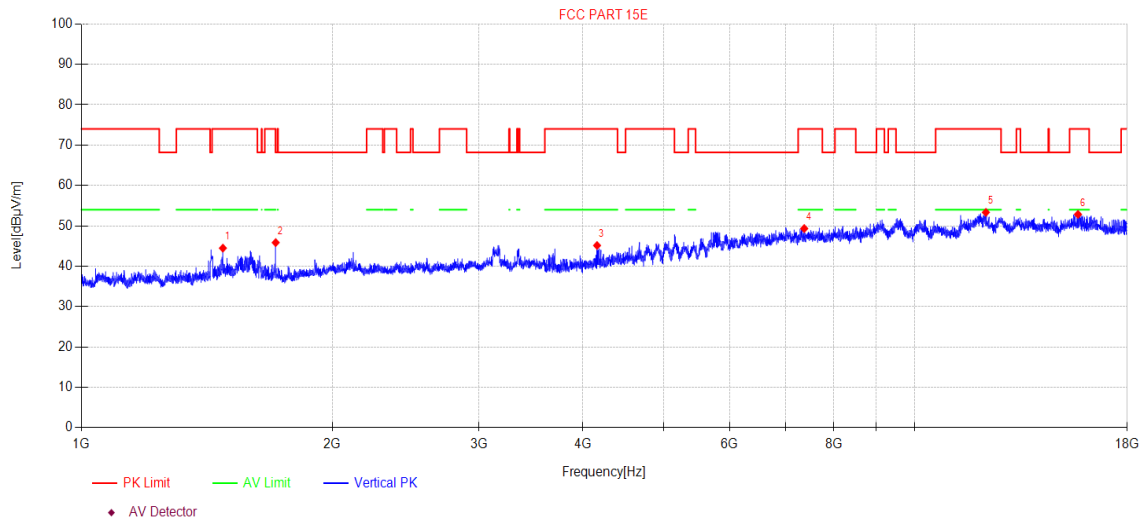
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-06-05 **Tested By:** Bairong
EUT: LCD Smart Projector **Model Number:** XMM2101
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.2°C;Humi:56.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23042304-2E XMM2101\FCC ABOVE 1G 5.8GWIFI\42
Memo: 11AC80MIMO 5775

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1478.50	53.35	4.51	25.54	-38.92	44.48	74.00	29.52	PK	Vertical
2	1710.83	54.44	5.28	25.40	-39.27	45.85	68.20	22.35	PK	Vertical
3	4158.27	49.07	6.39	31.02	-41.35	45.13	74.00	28.87	PK	Vertical
4	7371.53	44.93	8.90	36.50	-41.00	49.33	74.00	24.67	PK	Vertical
5	12178.02	42.99	10.33	39.10	-39.08	53.34	74.00	20.66	PK	Vertical
6	15709.24	40.15	14.60	38.29	-40.20	52.84	74.00	21.16	PK	Vertical

Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.