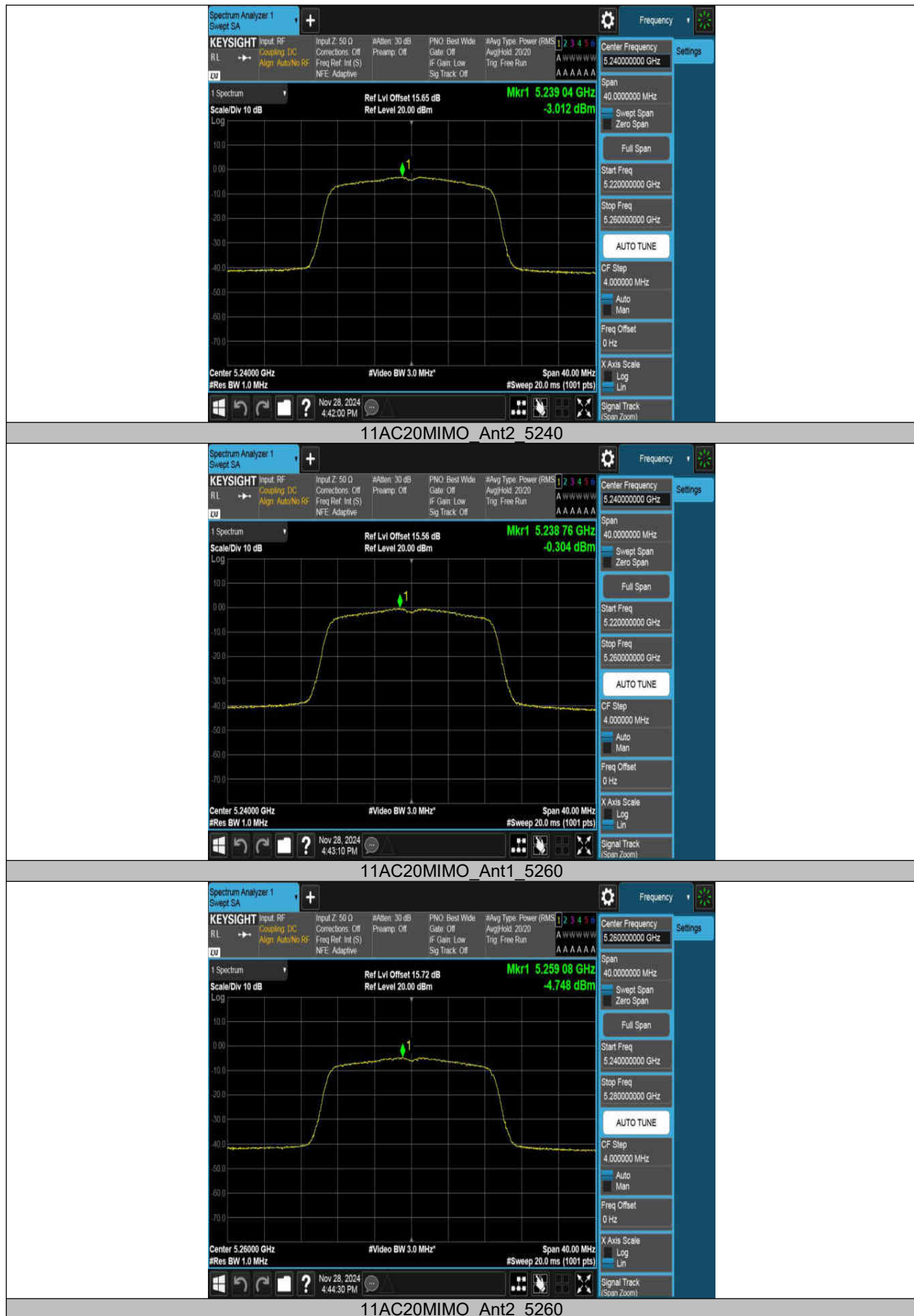
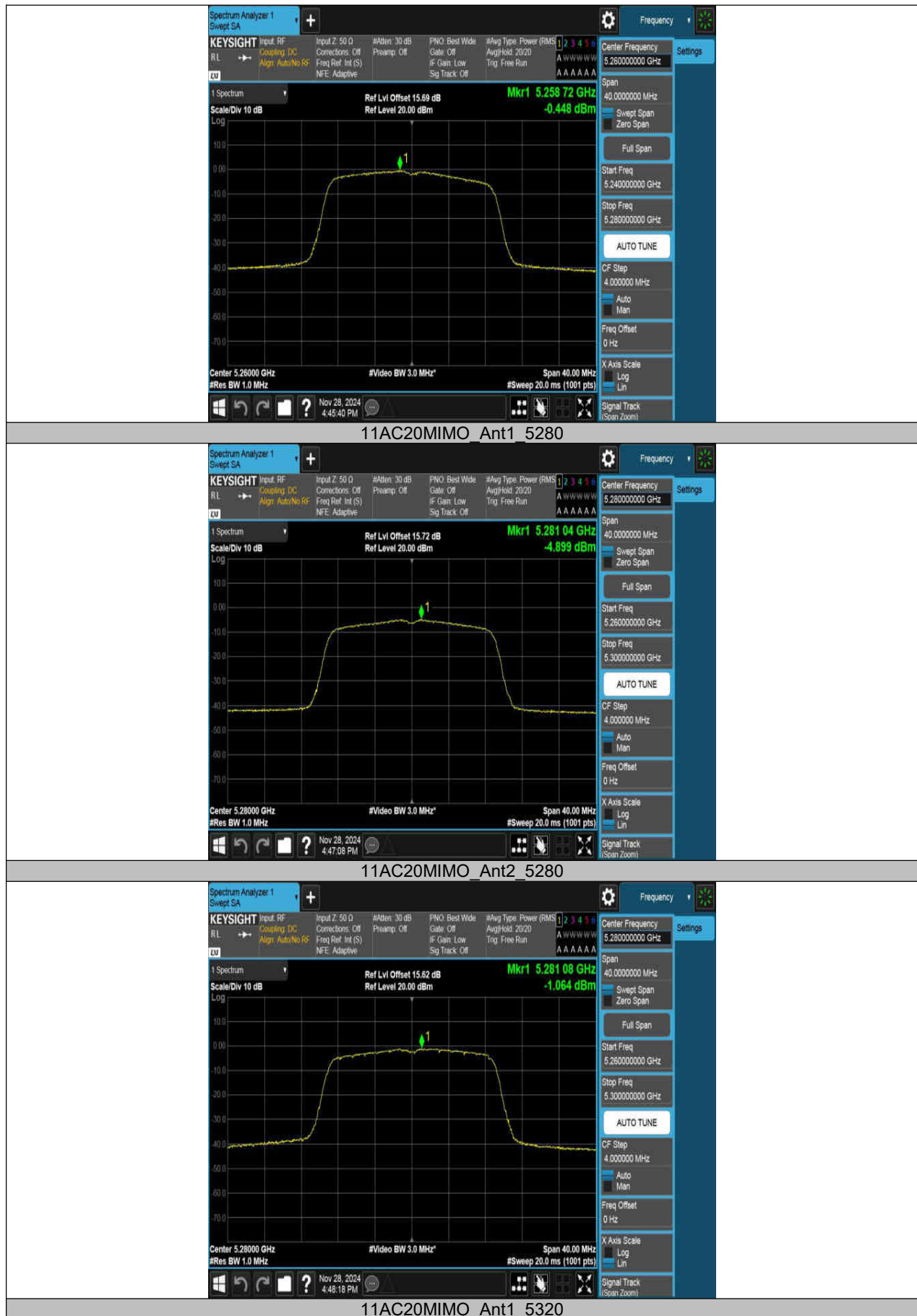
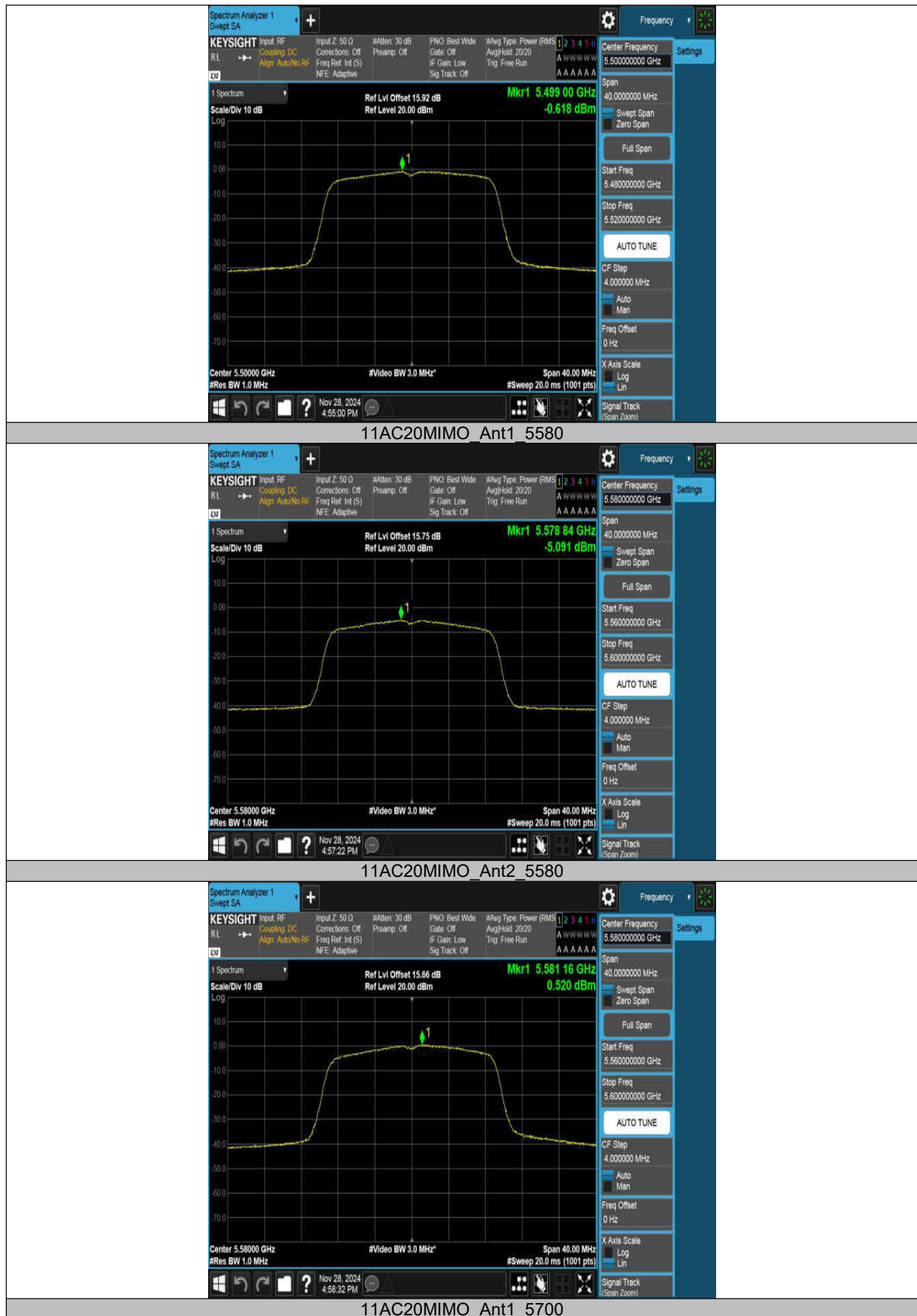
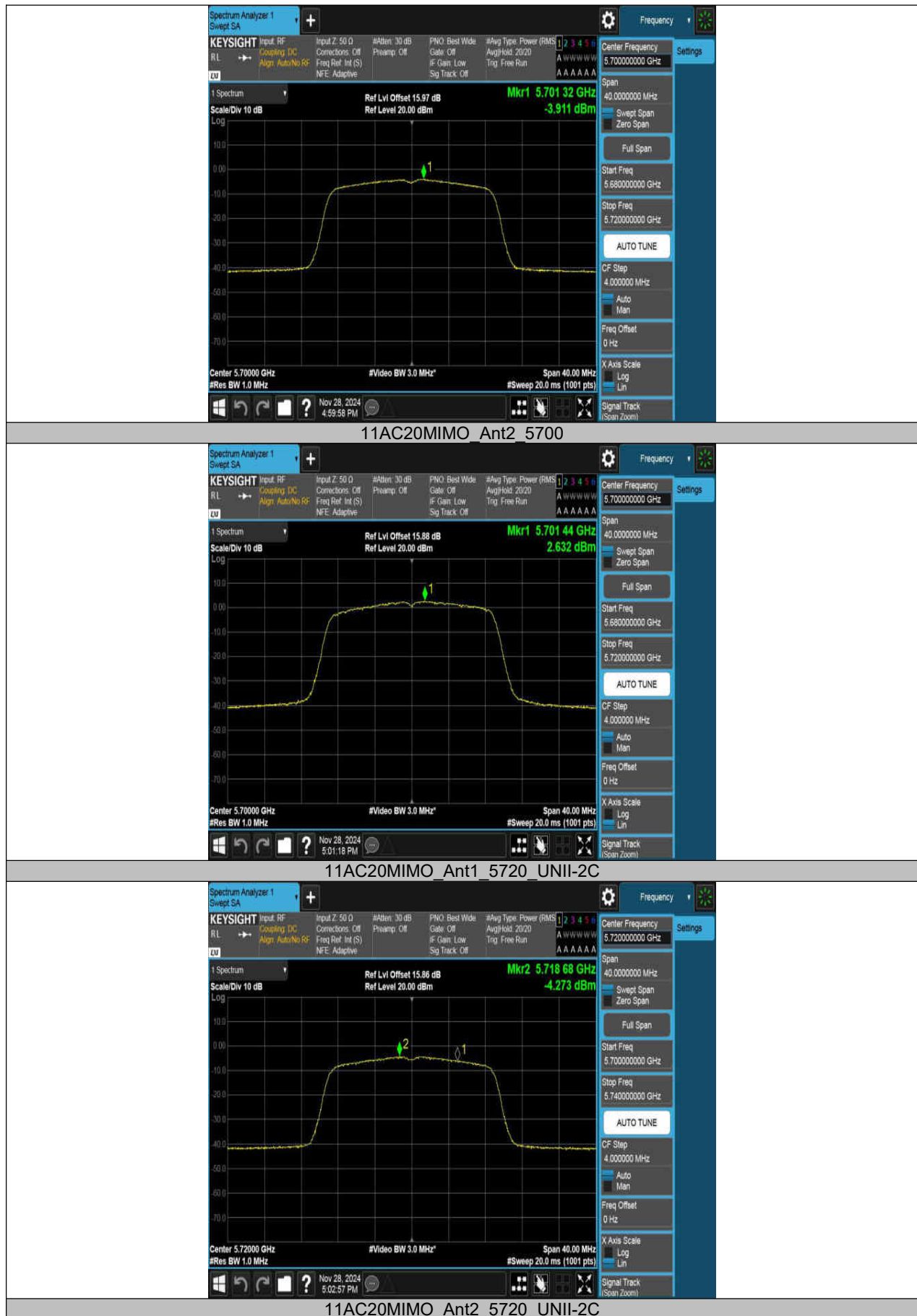






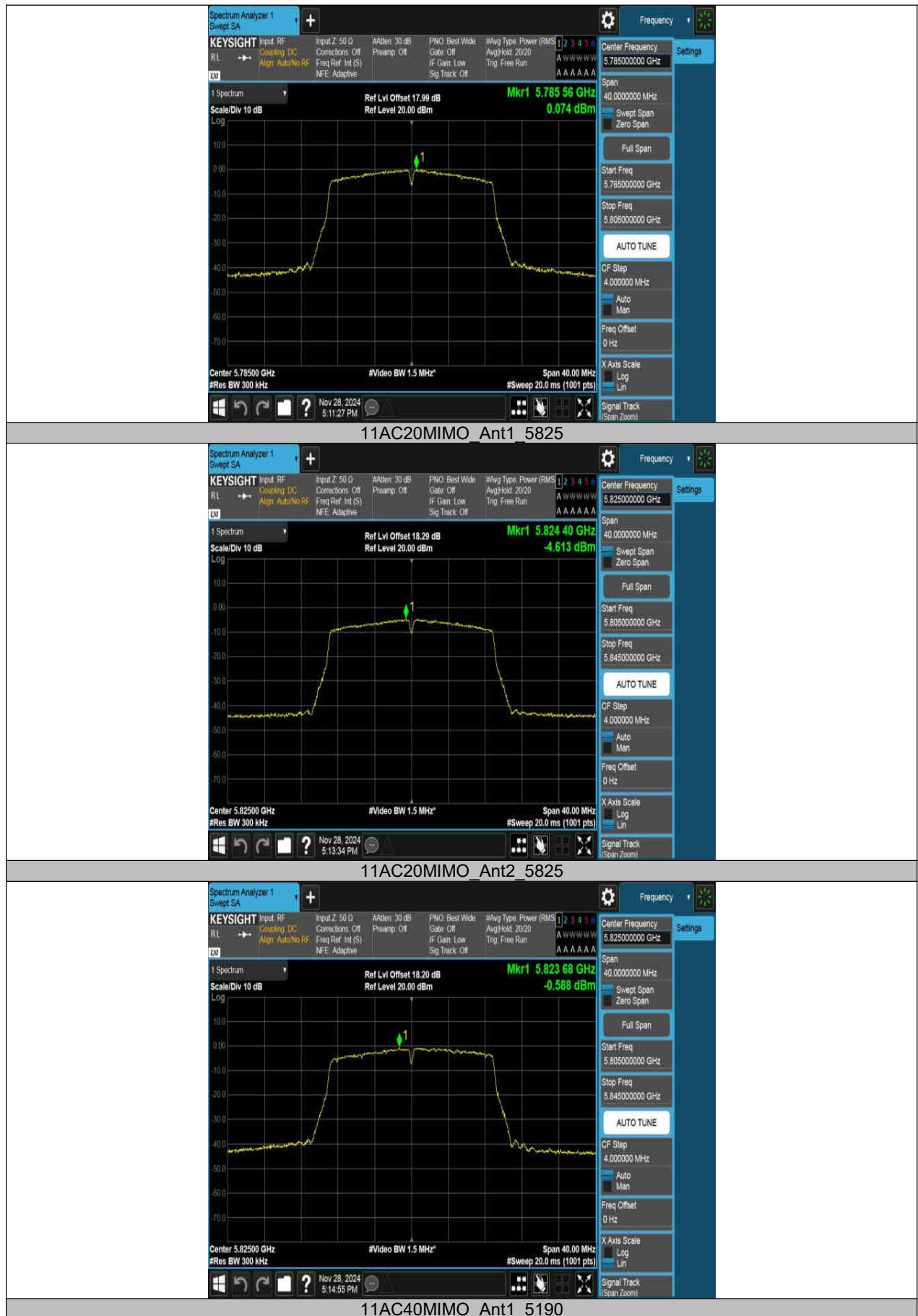


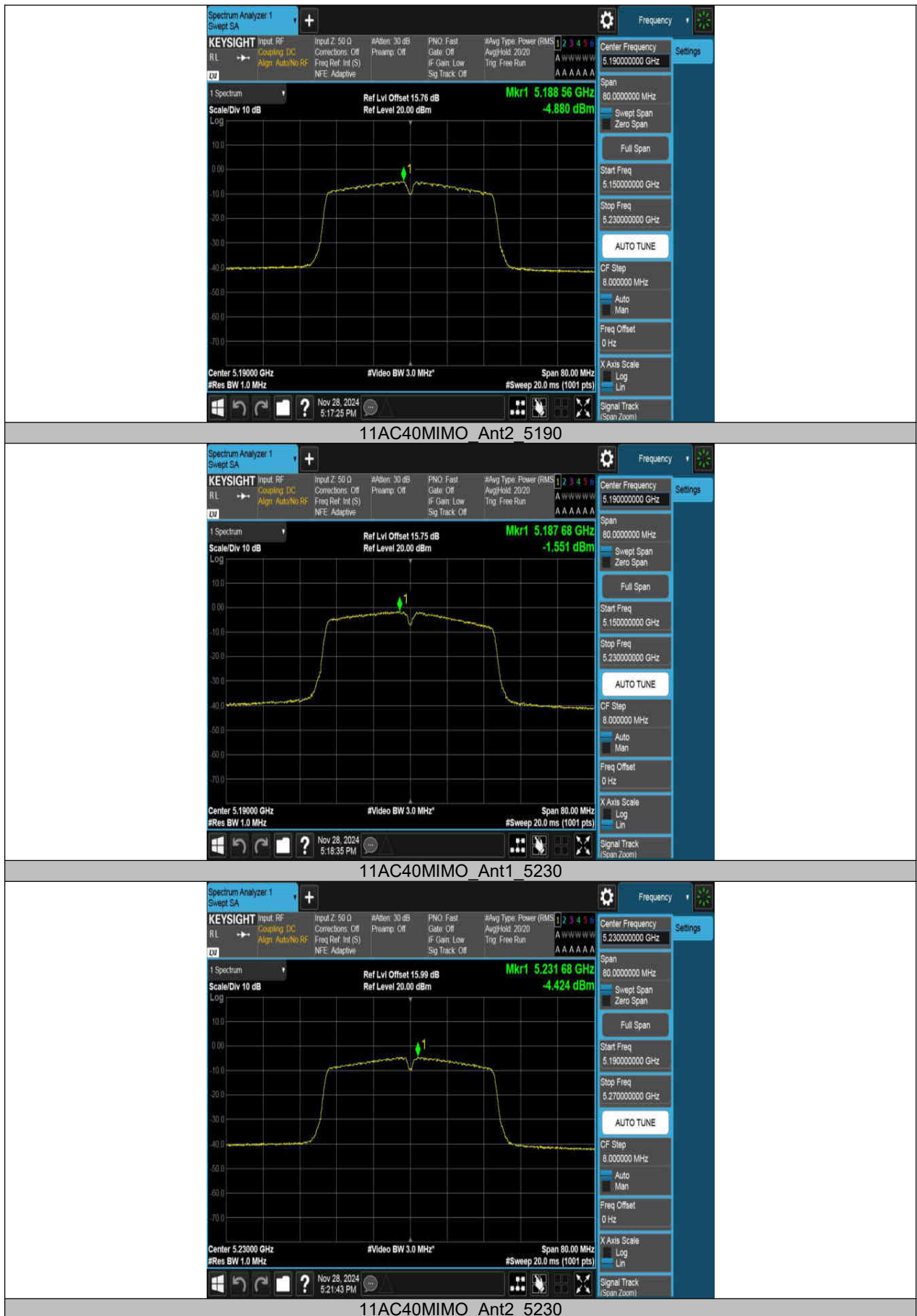


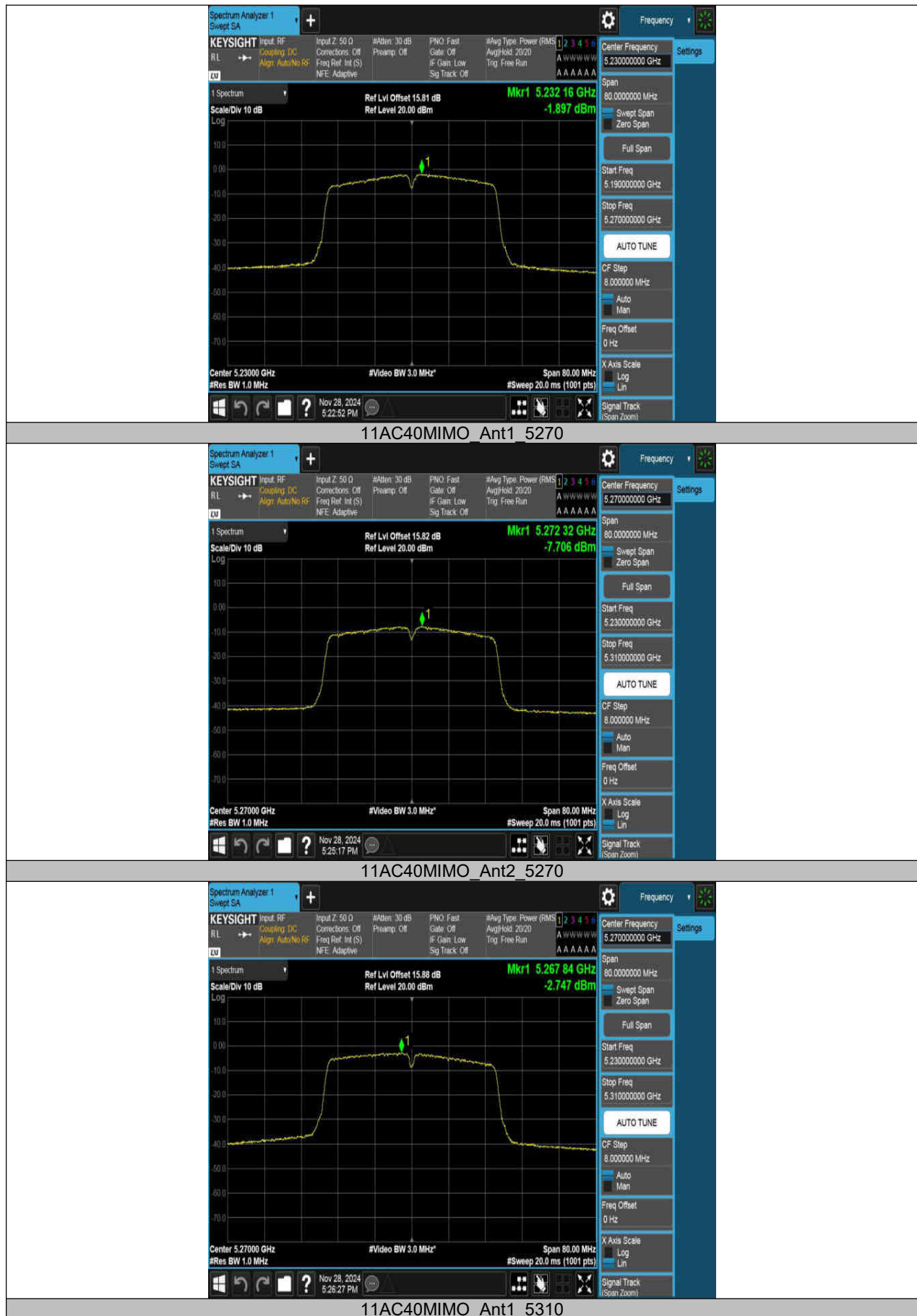


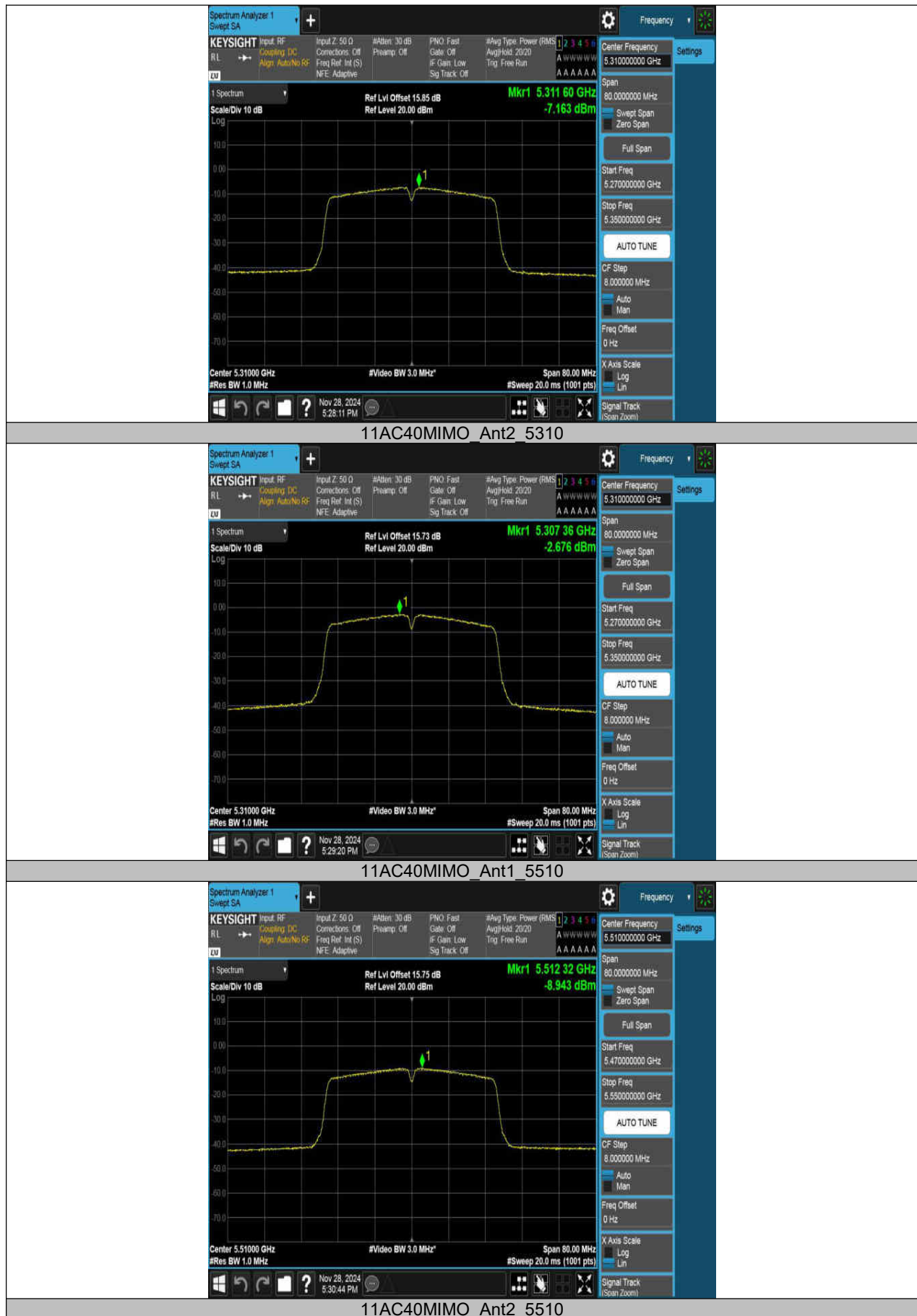










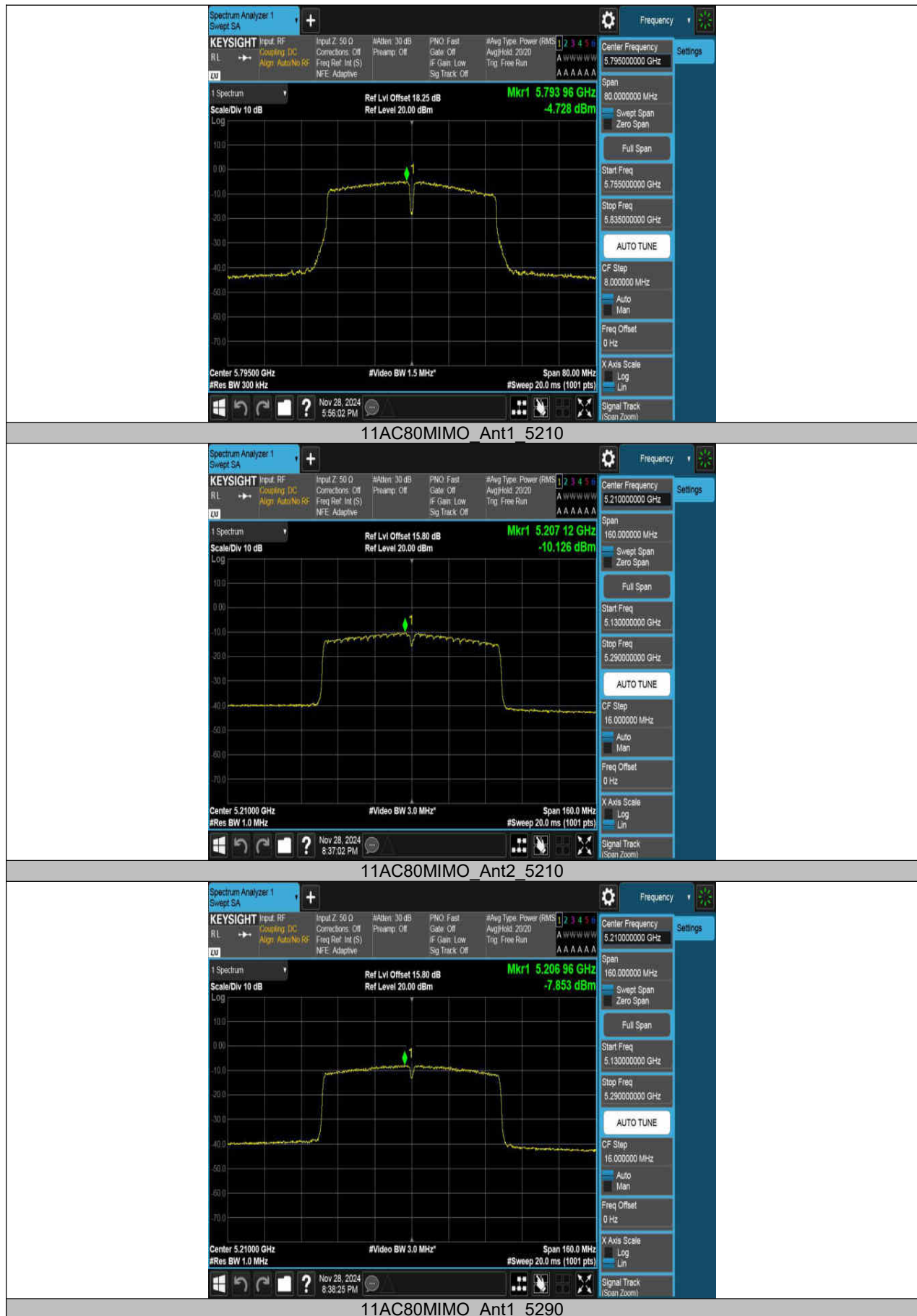




















12. Frequency Stability Measurement

12.1. Block Diagram of Test Setup

Same as section 8.1

12.2. 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.

12.3. 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.

12.4. Test Result

Voltage								
Test Mode	Ant.	Freq. (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20 MIMO	Ant1	5180	NV	NT	-3000.00	-0.579151	20	PASS
			LV	NT	-3000.00	-0.579151	20	PASS
			HV	NT	-3000.00	-0.579151	20	PASS
	Ant2	5180	NV	NT	-3000.00	-0.579151	20	PASS
			LV	NT	-3000.00	-0.579151	20	PASS
			HV	NT	-3000.00	-0.579151	20	PASS
	Ant1	5200	NV	NT	-4000.00	-0.769231	20	PASS
			LV	NT	-3000.00	-0.576923	20	PASS
			HV	NT	-3000.00	-0.576923	20	PASS
	Ant2	5200	NV	NT	-3000.00	-0.576923	20	PASS
			LV	NT	-3000.00	-0.576923	20	PASS
			HV	NT	-3000.00	-0.576923	20	PASS
	Ant1	5240	NV	NT	-4000.00	-0.763359	20	PASS
			LV	NT	-3000.00	-0.572519	20	PASS
			HV	NT	-3000.00	-0.572519	20	PASS
	Ant2	5240	NV	NT	-3000.00	-0.572519	20	PASS
			LV	NT	-3000.00	-0.572519	20	PASS
			HV	NT	-3000.00	-0.572519	20	PASS
	Ant1	5260	NV	NT	-4000.00	-0.760456	20	PASS
			LV	NT	-3000.00	-0.570342	20	PASS
			HV	NT	-3000.00	-0.570342	20	PASS
	Ant2	5260	NV	NT	-3000.00	-0.570342	20	PASS
			LV	NT	-3000.00	-0.570342	20	PASS
			HV	NT	-3000.00	-0.570342	20	PASS
	Ant1	5280	NV	NT	-4000.00	-0.757576	20	PASS
			LV	NT	-3000.00	-0.568182	20	PASS
			HV	NT	-4000.00	-0.757576	20	PASS
	Ant2	5280	NV	NT	-3000.00	-0.568182	20	PASS
			LV	NT	-3000.00	-0.568182	20	PASS
			HV	NT	-3000.00	-0.568182	20	PASS
	Ant1	5320	NV	NT	-4000.00	-0.751880	20	PASS
			LV	NT	-3000.00	-0.563910	20	PASS

	Ant2	5320	HV	NT	-3000.00	-0.563910	20	PASS
			NV	NT	-3000.00	-0.563910	20	PASS
			LV	NT	-3000.00	-0.563910	20	PASS
	Ant1	5500	HV	NT	-3000.00	-0.563910	20	PASS
			NV	NT	-4000.00	-0.727273	20	PASS
			LV	NT	-3000.00	-0.545455	20	PASS
	Ant2	5500	HV	NT	-3000.00	-0.545455	20	PASS
			NV	NT	-3000.00	-0.545455	20	PASS
			LV	NT	-3000.00	-0.545455	20	PASS
	Ant1	5580	HV	NT	-4000.00	-0.727273	20	PASS
			NV	NT	-4000.00	-0.716846	20	PASS
			LV	NT	-3000.00	-0.537634	20	PASS
	Ant2	5580	HV	NT	-3000.00	-0.537634	20	PASS
			NV	NT	-5000.00	-0.896057	20	PASS
			LV	NT	-6000.00	-1.075269	20	PASS
	Ant1	5700	HV	NT	-5000.00	-0.896057	20	PASS
			NV	NT	-5000.00	-0.877193	20	PASS
			LV	NT	-5000.00	-0.877193	20	PASS
	Ant2	5700	HV	NT	-5000.00	-0.877193	20	PASS
			NV	NT	-6000.00	-1.052632	20	PASS
			LV	NT	-6000.00	-1.052632	20	PASS
	Ant1	5720	HV	NT	-5000.00	-0.877193	20	PASS
			NV	NT	-5000.00	-0.874126	20	PASS
			LV	NT	-5000.00	-0.874126	20	PASS
	Ant2	5720	HV	NT	-5000.00	-0.874126	20	PASS
			NV	NT	-4000.00	-0.699301	20	PASS
			LV	NT	-5000.00	-0.874126	20	PASS
	Ant1	5745	HV	NT	-6000.00	-1.048951	20	PASS
			NV	NT	-5000.00	-0.870322	20	PASS
			LV	NT	-5000.00	-0.870322	20	PASS
	Ant2	5745	HV	NT	-5000.00	-0.870322	20	PASS
			NV	NT	-6000.00	-1.044386	20	PASS
			LV	NT	-5000.00	-0.870322	20	PASS
	Ant1	5785	HV	NT	-5000.00	-0.870322	20	PASS
			NV	NT	-5000.00	-0.864304	20	PASS
			LV	NT	-5000.00	-0.864304	20	PASS
	Ant2	5785	HV	NT	-5000.00	-0.864304	20	PASS
			NV	NT	-5000.00	-0.864304	20	PASS
			LV	NT	-5000.00	-0.864304	20	PASS
	Ant1	5825	HV	NT	-6000.00	-1.037165	20	PASS
			NV	NT	-5000.00	-0.858369	20	PASS
			LV	NT	-5000.00	-0.858369	20	PASS
	Ant2	5825	HV	NT	-5000.00	-0.858369	20	PASS
			NV	NT	-5000.00	-0.858369	20	PASS
			LV	NT	-5000.00	-0.858369	20	PASS
11AC40 MIMO	Ant1	5190	HV	NT	-5000.00	-0.858369	20	PASS
			NV	NT	-5000.00	-0.963391	20	PASS
			LV	NT	-5000.00	-0.963391	20	PASS
	Ant2	5190	HV	NT	-5000.00	-0.963391	20	PASS
			NV	NT	-5000.00	-0.963391	20	PASS
			LV	NT	-5000.00	-0.963391	20	PASS
	Ant1	5230	HV	NT	-5000.00	-0.963391	20	PASS
			NV	NT	-5000.00	-0.956023	20	PASS
			LV	NT	-5000.00	-0.956023	20	PASS
	Ant2	5230	HV	NT	-5000.00	-0.956023	20	PASS
			NV	NT	-5000.00	-0.956023	20	PASS
			LV	NT	-5000.00	-0.956023	20	PASS
	Ant1	5270	HV	NT	-5000.00	-0.956023	20	PASS
			NV	NT	-5000.00	-0.948767	20	PASS
			HV	NT	-5000.00	-0.948767	20	PASS
			LV	NT	-5000.00	-0.948767	20	PASS

	Ant2	5270	HV	NT	-5000.00	-0.948767	20	PASS
			NV	NT	-5000.00	-0.948767	20	PASS
			LV	NT	-5000.00	-0.948767	20	PASS
	Ant1	5310	HV	NT	-5000.00	-0.948767	20	PASS
			NV	NT	-5000.00	-0.941620	20	PASS
			LV	NT	-5000.00	-0.941620	20	PASS
	Ant2	5310	HV	NT	-5000.00	-0.941620	20	PASS
			NV	NT	-5000.00	-0.941620	20	PASS
			LV	NT	-5000.00	-0.941620	20	PASS
	Ant1	5510	HV	NT	-4000.00	-0.753296	20	PASS
			NV	NT	-5000.00	-0.907441	20	PASS
			LV	NT	-5000.00	-0.907441	20	PASS
	Ant2	5510	HV	NT	-5000.00	-0.907441	20	PASS
			NV	NT	-4000.00	-0.725953	20	PASS
			LV	NT	-5000.00	-0.907441	20	PASS
	Ant1	5550	HV	NT	-5000.00	-0.907441	20	PASS
			NV	NT	-5000.00	-0.900901	20	PASS
			LV	NT	-5000.00	-0.900901	20	PASS
	Ant2	5550	HV	NT	-5000.00	-0.900901	20	PASS
			NV	NT	-5000.00	-0.900901	20	PASS
			LV	NT	-5000.00	-0.900901	20	PASS
	Ant1	5670	HV	NT	-6000.00	-1.081081	20	PASS
			NV	NT	-5000.00	-0.881834	20	PASS
			LV	NT	-5000.00	-0.881834	20	PASS
	Ant2	5670	HV	NT	-5000.00	-0.881834	20	PASS
			NV	NT	-5000.00	-0.881834	20	PASS
			LV	NT	-5000.00	-0.881834	20	PASS
	Ant1	5710	HV	NT	-5000.00	-0.881834	20	PASS
			NV	NT	-5000.00	-0.875657	20	PASS
			LV	NT	-5000.00	-0.875657	20	PASS
	Ant2	5710	HV	NT	-5000.00	-0.875657	20	PASS
			NV	NT	-5000.00	-0.875657	20	PASS
			LV	NT	-4000.00	-0.700525	20	PASS
	Ant1	5755	HV	NT	-6000.00	-1.050788	20	PASS
			NV	NT	-5000.00	-0.868810	20	PASS
			LV	NT	-5000.00	-0.868810	20	PASS
	Ant2	5755	HV	NT	-5000.00	-0.868810	20	PASS
			NV	NT	-5000.00	-0.868810	20	PASS
			LV	NT	-4000.00	-0.695048	20	PASS
	Ant1	5795	HV	NT	-5000.00	-0.868810	20	PASS
			NV	NT	-5000.00	-0.862813	20	PASS
			LV	NT	-5000.00	-0.862813	20	PASS
	Ant2	5795	HV	NT	-5000.00	-0.862813	20	PASS
			NV	NT	-5000.00	-0.862813	20	PASS
			LV	NT	-6000.00	-1.035375	20	PASS
11AC80 MIMO	Ant1	5210	HV	NT	-5000.00	-0.862813	20	PASS
			NV	NT	-5000.00	-0.959693	20	PASS
			LV	NT	-5000.00	-0.959693	20	PASS
	Ant2	5210	HV	NT	-5000.00	-0.959693	20	PASS
			NV	NT	-4000.00	-0.767754	20	PASS
			LV	NT	-5000.00	-0.959693	20	PASS
	Ant1	5290	HV	NT	-5000.00	-0.959693	20	PASS
			NV	NT	-5000.00	-0.945180	20	PASS
			LV	NT	-5000.00	-0.945180	20	PASS
	Ant2	5290	HV	NT	-5000.00	-0.945180	20	PASS
			NV	NT	-4000.00	-0.756144	20	PASS
			LV	NT	-5000.00	-0.945180	20	PASS
	Ant1	5530	HV	NT	-4000.00	-0.756144	20	PASS
			NV	NT	-5000.00	-0.904159	20	PASS
			LV	NT	-5000.00	-0.904159	20	PASS

	Ant2	5530	HV	NT	-5000.00	-0.904159	20	PASS
			NV	NT	-5000.00	-0.904159	20	PASS
			LV	NT	-5000.00	-0.904159	20	PASS
			HV	NT	-4000.00	-0.723327	20	PASS
	Ant1	5610	NV	NT	-5000.00	-0.891266	20	PASS
			LV	NT	-5000.00	-0.891266	20	PASS
			HV	NT	-5000.00	-0.891266	20	PASS
	Ant2	5610	NV	NT	-5000.00	-0.891266	20	PASS
			LV	NT	-5000.00	-0.891266	20	PASS
			HV	NT	-5000.00	-0.891266	20	PASS
	Ant1	5690	NV	NT	-5000.00	-0.878735	20	PASS
			LV	NT	-5000.00	-0.878735	20	PASS
			HV	NT	-5000.00	-0.878735	20	PASS
	Ant2	5690	NV	NT	-4000.00	-0.702988	20	PASS
			LV	NT	-5000.00	-0.878735	20	PASS
			HV	NT	-5000.00	-0.878735	20	PASS
	Ant1	5775	NV	NT	-5000.00	-0.865801	20	PASS
			LV	NT	-5000.00	-0.865801	20	PASS
			HV	NT	-5000.00	-0.865801	20	PASS
	Ant2	5775	NV	NT	-5000.00	-0.865801	20	PASS
			LV	NT	-5000.00	-0.865801	20	PASS
			HV	NT	-5000.00	-0.865801	20	PASS

Temperature								
Test Mode	Antenna	Frequency (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20 MIMO	Ant1	5180	NV	-30	-3000.00	-0.579151	20	PASS
			NV	-20	-3000.00	-0.579151	20	PASS
			NV	-10	-3000.00	-0.579151	20	PASS
			NV	0	-3000.00	-0.579151	20	PASS
			NV	10	-3000.00	-0.579151	20	PASS
			NV	20	-3000.00	-0.579151	20	PASS
			NV	30	-3000.00	-0.579151	20	PASS
			NV	40	-3000.00	-0.579151	20	PASS
	Ant2	5180	NV	50	-3000.00	-0.579151	20	PASS
			NV	-30	-3000.00	-0.579151	20	PASS
			NV	-20	-3000.00	-0.579151	20	PASS
			NV	-10	-3000.00	-0.579151	20	PASS
			NV	0	-3000.00	-0.579151	20	PASS
			NV	10	-3000.00	-0.579151	20	PASS
			NV	20	-3000.00	-0.579151	20	PASS
			NV	30	-3000.00	-0.579151	20	PASS
	Ant1	5200	NV	40	-3000.00	-0.579151	20	PASS
			NV	50	-3000.00	-0.579151	20	PASS
			NV	-30	-3000.00	-0.576923	20	PASS
			NV	-20	-3000.00	-0.576923	20	PASS
			NV	-10	-3000.00	-0.576923	20	PASS
			NV	0	-3000.00	-0.576923	20	PASS
			NV	10	-3000.00	-0.576923	20	PASS
			NV	20	-3000.00	-0.576923	20	PASS
	Ant2	5200	NV	30	-3000.00	-0.576923	20	PASS
			NV	40	-3000.00	-0.576923	20	PASS
			NV	50	-3000.00	-0.576923	20	PASS
			NV	-30	-3000.00	-0.576923	20	PASS
			NV	-20	-3000.00	-0.576923	20	PASS
			NV	-10	-3000.00	-0.576923	20	PASS
			NV	0	-3000.00	-0.576923	20	PASS
			NV	10	-3000.00	-0.576923	20	PASS

			NV	20	-3000.00	-0.576923	20	PASS
			NV	30	-3000.00	-0.576923	20	PASS
			NV	40	-3000.00	-0.576923	20	PASS
			NV	50	-3000.00	-0.576923	20	PASS
	Ant1	5240	NV	-30	-3000.00	-0.572519	20	PASS
			NV	-20	-3000.00	-0.572519	20	PASS
			NV	-10	-3000.00	-0.572519	20	PASS
			NV	0	-3000.00	-0.572519	20	PASS
			NV	10	-3000.00	-0.572519	20	PASS
			NV	20	-3000.00	-0.572519	20	PASS
			NV	30	-3000.00	-0.572519	20	PASS
			NV	40	-3000.00	-0.572519	20	PASS
			NV	50	-3000.00	-0.572519	20	PASS
	Ant2	5240	NV	-30	-3000.00	-0.572519	20	PASS
			NV	-20	-3000.00	-0.572519	20	PASS
			NV	-10	-3000.00	-0.572519	20	PASS
			NV	0	-3000.00	-0.572519	20	PASS
			NV	10	-3000.00	-0.572519	20	PASS
			NV	20	-3000.00	-0.572519	20	PASS
			NV	30	-3000.00	-0.572519	20	PASS
			NV	40	-3000.00	-0.572519	20	PASS
	Ant1	5260	NV	-30	-3000.00	-0.570342	20	PASS
			NV	-20	-3000.00	-0.570342	20	PASS
			NV	-10	-3000.00	-0.570342	20	PASS
			NV	0	-3000.00	-0.570342	20	PASS
			NV	10	-3000.00	-0.570342	20	PASS
			NV	20	-3000.00	-0.570342	20	PASS
			NV	30	-3000.00	-0.570342	20	PASS
			NV	40	-3000.00	-0.570342	20	PASS
	Ant2	5260	NV	-30	-3000.00	-0.570342	20	PASS
			NV	-20	-3000.00	-0.570342	20	PASS
			NV	-10	-3000.00	-0.570342	20	PASS
			NV	0	-2000.00	-0.380228	20	PASS
			NV	10	-3000.00	-0.570342	20	PASS
			NV	20	-3000.00	-0.570342	20	PASS
			NV	30	-3000.00	-0.570342	20	PASS
			NV	40	-3000.00	-0.570342	20	PASS
	Ant1	5280	NV	-30	-3000.00	-0.568182	20	PASS
			NV	-20	-3000.00	-0.568182	20	PASS
			NV	-10	-3000.00	-0.568182	20	PASS
			NV	0	-3000.00	-0.568182	20	PASS
			NV	10	-3000.00	-0.568182	20	PASS
			NV	20	-3000.00	-0.568182	20	PASS
			NV	30	-3000.00	-0.568182	20	PASS
			NV	40	-3000.00	-0.568182	20	PASS
	Ant2	5280	NV	-30	-4000.00	-0.757576	20	PASS
			NV	-20	-2000.00	-0.378788	20	PASS
			NV	-10	-3000.00	-0.568182	20	PASS
			NV	0	-3000.00	-0.568182	20	PASS
			NV	10	-2000.00	-0.378788	20	PASS
			NV	20	-2000.00	-0.378788	20	PASS
			NV	30	-3000.00	-0.568182	20	PASS
			NV	40	-3000.00	-0.568182	20	PASS
	Ant1	5320	NV	-30	-3000.00	-0.563910	20	PASS
			NV	-20	-3000.00	-0.563910	20	PASS

			NV	-10	-3000.00	-0.563910	20	PASS
			NV	0	-3000.00	-0.563910	20	PASS
			NV	10	-3000.00	-0.563910	20	PASS
			NV	20	-3000.00	-0.563910	20	PASS
			NV	30	-3000.00	-0.563910	20	PASS
			NV	40	-3000.00	-0.563910	20	PASS
			NV	50	-3000.00	-0.563910	20	PASS
	Ant2	5320	NV	-30	-3000.00	-0.563910	20	PASS
			NV	-20	-3000.00	-0.563910	20	PASS
			NV	-10	-3000.00	-0.563910	20	PASS
			NV	0	-3000.00	-0.563910	20	PASS
			NV	10	-3000.00	-0.563910	20	PASS
			NV	20	-3000.00	-0.563910	20	PASS
			NV	30	-3000.00	-0.563910	20	PASS
	Ant1	5500	NV	40	-3000.00	-0.563910	20	PASS
			NV	50	-3000.00	-0.563910	20	PASS
			NV	-30	-3000.00	-0.545455	20	PASS
			NV	-20	-3000.00	-0.545455	20	PASS
			NV	-10	-3000.00	-0.545455	20	PASS
			NV	0	-3000.00	-0.545455	20	PASS
			NV	10	-3000.00	-0.545455	20	PASS
	Ant2	5500	NV	20	-3000.00	-0.545455	20	PASS
			NV	30	-3000.00	-0.545455	20	PASS
			NV	40	-3000.00	-0.545455	20	PASS
			NV	50	-3000.00	-0.545455	20	PASS
			NV	-30	-3000.00	-0.545455	20	PASS
			NV	-20	-3000.00	-0.545455	20	PASS
			NV	-10	-2000.00	-0.363636	20	PASS
	Ant1	5580	NV	0	-3000.00	-0.545455	20	PASS
			NV	10	-4000.00	-0.727273	20	PASS
			NV	20	-3000.00	-0.545455	20	PASS
			NV	30	-3000.00	-0.545455	20	PASS
			NV	40	-4000.00	-0.727273	20	PASS
			NV	50	-2000.00	-0.363636	20	PASS
			NV	-30	-3000.00	-0.537634	20	PASS
	Ant2	5580	NV	-20	-3000.00	-0.537634	20	PASS
			NV	-10	-3000.00	-0.537634	20	PASS
			NV	0	-3000.00	-0.537634	20	PASS
			NV	10	-3000.00	-0.537634	20	PASS
			NV	20	-3000.00	-0.537634	20	PASS
			NV	30	-3000.00	-0.537634	20	PASS
			NV	40	-3000.00	-0.537634	20	PASS
	Ant1	5700	NV	50	-3000.00	-0.537634	20	PASS
			NV	-30	-5000.00	-0.896057	20	PASS
			NV	-20	-6000.00	-1.075269	20	PASS
			NV	-10	-4000.00	-0.716846	20	PASS
			NV	0	-5000.00	-0.896057	20	PASS
			NV	10	-5000.00	-0.896057	20	PASS
			NV	20	-4000.00	-0.716846	20	PASS
	Ant2	5580	NV	30	-6000.00	-1.075269	20	PASS
			NV	40	-5000.00	-0.896057	20	PASS
			NV	50	-5000.00	-0.896057	20	PASS
			NV	-30	-5000.00	-0.877193	20	PASS
			NV	-20	-5000.00	-0.877193	20	PASS
			NV	-10	-5000.00	-0.877193	20	PASS
			NV	0	-5000.00	-0.877193	20	PASS
	Ant1	5700	NV	10	-5000.00	-0.877193	20	PASS
			NV	20	-5000.00	-0.877193	20	PASS
			NV	30	-5000.00	-0.877193	20	PASS
			NV	40	-5000.00	-0.877193	20	PASS
			NV	50	-5000.00	-0.877193	20	PASS
			NV	-30	-5000.00	-0.877193	20	PASS
			NV	-20	-5000.00	-0.877193	20	PASS

	Ant2	5700	NV	50	-5000.00	-0.877193	20	PASS
			NV	-30	-6000.00	-1.052632	20	PASS
			NV	-20	-5000.00	-0.877193	20	PASS
			NV	-10	-5000.00	-0.877193	20	PASS
			NV	0	-5000.00	-0.877193	20	PASS
			NV	10	-6000.00	-1.052632	20	PASS
			NV	20	-5000.00	-0.877193	20	PASS
			NV	30	-6000.00	-1.052632	20	PASS
			NV	40	-5000.00	-0.877193	20	PASS
	Ant1	5720	NV	50	-5000.00	-0.877193	20	PASS
			NV	-30	-5000.00	-0.874126	20	PASS
			NV	-20	-5000.00	-0.874126	20	PASS
			NV	-10	-5000.00	-0.874126	20	PASS
			NV	0	-5000.00	-0.874126	20	PASS
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			NV	30	-5000.00	-0.874126	20	PASS
			NV	40	-5000.00	-0.874126	20	PASS
	Ant2	5720	NV	50	-5000.00	-0.874126	20	PASS
			NV	-30	-5000.00	-0.874126	20	PASS
			NV	-20	-5000.00	-0.874126	20	PASS
			NV	-10	-5000.00	-0.874126	20	PASS
			NV	0	-5000.00	-0.874126	20	PASS
			NV	10	-5000.00	-0.874126	20	PASS
			NV	20	-6000.00	-1.048951	20	PASS
			NV	30	-4000.00	-0.699301	20	PASS
			NV	40	-5000.00	-0.874126	20	PASS
	Ant1	5745	NV	50	-5000.00	-0.874126	20	PASS
			NV	-30	-5000.00	-0.870322	20	PASS
			NV	-20	-5000.00	-0.870322	20	PASS
			NV	-10	-5000.00	-0.870322	20	PASS
			NV	0	-5000.00	-0.870322	20	PASS
			NV	10	-5000.00	-0.870322	20	PASS
			NV	20	-5000.00	-0.870322	20	PASS
			NV	30	-5000.00	-0.870322	20	PASS
			NV	40	-5000.00	-0.870322	20	PASS
	Ant2	5745	NV	50	-5000.00	-0.870322	20	PASS
			NV	-30	-5000.00	-0.870322	20	PASS
			NV	-20	-5000.00	-0.870322	20	PASS
			NV	-10	-5000.00	-0.870322	20	PASS
			NV	0	-6000.00	-1.044386	20	PASS
			NV	10	-5000.00	-0.870322	20	PASS
			NV	20	-5000.00	-0.870322	20	PASS
			NV	30	-5000.00	-0.870322	20	PASS
			NV	40	-5000.00	-0.870322	20	PASS
	Ant1	5785	NV	50	-5000.00	-0.870322	20	PASS
			NV	-30	-5000.00	-0.864304	20	PASS
			NV	-20	-5000.00	-0.864304	20	PASS
			NV	-10	-5000.00	-0.864304	20	PASS
			NV	0	-5000.00	-0.864304	20	PASS
			NV	10	-5000.00	-0.864304	20	PASS
			NV	20	-5000.00	-0.864304	20	PASS
			NV	30	-5000.00	-0.864304	20	PASS
			NV	40	-5000.00	-0.864304	20	PASS
	Ant2	5785	NV	50	-5000.00	-0.864304	20	PASS
			NV	-30	-5000.00	-0.864304	20	PASS
			NV	-20	-6000.00	-1.037165	20	PASS
			NV	-10	-5000.00	-0.864304	20	PASS
			NV	0	-6000.00	-1.037165	20	PASS
			NV	10	-5000.00	-0.864304	20	PASS

			NV	20	-5000.00	-0.864304	20	PASS
			NV	30	-5000.00	-0.864304	20	PASS
			NV	40	-4000.00	-0.691443	20	PASS
			NV	50	-5000.00	-0.864304	20	PASS
	Ant1	5825	NV	-30	-5000.00	-0.858369	20	PASS
			NV	-20	-5000.00	-0.858369	20	PASS
			NV	-10	-5000.00	-0.858369	20	PASS
			NV	0	-5000.00	-0.858369	20	PASS
			NV	10	-5000.00	-0.858369	20	PASS
			NV	20	-5000.00	-0.858369	20	PASS
			NV	30	-5000.00	-0.858369	20	PASS
			NV	40	-5000.00	-0.858369	20	PASS
			NV	50	-5000.00	-0.858369	20	PASS
	Ant2	5825	NV	-30	-5000.00	-0.858369	20	PASS
			NV	-20	-5000.00	-0.858369	20	PASS
			NV	-10	-5000.00	-0.858369	20	PASS
			NV	0	-5000.00	-0.858369	20	PASS
			NV	10	-6000.00	-1.030043	20	PASS
			NV	20	-6000.00	-1.030043	20	PASS
			NV	30	-5000.00	-0.858369	20	PASS
			NV	40	-5000.00	-0.858369	20	PASS
			NV	50	-5000.00	-0.858369	20	PASS
11AC40 MIMO	Ant1	5190	NV	-30	-5000.00	-0.963391	20	PASS
			NV	-20	-5000.00	-0.963391	20	PASS
			NV	-10	-5000.00	-0.963391	20	PASS
			NV	0	-5000.00	-0.963391	20	PASS
			NV	10	-5000.00	-0.963391	20	PASS
			NV	20	-5000.00	-0.963391	20	PASS
			NV	30	-5000.00	-0.963391	20	PASS
			NV	40	-5000.00	-0.963391	20	PASS
	Ant2	5190	NV	50	-5000.00	-0.963391	20	PASS
			NV	-30	-5000.00	-0.963391	20	PASS
			NV	-20	-5000.00	-0.963391	20	PASS
			NV	-10	-4000.00	-0.770713	20	PASS
			NV	0	-5000.00	-0.963391	20	PASS
			NV	10	-5000.00	-0.963391	20	PASS
			NV	20	-5000.00	-0.963391	20	PASS
			NV	30	-4000.00	-0.770713	20	PASS
	Ant1	5230	NV	40	-5000.00	-0.963391	20	PASS
			NV	50	-4000.00	-0.770713	20	PASS
			NV	-30	-5000.00	-0.956023	20	PASS
			NV	-20	-5000.00	-0.956023	20	PASS
			NV	-10	-5000.00	-0.956023	20	PASS
			NV	0	-5000.00	-0.956023	20	PASS
			NV	10	-5000.00	-0.956023	20	PASS
			NV	20	-5000.00	-0.956023	20	PASS
	Ant2	5230	NV	30	-5000.00	-0.956023	20	PASS
			NV	40	-5000.00	-0.956023	20	PASS
			NV	50	-5000.00	-0.956023	20	PASS
			NV	-30	-4000.00	-0.764818	20	PASS
			NV	-20	-4000.00	-0.764818	20	PASS
			NV	-10	-5000.00	-0.956023	20	PASS
			NV	0	-5000.00	-0.956023	20	PASS
			NV	10	-5000.00	-0.956023	20	PASS
	Ant1	5270	NV	20	-5000.00	-0.956023	20	PASS
			NV	30	-5000.00	-0.956023	20	PASS
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			NV	-30	-5000.00	-0.948767	20	PASS
			NV	-20	-5000.00	-0.948767	20	PASS
			NV	-30	-5000.00	-0.948767	20	PASS
			NV	-20	-5000.00	-0.948767	20	PASS

			NV	-10	-5000.00	-0.948767	20	PASS
			NV	0	-5000.00	-0.948767	20	PASS
			NV	10	-5000.00	-0.948767	20	PASS
			NV	20	-4000.00	-0.759013	20	PASS
			NV	30	-5000.00	-0.948767	20	PASS
			NV	40	-5000.00	-0.948767	20	PASS
			NV	50	-5000.00	-0.948767	20	PASS
	Ant2	5270	NV	-30	-5000.00	-0.948767	20	PASS
			NV	-20	-6000.00	-1.138520	20	PASS
			NV	-10	-6000.00	-1.138520	20	PASS
			NV	0	-4000.00	-0.759013	20	PASS
			NV	10	-5000.00	-0.948767	20	PASS
			NV	20	-4000.00	-0.759013	20	PASS
			NV	30	-4000.00	-0.759013	20	PASS
			NV	40	-5000.00	-0.948767	20	PASS
			NV	50	-5000.00	-0.948767	20	PASS
	Ant1	5310	NV	-30	-5000.00	-0.941620	20	PASS
			NV	-20	-5000.00	-0.941620	20	PASS
			NV	-10	-5000.00	-0.941620	20	PASS
			NV	0	-5000.00	-0.941620	20	PASS
			NV	10	-5000.00	-0.941620	20	PASS
			NV	20	-5000.00	-0.941620	20	PASS
			NV	30	-5000.00	-0.941620	20	PASS
			NV	40	-5000.00	-0.941620	20	PASS
			NV	50	-5000.00	-0.941620	20	PASS
	Ant2	5310	NV	-30	-5000.00	-0.941620	20	PASS
			NV	-20	-5000.00	-0.941620	20	PASS
			NV	-10	-5000.00	-0.941620	20	PASS
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			NV	10	-5000.00	-0.941620	20	PASS
			NV	20	-5000.00	-0.941620	20	PASS
			NV	30	-5000.00	-0.941620	20	PASS
			NV	40	-5000.00	-0.941620	20	PASS
			NV	50	-5000.00	-0.941620	20	PASS
	Ant1	5510	NV	-30	-5000.00	-0.907441	20	PASS
			NV	-20	-5000.00	-0.907441	20	PASS
			NV	-10	-5000.00	-0.907441	20	PASS
			NV	0	-5000.00	-0.907441	20	PASS
			NV	10	-5000.00	-0.907441	20	PASS
			NV	20	-5000.00	-0.907441	20	PASS
			NV	30	-5000.00	-0.907441	20	PASS
			NV	40	-5000.00	-0.907441	20	PASS
			NV	50	-5000.00	-0.907441	20	PASS
	Ant2	5510	NV	-30	-5000.00	-0.907441	20	PASS
			NV	-20	-5000.00	-0.907441	20	PASS
			NV	-10	-5000.00	-0.907441	20	PASS
			NV	0	-5000.00	-0.907441	20	PASS
			NV	10	-5000.00	-0.907441	20	PASS
			NV	20	-5000.00	-0.907441	20	PASS
			NV	30	-4000.00	-0.725953	20	PASS
			NV	40	-5000.00	-0.907441	20	PASS
			NV	50	-4000.00	-0.725953	20	PASS
	Ant1	5550	NV	-30	-5000.00	-0.900901	20	PASS
			NV	-20	-5000.00	-0.900901	20	PASS
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			NV	0	-5000.00	-0.900901	20	PASS
			NV	10	-5000.00	-0.900901	20	PASS
			NV	20	-5000.00	-0.900901	20	PASS
			NV	30	-5000.00	-0.900901	20	PASS
			NV	40	-5000.00	-0.900901	20	PASS

	Ant2	5550	NV	50	-5000.00	-0.900901	20	PASS
			NV	-30	-5000.00	-0.900901	20	PASS
			NV	-20	-5000.00	-0.900901	20	PASS
			NV	-10	-5000.00	-0.900901	20	PASS
			NV	0	-4000.00	-0.720721	20	PASS
			NV	10	-4000.00	-0.720721	20	PASS
			NV	20	-6000.00	-1.081081	20	PASS
			NV	30	-5000.00	-0.900901	20	PASS
			NV	40	-5000.00	-0.900901	20	PASS
	Ant1	5670	NV	50	-5000.00	-0.900901	20	PASS
			NV	-30	-5000.00	-0.881834	20	PASS
			NV	-20	-5000.00	-0.881834	20	PASS
			NV	-10	-5000.00	-0.881834	20	PASS
			NV	0	-5000.00	-0.881834	20	PASS
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			NV	20	-5000.00	-0.881834	20	PASS
			NV	30	-5000.00	-0.881834	20	PASS
			NV	40	-5000.00	-0.881834	20	PASS
	Ant2	5670	NV	50	-5000.00	-0.881834	20	PASS
			NV	-30	-5000.00	-0.881834	20	PASS
			NV	-20	-5000.00	-0.881834	20	PASS
			NV	-10	-5000.00	-0.881834	20	PASS
			NV	0	-4000.00	-0.705467	20	PASS
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			NV	30	-4000.00	-0.705467	20	PASS
			NV	40	-6000.00	-1.058201	20	PASS
	Ant1	5710	NV	50	-5000.00	-0.881834	20	PASS
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	Ant1	5755	NV	50	-5000.00	-0.875657	20	PASS
			NV	-30	-5000.00	-0.868810	20	PASS
			NV	-20	-5000.00	-0.868810	20	PASS
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			NV	30	-5000.00	-0.868810	20	PASS
			NV	40	-5000.00	-0.868810	20	PASS
	Ant2	5755	NV	50	-5000.00	-0.868810	20	PASS
			NV	-30	-5000.00	-0.868810	20	PASS
			NV	-20	-6000.00	-1.042572	20	PASS
			NV	-10	-4000.00	-0.695048	20	PASS
			NV	0	-4000.00	-0.695048	20	PASS
	Ant1	5755	NV	10	-5000.00	-0.868810	20	PASS
			NV	-30	-5000.00	-0.868810	20	PASS
			NV	-20	-6000.00	-1.042572	20	PASS
			NV	-10	-4000.00	-0.695048	20	PASS
			NV	0	-4000.00	-0.695048	20	PASS

			NV	20	-5000.00	-0.868810	20	PASS
			NV	30	-5000.00	-0.868810	20	PASS
			NV	40	-5000.00	-0.868810	20	PASS
			NV	50	-6000.00	-1.042572	20	PASS
	Ant1	5795	NV	-30	-5000.00	-0.862813	20	PASS
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			NV	40	-5000.00	-0.862813	20	PASS
			NV	50	-5000.00	-0.862813	20	PASS
	Ant2	5795	NV	-30	-5000.00	-0.862813	20	PASS
			NV	-20	-5000.00	-0.862813	20	PASS
			NV	-10	-5000.00	-0.862813	20	PASS
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			NV	40	-5000.00	-0.862813	20	PASS
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11AC80 MIMO	Ant1	5210	NV	-30	-5000.00	-0.959693	20	PASS
			NV	-20	-5000.00	-0.959693	20	PASS
			NV	-10	-5000.00	-0.959693	20	PASS
			NV	0	-5000.00	-0.959693	20	PASS
			NV	10	-4000.00	-0.767754	20	PASS
			NV	20	-5000.00	-0.959693	20	PASS
			NV	30	-5000.00	-0.959693	20	PASS
			NV	40	-5000.00	-0.959693	20	PASS
	Ant2	5210	NV	50	-5000.00	-0.959693	20	PASS
			NV	-30	-5000.00	-0.959693	20	PASS
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			NV	0	-5000.00	-0.959693	20	PASS
			NV	10	-5000.00	-0.959693	20	PASS
			NV	20	-4000.00	-0.767754	20	PASS
			NV	30	-5000.00	-0.959693	20	PASS
	Ant1	5290	NV	40	-5000.00	-0.959693	20	PASS
			NV	50	-5000.00	-0.959693	20	PASS
			NV	-30	-5000.00	-0.945180	20	PASS
			NV	-20	-5000.00	-0.945180	20	PASS
			NV	-10	-5000.00	-0.945180	20	PASS
			NV	0	-5000.00	-0.945180	20	PASS
			NV	10	-5000.00	-0.945180	20	PASS
			NV	20	-5000.00	-0.945180	20	PASS
	Ant2	5290	NV	30	-5000.00	-0.945180	20	PASS
			NV	40	-5000.00	-0.945180	20	PASS
			NV	50	-5000.00	-0.945180	20	PASS
			NV	-30	-5000.00	-0.945180	20	PASS
			NV	-20	-4000.00	-0.756144	20	PASS
			NV	-10	-4000.00	-0.756144	20	PASS
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			NV	20	-5000.00	-0.945180	20	PASS
			NV	30	-4000.00	-0.756144	20	PASS
			NV	40	-4000.00	-0.756144	20	PASS
			NV	50	-5000.00	-0.945180	20	PASS
	Ant1	5530	NV	-30	-5000.00	-0.904159	20	PASS
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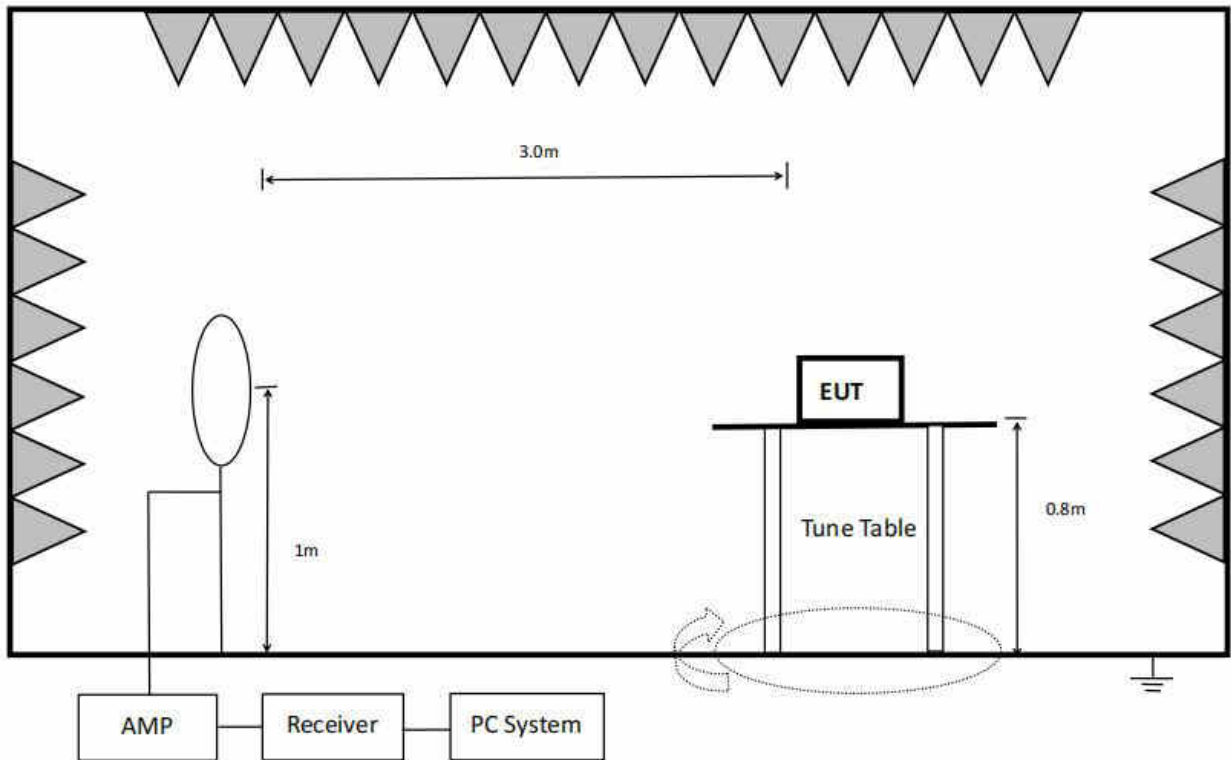
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			NV	20	-5000.00	-0.904159	20	PASS
			NV	30	-5000.00	-0.904159	20	PASS
			NV	40	-5000.00	-0.904159	20	PASS
			NV	50	-5000.00	-0.904159	20	PASS
	Ant2	5530	NV	-30	-5000.00	-0.904159	20	PASS
			NV	-20	-5000.00	-0.904159	20	PASS
			NV	-10	-5000.00	-0.904159	20	PASS
			NV	0	-5000.00	-0.904159	20	PASS
			NV	10	-4000.00	-0.723327	20	PASS
			NV	20	-5000.00	-0.904159	20	PASS
			NV	30	-5000.00	-0.904159	20	PASS
			NV	40	-4000.00	-0.723327	20	PASS
			NV	50	-4000.00	-0.723327	20	PASS
	Ant1	5610	NV	-30	-5000.00	-0.891266	20	PASS
			NV	-20	-5000.00	-0.891266	20	PASS
			NV	-10	-5000.00	-0.891266	20	PASS
			NV	0	-5000.00	-0.891266	20	PASS
			NV	10	-5000.00	-0.891266	20	PASS
			NV	20	-5000.00	-0.891266	20	PASS
			NV	30	-5000.00	-0.891266	20	PASS
			NV	40	-5000.00	-0.891266	20	PASS
			NV	50	-5000.00	-0.891266	20	PASS
	Ant2	5610	NV	-30	-5000.00	-0.891266	20	PASS
			NV	-20	-5000.00	-0.891266	20	PASS
			NV	-10	-4000.00	-0.713012	20	PASS
			NV	0	-4000.00	-0.713012	20	PASS
			NV	10	-5000.00	-0.891266	20	PASS
			NV	20	-5000.00	-0.891266	20	PASS
			NV	30	-4000.00	-0.713012	20	PASS
			NV	40	-6000.00	-1.069519	20	PASS
			NV	50	-5000.00	-0.891266	20	PASS
	Ant1	5690	NV	-30	-5000.00	-0.878735	20	PASS
			NV	-20	-5000.00	-0.878735	20	PASS
			NV	-10	-5000.00	-0.878735	20	PASS
			NV	0	-5000.00	-0.878735	20	PASS
			NV	10	-5000.00	-0.878735	20	PASS
			NV	20	-5000.00	-0.878735	20	PASS
			NV	30	-5000.00	-0.878735	20	PASS
			NV	40	-5000.00	-0.878735	20	PASS
			NV	50	-5000.00	-0.878735	20	PASS
	Ant2	5690	NV	-30	-5000.00	-0.878735	20	PASS
			NV	-20	-5000.00	-0.878735	20	PASS
			NV	-10	-5000.00	-0.878735	20	PASS
			NV	0	-5000.00	-0.878735	20	PASS
			NV	10	-5000.00	-0.878735	20	PASS
			NV	20	-6000.00	-1.054482	20	PASS
			NV	30	-5000.00	-0.878735	20	PASS
			NV	40	-5000.00	-0.878735	20	PASS
			NV	50	-5000.00	-0.878735	20	PASS
	Ant1	5775	NV	-30	-5000.00	-0.865801	20	PASS
			NV	-20	-5000.00	-0.865801	20	PASS
			NV	-10	-5000.00	-0.865801	20	PASS
			NV	0	-5000.00	-0.865801	20	PASS
			NV	10	-5000.00	-0.865801	20	PASS
			NV	20	-5000.00	-0.865801	20	PASS
			NV	30	-5000.00	-0.865801	20	PASS
			NV	40	-5000.00	-0.865801	20	PASS

			NV	50	-5000.00	-0.865801	20	PASS
	Ant2	5775	NV	-30	-5000.00	-0.865801	20	PASS
			NV	-20	-5000.00	-0.865801	20	PASS
			NV	-10	-5000.00	-0.865801	20	PASS
			NV	0	-4000.00	-0.692641	20	PASS
			NV	10	-5000.00	-0.865801	20	PASS
			NV	20	-5000.00	-0.865801	20	PASS
			NV	30	-4000.00	-0.692641	20	PASS
			NV	40	-5000.00	-0.865801	20	PASS
			NV	50	-5000.00	-0.865801	20	PASS

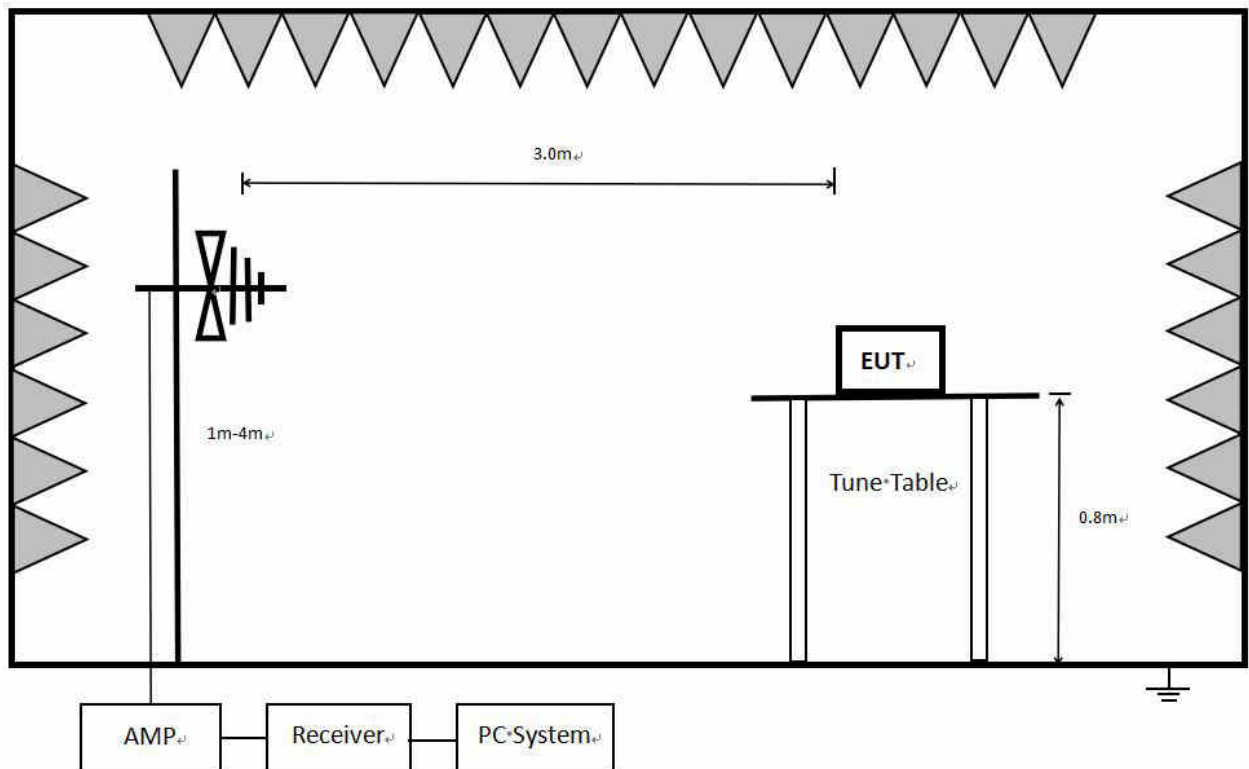
13. Radiated Emission

13.1. Block Diagram of Test Setup

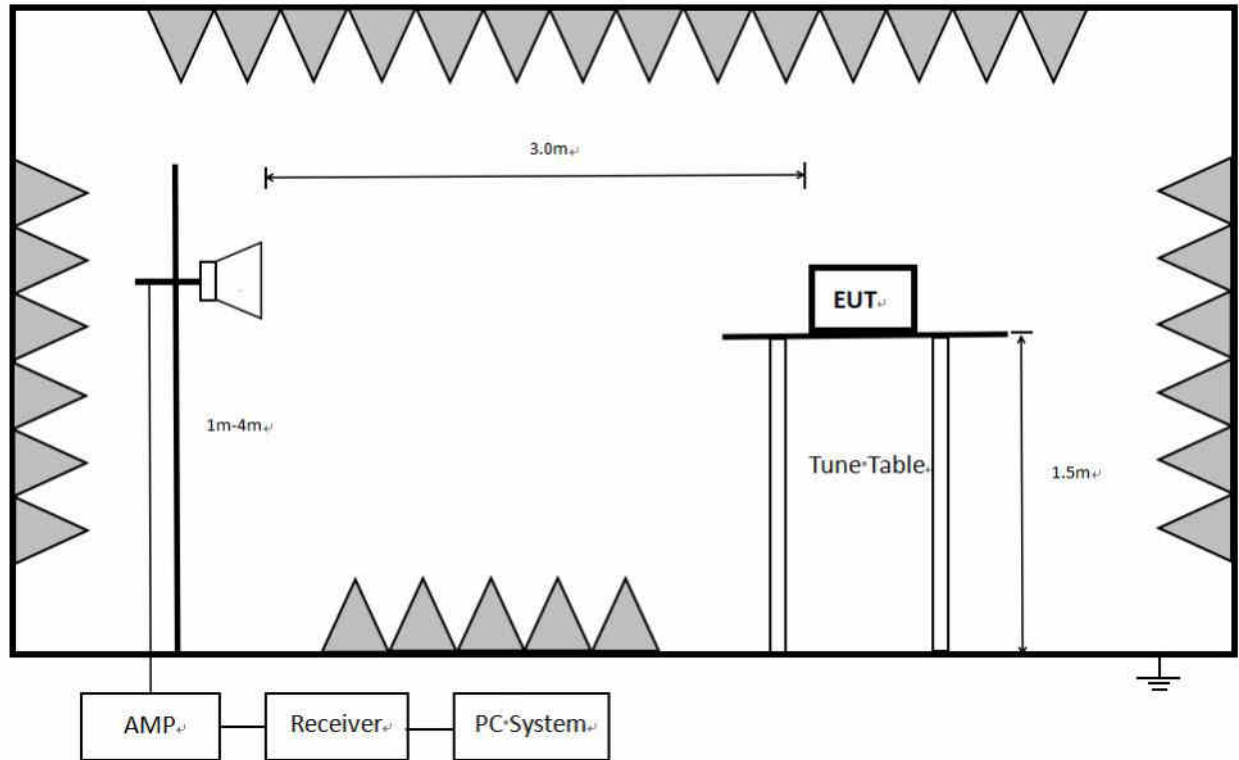
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



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.

13.2. 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
¹ 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

(2) FCC 15.209 Limit.

Frequency MHz	Distance Meters	Field strengths limit	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
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 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm / MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm / MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm / MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm / MHz.

(5) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

(6) The provisions of §15.205 apply to intentional radiators operating under this section.

-27 dBm/MHz Limit=95.2+EIRP (dBm)=95.2-27=68.2 dB $\mu\text{V}/\text{m}$

Note:

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

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

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

(3) Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions or comply with 15.209 limits.

13.3. Test Procedure

Below 30 MHz:

The setting of the spectrum Analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of 1 meter height antenna tower.

5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KdB 414788.

Below 1 GHz and above 30 MHz:

The setting of the spectrum Analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz:

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 1.5m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video

bandwidth with peak detector for AVG measurements. For the Duty Cycle please refer to clause 8.1.ON TIME AND DUTY CYCLE.

7. Restriction band: Investigated frequency range from 5.15-5.25 GHz, 5250-5350 GHz, 5470-5725 GHz, 5.725-5.85 GHz.

All restriction band should comply with 15.209, other emission should be at least 20 dB below the fundamental.

Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT does not support simultaneous transmission.

Note 3: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

13.4. Test Result

PASS. (See below detailed test result)

All the emissions except fundamental emission from 9kHz to 40GHz were comply with 15.209 limit.

Note1: According exploratory test, the emission levels are 20 dB below the limit 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 11N40 mode.

Note3: For below test data, when the limit tabular marked “/” means this frequency point is the fundamental emission and no need comply with this limit.

Note 4: As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit

Note 5: For emissions Above 1 GHz, all mode have been tested, 11N40 mode is worse case and recorded in report.

13.5. Original Test Data

Below 1 GHz and above 30 MHz test data Refer to appendix A

Above 1 GHz test data Refer to appendix B

