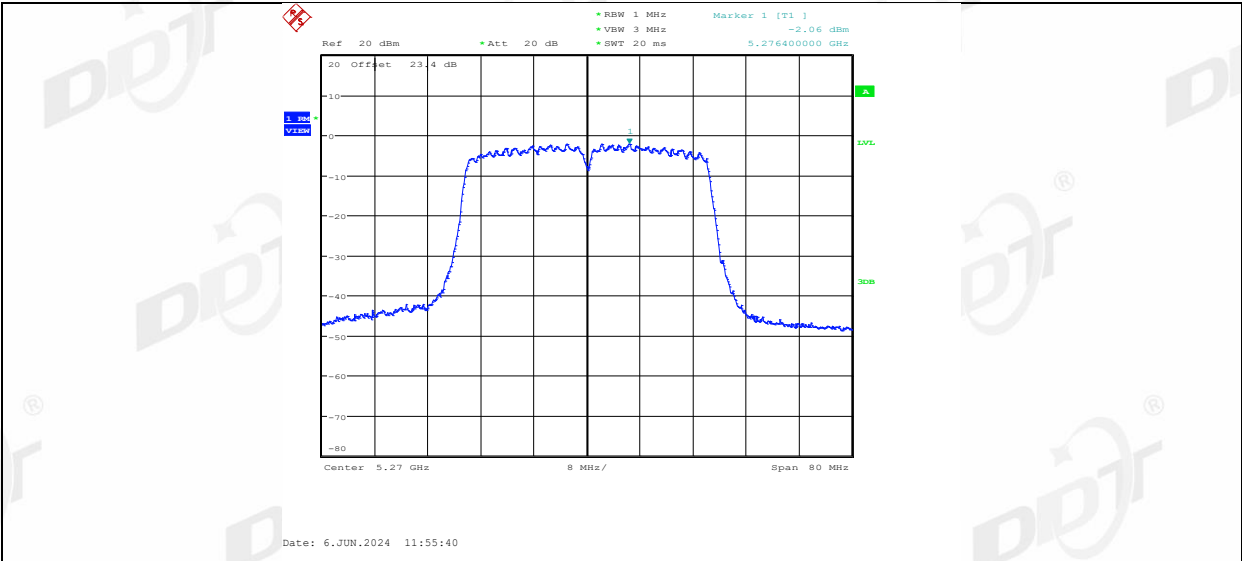
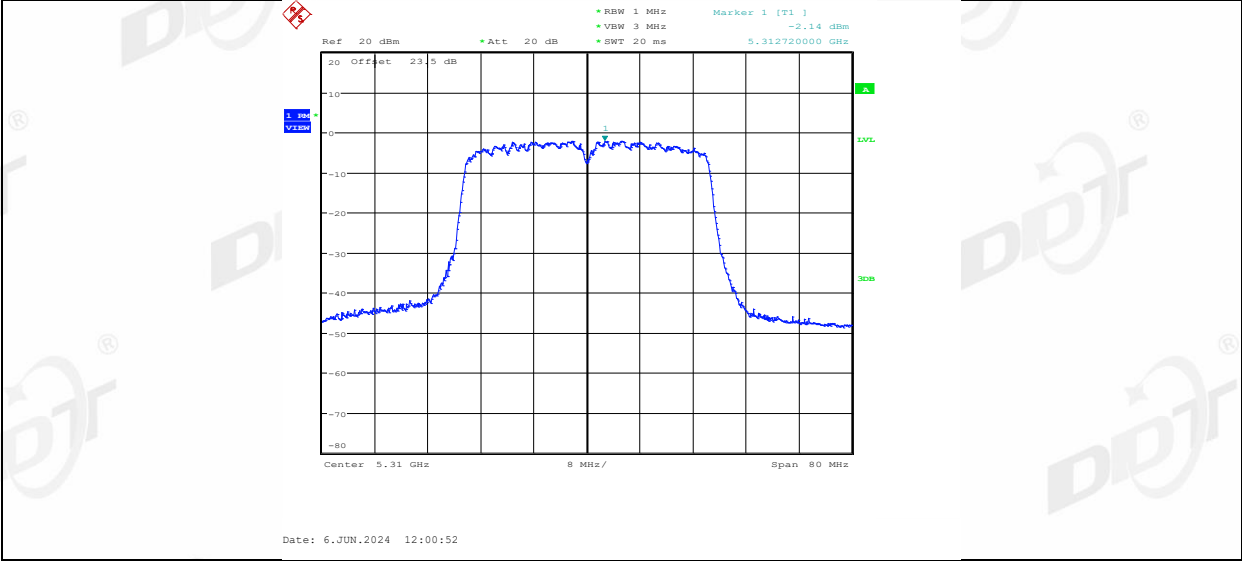




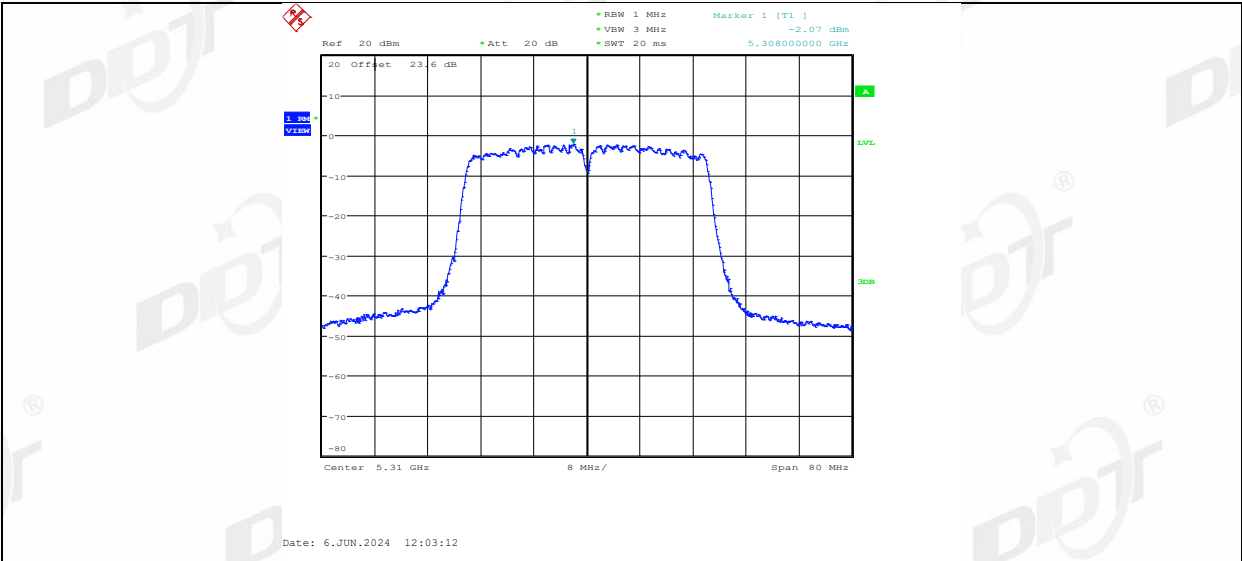
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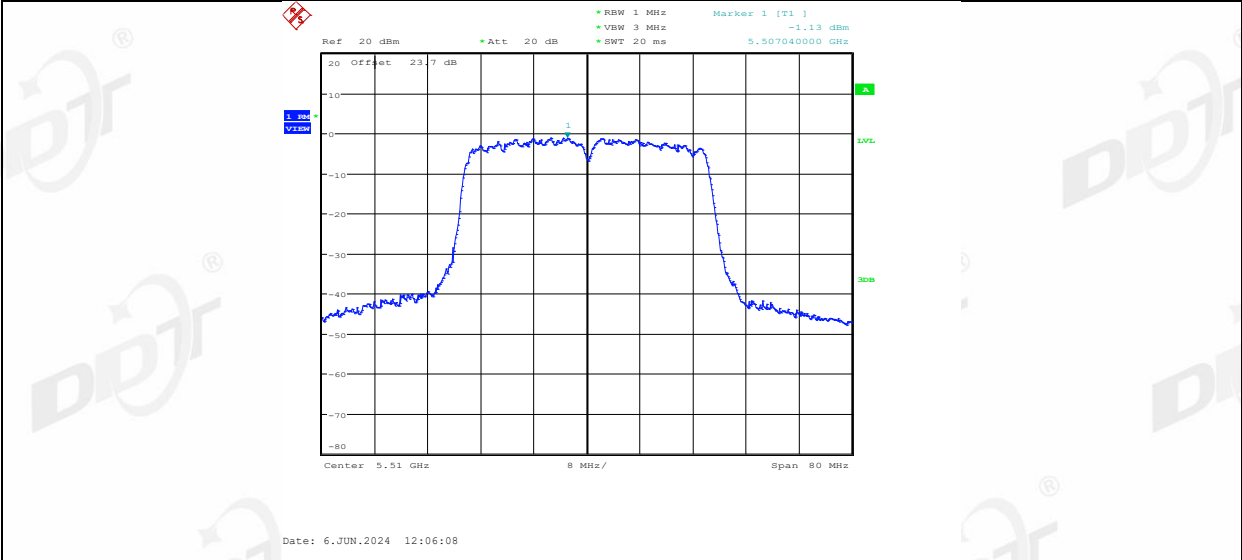
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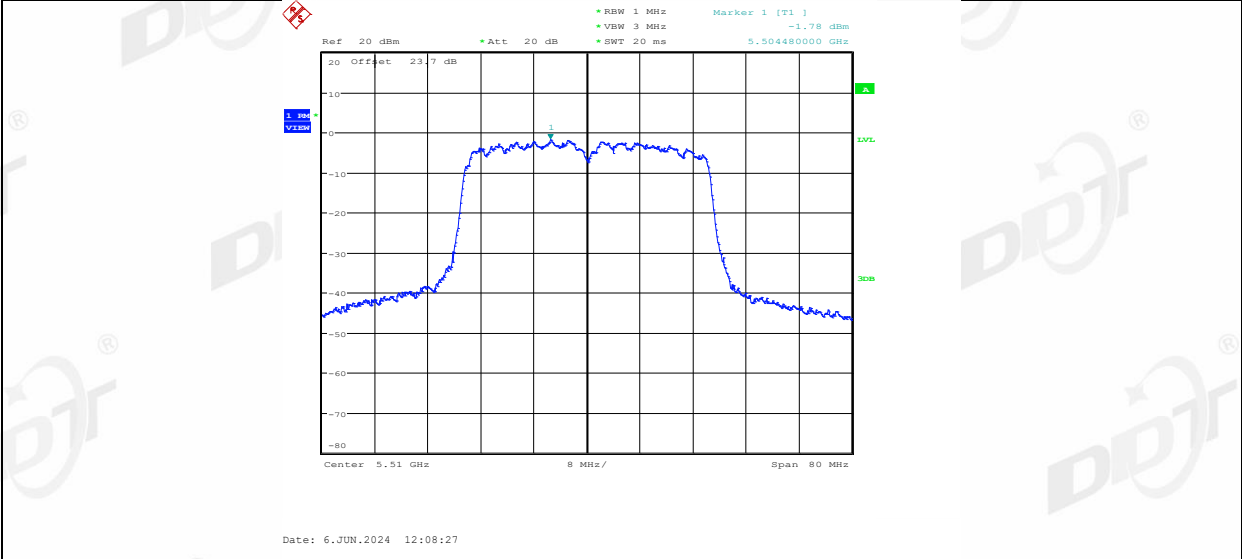
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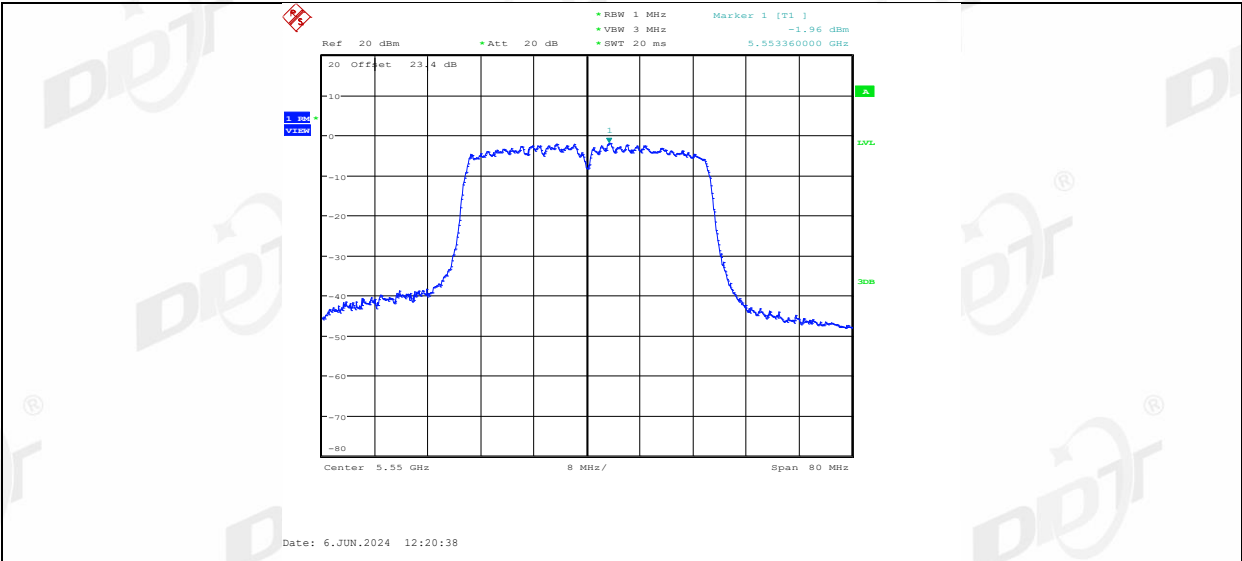
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11N40MIMO_Ant2_5510



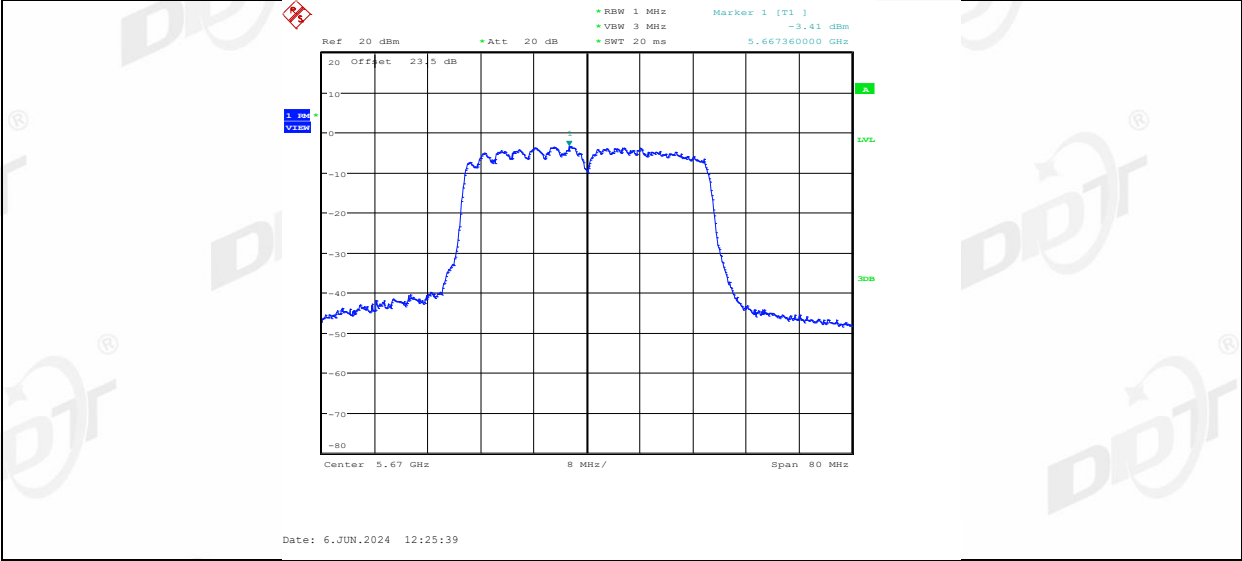
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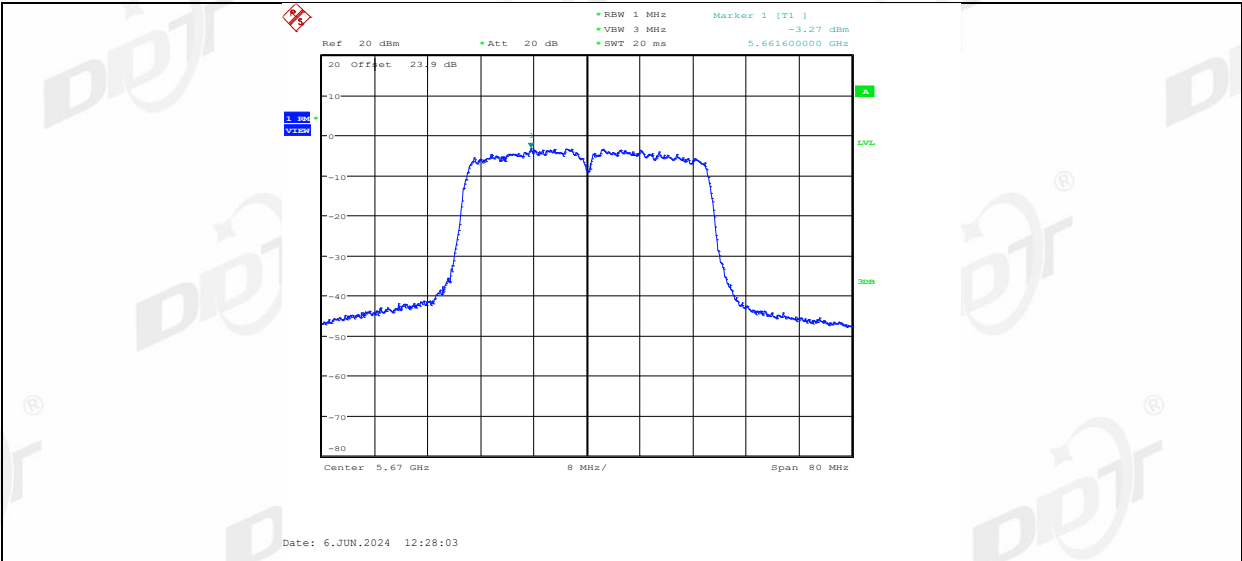
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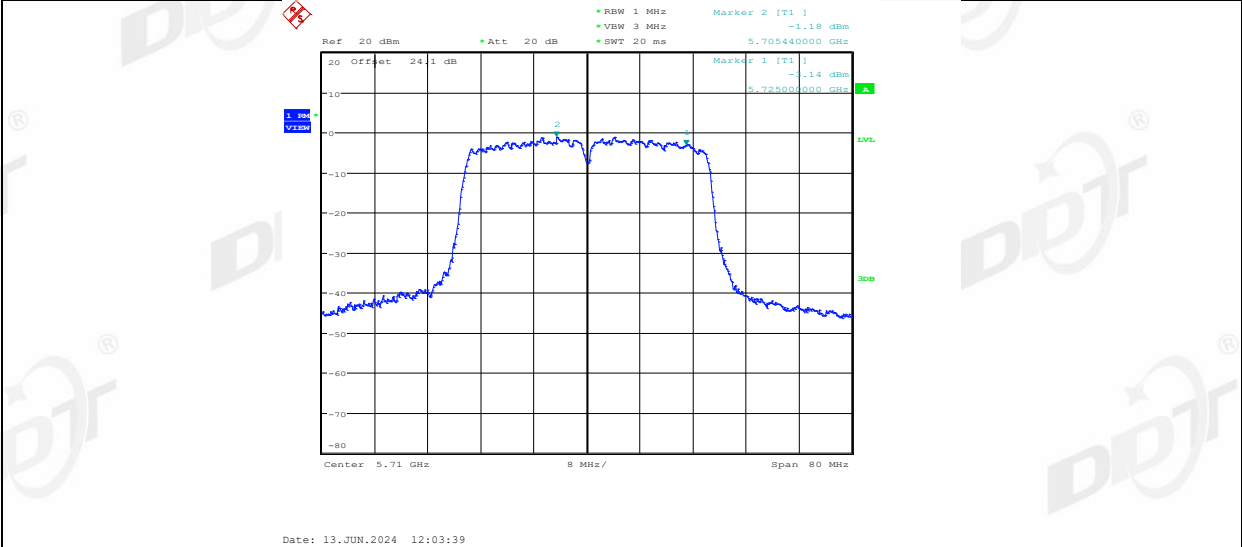
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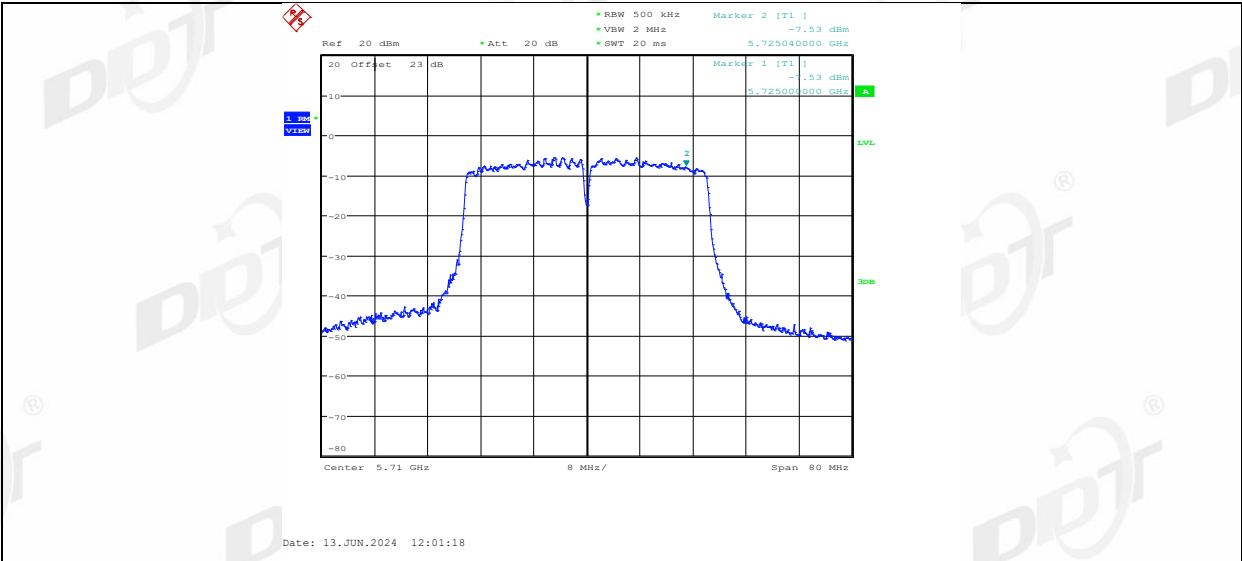
11N40MIMO Ant1 5710 UNII-2C



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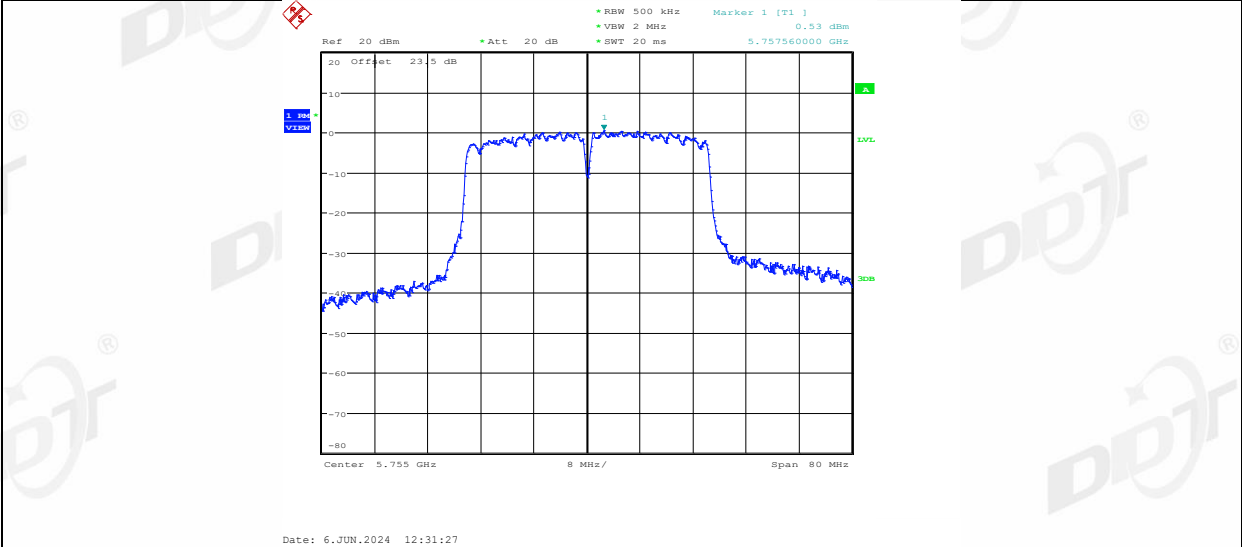
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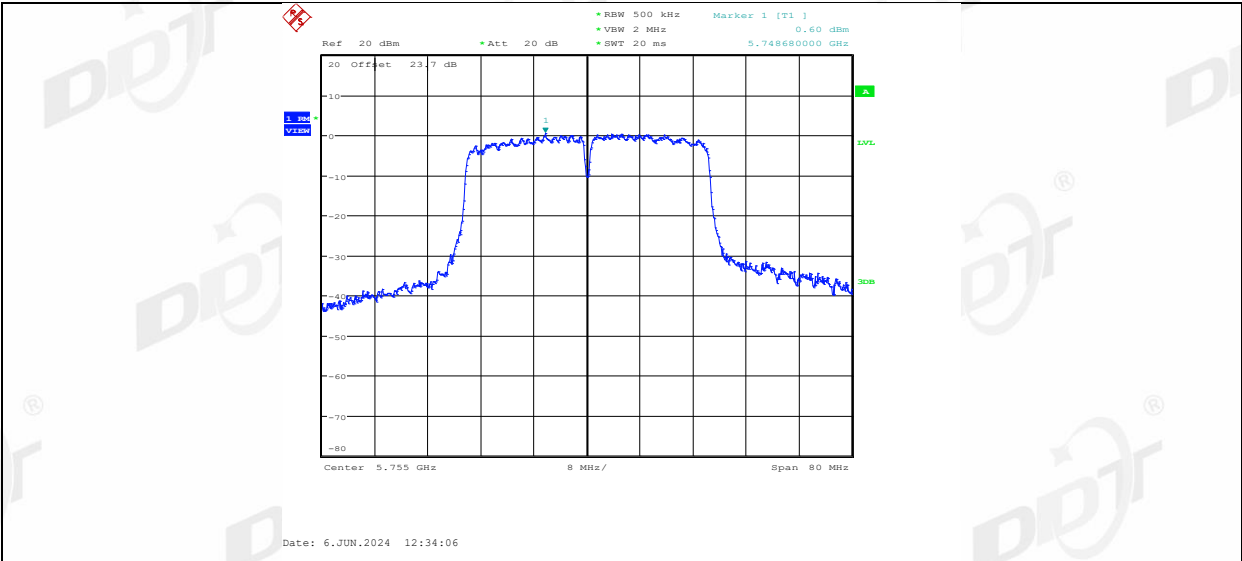
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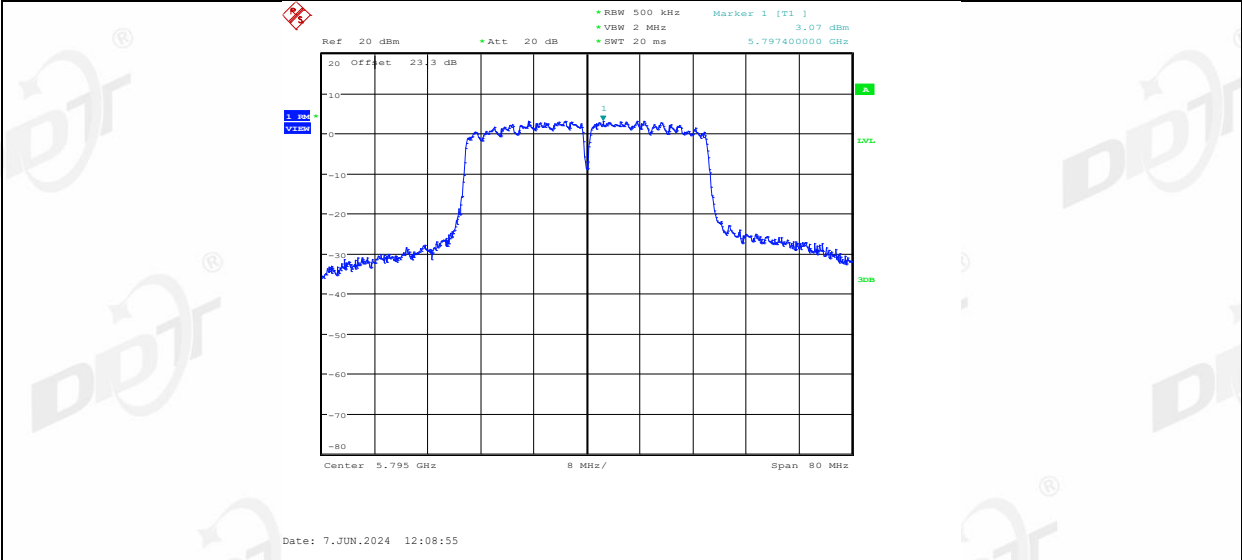
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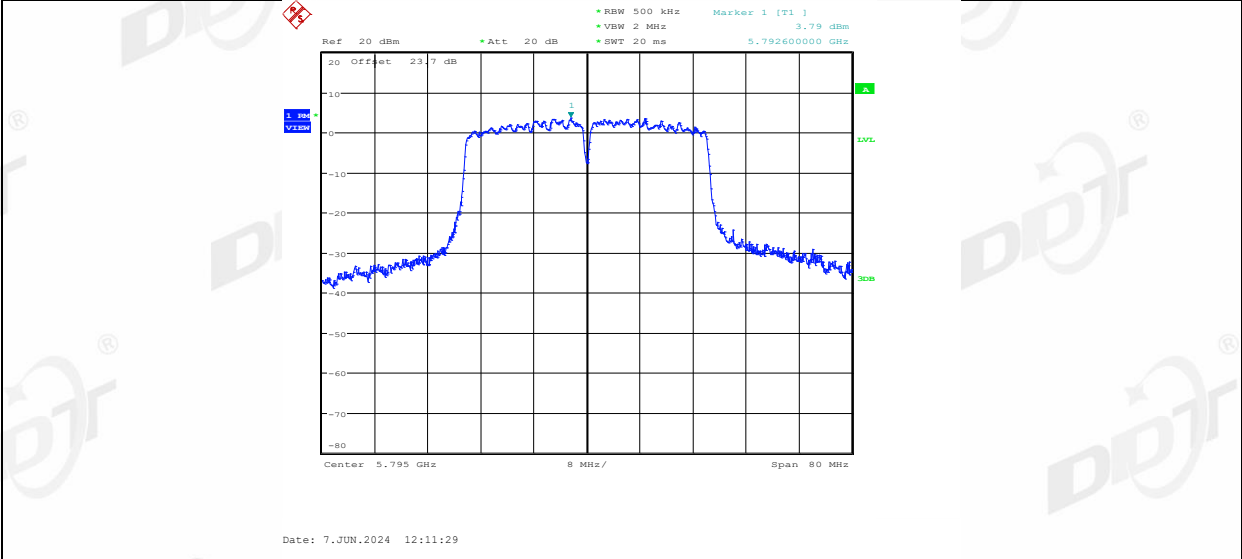
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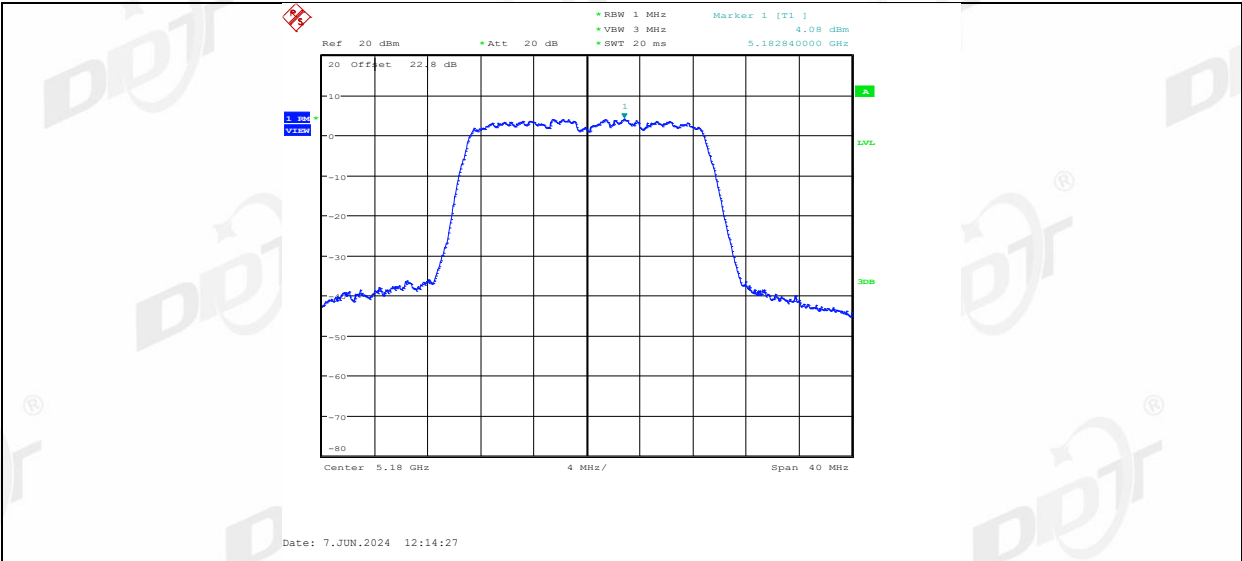
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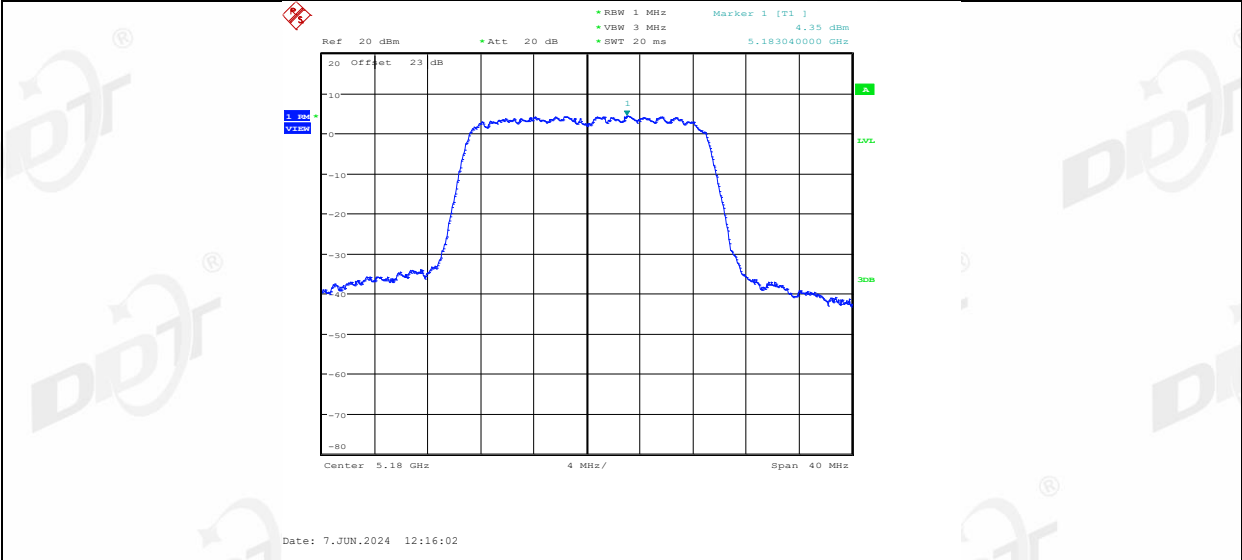
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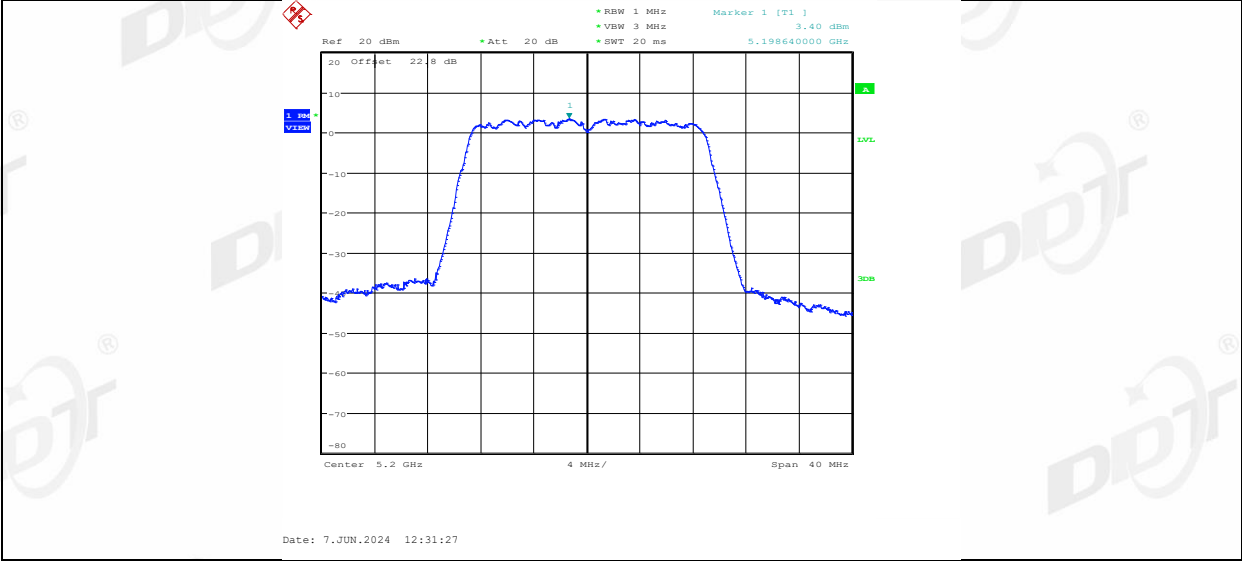
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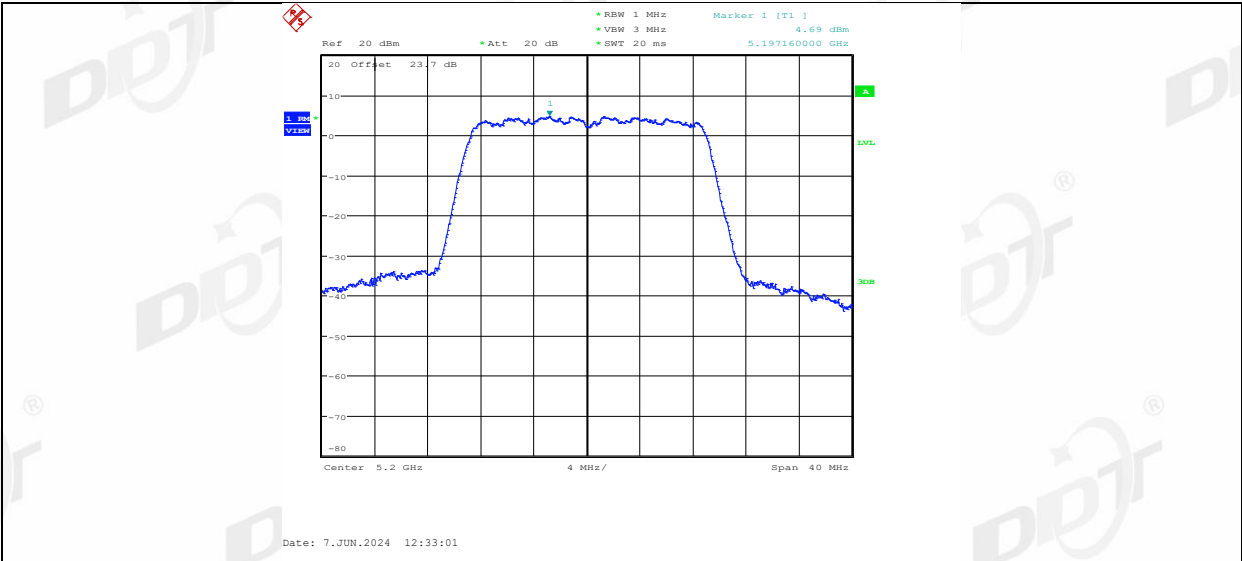
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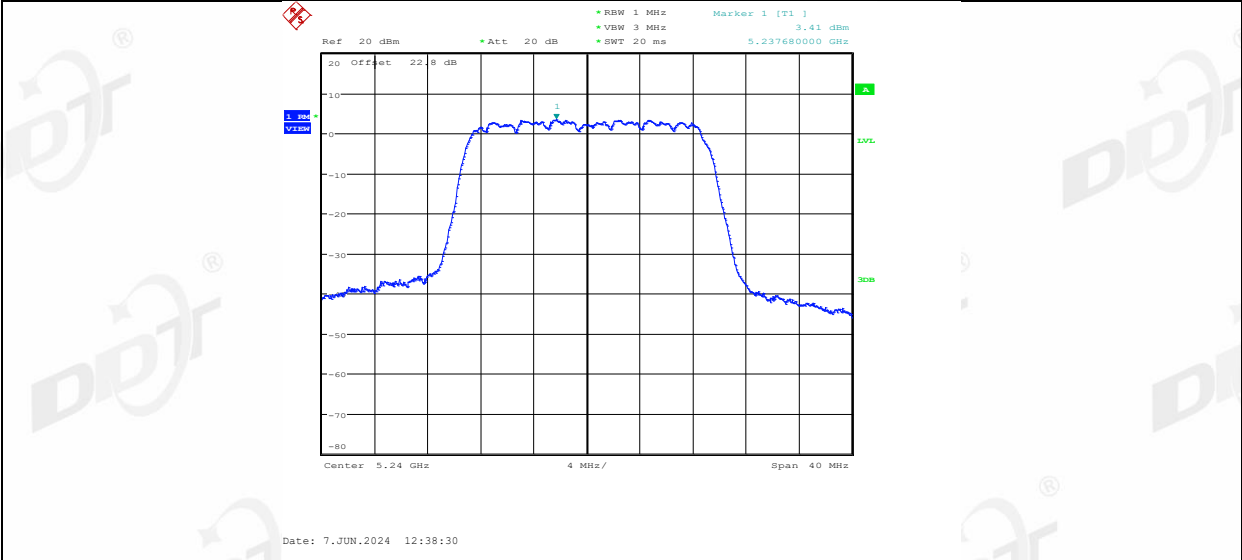
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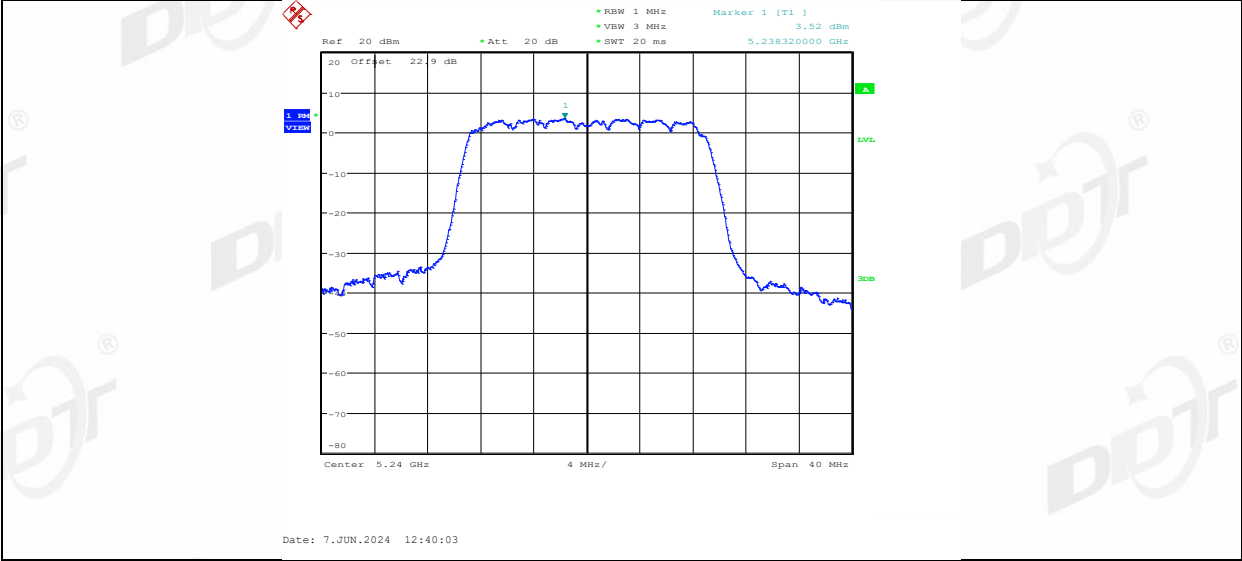
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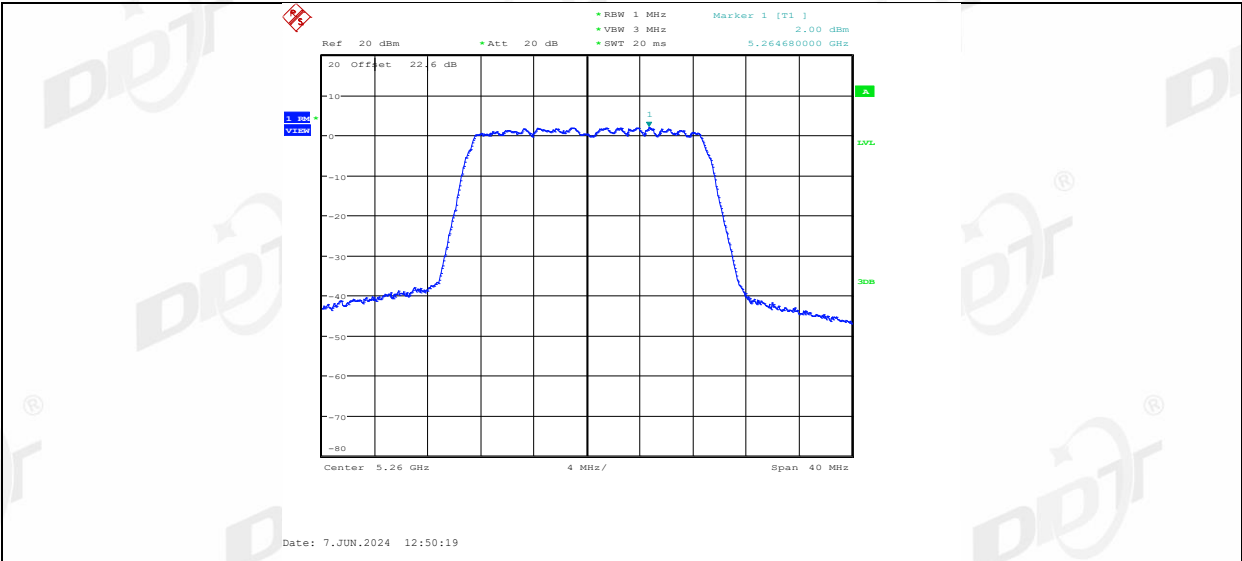
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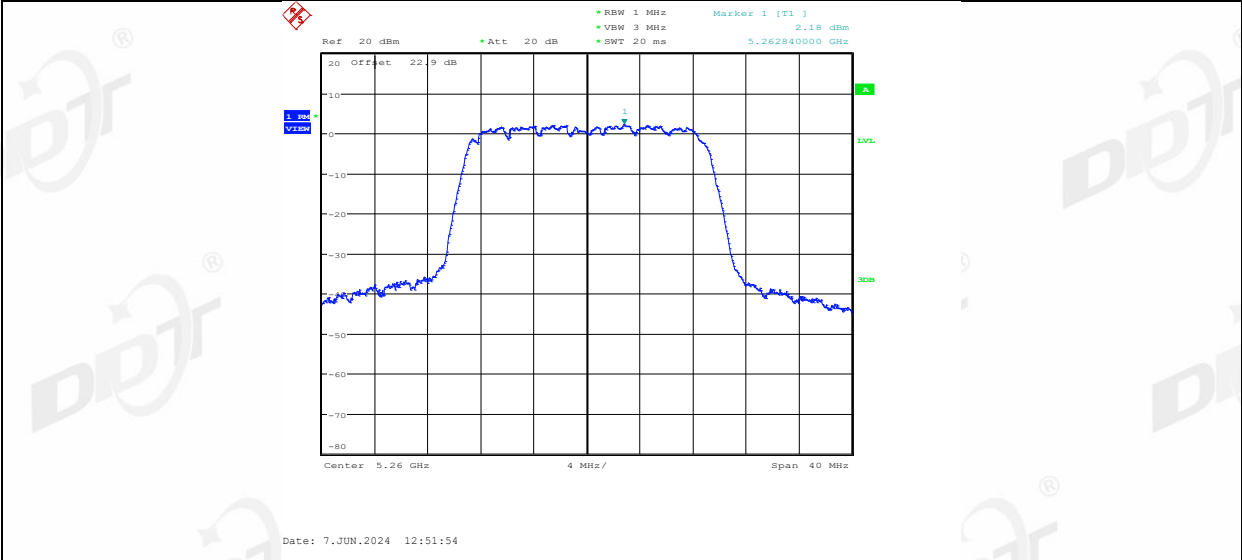
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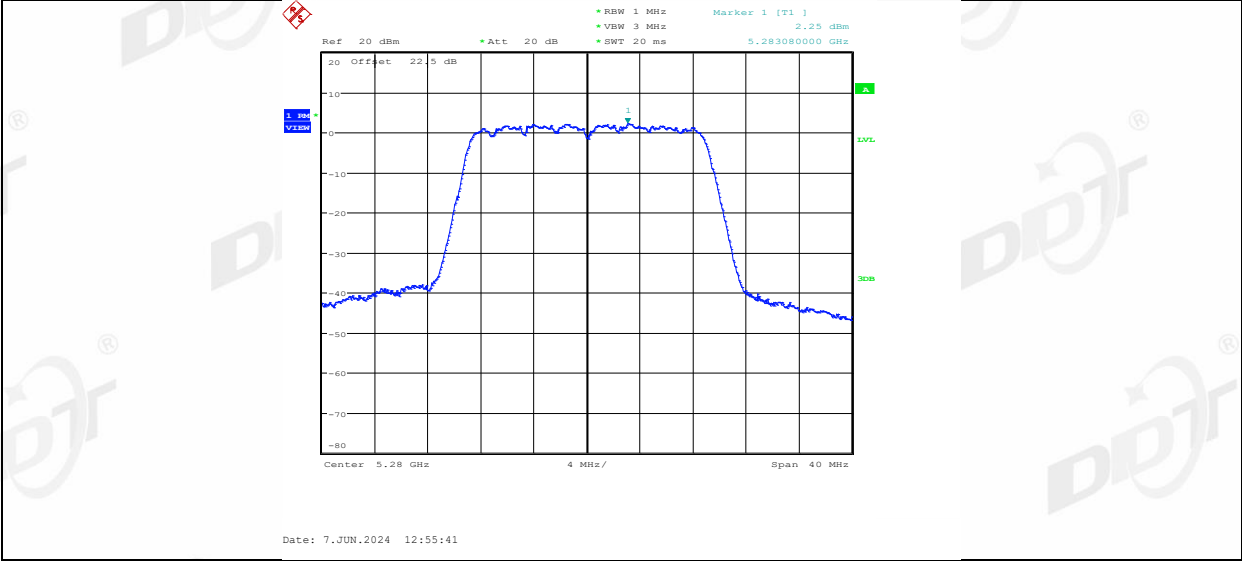
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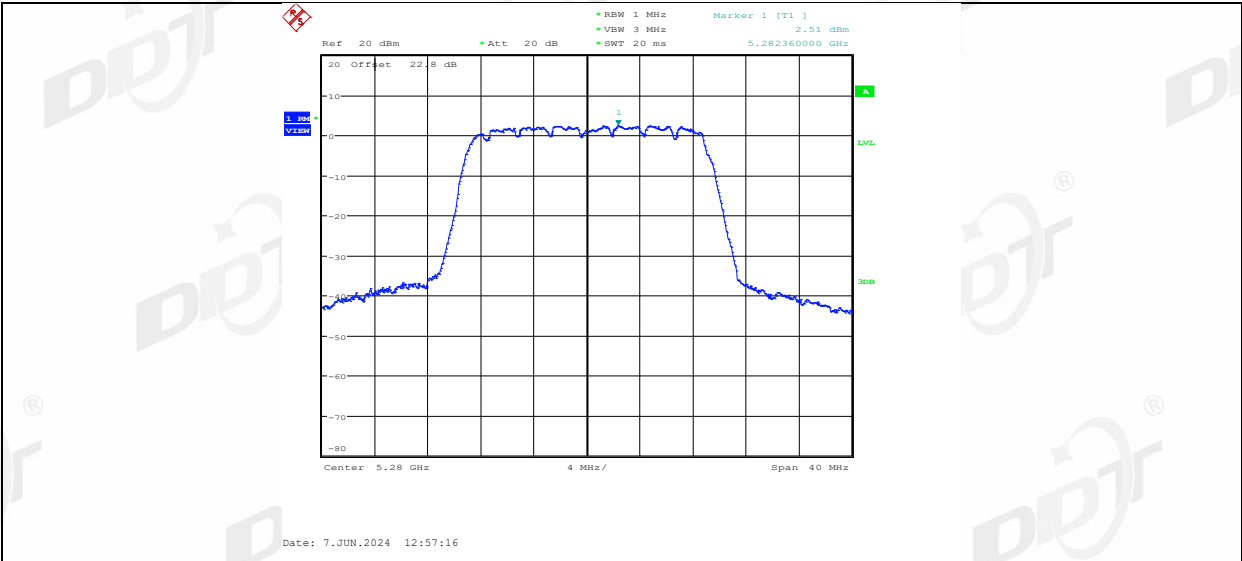
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11AC20MIMO_Ant1_5280



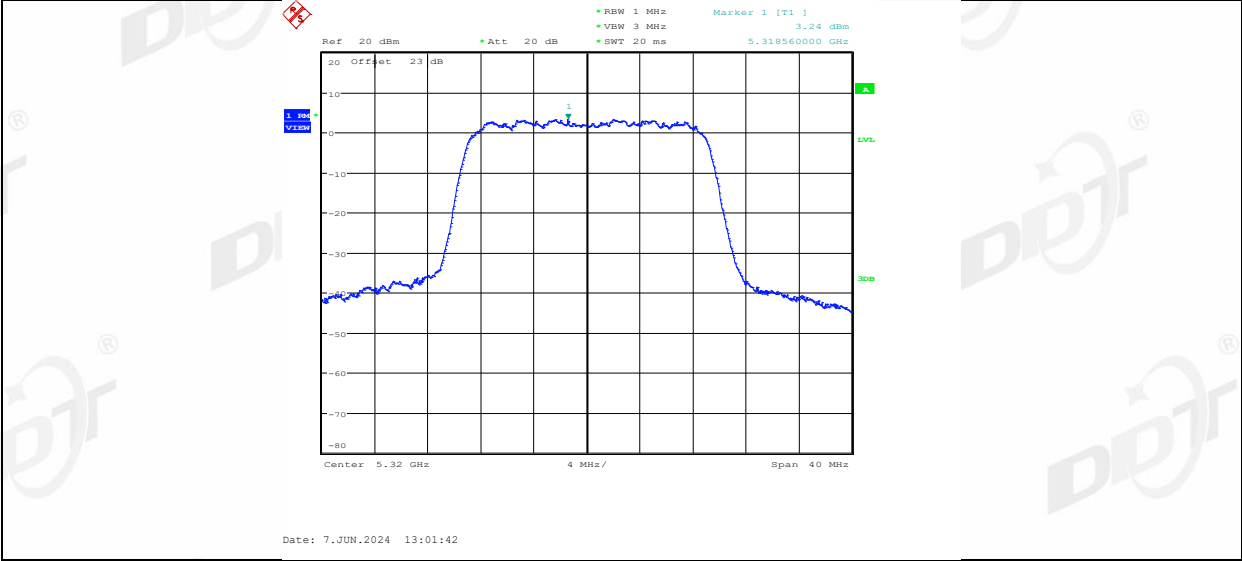
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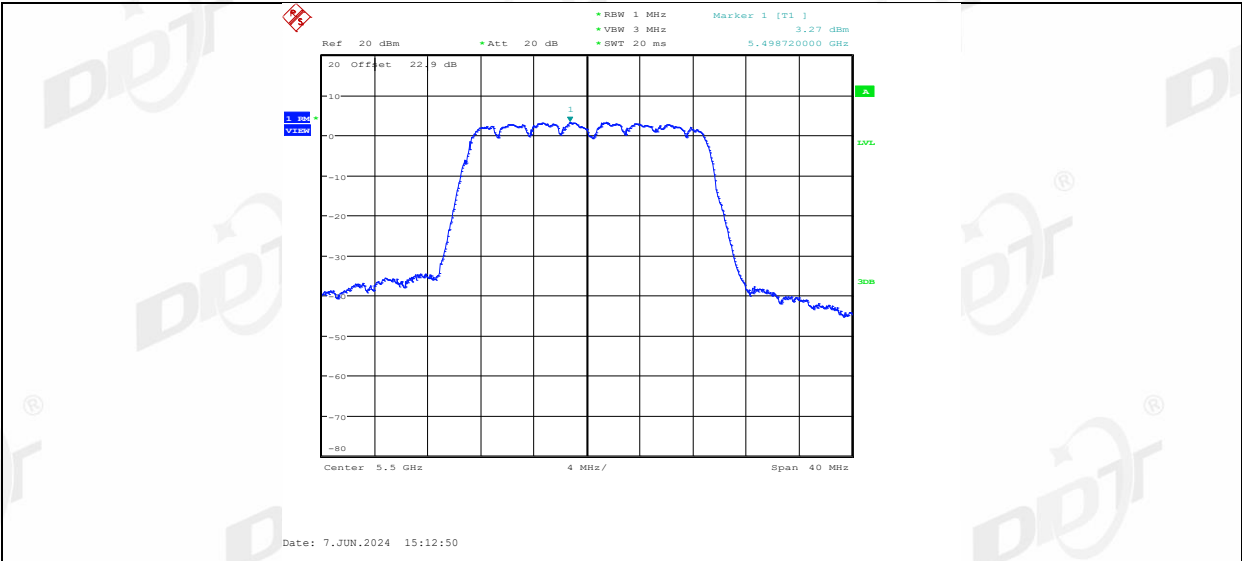
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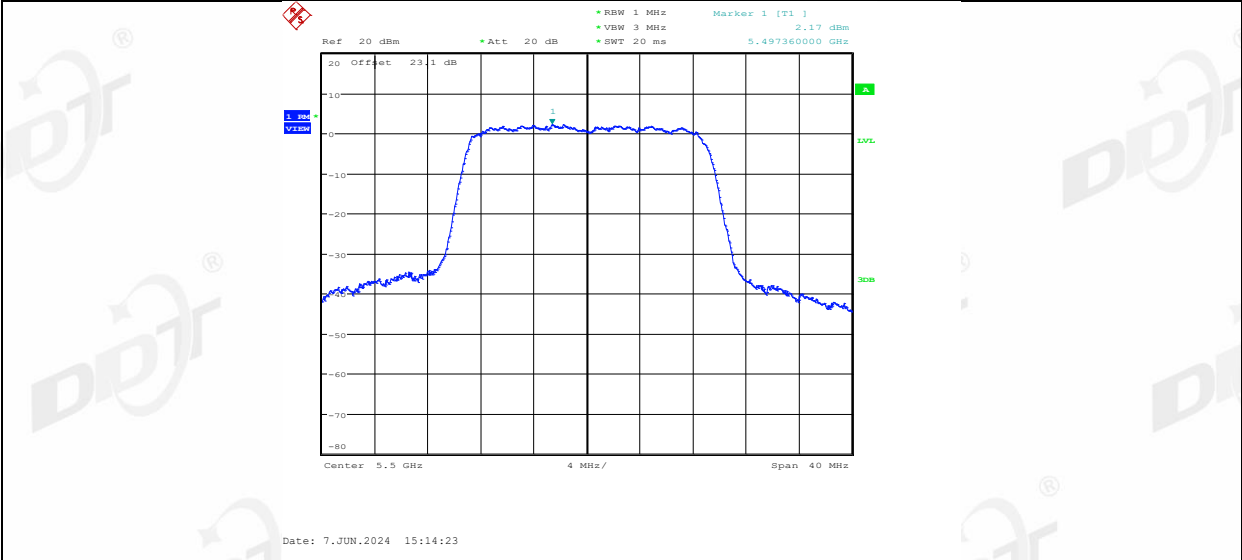
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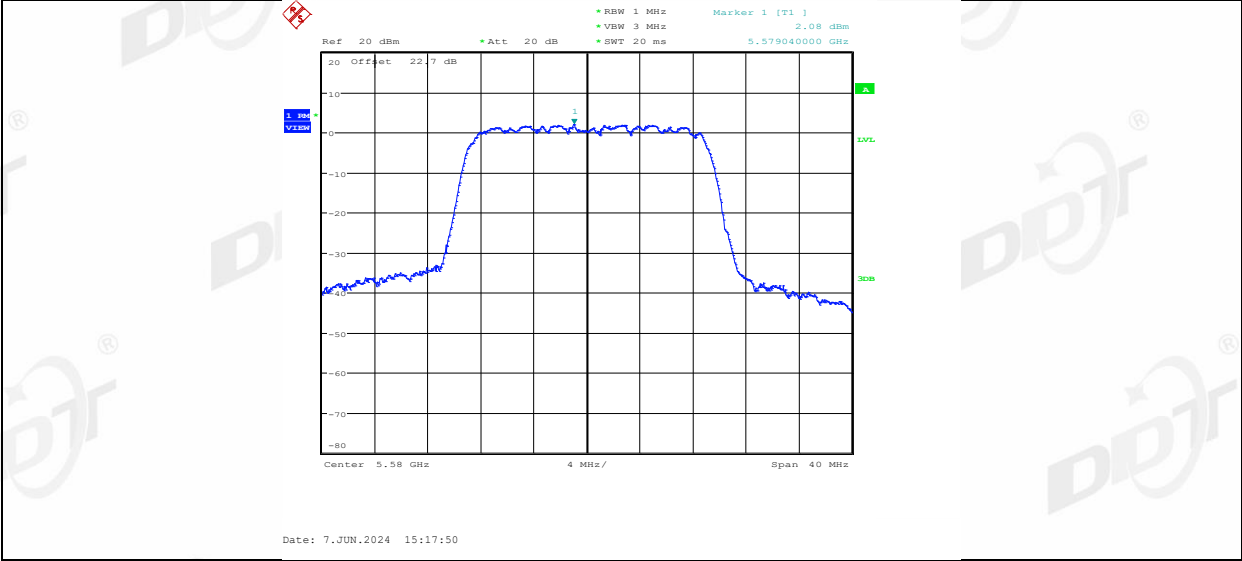
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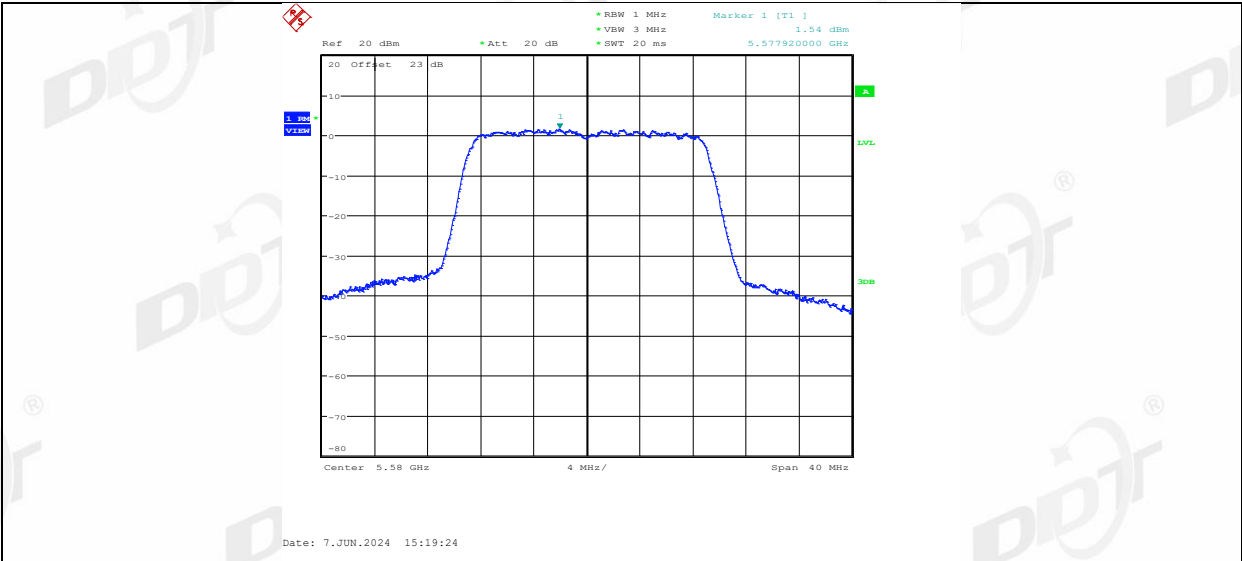
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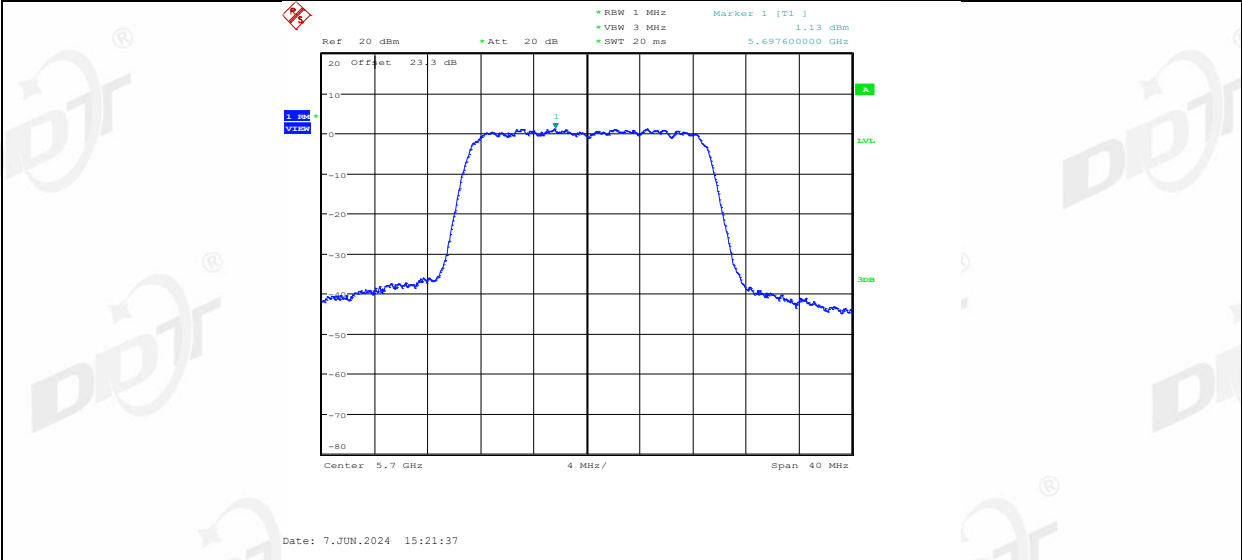
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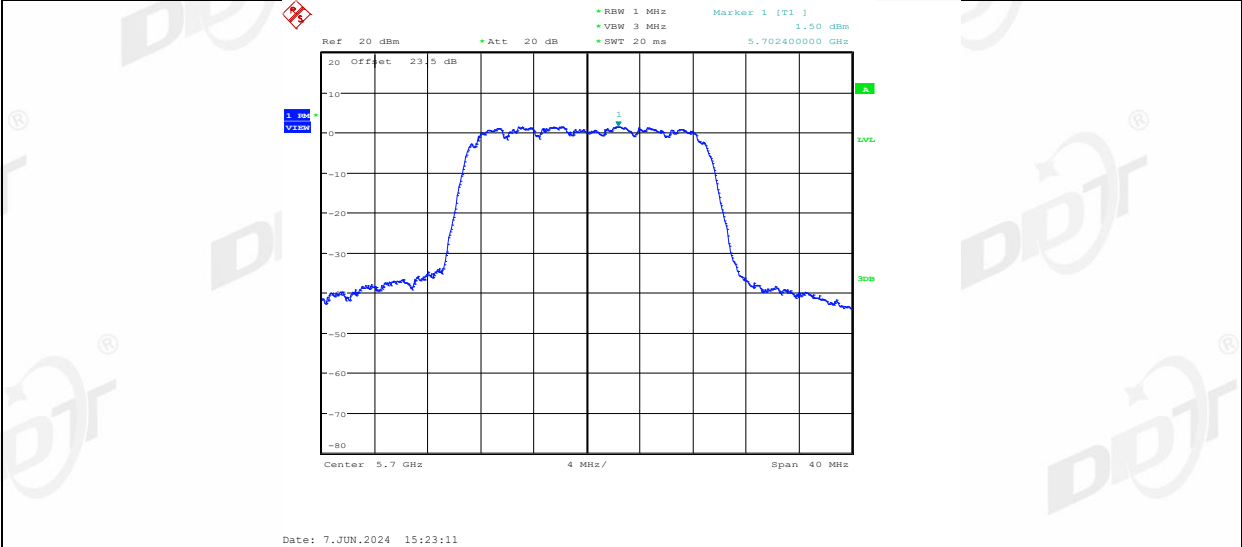
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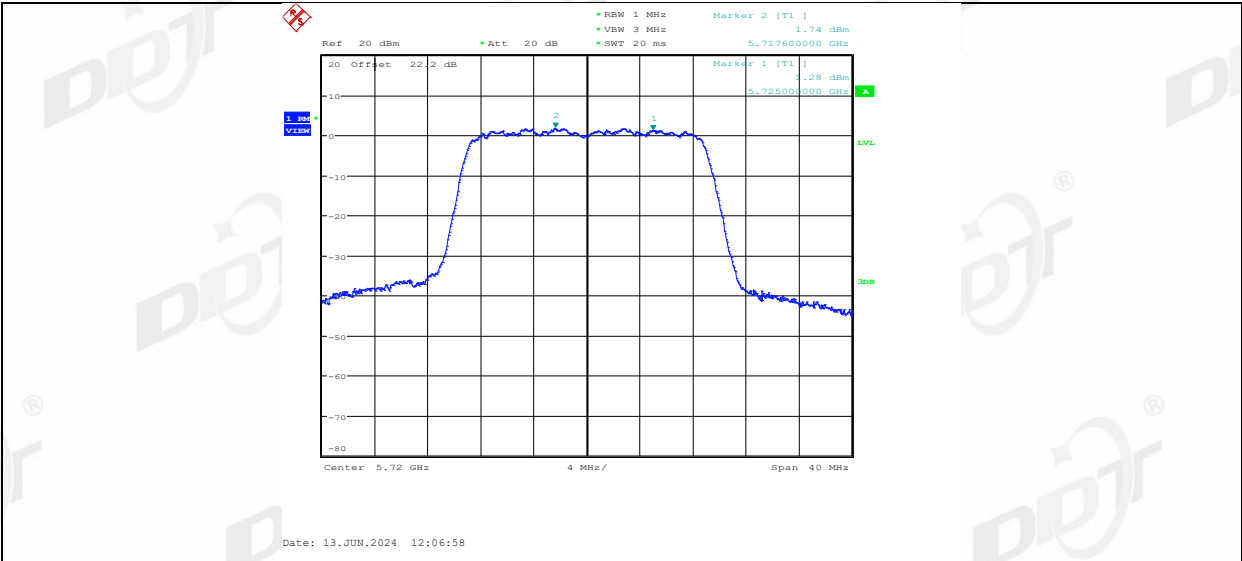
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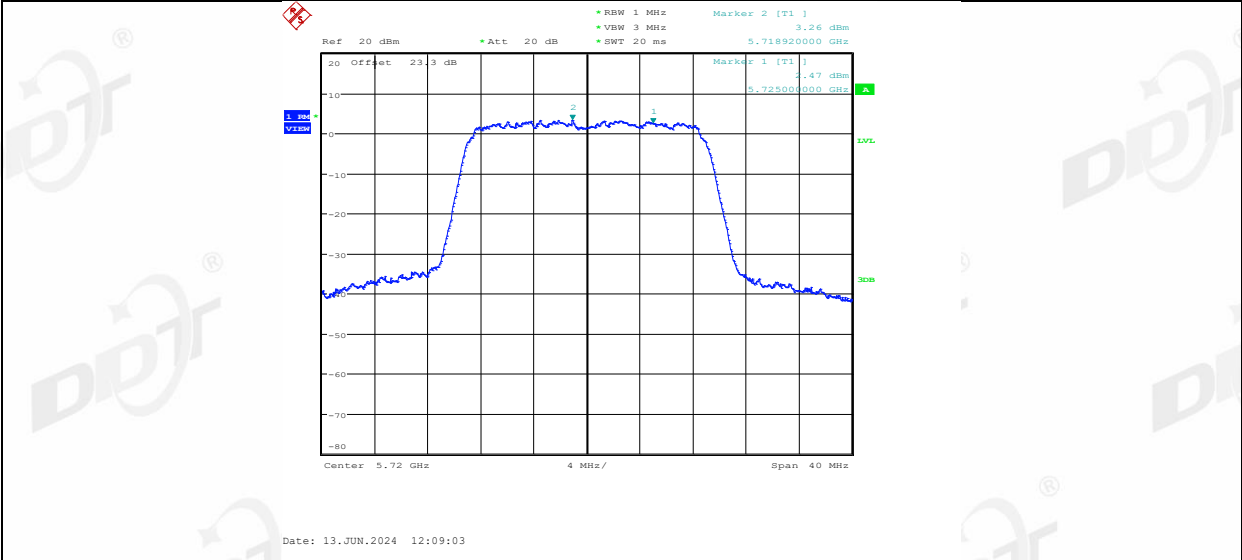
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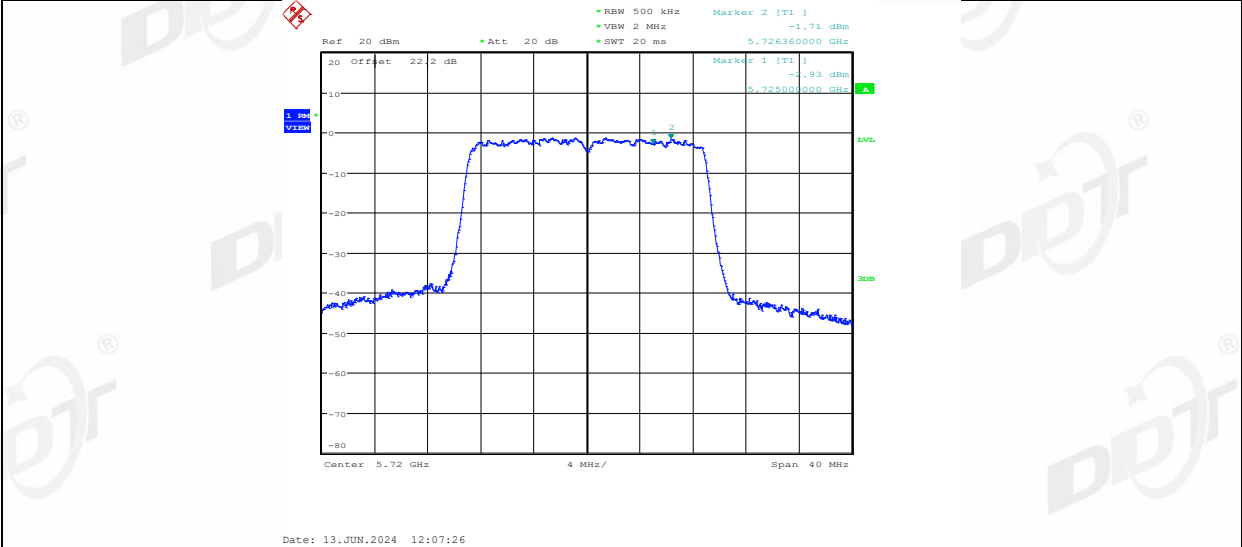
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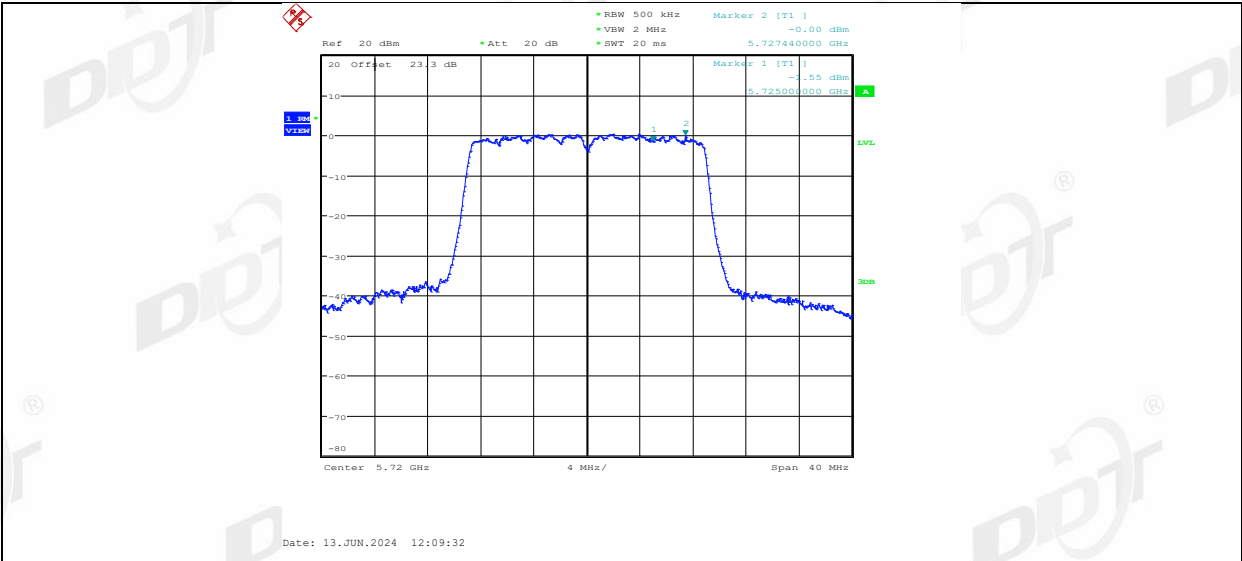
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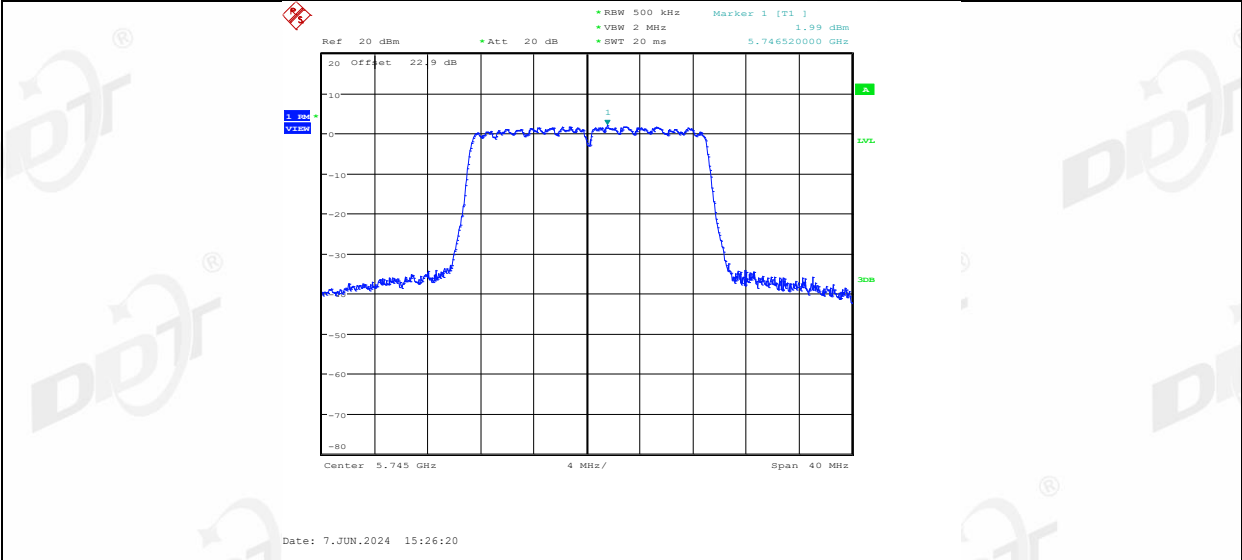
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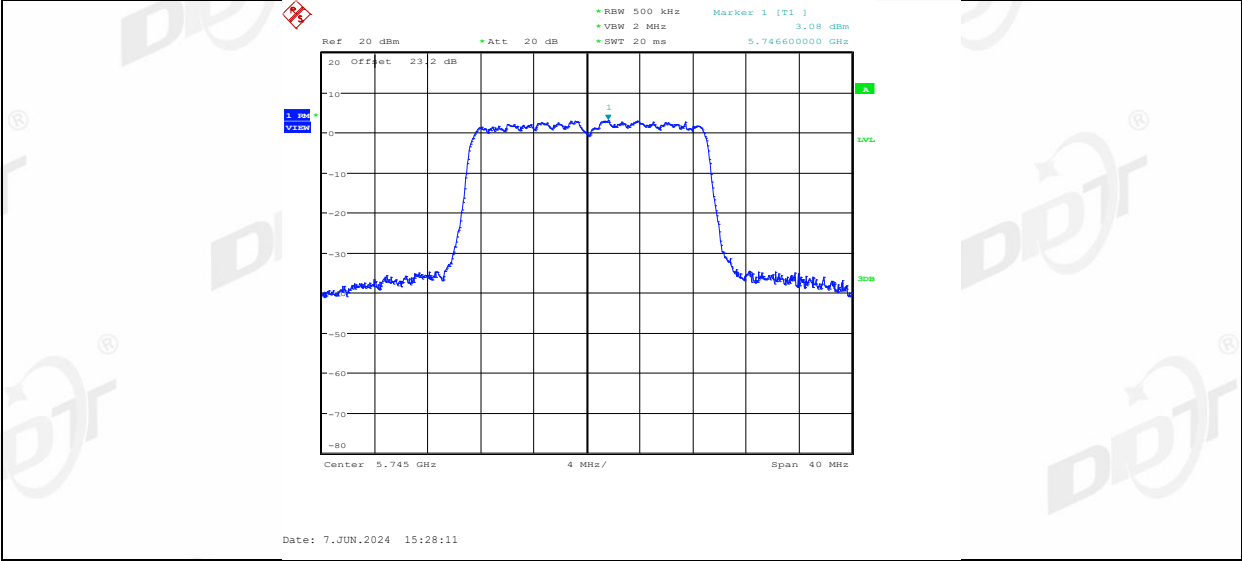
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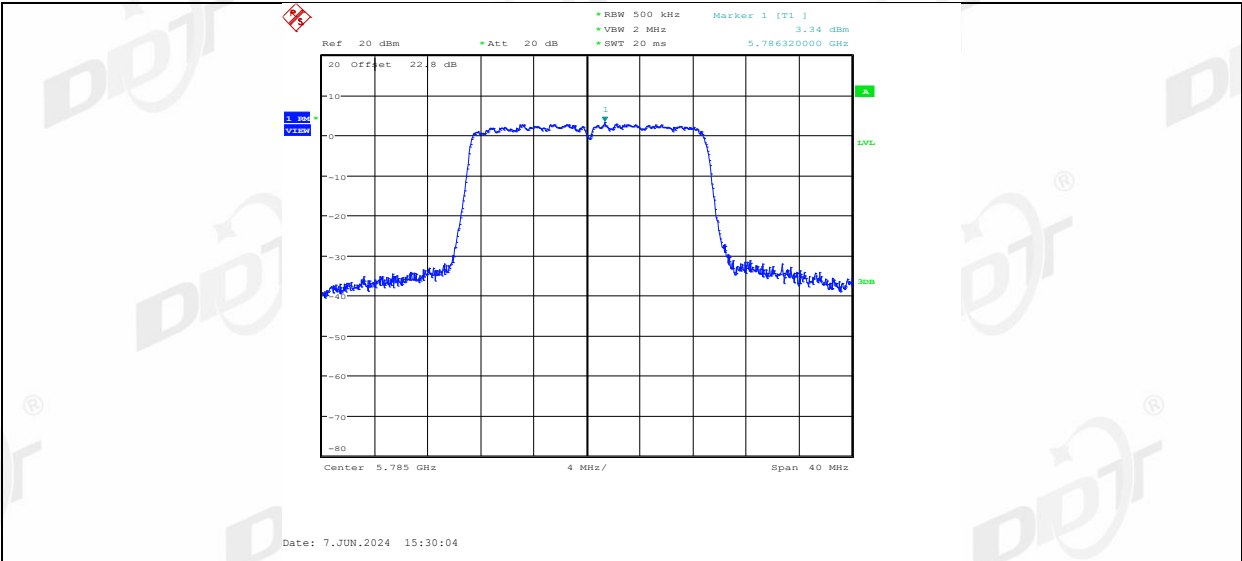
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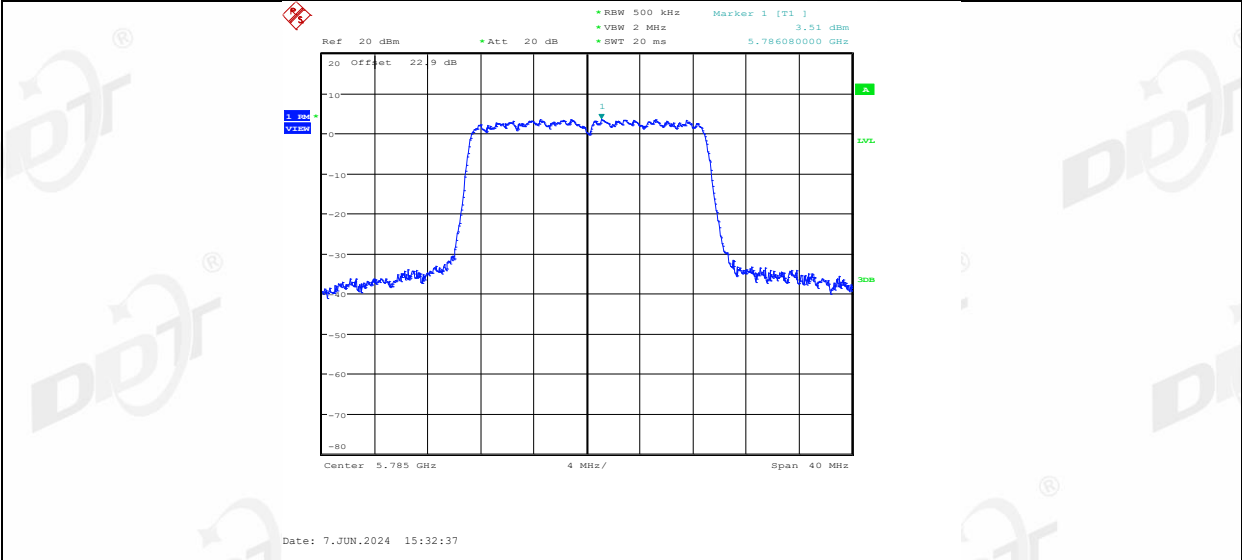
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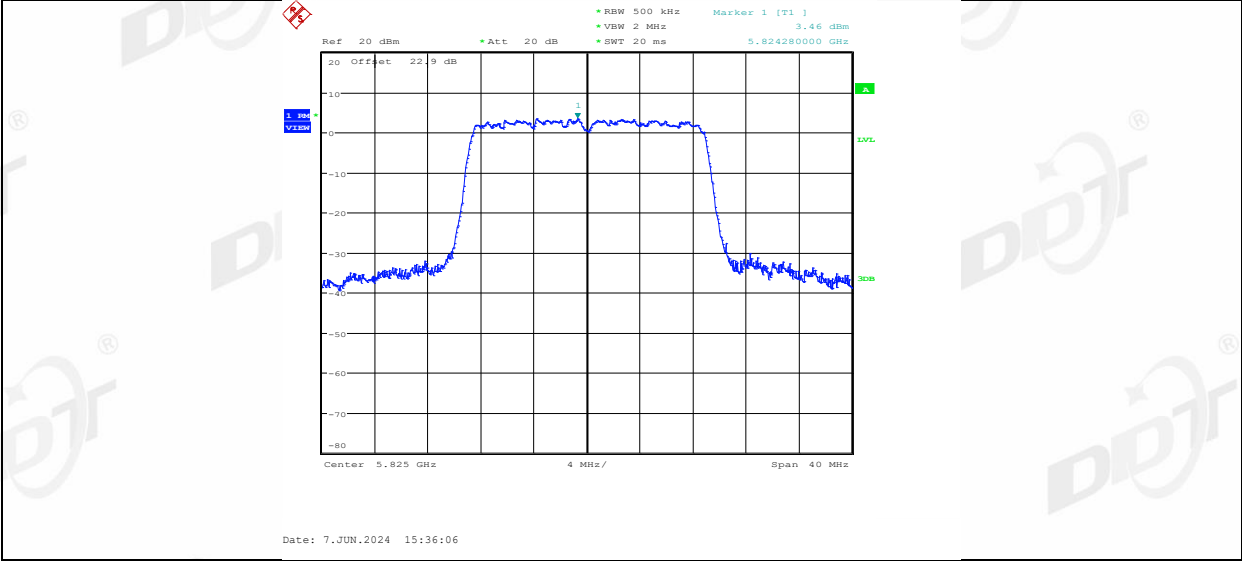
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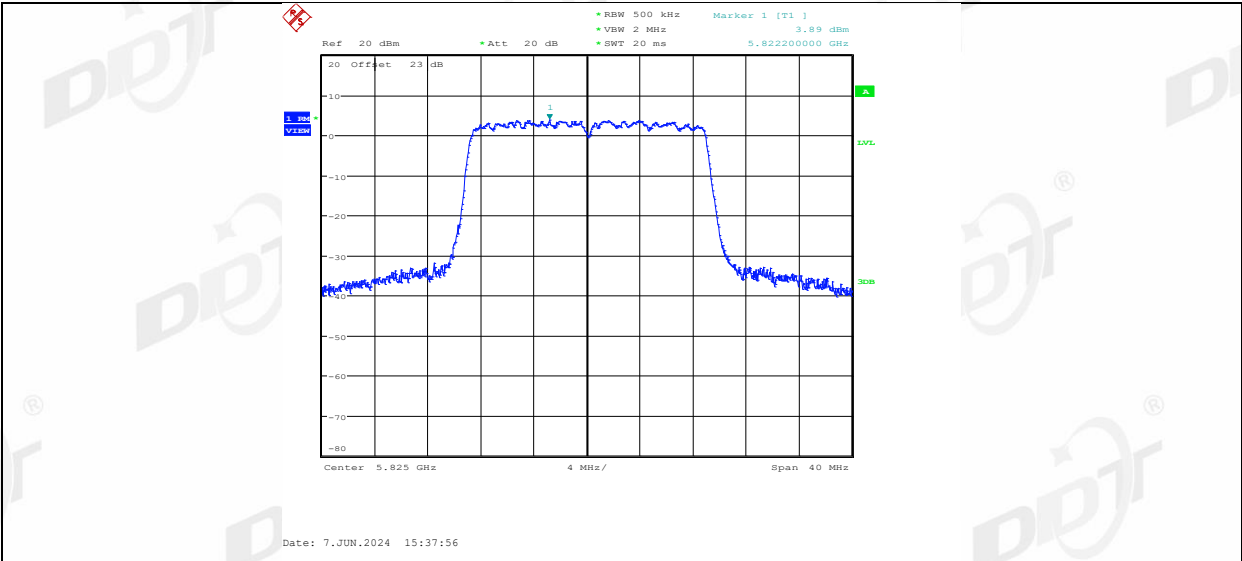
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11AC20MIMO_Ant1_5825



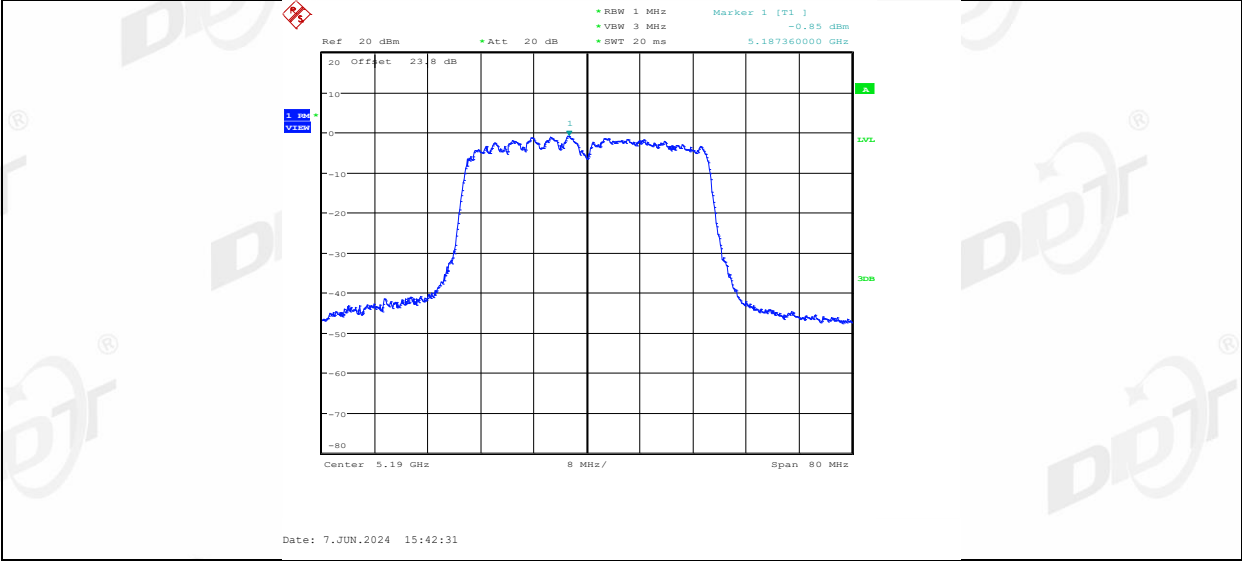
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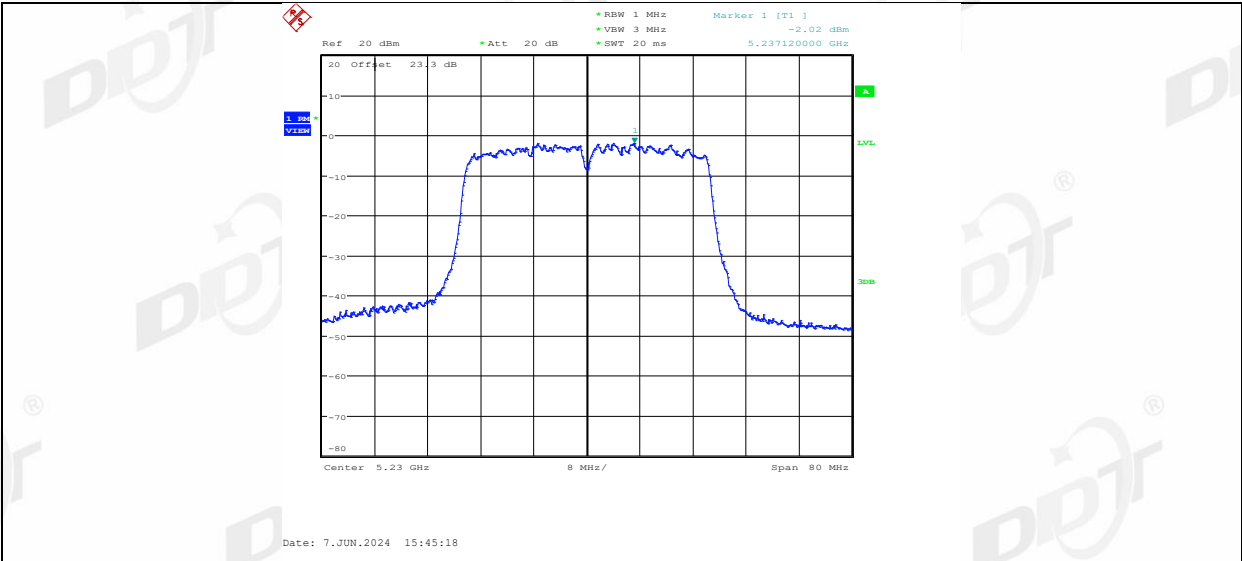
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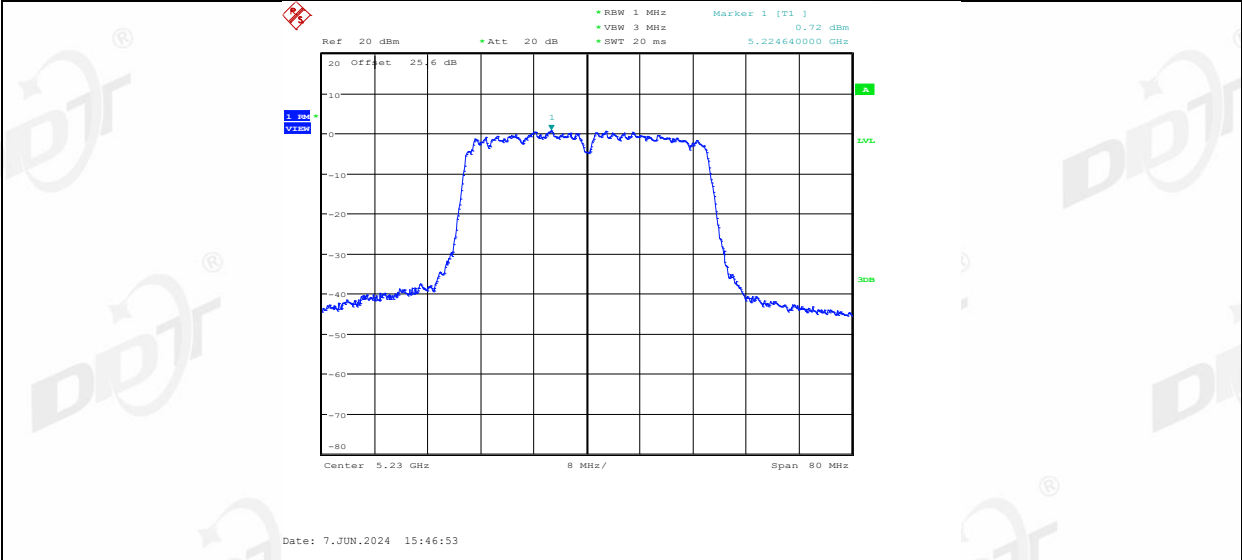
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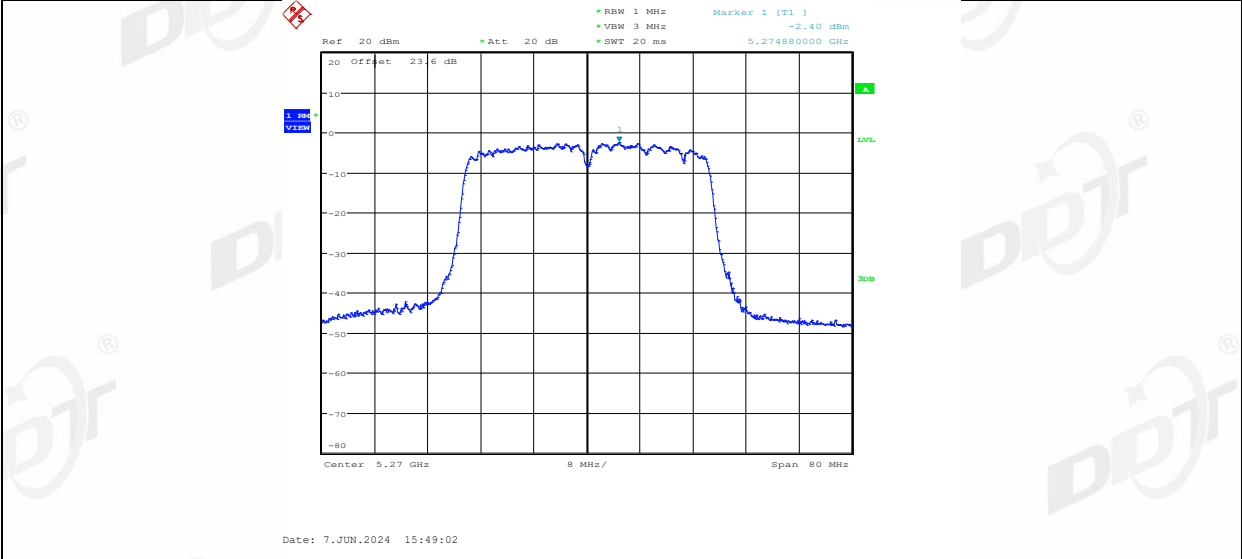
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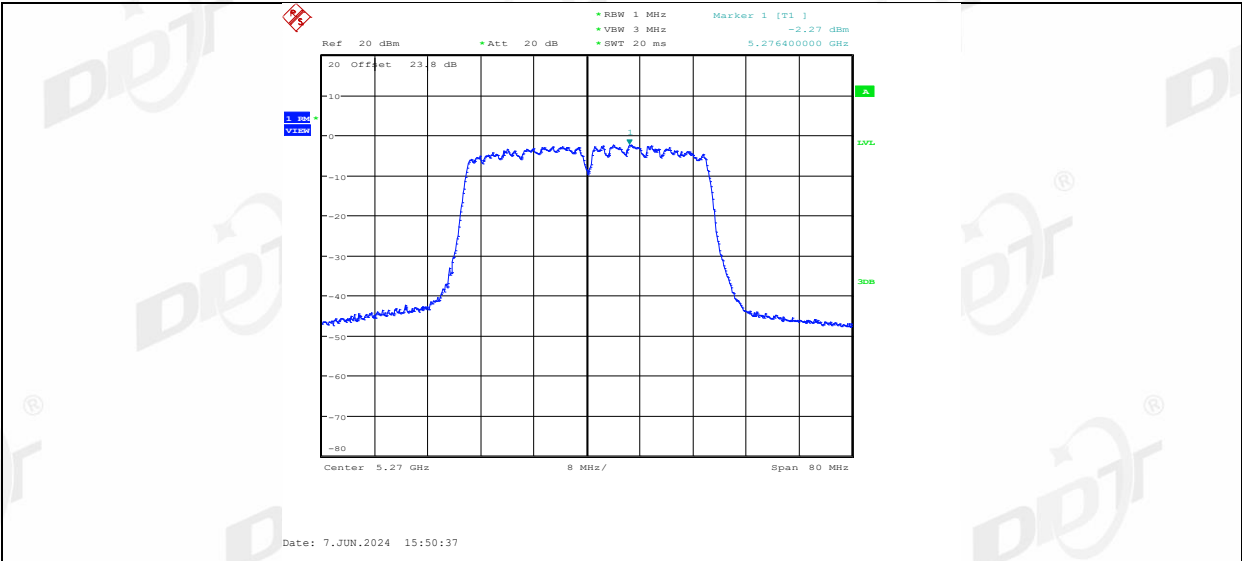
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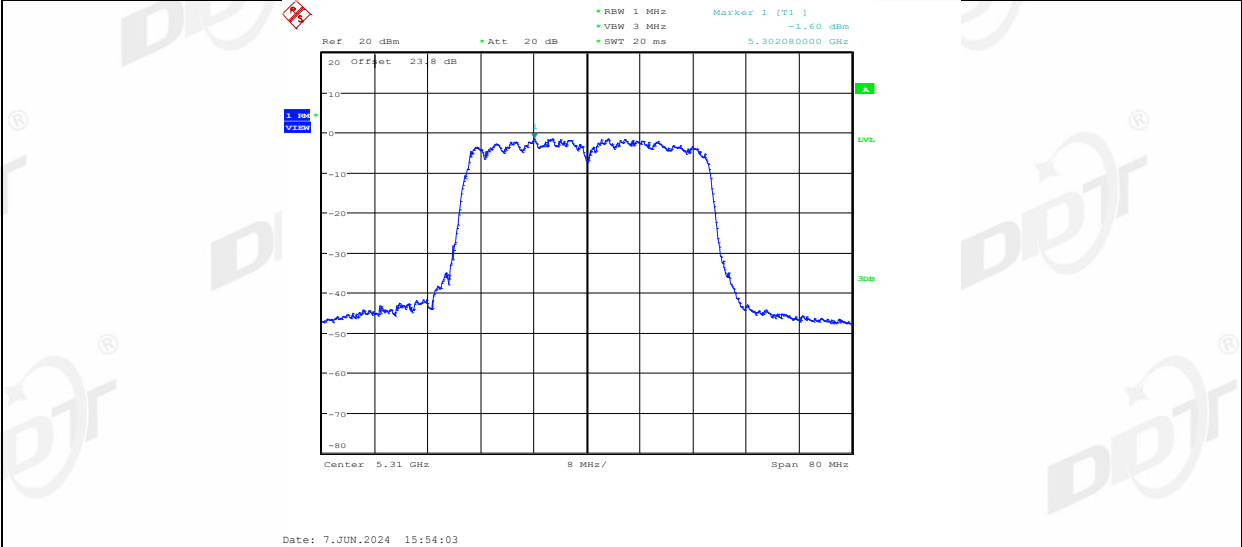
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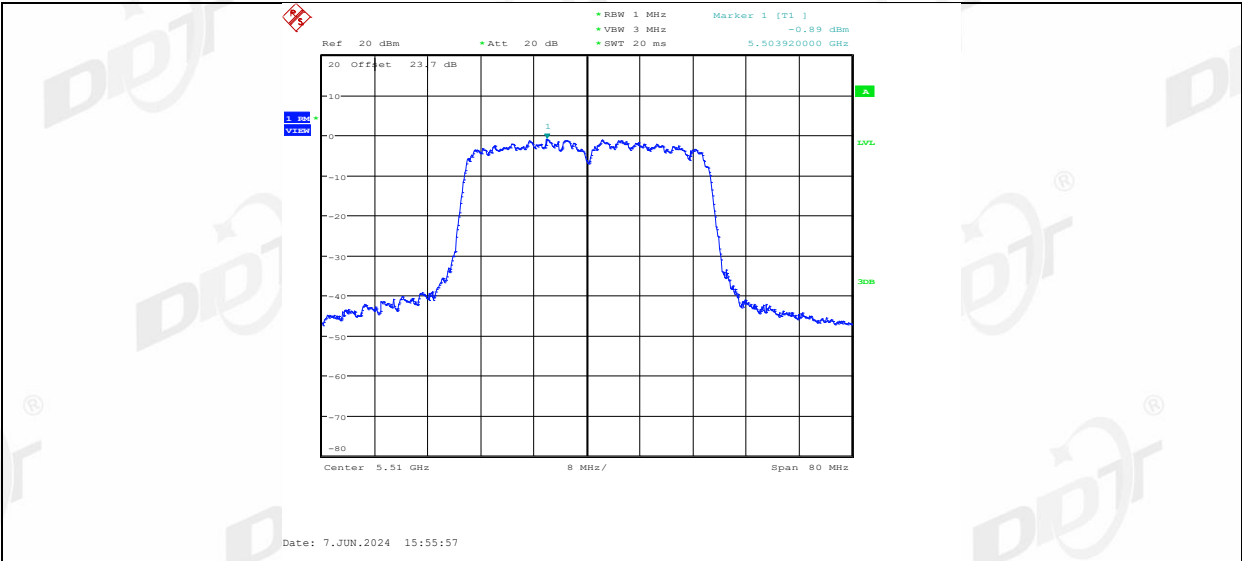
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11AC40MIMO_Ant2_5310



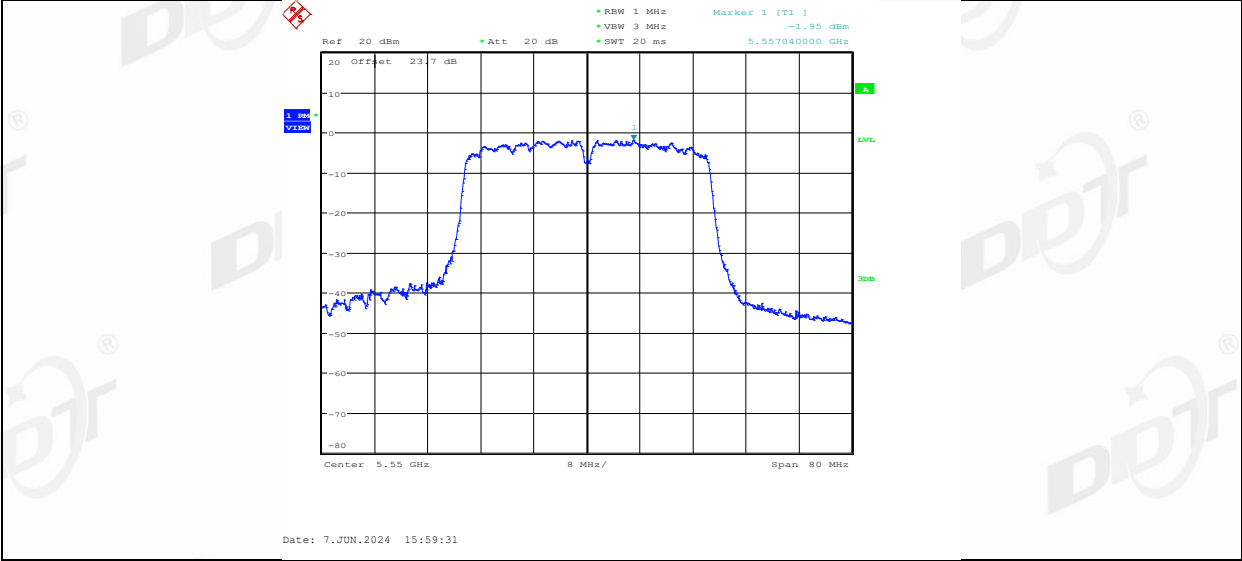
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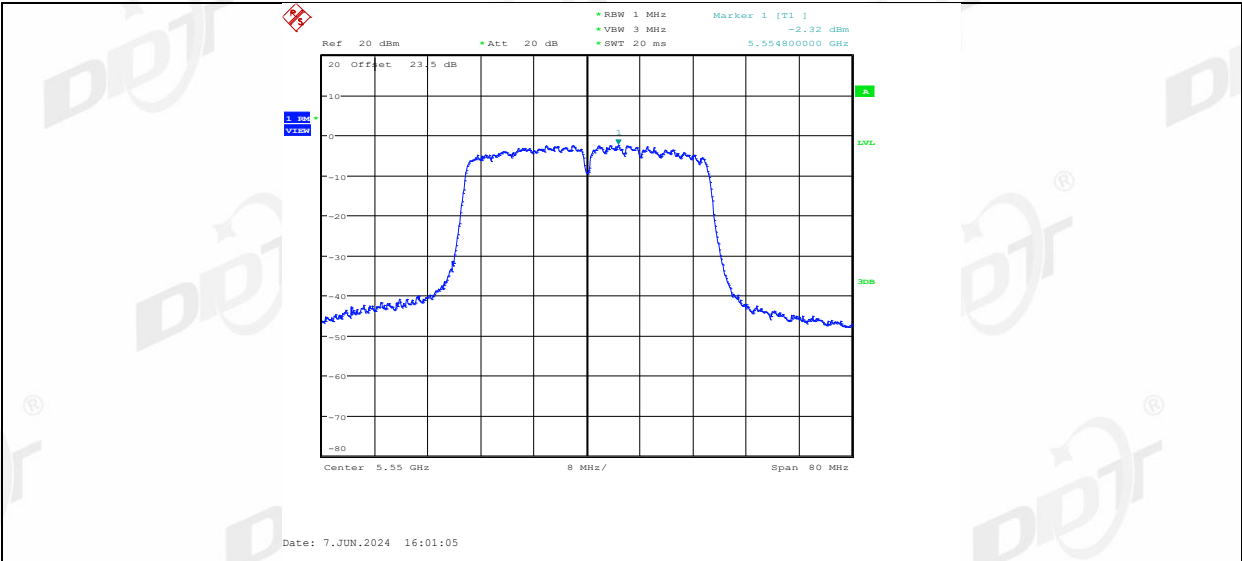
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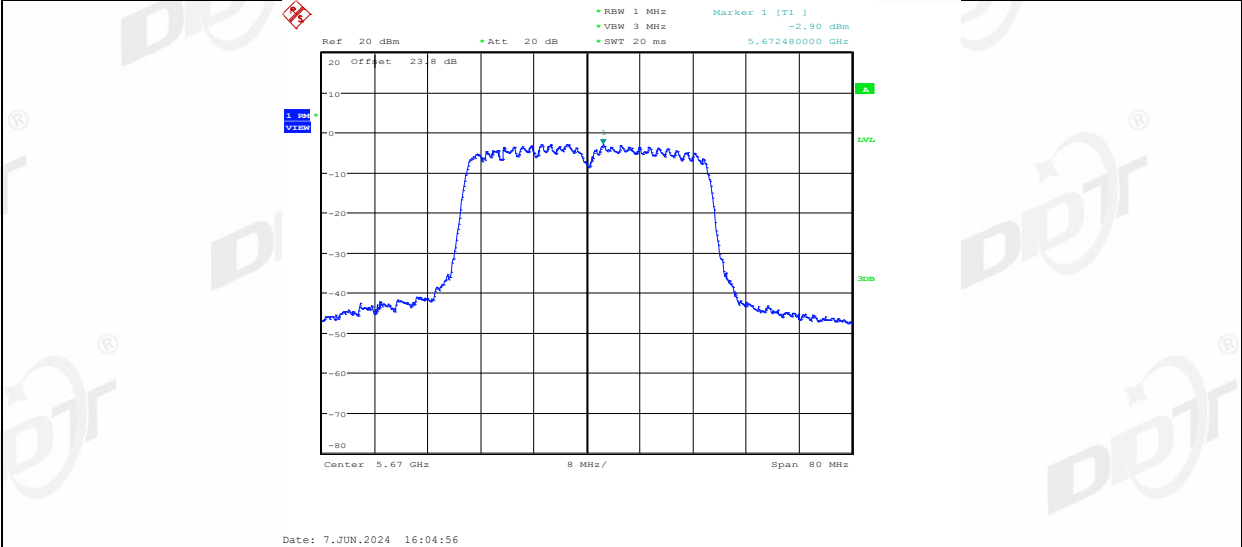
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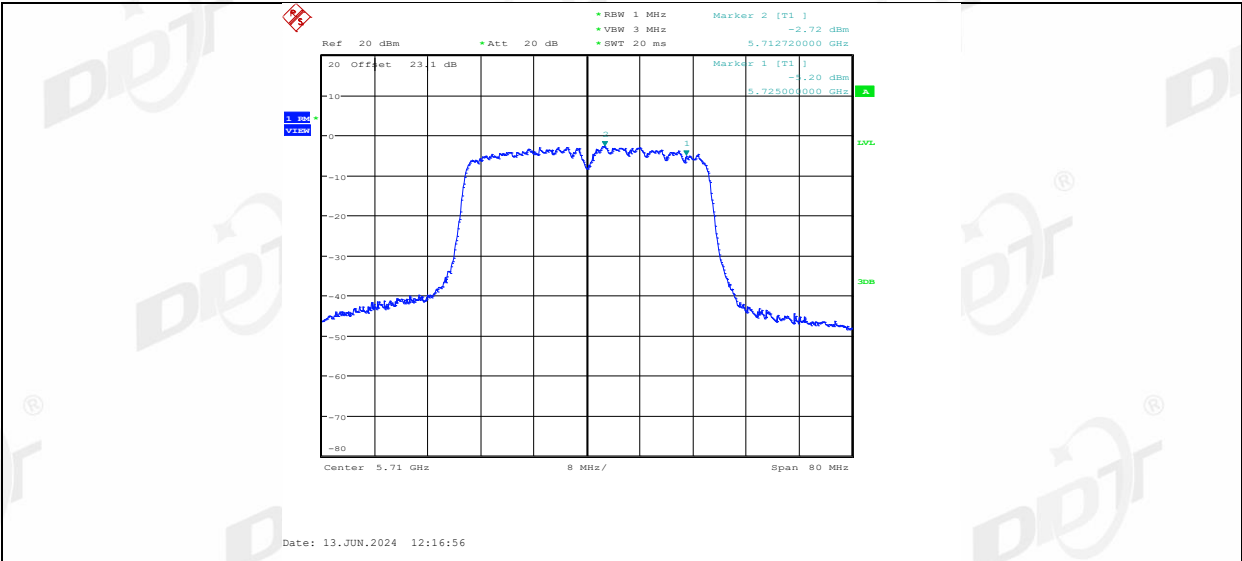
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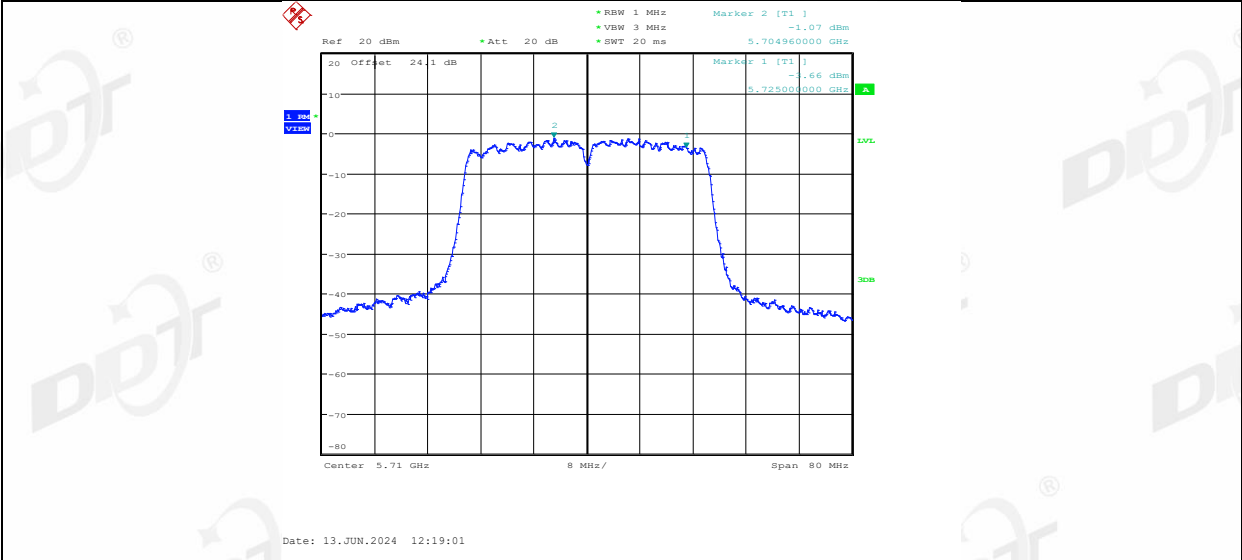
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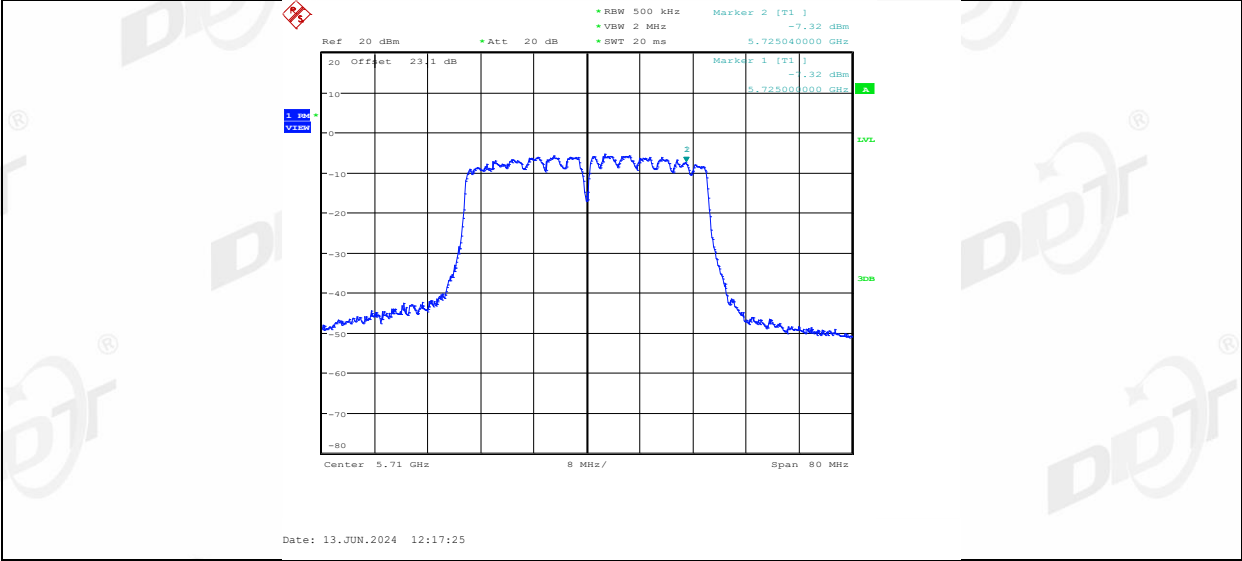
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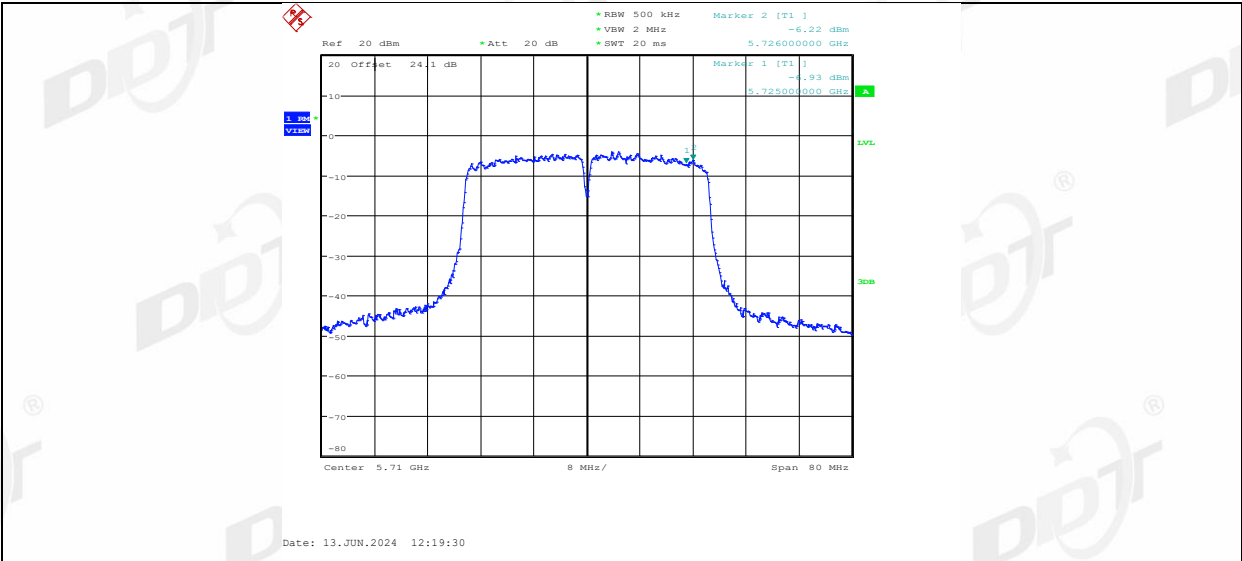
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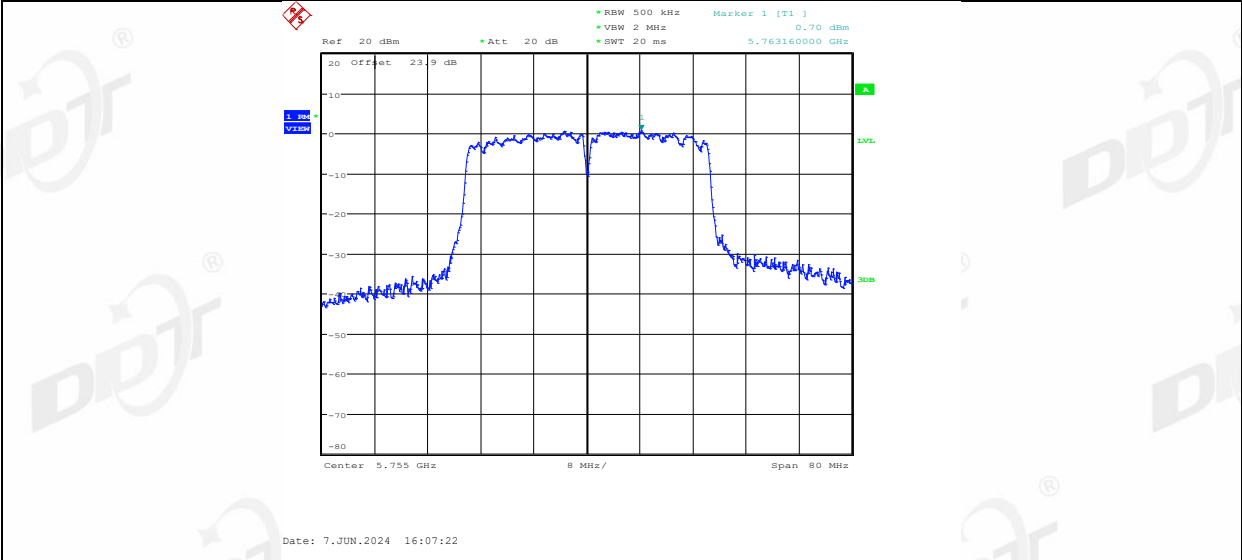
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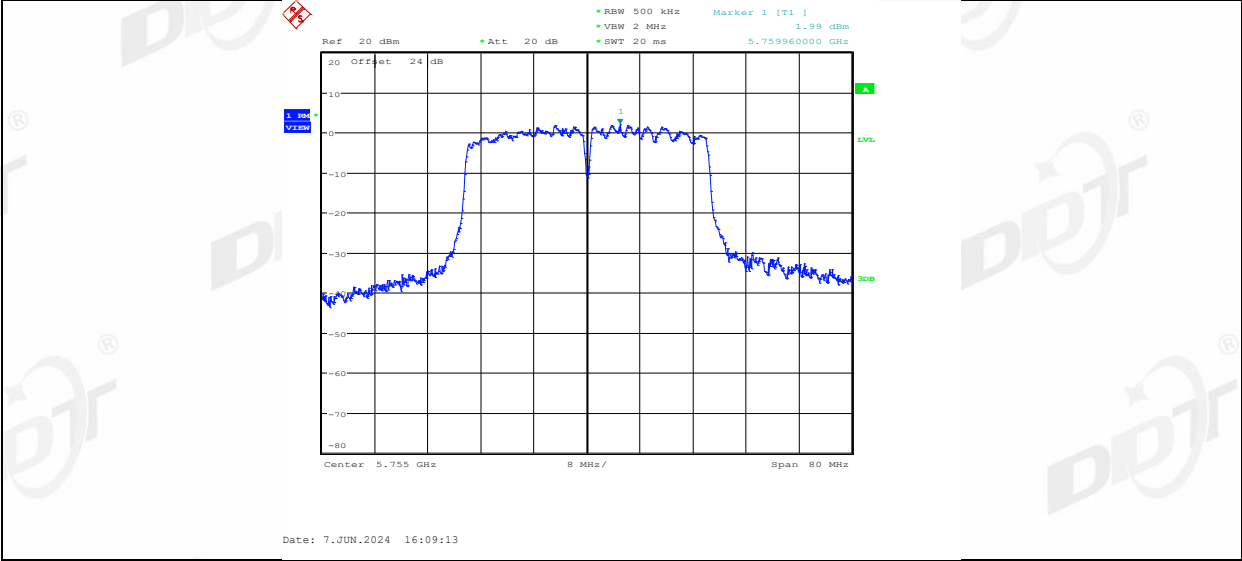
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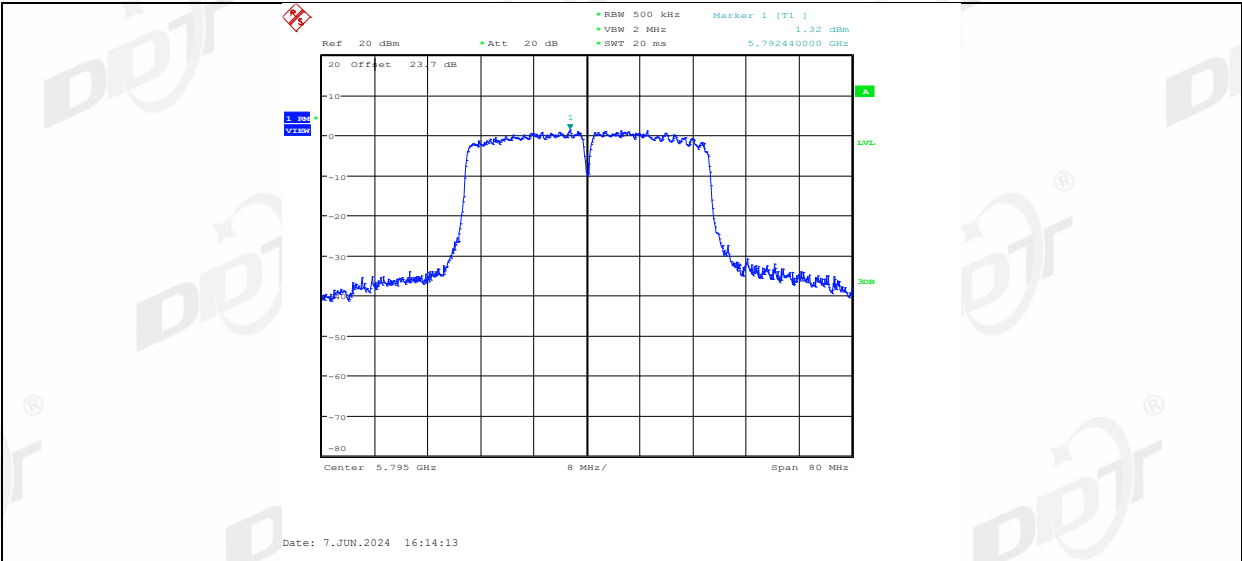
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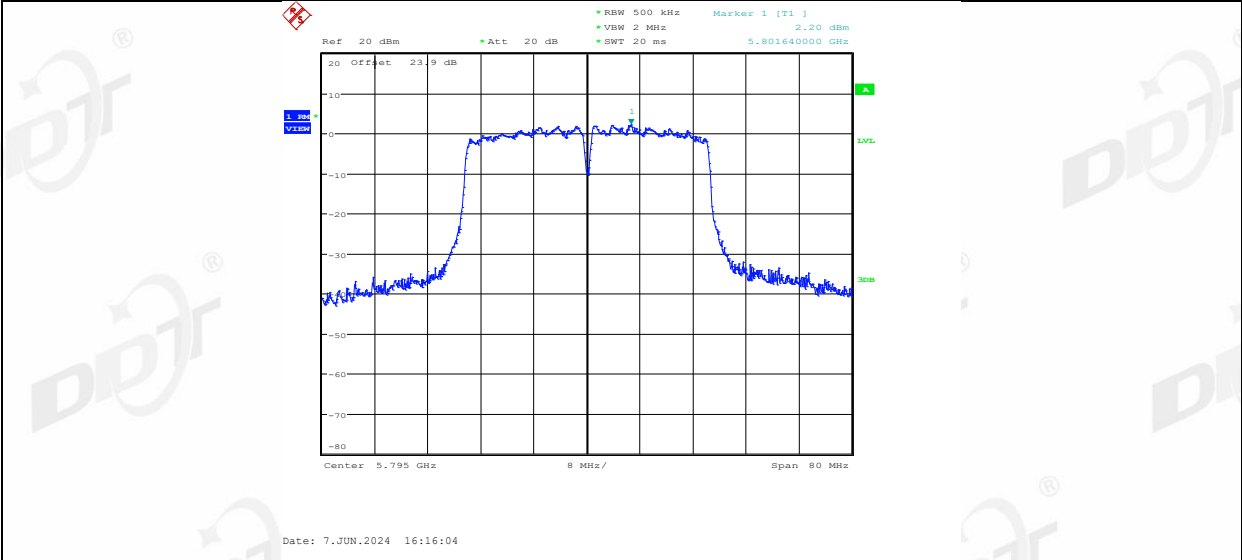
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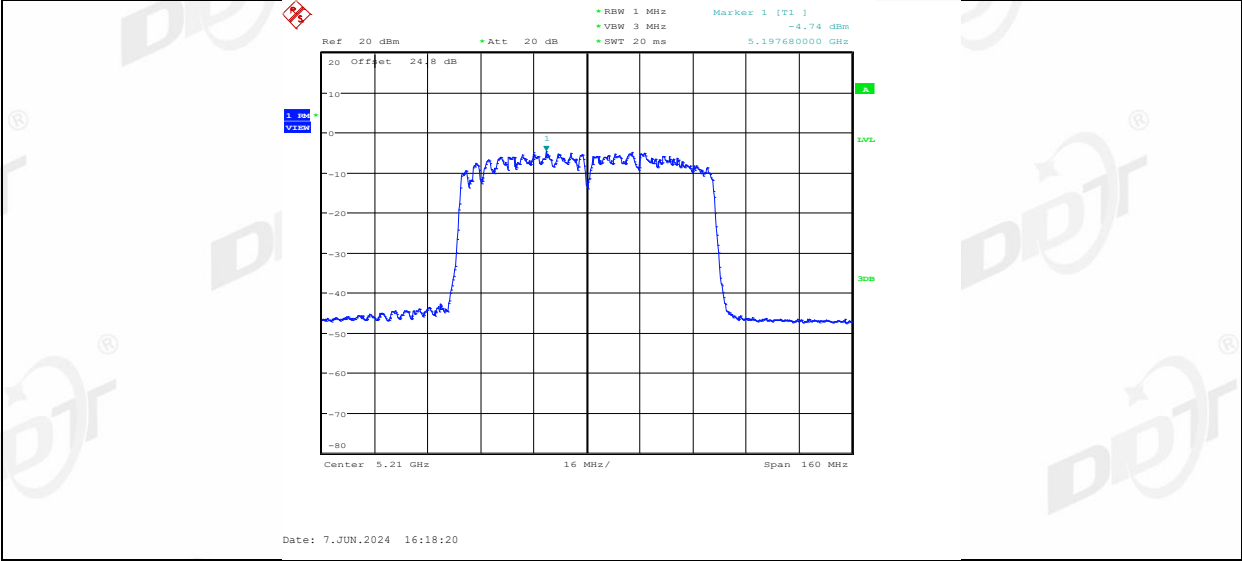
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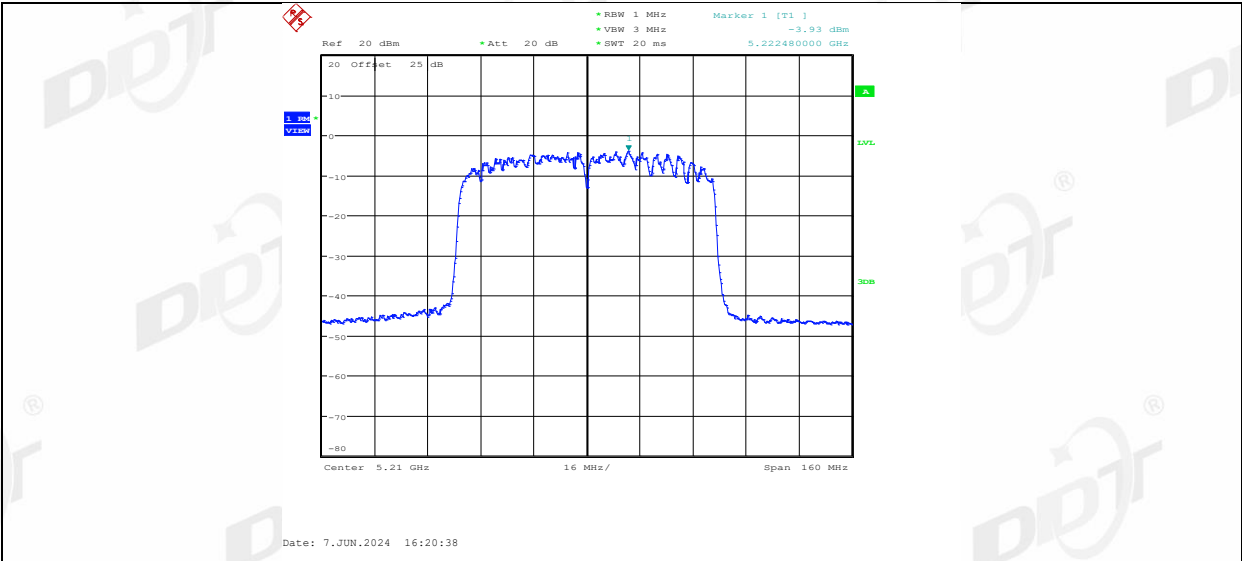
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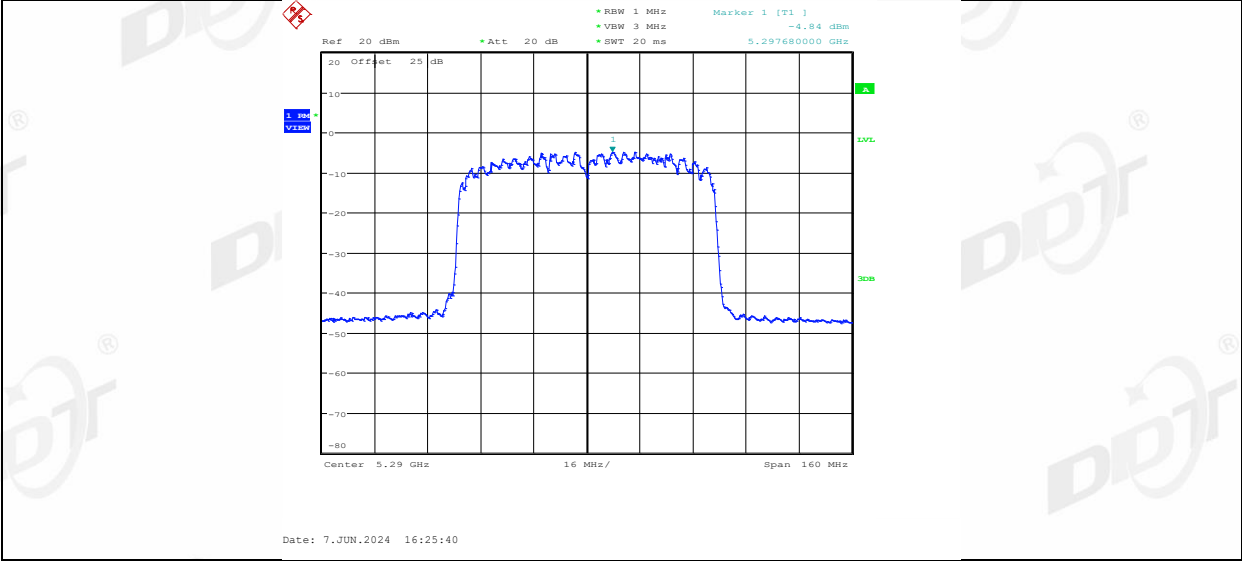
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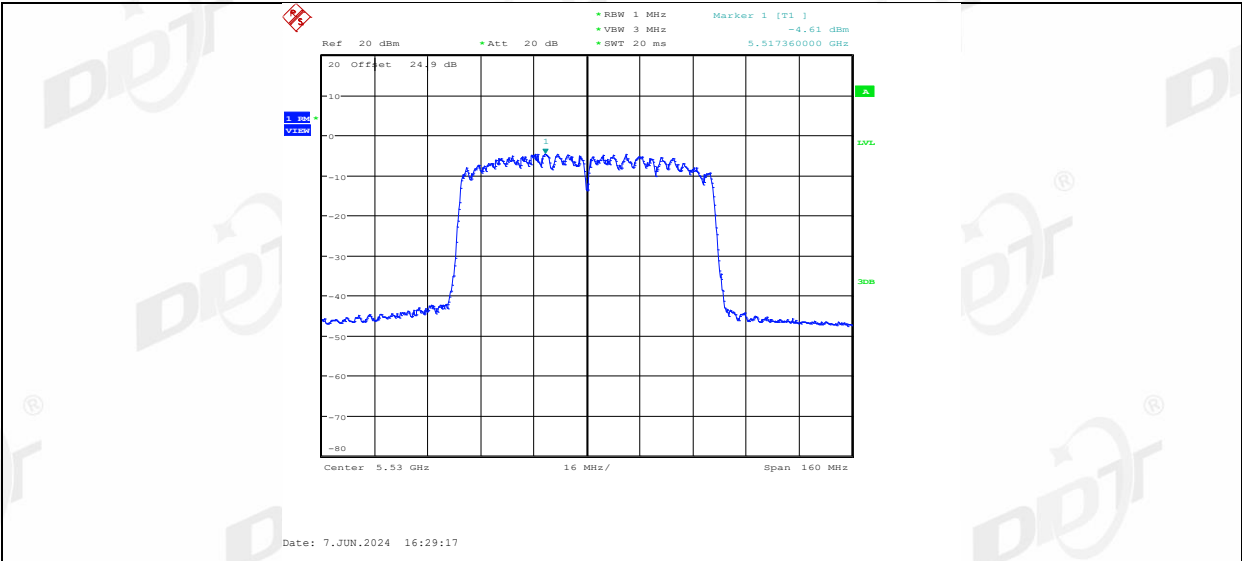
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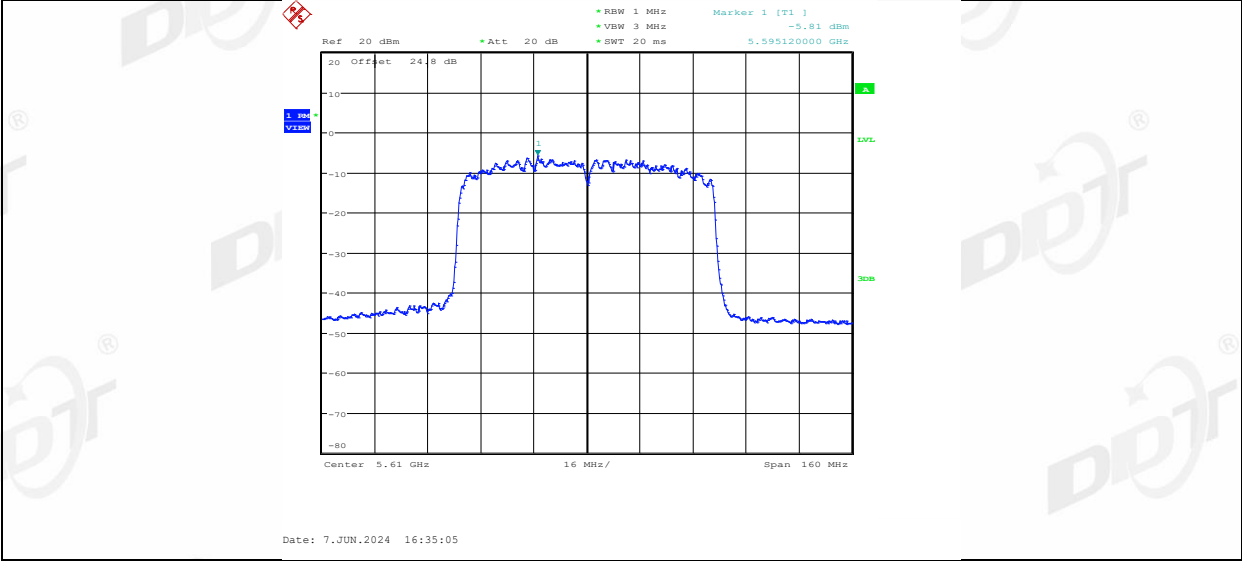
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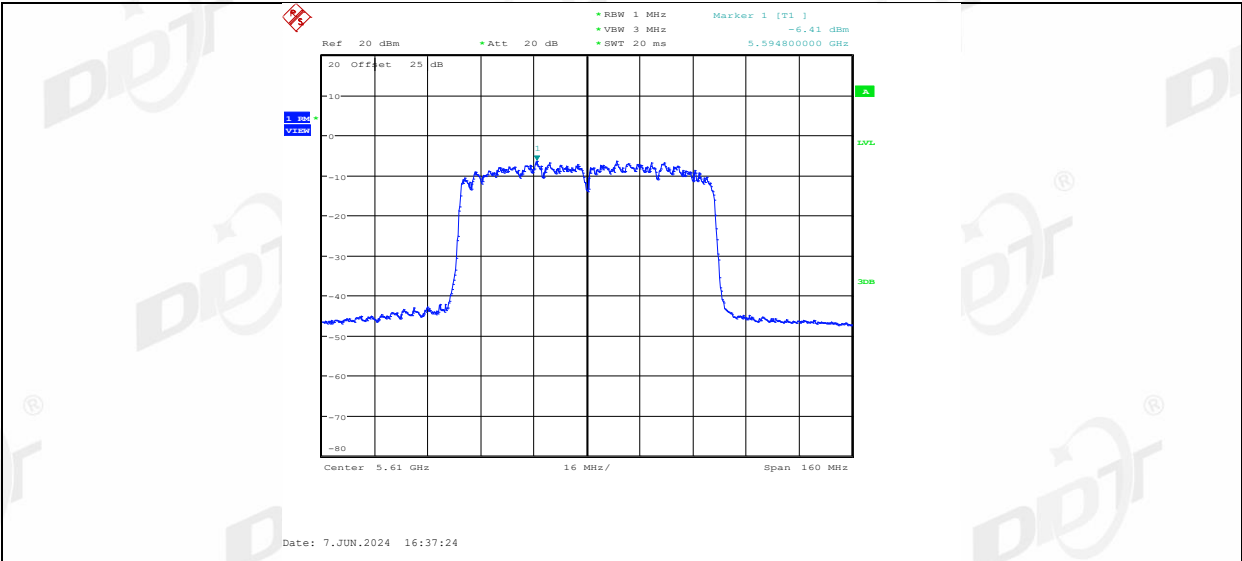
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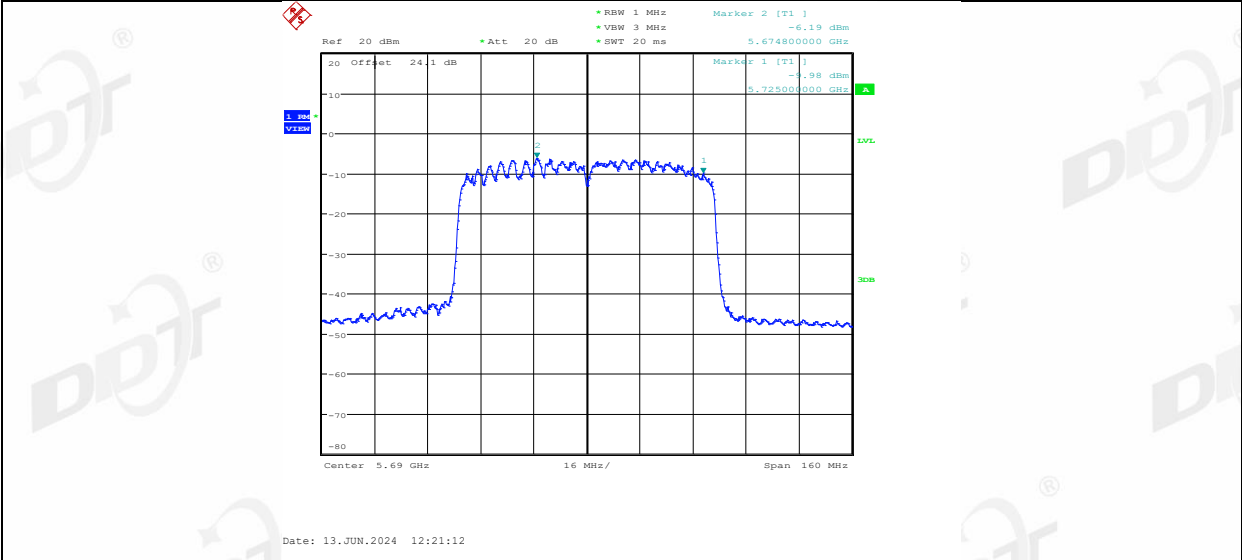
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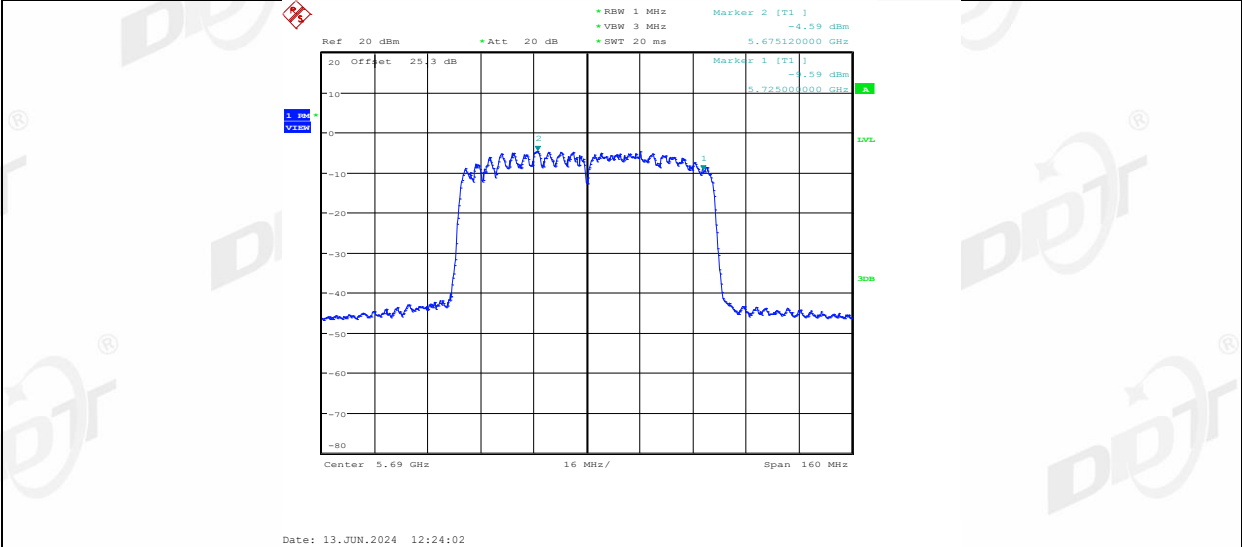
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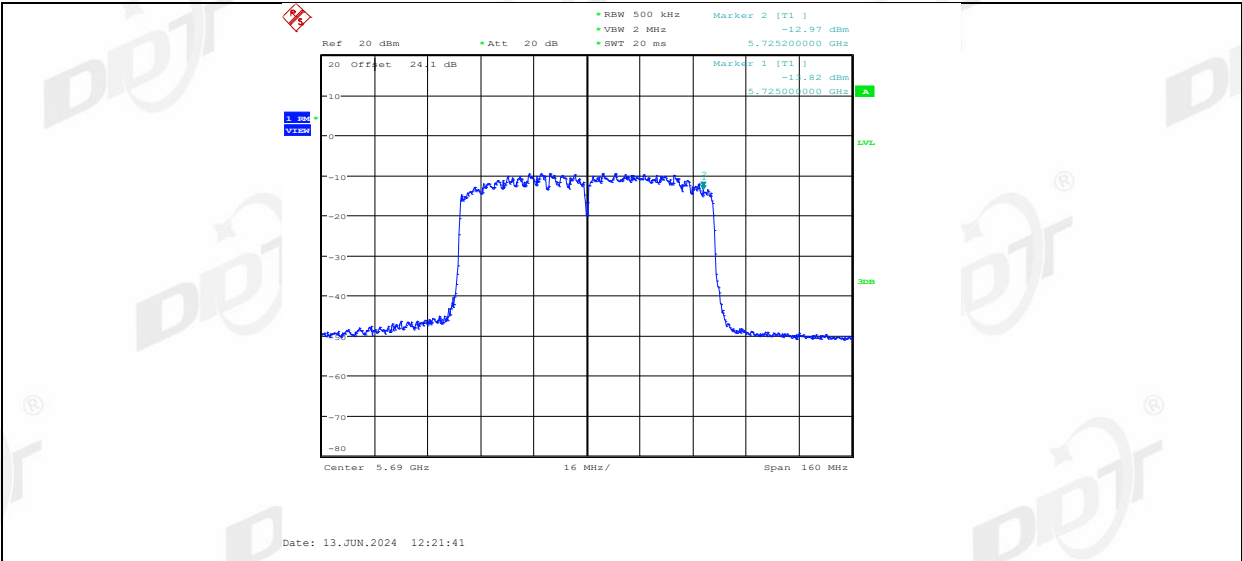
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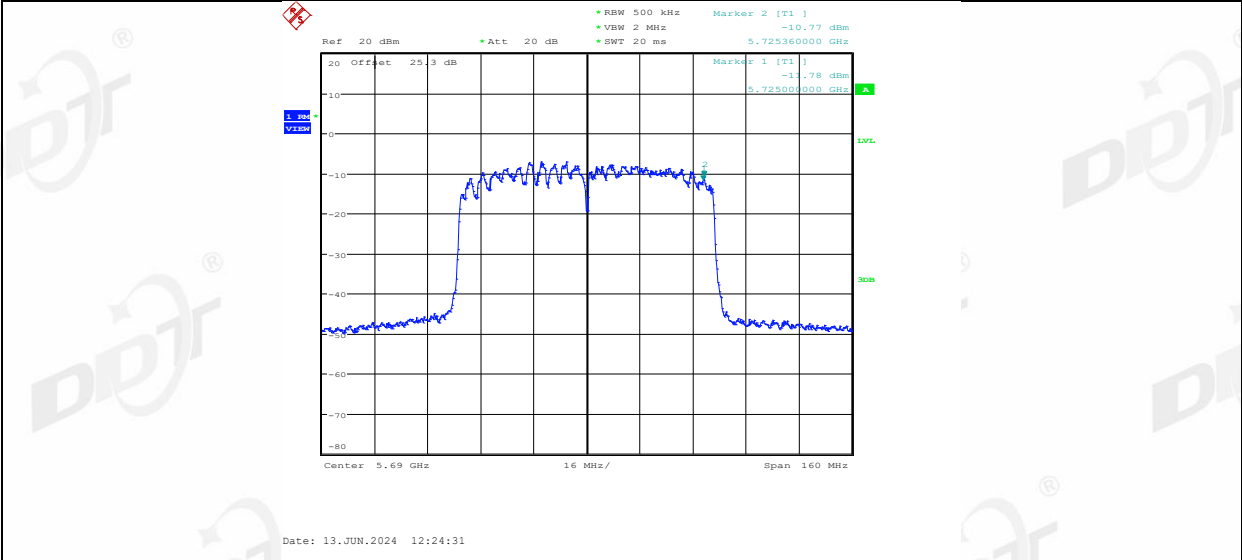
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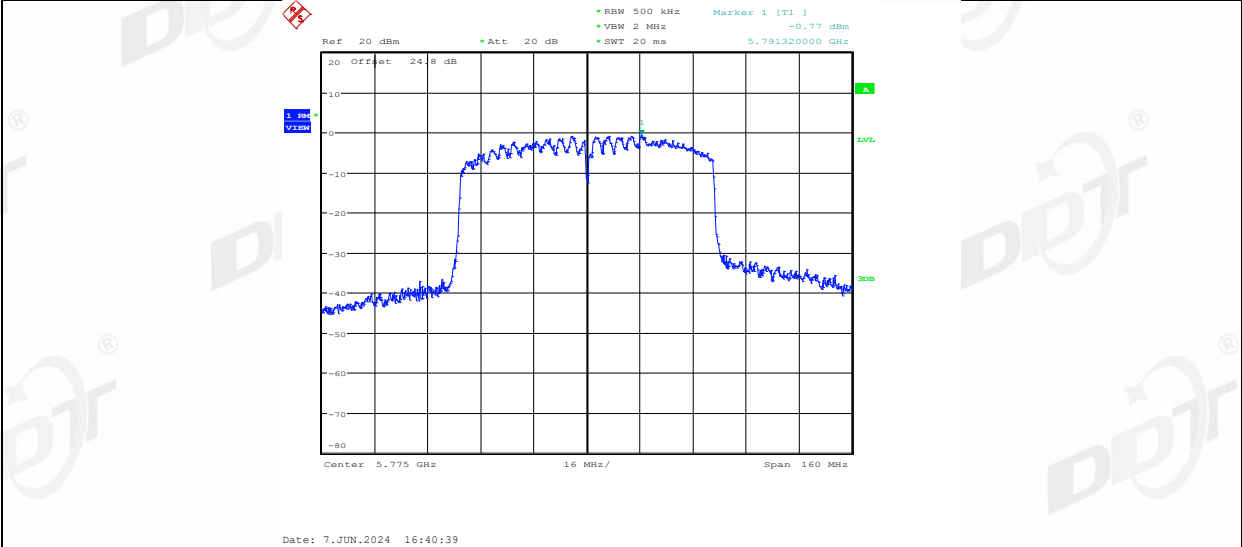
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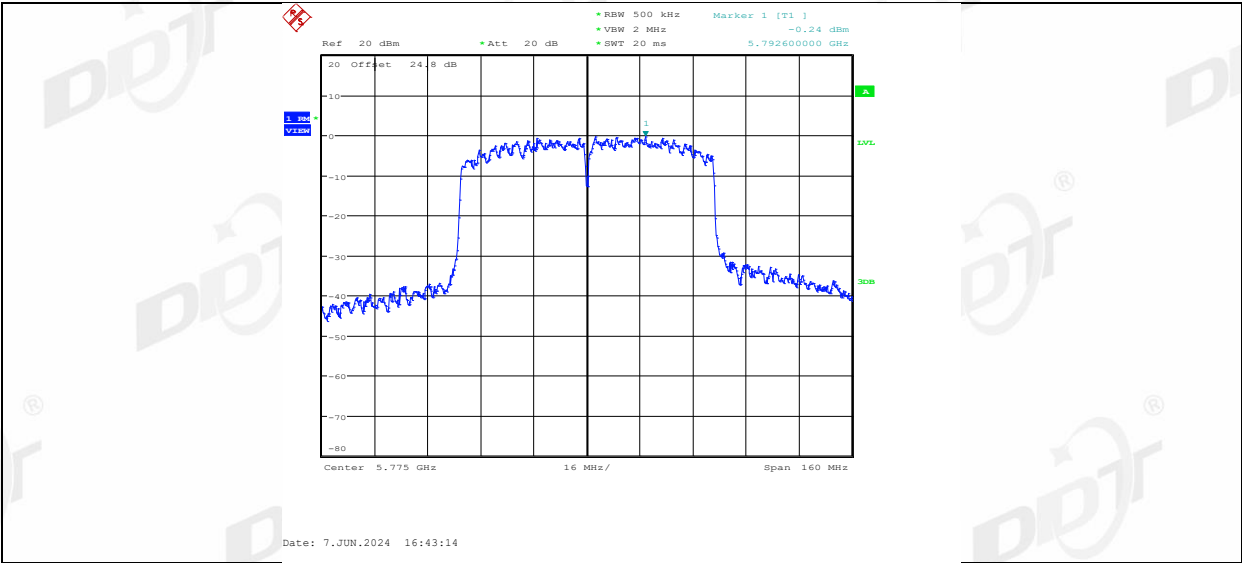
11AC80MIMO Ant2_5690_UNII-3



11AC80MIMO Ant1_5775



11AC80MIMO Ant2_5775



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.

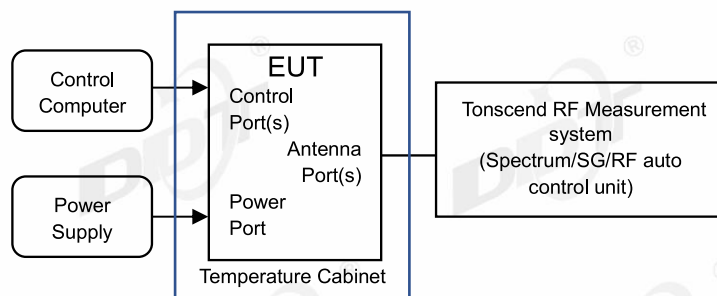
10.2. Measuring Instruments

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

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	25.1℃,52.5%RH	Test Date:	2024.06.05-2024.06.14
Test Power Supply:	DC 12V	Sample Number:	S24042530-001

Voltage								
Test Mode	Antenna	Frequency[MHz]	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.861004	20	PASS
			HV	NT	60000.00	11.583012	20	PASS
	Ant2	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5200	NV	NT	20000.00	3.846154	20	PASS
			LV	NT	40000.00	7.692308	20	PASS
			HV	NT	20000.00	3.846154	20	PASS
	Ant2	5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.846154	20	PASS
	Ant1	5240	NV	NT	60000.00	11.450382	20	PASS
			LV	NT	20000.00	3.816794	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5260	NV	NT	20000.00	3.802281	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	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	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.787879	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	0.00	0.000000	20	PASS
	Ant1	5500	NV	NT	40000.00	7.272727	20	PASS
			LV	NT	40000.00	7.272727	20	PASS
			HV	NT	40000.00	7.272727	20	PASS
	Ant2	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
	Ant1	5580	NV	NT	40000.00	7.168459	20	PASS
			LV	NT	40000.00	7.168459	20	PASS
			HV	NT	40000.00	7.168459	20	PASS
	Ant2	5580	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	5700	NV	NT	40000.00	7.017544	20	PASS
			LV	NT	20000.00	3.508772	20	PASS
			HV	NT	20000.00	3.508772	20	PASS
	Ant2	5700	NV	NT	20000.00	3.508772	20	PASS
			LV	NT	20000.00	3.508772	20	PASS

	Ant1	5720	HV	NT	20000.00	3.508772	20	PASS
			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	-20000.00	-3.481288	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5745	NV	NT	40000.00	6.962576	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	20000.00	3.457217	20	PASS
	Ant2	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
	Ant1	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
	Ant2	5825	NV	NT	20000.00	3.433476	20	PASS
			LV	NT	40000.00	6.866953	20	PASS
			HV	NT	20000.00	3.433476	20	PASS
11N40MIMO	Ant1	5190	NV	NT	40000.00	7.707129	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	40000.00	7.707129	20	PASS
	Ant2	5190	NV	NT	40000.00	7.707129	20	PASS
			LV	NT	80000.00	15.414258	20	PASS
			HV	NT	80000.00	15.414258	20	PASS
	Ant1	5230	NV	NT	40000.00	7.648184	20	PASS
			LV	NT	40000.00	7.648184	20	PASS
			HV	NT	80000.00	15.296367	20	PASS
	Ant2	5230	NV	NT	80000.00	15.296367	20	PASS
			LV	NT	40000.00	7.648184	20	PASS
			HV	NT	40000.00	7.648184	20	PASS
	Ant1	5270	NV	NT	40000.00	7.590133	20	PASS
			LV	NT	80000.00	15.180266	20	PASS
			HV	NT	80000.00	15.180266	20	PASS
	Ant2	5270	NV	NT	80000.00	15.180266	20	PASS
			LV	NT	80000.00	15.180266	20	PASS
			HV	NT	40000.00	7.590133	20	PASS
	Ant1	5310	NV	NT	80000.00	15.065913	20	PASS
			LV	NT	80000.00	15.065913	20	PASS
			HV	NT	40000.00	7.532957	20	PASS
	Ant2	5310	NV	NT	80000.00	15.065913	20	PASS
			LV	NT	80000.00	15.065913	20	PASS
			HV	NT	80000.00	15.065913	20	PASS
	Ant1	5510	NV	NT	40000.00	7.259528	20	PASS
			LV	NT	80000.00	14.519056	20	PASS
			HV	NT	40000.00	7.259528	20	PASS
	Ant2	5510	NV	NT	80000.00	14.519056	20	PASS
			LV	NT	40000.00	7.259528	20	PASS
			HV	NT	80000.00	14.519056	20	PASS
	Ant1	5550	NV	NT	80000.00	14.414414	20	PASS
			LV	NT	80000.00	14.414414	20	PASS
			HV	NT	80000.00	14.414414	20	PASS
	Ant2	5550	NV	NT	80000.00	14.414414	20	PASS
			LV	NT	80000.00	14.414414	20	PASS
			HV	NT	80000.00	14.414414	20	PASS
	Ant1	5670	NV	NT	80000.00	14.109347	20	PASS
			LV	NT	80000.00	14.109347	20	PASS
			HV	NT	80000.00	14.109347	20	PASS

	Ant2	5670	NV	NT	40000.00	7.054674	20	PASS
			LV	NT	80000.00	14.109347	20	PASS
			HV	NT	40000.00	7.054674	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	-40000.00	-7.005254	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5755	NV	NT	80000.00	13.900956	20	PASS
			LV	NT	80000.00	13.900956	20	PASS
			HV	NT	80000.00	14.109347	20	PASS
	Ant2	5755	NV	NT	80000.00	14.109347	20	PASS
			LV	NT	80000.00	14.109347	20	PASS
			HV	NT	80000.00	14.109347	20	PASS
	Ant1	5795	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	5795	NV	NT	40000.00	6.902502	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC80MIM O	Ant1	5210	NV	NT	80000.00	14.109347	20	PASS
			LV	NT	80000.00	15.355086	20	PASS
			HV	NT	80000.00	15.355086	20	PASS
	Ant2	5210	NV	NT	80000.00	15.355086	20	PASS
			LV	NT	80000.00	14.109347	20	PASS
			HV	NT	80000.00	15.355086	20	PASS
	Ant1	5290	NV	NT	0.00	0.000000	20	PASS
			LV	NT	80000.00	14.109347	20	PASS
			HV	NT	80000.00	14.109347	20	PASS
	Ant2	5290	NV	NT	80000.00	14.109347	20	PASS
			LV	NT	80000.00	14.109347	20	PASS
			HV	NT	80000.00	14.109347	20	PASS
	Ant1	5530	NV	NT	80000.00	14.466546	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	80000.00	14.109347	20	PASS
	Ant2	5530	NV	NT	80000.00	14.109347	20	PASS
			LV	NT	80000.00	14.109347	20	PASS
			HV	NT	80000.00	14.109347	20	PASS
	Ant1	5610	NV	NT	80000.00	14.260250	20	PASS
			LV	NT	80000.00	14.260250	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5610	NV	NT	80000.00	14.109347	20	PASS
			LV	NT	80000.00	14.260250	20	PASS
			HV	NT	80000.00	14.109347	20	PASS
	Ant1	5690	NV	NT	-80000.00	-14.059754	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5690	NV	NT	80000.00	14.059754	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	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[MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.861004	20	PASS

			NV	20	40000.00	7.722008	20	PASS
			NV	30	20000.00	3.861004	20	PASS
			NV	40	20000.00	3.861004	20	PASS
Ant2	5180		NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.861004	20	PASS
			NV	30	20000.00	3.861004	20	PASS
			NV	40	0.00	0.000000	20	PASS
Ant1	5200		NV	0	20000.00	3.846154	20	PASS
			NV	10	40000.00	7.692308	20	PASS
			NV	20	40000.00	7.692308	20	PASS
			NV	30	60000.00	11.538462	20	PASS
			NV	40	40000.00	7.692308	20	PASS
Ant2	5200		NV	0	-20000.00	-3.846154	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.846154	20	PASS
			NV	40	20000.00	3.846154	20	PASS
Ant1	5240		NV	0	40000.00	7.633588	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.816794	20	PASS
			NV	30	20000.00	3.816794	20	PASS
			NV	40	20000.00	3.816794	20	PASS
Ant2	5240		NV	0	20000.00	3.816794	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.816794	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
Ant1	5260		NV	0	20000.00	3.802281	20	PASS
			NV	10	40000.00	7.604563	20	PASS
			NV	20	20000.00	3.802281	20	PASS
			NV	30	20000.00	3.802281	20	PASS
			NV	40	20000.00	3.802281	20	PASS
Ant2	5260		NV	0	20000.00	3.802281	20	PASS
			NV	10	20000.00	3.802281	20	PASS
			NV	20	20000.00	3.802281	20	PASS
			NV	30	20000.00	3.802281	20	PASS
			NV	40	20000.00	3.802281	20	PASS
Ant1	5280		NV	0	20000.00	3.787879	20	PASS
			NV	10	40000.00	7.575758	20	PASS
			NV	20	40000.00	7.575758	20	PASS
			NV	30	20000.00	3.787879	20	PASS
			NV	40	20000.00	3.787879	20	PASS
Ant2	5280		NV	0	20000.00	3.787879	20	PASS
			NV	10	20000.00	3.787879	20	PASS
			NV	20	20000.00	3.787879	20	PASS
			NV	30	20000.00	3.787879	20	PASS
			NV	40	0.00	0.000000	20	PASS
Ant1	5320		NV	0	20000.00	3.759398	20	PASS
			NV	10	20000.00	3.759398	20	PASS
			NV	20	20000.00	3.759398	20	PASS
			NV	30	20000.00	3.759398	20	PASS
			NV	40	20000.00	3.759398	20	PASS
Ant2	5320		NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.759398	20	PASS
			NV	20	20000.00	3.759398	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
Ant1	5500		NV	0	20000.00	3.636364	20	PASS
			NV	10	40000.00	7.272727	20	PASS
			NV	20	20000.00	3.636364	20	PASS
			NV	30	40000.00	7.272727	20	PASS
			NV	40	0.00	0.000000	20	PASS
Ant2	5500		NV	0	20000.00	3.636364	20	PASS

			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.636364	20	PASS
			NV	30	20000.00	3.636364	20	PASS
			NV	40	20000.00	3.636364	20	PASS
Ant1	5580		NV	0	40000.00	7.168459	20	PASS
			NV	10	40000.00	7.168459	20	PASS
			NV	20	20000.00	3.584229	20	PASS
			NV	30	20000.00	3.584229	20	PASS
			NV	40	40000.00	7.168459	20	PASS
			NV	0	20000.00	3.584229	20	PASS
			NV	10	20000.00	3.584229	20	PASS
			NV	20	0.00	0.000000	20	PASS
Ant2	5580		NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.584229	20	PASS
			NV	0	20000.00	3.508772	20	PASS
			NV	10	20000.00	3.508772	20	PASS
			NV	20	20000.00	3.508772	20	PASS
			NV	30	40000.00	7.017544	20	PASS
			NV	40	40000.00	7.017544	20	PASS
			NV	0	20000.00	3.508772	20	PASS
Ant2	5700		NV	10	20000.00	3.508772	20	PASS
			NV	20	20000.00	3.508772	20	PASS
			NV	30	20000.00	3.508772	20	PASS
			NV	40	20000.00	3.508772	20	PASS
			NV	0	-20000.00	-3.496503	20	PASS
			NV	10	-40000.00	-6.993007	20	PASS
			NV	20	-40000.00	-6.993007	20	PASS
			NV	30	-40000.00	-6.993007	20	PASS
Ant1	5720		NV	40	-20000.00	-3.496503	20	PASS
			NV	0	-40000.00	-6.993007	20	PASS
			NV	10	-20000.00	-3.496503	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.496503	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.481288	20	PASS
Ant1	5745		NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	20000.00	3.481288	20	PASS
			NV	10	20000.00	3.481288	20	PASS
			NV	20	20000.00	3.481288	20	PASS
			NV	30	40000.00	6.962576	20	PASS
			NV	40	20000.00	3.481288	20	PASS
			NV	0	20000.00	3.457217	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
Ant1	5785		NV	40	0.00	0.000000	20	PASS
			NV	0	20000.00	3.457217	20	PASS
			NV	10	40000.00	6.914434	20	PASS
			NV	20	20000.00	3.457217	20	PASS
			NV	30	40000.00	6.914434	20	PASS
			NV	40	20000.00	3.457217	20	PASS
			NV	0	-20000.00	-3.433476	20	PASS
			NV	10	0.00	0.000000	20	PASS
Ant1	5825		NV	20	20000.00	3.433476	20	PASS
			NV	30	20000.00	3.433476	20	PASS
			NV	40	20000.00	3.433476	20	PASS
			NV	0	20000.00	3.433476	20	PASS
			NV	10	20000.00	3.433476	20	PASS
			NV	20	40000.00	6.866953	20	PASS
			NV	30	40000.00	6.866953	20	PASS
			NV	40	20000.00	3.433476	20	PASS

11N40MIMO	Ant1	5190	NV	0	80000.00	15.414258	20	PASS
			NV	10	80000.00	15.414258	20	PASS
			NV	20	40000.00	7.707129	20	PASS
			NV	30	40000.00	7.707129	20	PASS
			NV	40	40000.00	7.707129	20	PASS
	Ant2	5190	NV	0	80000.00	15.414258	20	PASS
			NV	10	40000.00	7.707129	20	PASS
			NV	20	80000.00	15.414258	20	PASS
			NV	30	80000.00	15.414258	20	PASS
			NV	40	40000.00	7.707129	20	PASS
	Ant1	5230	NV	0	0.00	0.000000	20	PASS
			NV	10	40000.00	7.648184	20	PASS
			NV	20	20000.00	3.846154	20	PASS
			NV	30	40000.00	7.692308	20	PASS
			NV	40	80000.00	15.296367	20	PASS
	Ant2	5230	NV	0	40000.00	7.648184	20	PASS
			NV	10	80000.00	15.296367	20	PASS
			NV	20	80000.00	15.296367	20	PASS
			NV	30	40000.00	7.648184	20	PASS
			NV	40	40000.00	7.648184	20	PASS
	Ant1	5270	NV	0	40000.00	7.590133	20	PASS
			NV	10	40000.00	7.590133	20	PASS
			NV	20	80000.00	15.180266	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant2	5270	NV	0	80000.00	15.180266	20	PASS
			NV	10	40000.00	7.590133	20	PASS
			NV	20	80000.00	15.180266	20	PASS
			NV	30	80000.00	15.180266	20	PASS
			NV	40	40000.00	7.590133	20	PASS
	Ant1	5310	NV	0	40000.00	7.532957	20	PASS
			NV	10	40000.00	7.532957	20	PASS
			NV	20	40000.00	7.532957	20	PASS
			NV	30	40000.00	7.532957	20	PASS
			NV	40	80000.00	15.065913	20	PASS
	Ant2	5310	NV	0	20000.00	3.846154	20	PASS
			NV	10	40000.00	7.692308	20	PASS
			NV	20	40000.00	7.532957	20	PASS
			NV	30	80000.00	15.065913	20	PASS
			NV	40	80000.00	15.065913	20	PASS
	Ant1	5510	NV	0	40000.00	7.259528	20	PASS
			NV	10	80000.00	15.065913	20	PASS
			NV	20	40000.00	7.259528	20	PASS
			NV	30	80000.00	14.519056	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant2	5510	NV	0	80000.00	14.519056	20	PASS
			NV	10	40000.00	7.259528	20	PASS
			NV	20	80000.00	14.519056	20	PASS
			NV	30	80000.00	14.519056	20	PASS
			NV	40	80000.00	14.519056	20	PASS
	Ant1	5550	NV	0	80000.00	14.414414	20	PASS
			NV	10	80000.00	14.414414	20	PASS
			NV	20	80000.00	14.414414	20	PASS
			NV	30	80000.00	14.414414	20	PASS
			NV	40	40000.00	7.207207	20	PASS
	Ant2	5550	NV	0	80000.00	14.414414	20	PASS
			NV	10	80000.00	14.414414	20	PASS
			NV	20	40000.00	7.207207	20	PASS
			NV	30	80000.00	14.414414	20	PASS
			NV	40	40000.00	7.207207	20	PASS
	Ant1	5670	NV	0	80000.00	14.109347	20	PASS
			NV	10	80000.00	14.109347	20	PASS
			NV	20	80000.00	14.109347	20	PASS
			NV	30	80000.00	14.109347	20	PASS

11AC80MIM O	Ant2	5670	NV	40	80000.00	14.109347	20	PASS
			NV	0	40000.00	7.054674	20	PASS
			NV	10	40000.00	7.054674	20	PASS
			NV	20	80000.00	14.109347	20	PASS
			NV	30	40000.00	7.054674	20	PASS
			NV	40	80000.00	14.109347	20	PASS
	Ant1	5710	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant2	5710	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant1	5755	NV	0	80000.00	13.900956	20	PASS
			NV	10	80000.00	15.065913	20	PASS
			NV	20	40000.00	7.259528	20	PASS
			NV	30	80000.00	15.065913	20	PASS
			NV	40	40000.00	7.259528	20	PASS
	Ant2	5755	NV	0	80000.00	15.065913	20	PASS
			NV	10	40000.00	7.259528	20	PASS
			NV	20	80000.00	15.065913	20	PASS
			NV	30	40000.00	7.259528	20	PASS
			NV	40	80000.00	15.065913	20	PASS
	Ant1	5795	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant2	5795	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	40000.00	6.902502	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	6.902502	20	PASS
	Ant1	5210	NV	0	80000.00	15.065913	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	80000.00	15.355086	20	PASS
			NV	30	80000.00	15.355086	20	PASS
			NV	40	80000.00	15.355086	20	PASS
	Ant2	5210	NV	0	80000.00	15.065913	20	PASS
			NV	10	40000.00	7.259528	20	PASS
			NV	20	80000.00	15.065913	20	PASS
			NV	30	40000.00	7.259528	20	PASS
			NV	40	80000.00	15.065913	20	PASS
	Ant1	5290	NV	0	40000.00	7.259528	20	PASS
			NV	10	80000.00	15.065913	20	PASS
			NV	20	40000.00	7.259528	20	PASS
			NV	30	-80000.00	-15.122873	20	PASS
			NV	40	80000.00	15.122873	20	PASS
	Ant2	5290	NV	0	80000.00	15.122873	20	PASS
			NV	10	80000.00	15.065913	20	PASS
			NV	20	40000.00	7.259528	20	PASS
			NV	30	80000.00	15.065913	20	PASS
			NV	40	40000.00	7.259528	20	PASS
	Ant1	5530	NV	0	80000.00	15.065913	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	80000.00	14.466546	20	PASS
			NV	40	80000.00	15.065913	20	PASS
	Ant2	5530	NV	0	40000.00	7.259528	20	PASS
			NV	10	80000.00	15.065913	20	PASS
			NV	20	40000.00	7.259528	20	PASS

			NV	30	80000.00	15.065913	20	PASS
			NV	40	-80000.00	-14.466546	20	PASS
	Ant1	5610	NV	0	80000.00	14.260250	20	PASS
			NV	10	80000.00	15.065913	20	PASS
			NV	20	40000.00	7.259528	20	PASS
			NV	30	80000.00	15.065913	20	PASS
			NV	40	40000.00	7.259528	20	PASS
	Ant2	5610	NV	0	80000.00	14.260250	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	80000.00	14.260250	20	PASS
			NV	30	80000.00	15.065913	20	PASS
			NV	40	40000.00	7.259528	20	PASS
	Ant1	5690	NV	0	80000.00	14.059754	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-80000.00	-14.059754	20	PASS
			NV	30	80000.00	15.065913	20	PASS
			NV	40	40000.00	7.259528	20	PASS
	Ant2	5690	NV	0	80000.00	14.059754	20	PASS
			NV	10	80000.00	15.065913	20	PASS
			NV	20	40000.00	7.259528	20	PASS
			NV	30	80000.00	15.065913	20	PASS
			NV	40	40000.00	7.259528	20	PASS
	Ant1	5775	NV	0	80000.00	15.065913	20	PASS
			NV	10	40000.00	7.259528	20	PASS
			NV	20	80000.00	15.065913	20	PASS
			NV	30	40000.00	7.259528	20	PASS
			NV	40	80000.00	15.065913	20	PASS
	Ant2	5775	NV	0	40000.00	7.259528	20	PASS
			NV	10	80000.00	15.065913	20	PASS
			NV	20	40000.00	7.259528	20	PASS
			NV	30	80000.00	15.065913	20	PASS
			NV	40	40000.00	7.259528	20	PASS

11. Dynamic Frequency Selection

11.1. Applicability of DFS requirements

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	☐ Master	☒ Client Without Radar Detection	☐ Client with Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	☐ Master Device or Client with Radar Detection	☒ Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	☐ Master Device or Client with Radar Detection	☒ Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

11.2. Limit

(1) DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
 Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
 Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

(2) DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
 Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
 Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

11.3. Parameters of radar test waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Table 5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A	Roundup $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		Test B			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A					

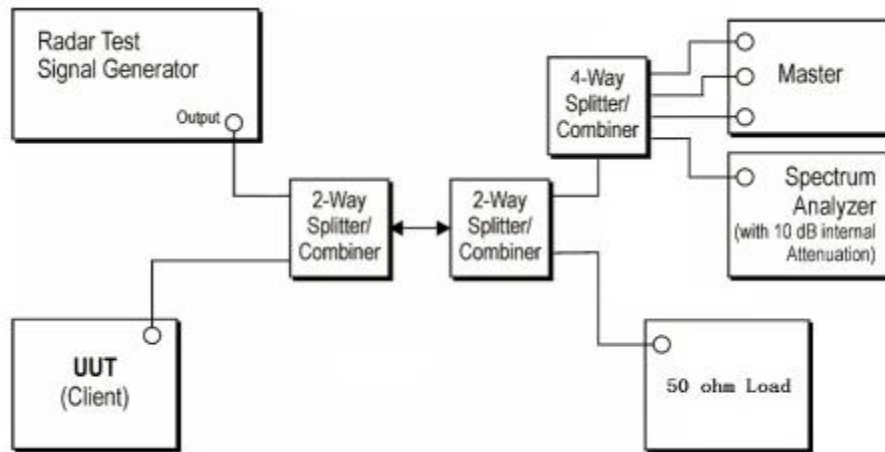
A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4

11.4. Calibration of radar waveform

Radar Waveform Calibration Procedure:

- (1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- (2) The interference Radar Detection Threshold Level is $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -61\text{dBm}$ that had been taken into account the output power range and antenna gain.
- (3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.
- (4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -61\text{dBm}$. Capture the spectrum analyzer plots on short pulse radar waveform.

Conducted Calibration Setup:



- Note: 1. Use the software "Web" to set the frequency channel.
2. EUT is not support TPC and not with Radar detection.

11.5. Channel closing transmission time, channel move time and non-occupancy period

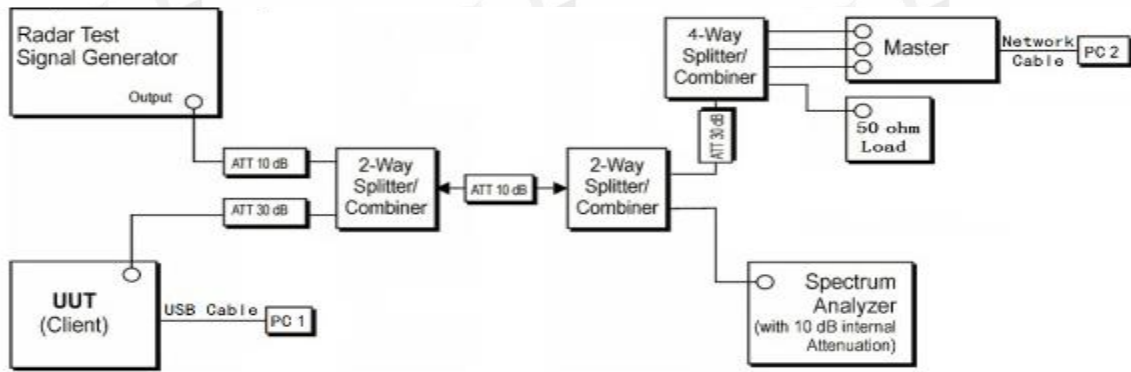
Block diagram of test setup Test Procedure:

- (1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- (2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- (3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- (4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Test Software in order to properly load the network for the entire period of the test.
- (5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- (6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- (7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the
- (8) spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

11.6. Test setup

Setup for Client with injection at the Master

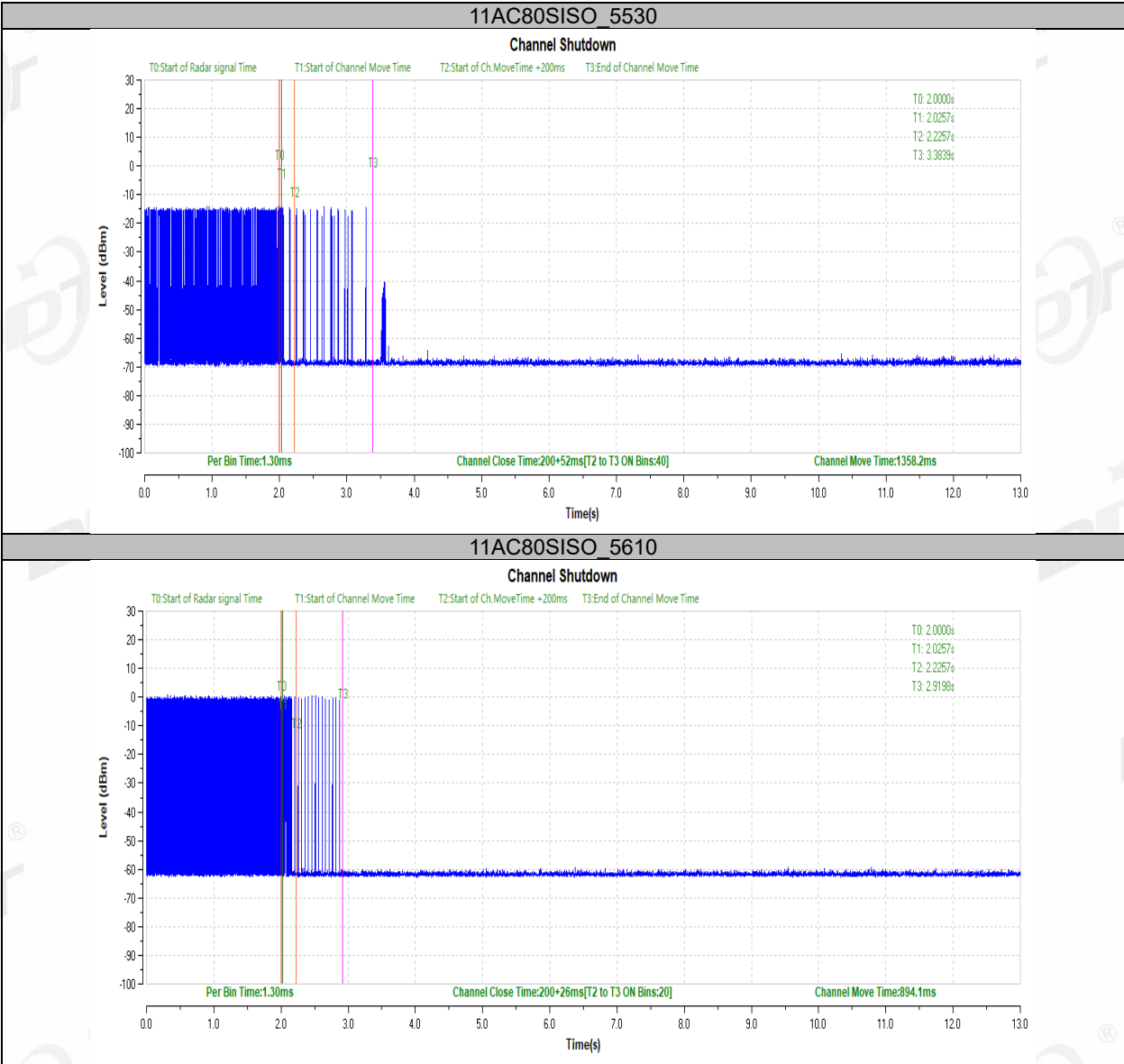


11.7. Test result

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	25.1℃,52.5%RH	Test Date:	2024.06.05-2024.06.14
Test Power Supply:	DC 12V	Sample Number:	S24042530-001

Test Mode	Frequency[MHz]	CCTT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC80	5530	200+52	200+60	1358.2	10000	PASS
MIMO	5610	200+26	200+60	894.1	10000	PASS

Test plots as follows:



12. Antenna Requirements

12.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For intentional device, according to RSS-Gen issue 5 section 6.8.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

12.2. Result

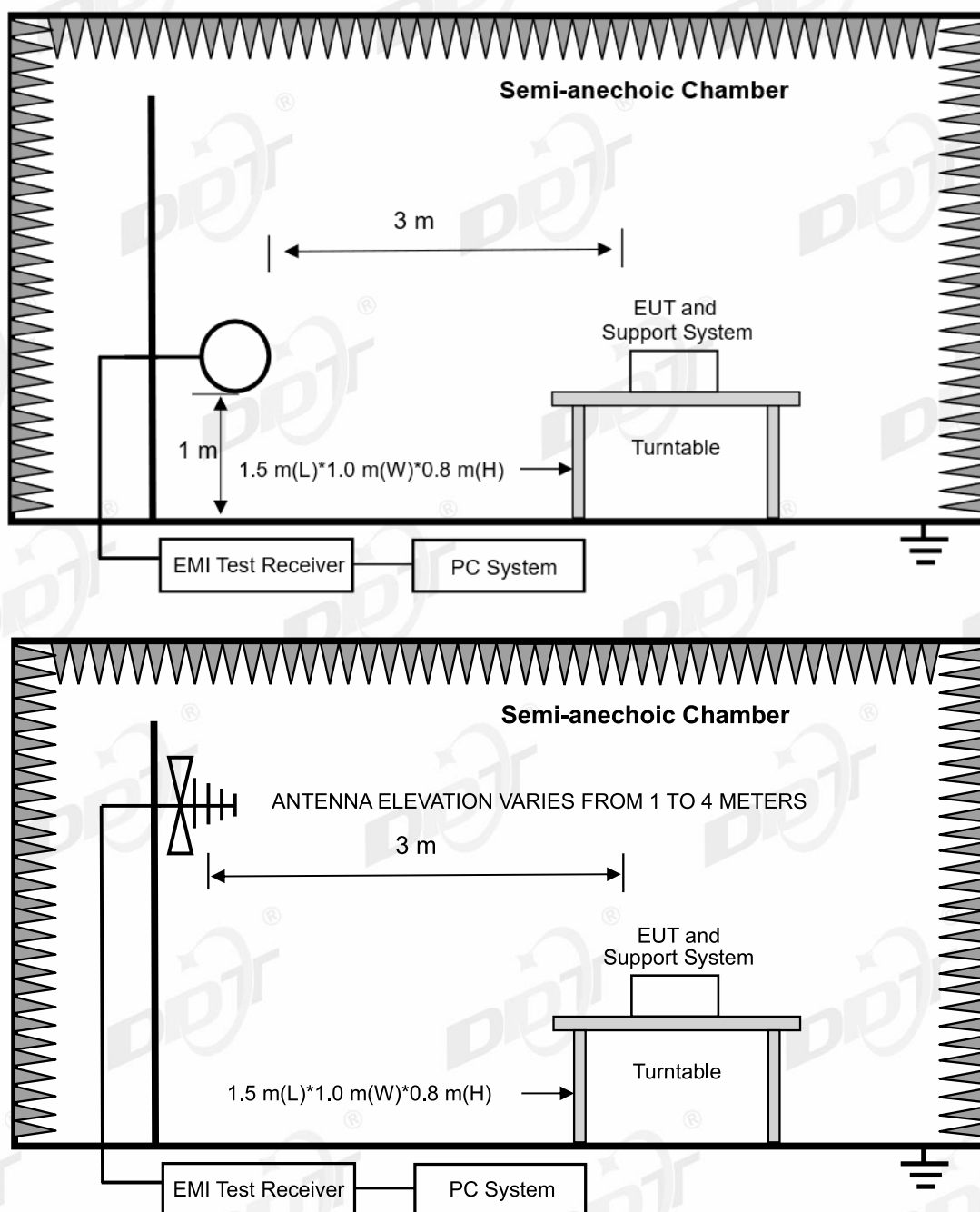
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

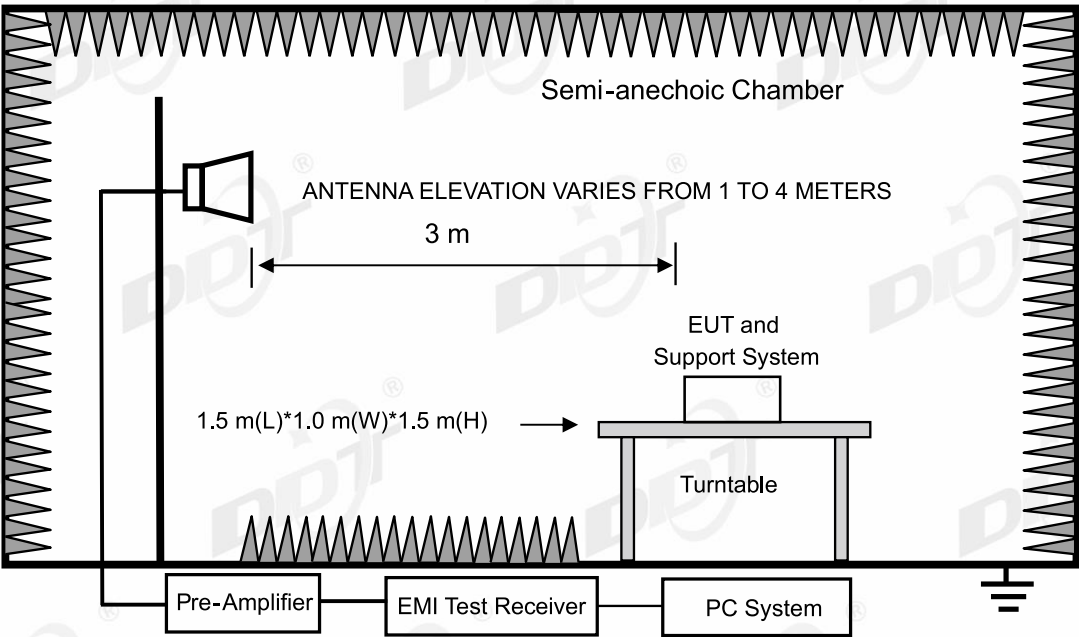
13.Radiated Emission

13.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2025/03/31
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2025/03/31
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
ELECTRIC AND MAGNETIC FIELD ANALYZER	Narda	EHP-200A	DDT-ZC01401	2024/09/20
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2025/04/22
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2025/03/31
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2025/03/31
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2025/03/31
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2024/07/14
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2025/03/31
Hochgewinn-Hornantenne	SCHWARZBEC K	BBHA 9120 D	DDT-ZC02129	2025/09/18
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2025/03/31
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2025/04/22
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2025/04/26
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2025/03/31
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2024/07/11
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2025/04/22

13.2. Block diagram of test setup





13.3. Limits

(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

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	
		mV/m	dB(mV)/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(mV)/m (Peak) 54.0 dB(mV)/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:

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

(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.

13.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

13.5. 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) Test antenna was located 3 m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna 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(1 GHz-18 GHz)	3 m
18 GHz - 40 GHz	Horn Antenna(18 GHz-40 GHz)	1 m

According ANSI C63.10:2013 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable, and the lowest height of the magnetic antenna shall be 1 m above the ground. For measurement above 30MHz, 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.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 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 1 m 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 through three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m 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 equipment and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(5) 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 - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) 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

(7) 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.

(8) For portable device, X axis, Y axis, Z axis are tested, and worse setup is reported.

(9) 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.

(10) 30 MHz ~ 40 GHz: (Scan with all mode, the worst case is record and report)

(11) 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 the worst mode.

13.6. Test result

PASS. (See below detailed test result)

13.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-06-04

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

5G WIFI TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

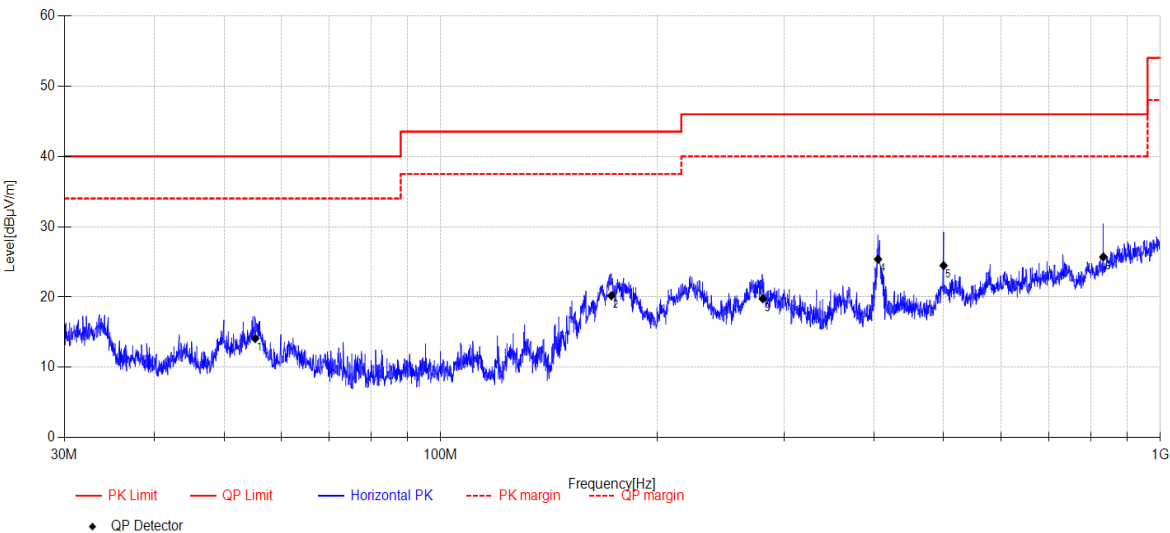
DDT 3# Chamber

File Path:

d:\ts\2024 report data\Q24042530-2E\FCC BELOW 1G\20240604-001703_H

Memo:

Sample Number:S24042530-002 Power Setting:NA



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	55.253	28.25	12.60	3.92	-30.66	14.11	40.00	25.89	QP	Horizontal
2	172.659	36.8	9.46	4.61	-30.68	20.19	43.50	23.31	QP	Horizontal
3	280.292	32.6	12.39	5.13	-30.36	19.76	46.00	26.24	QP	Horizontal
4	405.308	34.84	14.99	5.64	-30.09	25.38	46.00	20.62	QP	Horizontal
5	499.844	31.3	17.08	6.00	-29.90	24.48	46.00	21.52	QP	Horizontal
6	833.348	28.11	20.17	7.03	-29.60	25.71	46.00	20.29	QP	Horizontal

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.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-06-04

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

5G WIFI TX

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

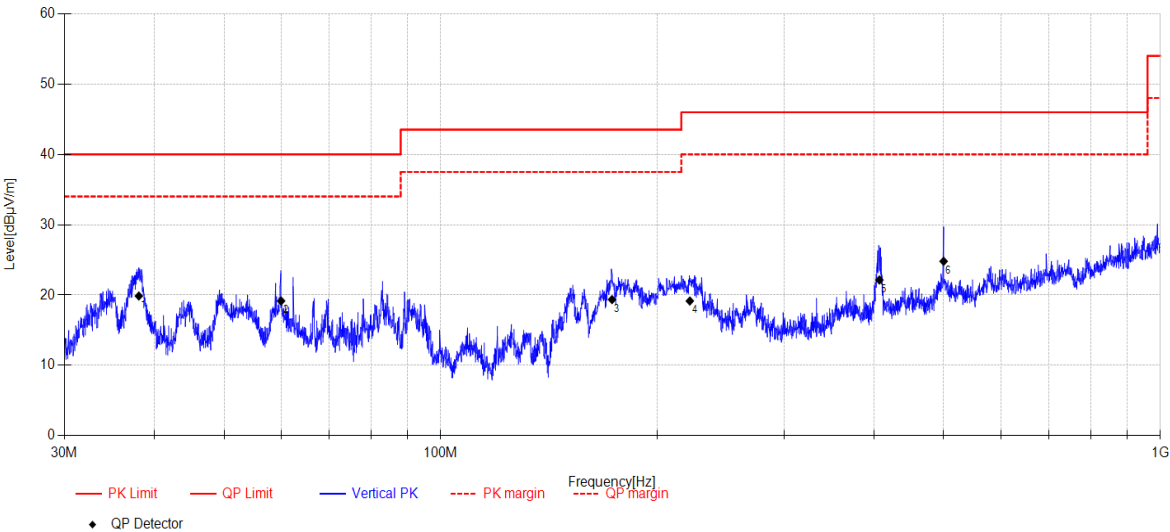
DDT 3# Chamber

File Path:

d:\ts\2024 report data\Q24042530-2E\FCC BELOW 1G\20240604-001747_V

Memo:

Sample Number:S24042530-002 Power Setting:NA



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	38.076	35.53	11.41	3.81	-30.88	19.87	40.00	20.13	QP	Vertical
2	60.019	33.04	12.79	3.96	-30.63	19.16	40.00	20.84	QP	Vertical
3	173.023	35.84	9.59	4.61	-30.68	19.36	43.50	24.14	QP	Vertical
4	221.925	33.71	11.12	4.86	-30.53	19.16	46.00	26.84	QP	Vertical
5	407.016	31.63	14.96	5.65	-30.09	22.15	46.00	23.85	QP	Vertical
6	499.844	31.62	17.08	6.00	-29.90	24.80	46.00	21.20	QP	Vertical

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:

2024-06-03

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5180MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

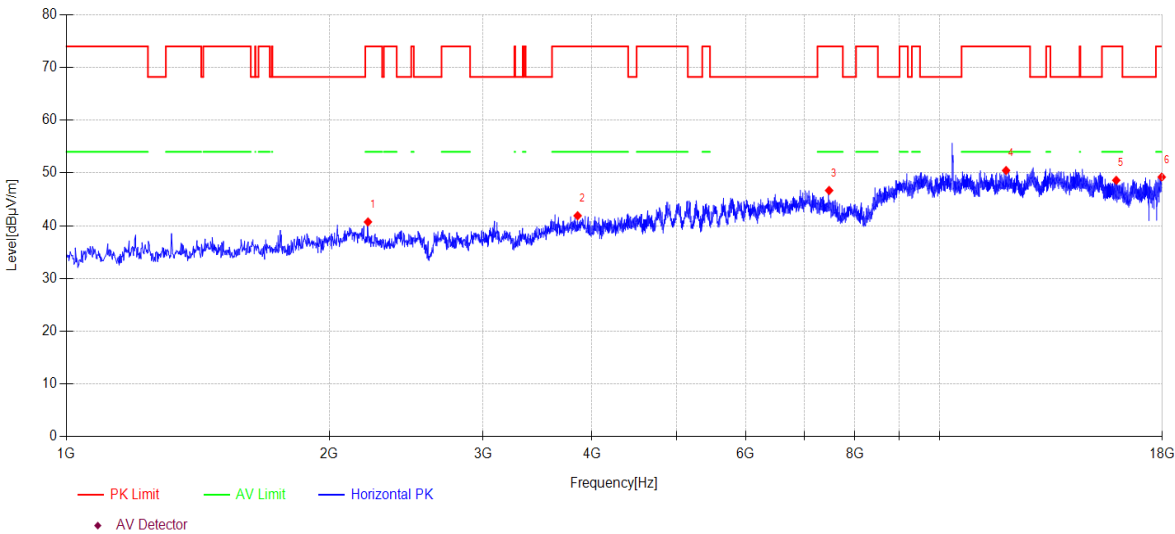
File Path:

d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G\1

Memo:

Sample Number:S24042530-002 Power Setting:NA

Test Graph



Data List										
NO .	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2215.500	46.54	27.65	4.15	-37.62	40.72	74.00	33.28	PK	Horizontal
2	3850.900	46.08	30.91	5.26	-40.36	41.89	74.00	32.11	PK	Horizontal
3	7475.300	44.49	36.55	7.53	-41.89	46.68	74.00	27.32	PK	Horizontal
4	11920.800	42.06	38.96	8.97	-39.52	50.47	74.00	23.53	PK	Horizontal
5	15939.600	39.66	38.06	10.21	-39.32	48.61	74.00	25.39	PK	Horizontal
6	17972.800	37.60	42.26	11.70	-42.34	49.22	74.00	24.78	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:

2024-06-03

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5180MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

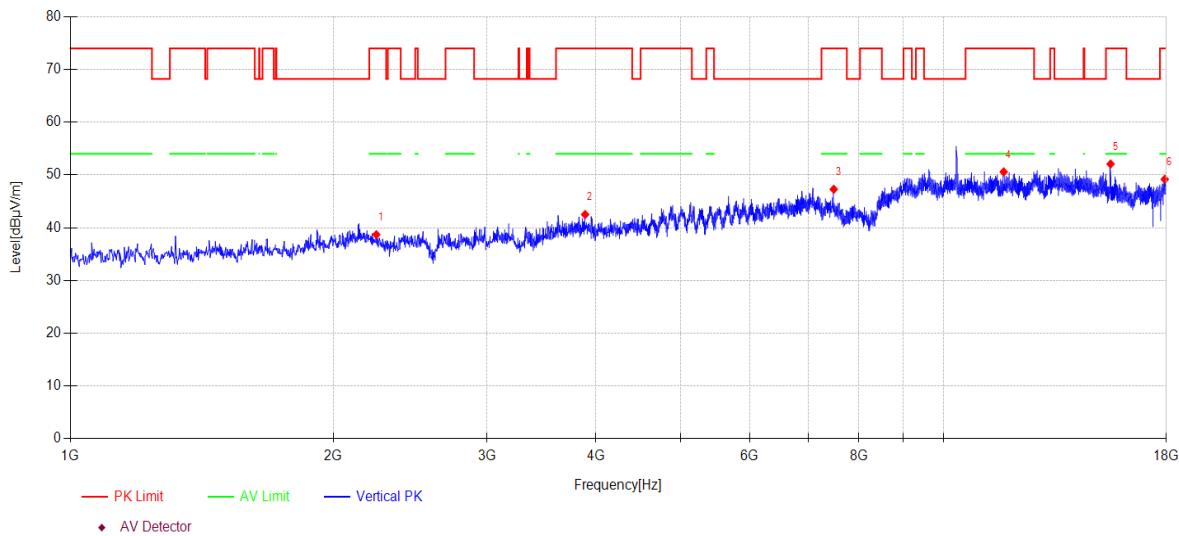
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d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G2

Memo:

Sample Number:S24042530-002 Power Setting:NA

Test Graph



Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2241.000	44.81	27.39	4.18	-37.69	38.69	74.00	35.31	PK	Vertical
2	3886.600	46.50	31.12	5.27	-40.38	42.51	74.00	31.49	PK	Vertical
3	7487.200	45.14	36.53	7.54	-41.92	47.29	74.00	26.71	PK	Vertical
4	11721.900	42.19	38.98	8.85	-39.43	50.59	74.00	23.41	PK	Vertical
5	15538.400	42.41	38.72	10.03	-39.08	52.08	74.00	21.92	PK	Vertical
6	17926.900	37.73	42.03	11.67	-42.24	49.19	74.00	24.81	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.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-06-03

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5200MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

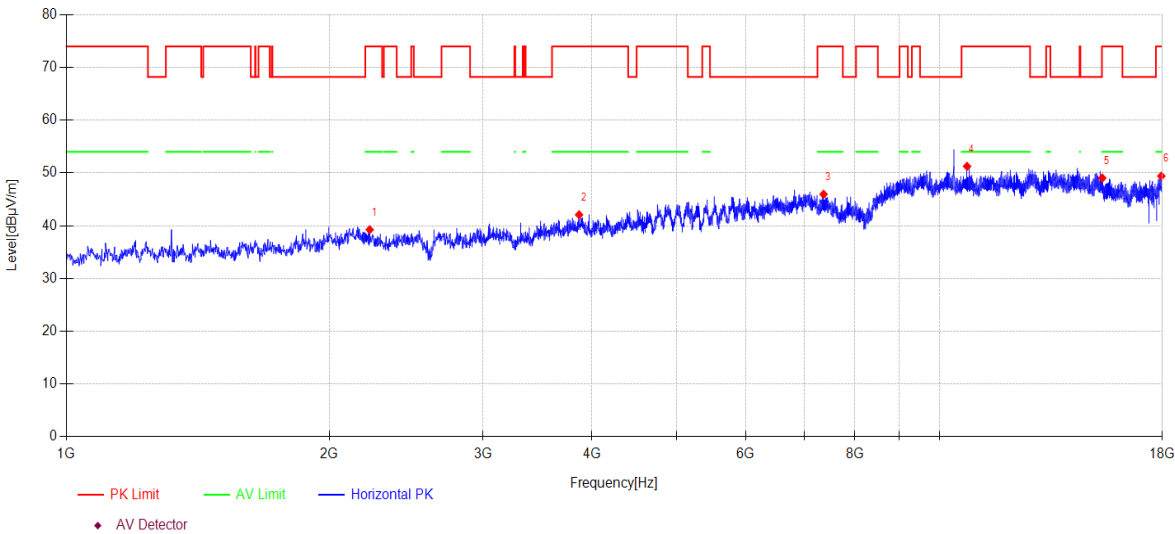
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d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G\7

Memo:

Sample Number:S24042530-002 Power Setting:NA

Test Graph



Data List										
NO .	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2225.700	45.20	27.54	4.16	-37.65	39.25	74.00	34.75	PK	Horizontal
2	3866.200	46.18	31.00	5.27	-40.37	42.08	74.00	31.92	PK	Horizontal
3	7366.500	43.35	36.77	7.46	-41.62	45.96	74.00	28.04	PK	Horizontal
4	10754.600	42.52	39.40	8.34	-39.00	51.26	74.00	22.74	PK	Horizontal
5	15363.300	38.77	39.29	9.95	-38.98	49.03	74.00	24.97	PK	Horizontal
6	17954.100	37.85	42.17	11.69	-42.30	49.41	74.00	24.59	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:

2024-06-03

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5200MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

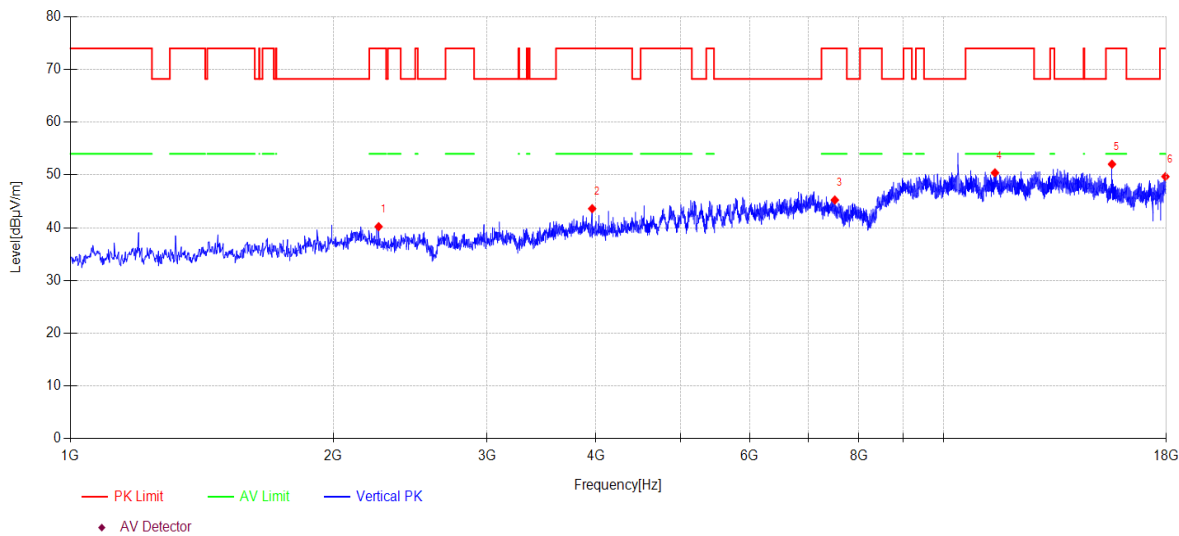
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Memo:

Sample Number:S24042530-002 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2254.600	46.49	27.25	4.19	-37.73	40.20	74.00	33.80	PK	Vertical
2	3959.700	47.69	31.06	5.30	-40.43	43.62	74.00	30.38	PK	Vertical
3	7509.300	43.18	36.48	7.56	-41.97	45.25	74.00	28.75	PK	Vertical
4	11455.000	41.76	39.25	8.69	-39.30	50.40	74.00	23.60	PK	Vertical
5	15597.900	42.50	38.60	10.06	-39.12	52.04	74.00	21.96	PK	Vertical
6	17957.500	38.12	42.19	11.69	-42.31	49.69	74.00	24.31	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:

2024-06-03

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5240MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

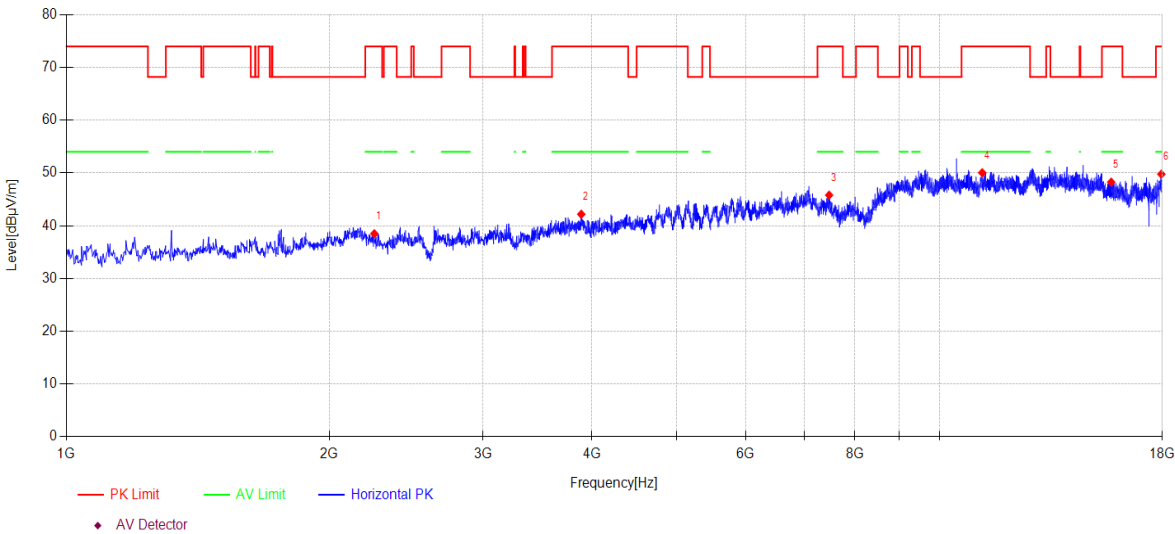
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Memo:

Sample Number:S24042530-002 Power Setting:NA

Test Graph



Data List										
NO .	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2252.900	44.75	27.27	4.19	-37.73	38.48	74.00	35.52	PK	Horizontal
2	3888.300	46.15	31.13	5.28	-40.38	42.18	74.00	31.82	PK	Horizontal
3	7475.300	43.61	36.55	7.53	-41.89	45.80	74.00	28.20	PK	Horizontal
4	11193.200	41.47	39.21	8.54	-39.18	50.04	74.00	23.96	PK	Horizontal
5	15728.800	38.91	38.44	10.12	-39.20	48.27	74.00	25.73	PK	Horizontal
6	17950.700	38.23	42.15	11.68	-42.29	49.77	74.00	24.23	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:

2024-06-03

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5240MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

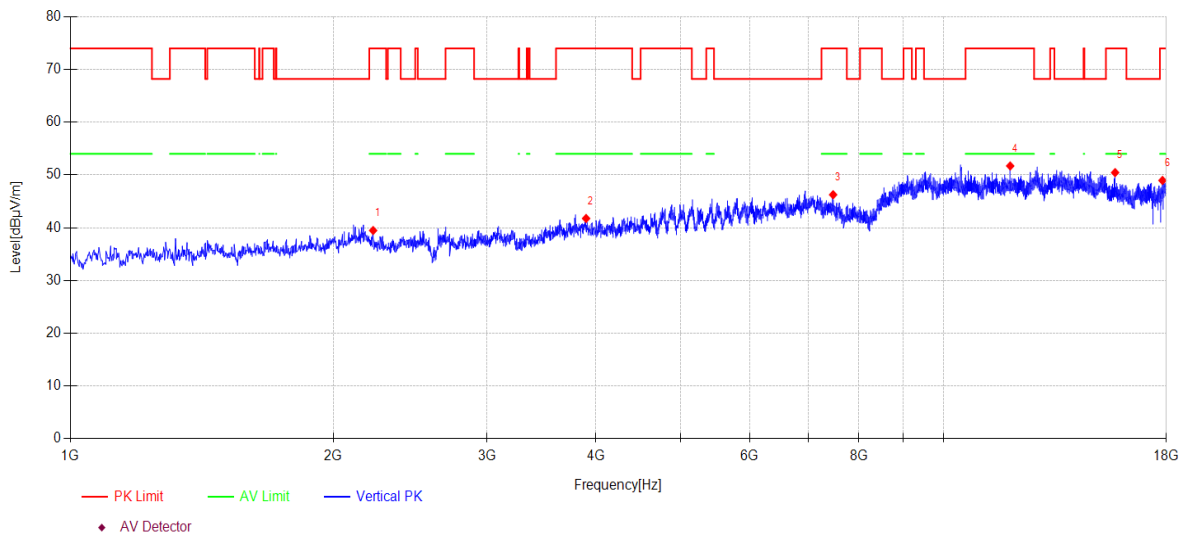
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Memo:

Sample Number:S24042530-002 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2222.300	45.38	27.58	4.16	-37.64	39.48	74.00	34.52	PK	Vertical
2	3896.800	45.69	31.18	5.28	-40.39	41.76	74.00	32.24	PK	Vertical
3	7475.300	44.06	36.55	7.53	-41.89	46.25	74.00	27.75	PK	Vertical
4	11924.200	43.29	38.97	8.97	-39.52	51.71	74.00	22.29	PK	Vertical
5	15725.400	41.08	38.45	10.12	-39.20	50.45	74.00	23.55	PK	Vertical
6	17818.100	38.36	41.00	11.59	-41.99	48.96	74.00	25.04	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.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-06-03

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5260MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

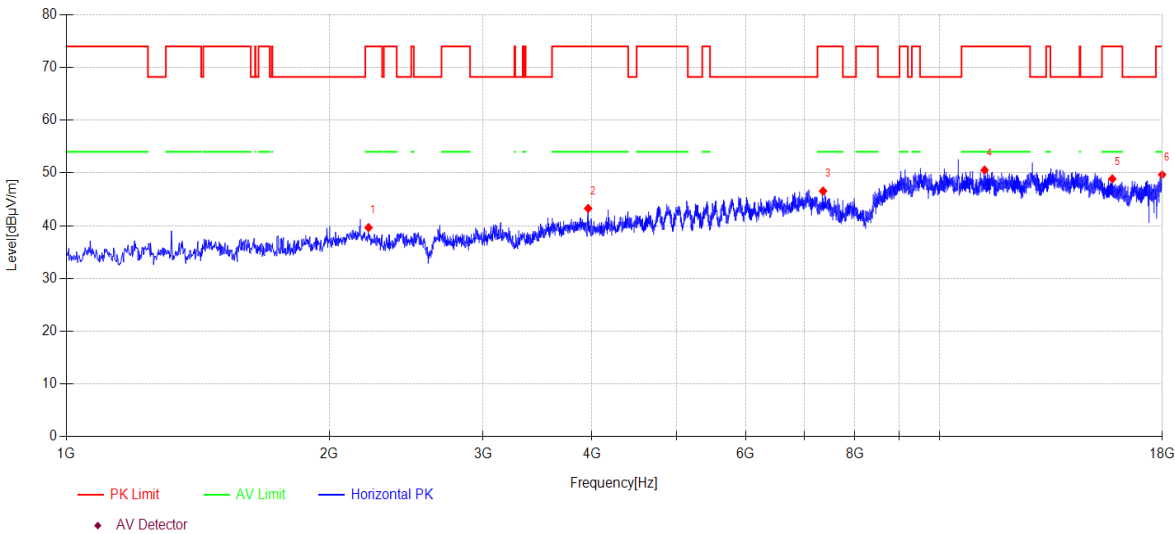
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Memo:

Sample Number:S24042530-002 Power Setting:NA

Test Graph



Data List										
NO .	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2218.900	45.51	27.61	4.16	-37.63	39.65	74.00	34.35	PK	Horizontal
2	3959.700	47.35	31.06	5.30	-40.43	43.28	74.00	30.72	PK	Horizontal
3	7356.300	43.91	36.79	7.46	-41.59	46.57	74.00	27.43	PK	Horizontal
4	11262.900	41.99	39.20	8.58	-39.21	50.56	74.00	23.44	PK	Horizontal
5	15776.400	39.62	38.35	10.14	-39.23	48.88	74.00	25.12	PK	Horizontal
6	17991.500	37.98	42.36	11.71	-42.38	49.67	74.00	24.33	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:

2024-06-03

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5260MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

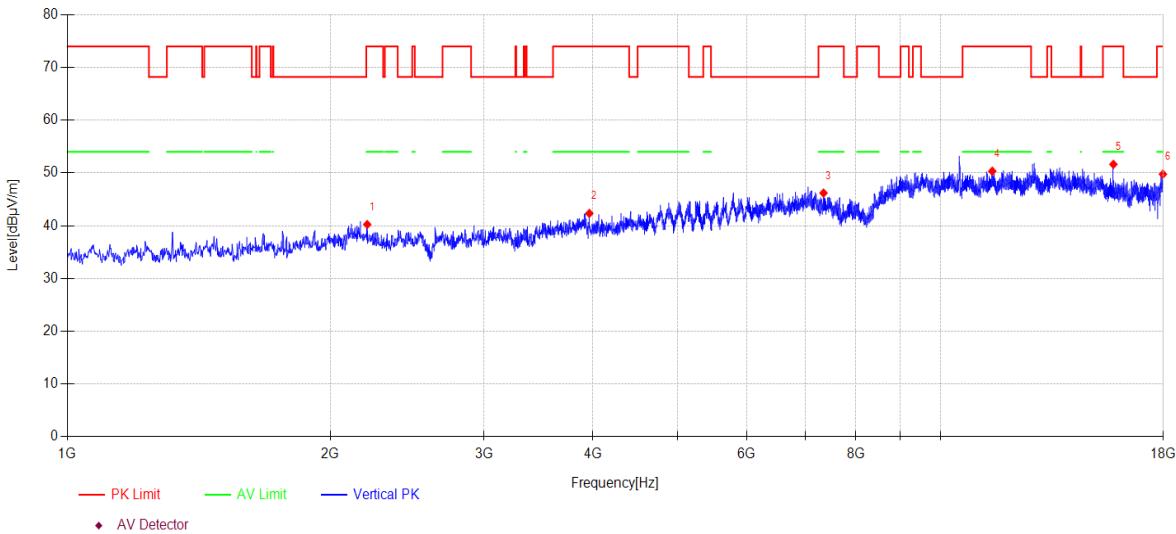
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d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G\12

Memo:

Sample Number:S24042530-002 Power Setting:NA

Test Graph



Data List										
NO .	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2205.300	45.94	27.75	4.14	-37.59	40.24	74.00	33.76	PK	Vertical
2	3961.400	46.42	31.05	5.30	-40.43	42.34	74.00	31.66	PK	Vertical
3	7346.100	43.50	36.81	7.45	-41.57	46.19	74.00	27.81	PK	Vertical
4	11463.500	41.71	39.24	8.70	-39.31	50.34	74.00	23.66	PK	Vertical
5	15779.800	42.39	38.34	10.14	-39.23	51.64	74.00	22.36	PK	Vertical
6	17981.300	38.11	42.31	11.71	-42.36	49.77	74.00	24.23	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:

2024-06-03

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5280MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

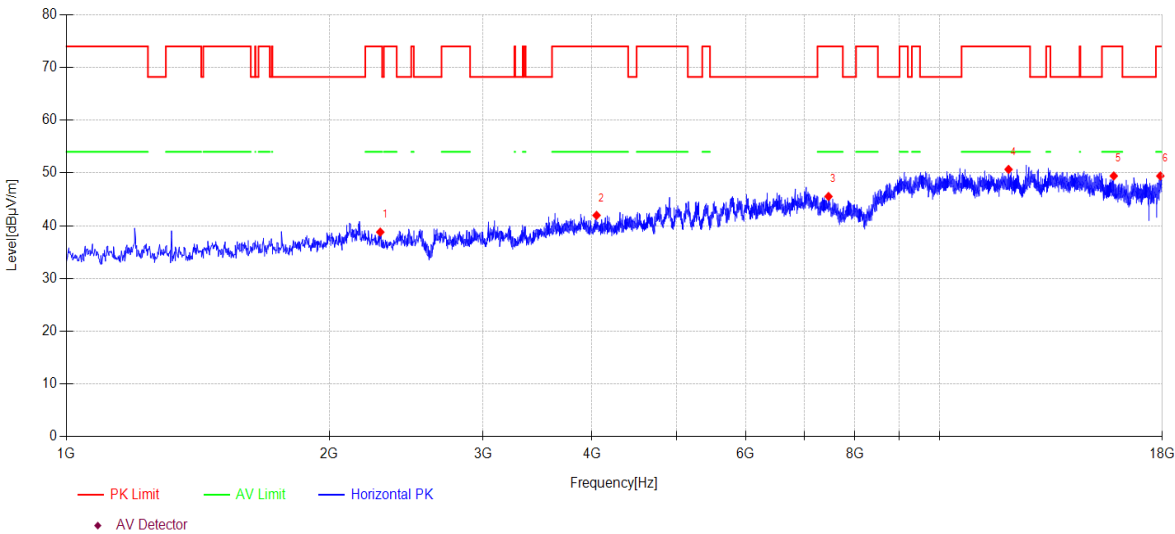
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d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G\13

Memo:

Sample Number:S24042530-002 Power Setting:NA

Test Graph



Data List										
NO .	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2288.600	45.48	26.91	4.23	-37.83	38.79	74.00	35.21	PK	Horizontal
2	4048.100	46.02	31.00	5.37	-40.43	41.96	74.00	32.04	PK	Horizontal
3	7463.400	43.31	36.57	7.53	-41.86	45.55	74.00	28.45	PK	Horizontal
4	11999.000	42.01	39.20	9.02	-39.56	50.67	74.00	23.33	PK	Horizontal
5	15835.900	40.29	38.23	10.17	-39.26	49.43	74.00	24.57	PK	Horizontal
6	17904.800	38.05	41.92	11.65	-42.19	49.43	74.00	24.57	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:

2024-06-03

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5280MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

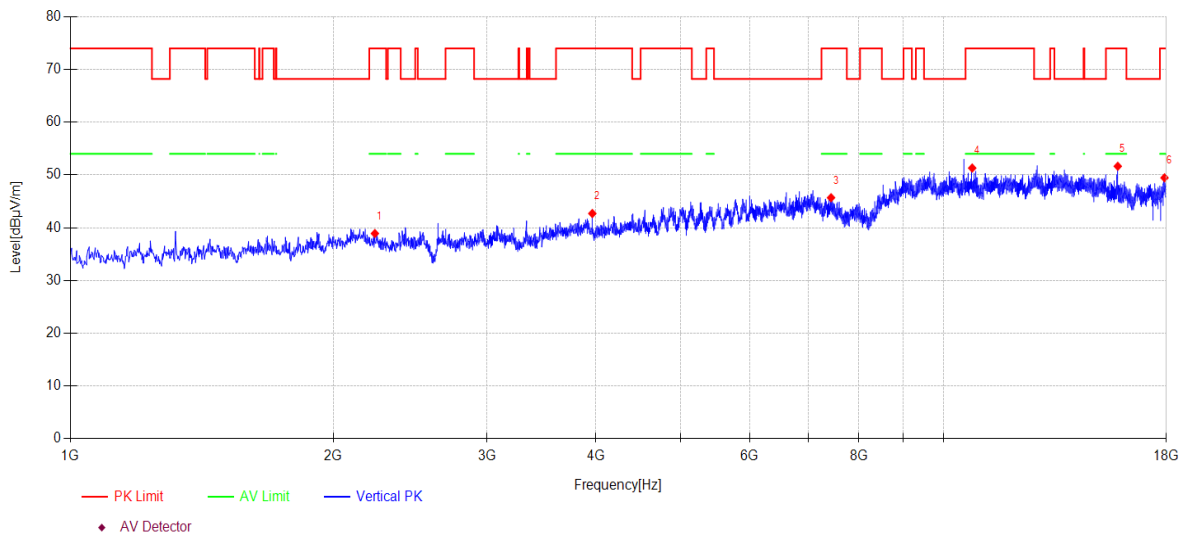
File Path:

d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G\14

Memo:

Sample Number:S24042530-002 Power Setting:NA

Test Graph



Data List										
NO .	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2232.500	44.93	27.48	4.17	-37.67	38.91	74.00	35.09	PK	Vertical
2	3961.400	46.78	31.05	5.30	-40.43	42.70	74.00	31.30	PK	Vertical
3	7434.500	43.34	36.63	7.51	-41.79	45.69	74.00	28.31	PK	Vertical
4	10786.900	42.57	39.40	8.35	-39.01	51.31	74.00	22.69	PK	Vertical
5	15835.900	42.51	38.23	10.17	-39.26	51.65	74.00	22.35	PK	Vertical
6	17913.300	38.04	41.97	11.66	-42.21	49.46	74.00	24.54	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:

2024-06-03

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5320MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

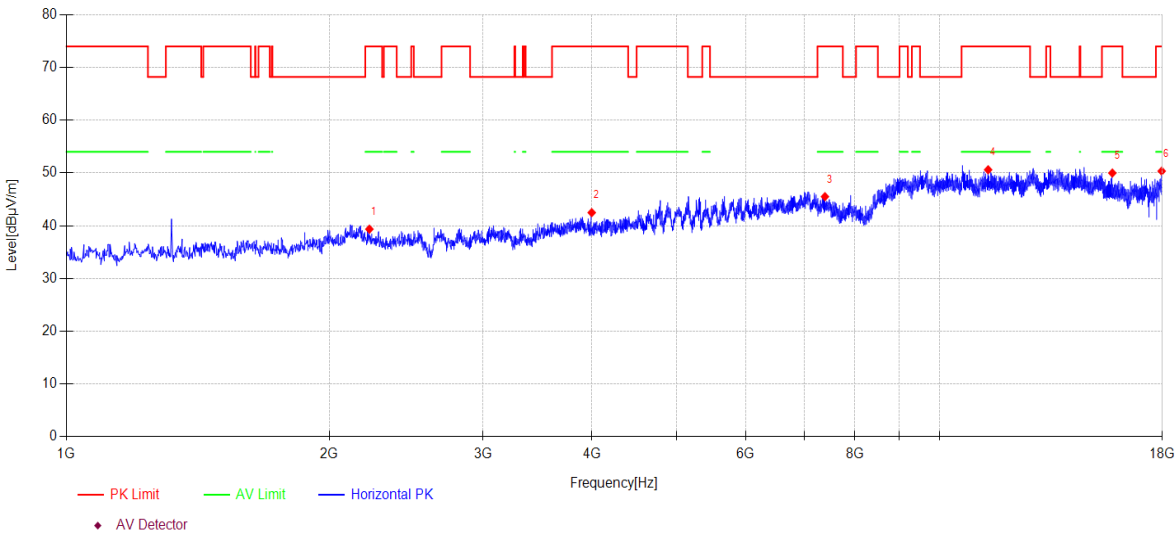
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d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G\15

Memo:

Sample Number:S24042530-002 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2224.000	45.27	27.56	4.16	-37.64	39.35	74.00	34.65	PK	Horizontal
2	3997.100	46.72	30.91	5.31	-40.45	42.49	74.00	31.51	PK	Horizontal
3	7393.700	43.01	36.71	7.48	-41.68	45.52	74.00	28.48	PK	Horizontal
4	11370.000	41.95	39.27	8.64	-39.26	50.60	74.00	23.40	PK	Horizontal
5	15776.400	40.73	38.35	10.14	-39.23	49.99	74.00	24.01	PK	Horizontal
6	17969.400	38.73	42.25	11.70	-42.33	50.35	74.00	23.65	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:

2024-06-03

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5320MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

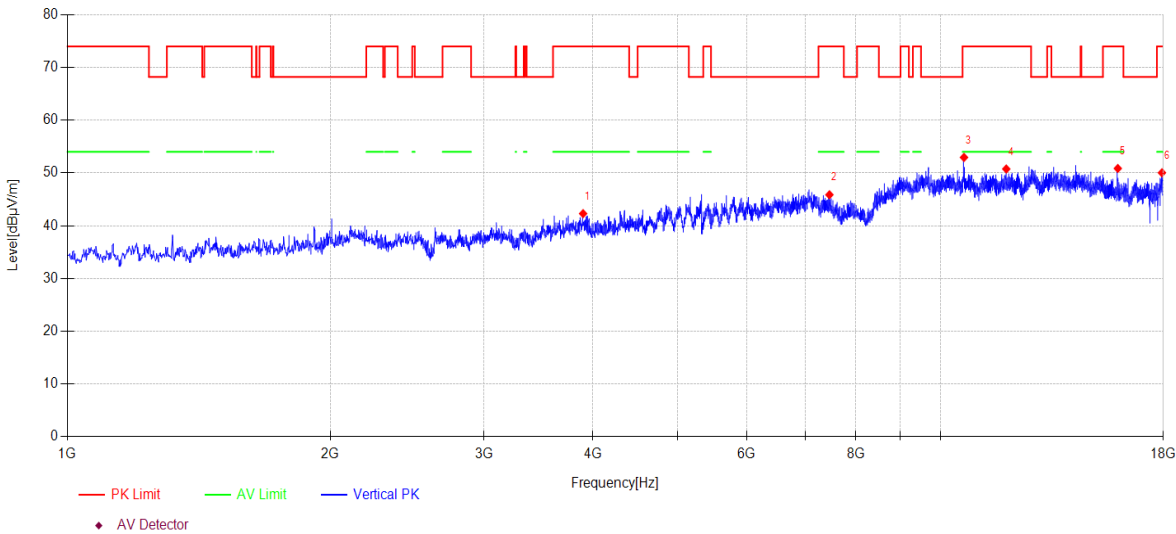
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Memo:

Sample Number:S24042530-002 Power Setting:NA

Test Graph



Data List										
NO .	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3896.800	46.22	31.18	5.28	-40.39	42.29	74.00	31.71	PK	Vertical
2	7461.700	43.61	36.58	7.53	-41.85	45.87	74.00	28.13	PK	Vertical
3	10640.700	44.32	39.28	8.31	-38.96	52.95	74.00	21.05	PK	Vertical
4	11895.300	42.41	38.90	8.96	-39.51	50.76	74.00	23.24	PK	Vertical
5	15963.400	41.94	38.04	10.22	-39.34	50.86	74.00	23.14	PK	Vertical
6	17933.700	38.55	42.07	11.67	-42.25	50.04	74.00	23.96	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:

2024-06-03

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5500MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

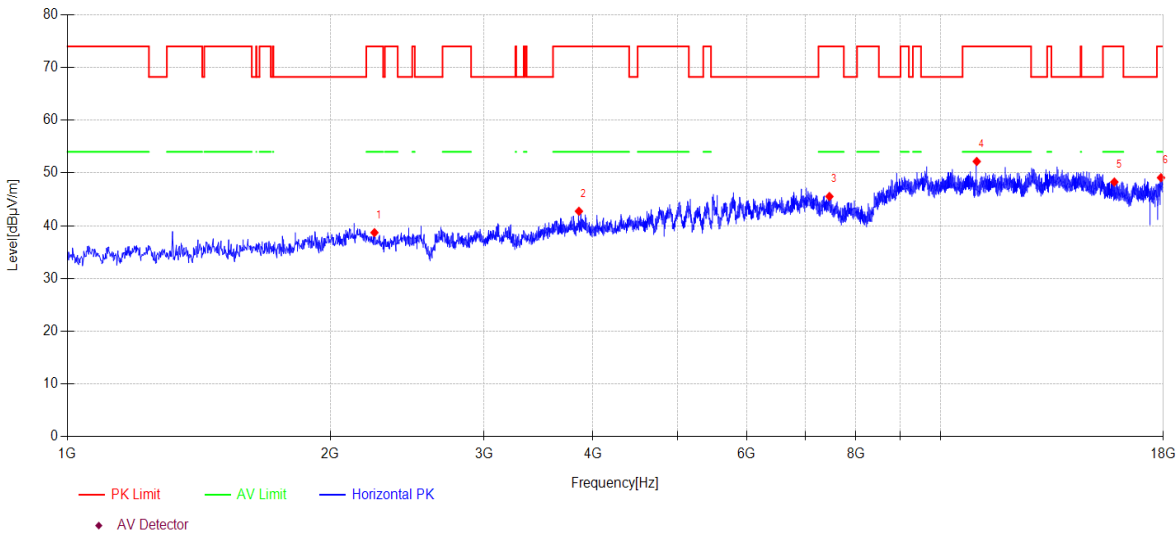
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Memo:

Sample Number:S24042530-002 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2247.800	44.89	27.32	4.19	-37.71	38.69	74.00	35.31	PK	Horizontal
2	3854.300	46.91	30.93	5.26	-40.36	42.74	74.00	31.26	PK	Horizontal
3	7461.700	43.28	36.58	7.53	-41.85	45.54	74.00	28.46	PK	Horizontal
4	11004.500	43.55	39.30	8.42	-39.09	52.18	74.00	21.82	PK	Horizontal
5	15817.200	39.11	38.27	10.16	-39.25	48.29	74.00	25.71	PK	Horizontal
6	17889.500	37.83	41.78	11.64	-42.15	49.10	74.00	24.90	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:

2024-06-03

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5500MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

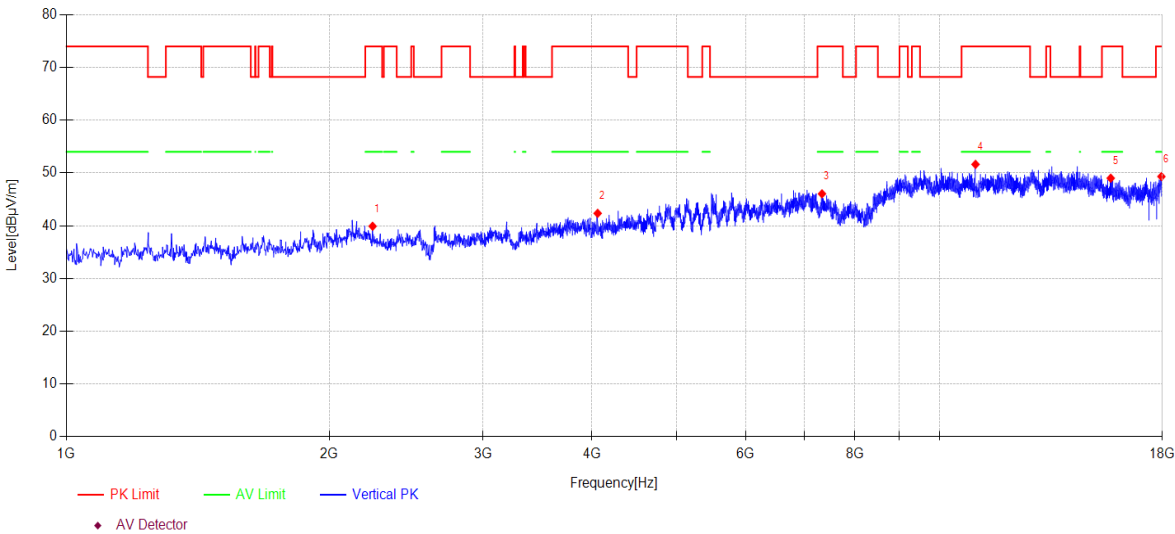
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Memo:

Sample Number:S24042530-002 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2242.700	46.05	27.37	4.18	-37.70	39.90	74.00	34.10	PK	Vertical
2	4060.000	46.38	31.02	5.38	-40.43	42.35	74.00	31.65	PK	Vertical
3	7335.900	43.32	36.83	7.44	-41.54	46.05	74.00	27.95	PK	Vertical
4	10997.700	43.00	39.30	8.42	-39.09	51.63	74.00	22.37	PK	Vertical
5	15710.100	39.61	38.48	10.11	-39.19	49.01	74.00	24.99	PK	Vertical
6	17955.800	37.75	42.18	11.69	-42.30	49.32	74.00	24.68	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:

2024-06-03

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5700MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

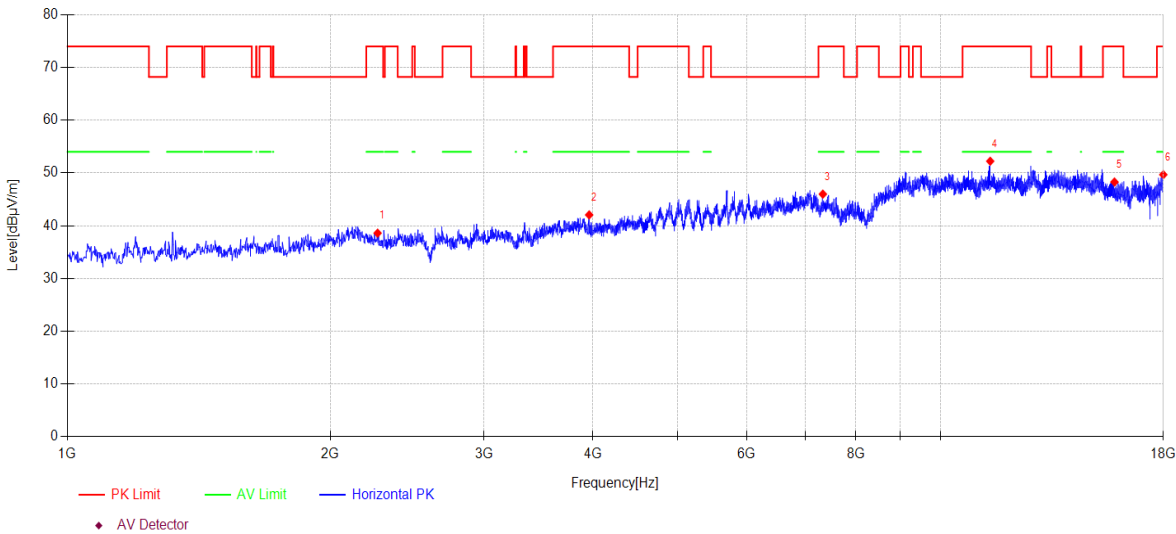
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Memo:

Sample Number:S24042530-002 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2266.500	45.01	27.14	4.21	-37.76	38.60	74.00	35.40	PK	Horizontal
2	3959.700	46.12	31.06	5.30	-40.43	42.05	74.00	31.95	PK	Horizontal
3	7334.200	43.26	36.83	7.44	-41.54	45.99	74.00	28.01	PK	Horizontal
4	11402.300	43.55	39.30	8.66	-39.28	52.23	74.00	21.77	PK	Horizontal
5	15824.000	39.13	38.25	10.16	-39.25	48.29	74.00	25.71	PK	Horizontal
6	17998.300	37.97	42.39	11.72	-42.40	49.68	74.00	24.32	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:

2024-06-03

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5700MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

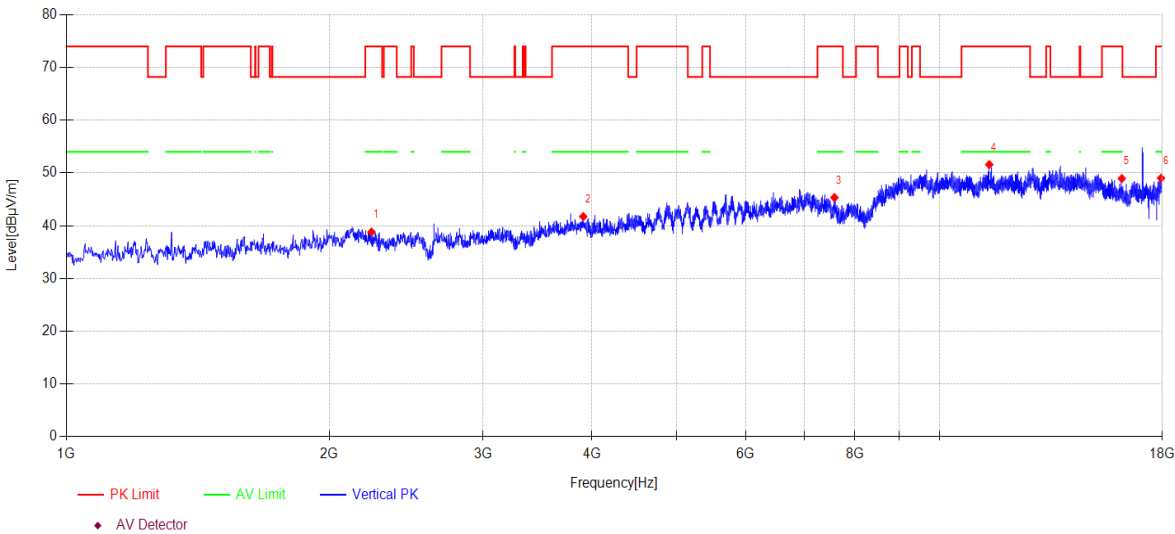
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Memo:

Sample Number:S24042530-002 Power Setting:NA

Test Graph



Data List										
NO .	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2235.900	44.88	27.44	4.17	-37.68	38.81	74.00	35.19	PK	Vertical
2	3908.700	45.67	31.18	5.28	-40.39	41.74	74.00	32.26	PK	Vertical
3	7580.700	43.43	36.46	7.60	-42.15	45.34	74.00	28.66	PK	Vertical
4	11404.000	42.92	39.30	8.66	-39.28	51.60	74.00	22.40	PK	Vertical
5	16174.200	40.24	37.83	10.37	-39.50	48.94	74.00	25.06	PK	Vertical
6	17938.800	37.51	42.09	11.68	-42.26	49.02	74.00	24.98	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:

2024-06-04

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5720MHz ANT1

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

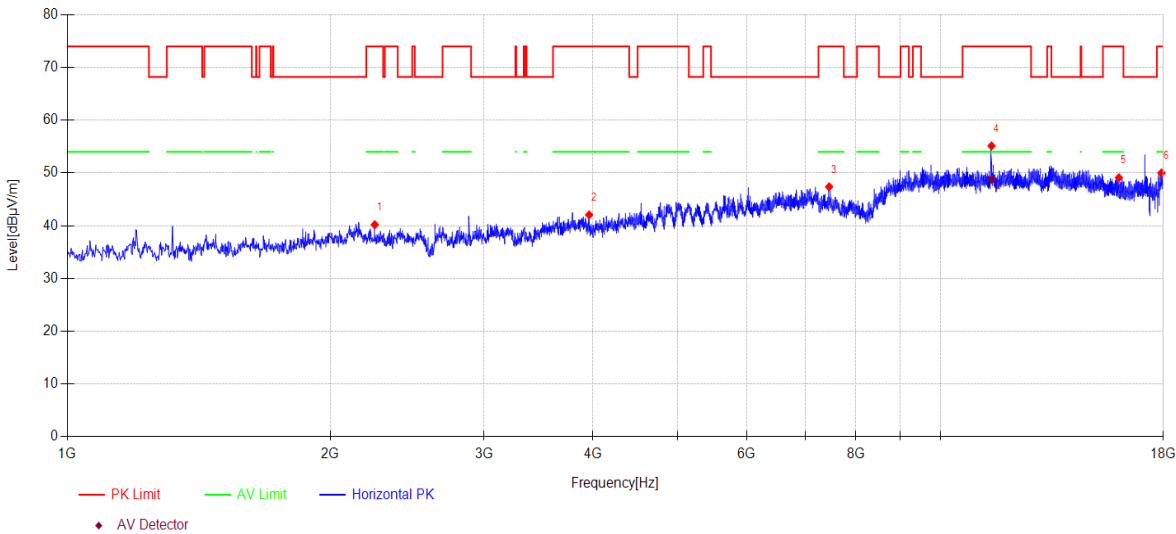
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Memo:

Sample Number:S24042530-002 Power Setting:92

Test Graph



Data List										
NO .	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2249.500	46.41	27.31	4.19	-37.72	40.19	74.00	33.81	PK	Horizontal
2	3959.700	46.13	31.06	5.30	-40.43	42.06	74.00	31.94	PK	Horizontal
3	7456.600	45.11	36.59	7.52	-41.84	47.38	74.00	26.62	PK	Horizontal
4	11443.100	46.47	39.26	8.69	-39.30	55.12	74.00	18.88	PK	Horizontal
5	16009.300	40.22	37.99	10.25	-39.37	49.09	74.00	24.91	PK	Horizontal
6	17913.300	38.58	41.97	11.66	-42.21	50.00	74.00	24.00	PK	Horizontal

Data List										
NO .	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	11443.100	40.15	39.26	8.69	-39.30	48.80	54.0	5.20	AV	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:

2024-06-04

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5720MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

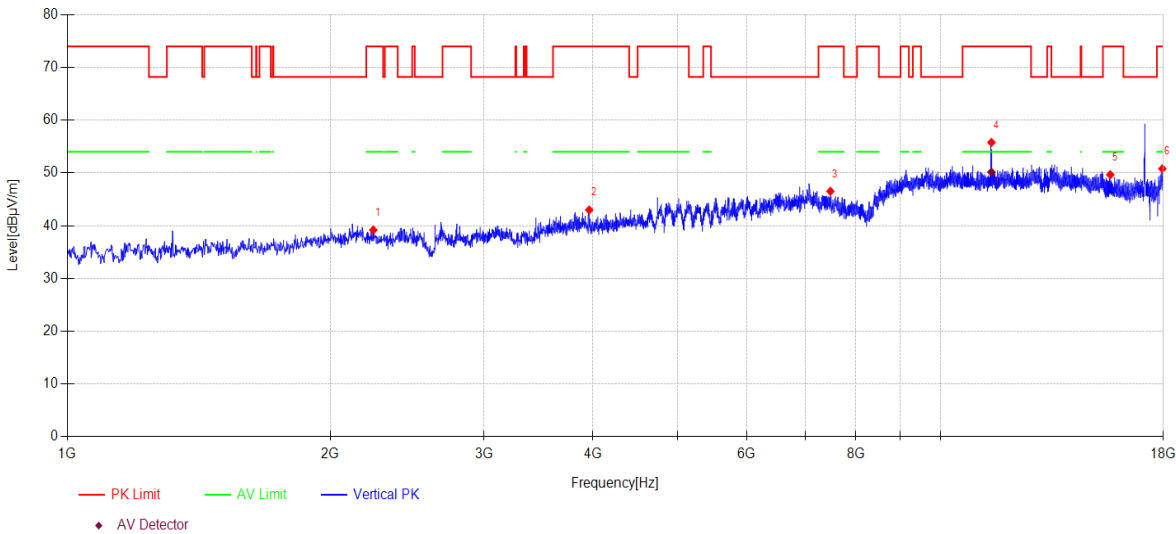
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Memo:

Sample Number:S24042530-002 Power Setting:92

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2241.000	45.31	27.39	4.18	-37.69	39.19	74.00	34.81	PK	Vertical
2	3959.700	47.06	31.06	5.30	-40.43	42.99	74.00	31.01	PK	Vertical
3	7480.400	44.35	36.54	7.54	-41.90	46.53	74.00	27.47	PK	Vertical
4	11439.700	47.15	39.26	8.68	-39.30	55.79	74.00	18.21	PK	Vertical
5	15648.900	40.18	38.55	10.08	-39.15	49.66	74.00	24.34	PK	Vertical
6	17955.800	39.23	42.18	11.69	-42.30	50.80	74.00	23.20	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	11439.700	41.52	39.26	8.68	-39.30	50.16	54.0	3.84	AV	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:

2024-06-04

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5745MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

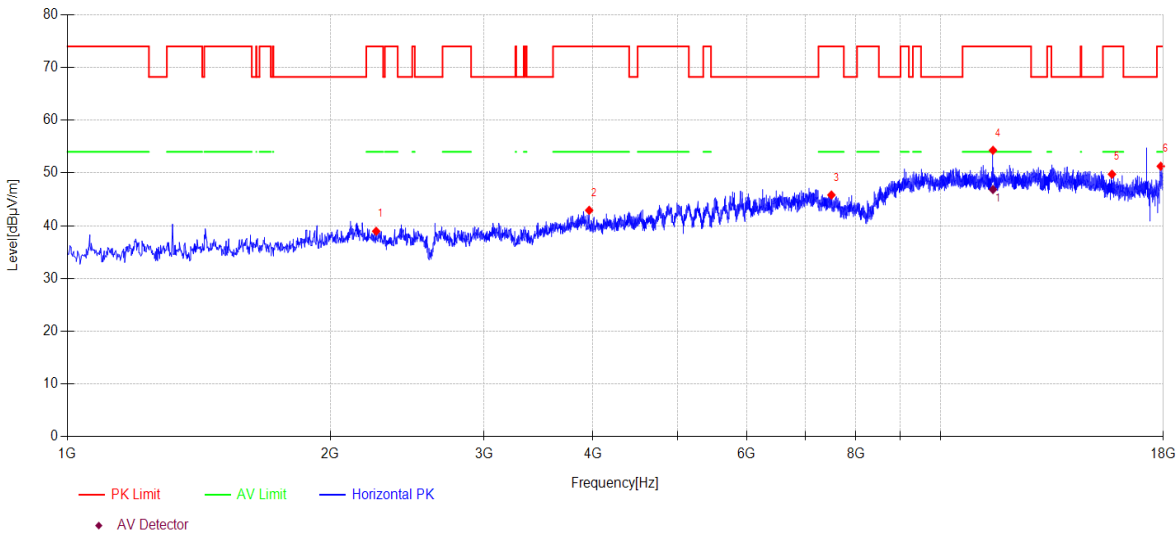
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Memo:

Sample Number:S24042530-002 Power Setting:92

Test Graph



Data List										
NO .	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2258.000	45.27	27.22	4.20	-37.74	38.95	74.00	35.05	PK	Horizontal
2	3959.700	46.99	31.06	5.30	-40.43	42.92	74.00	31.08	PK	Horizontal
3	7500.800	43.72	36.50	7.55	-41.95	45.82	74.00	28.18	PK	Horizontal
4	11485.600	45.69	39.21	8.71	-39.32	54.29	74.00	19.71	PK	Horizontal
5	15718.600	40.38	38.46	10.11	-39.19	49.76	74.00	24.24	PK	Horizontal
6	17879.300	40.10	41.67	11.63	-42.13	51.27	74.00	22.73	PK	Horizontal

Data List										
NO .	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	11485.600	38.26	39.21	8.71	-39.32	46.86	54.0	7.14	AV	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:

2024-06-04

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5745MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

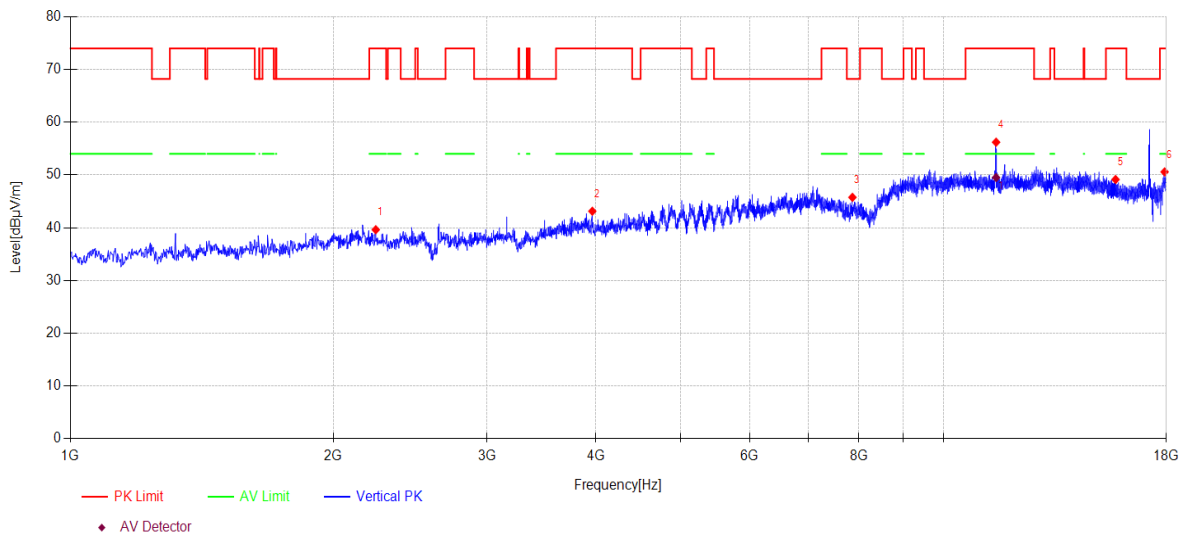
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Memo:

Sample Number:S24042530-002 Power Setting:92

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2237.600	45.70	27.42	4.18	-37.68	39.62	74.00	34.38	PK	Vertical
2	3961.400	47.21	31.05	5.30	-40.43	43.13	74.00	30.87	PK	Vertical
3	7866.300	43.92	36.93	7.78	-42.87	45.76	68.20	22.44	PK	Vertical
4	11489.000	47.61	39.21	8.71	-39.32	56.21	74.00	17.79	PK	Vertical
5	15744.100	39.82	38.41	10.12	-39.21	49.14	74.00	24.86	PK	Vertical
6	17918.400	39.15	41.99	11.66	-42.22	50.58	74.00	23.42	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	11489.000	40.91	39.21	8.71	-39.32	49.51	54.0	4.49	AV	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:

2024-06-04

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5785MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

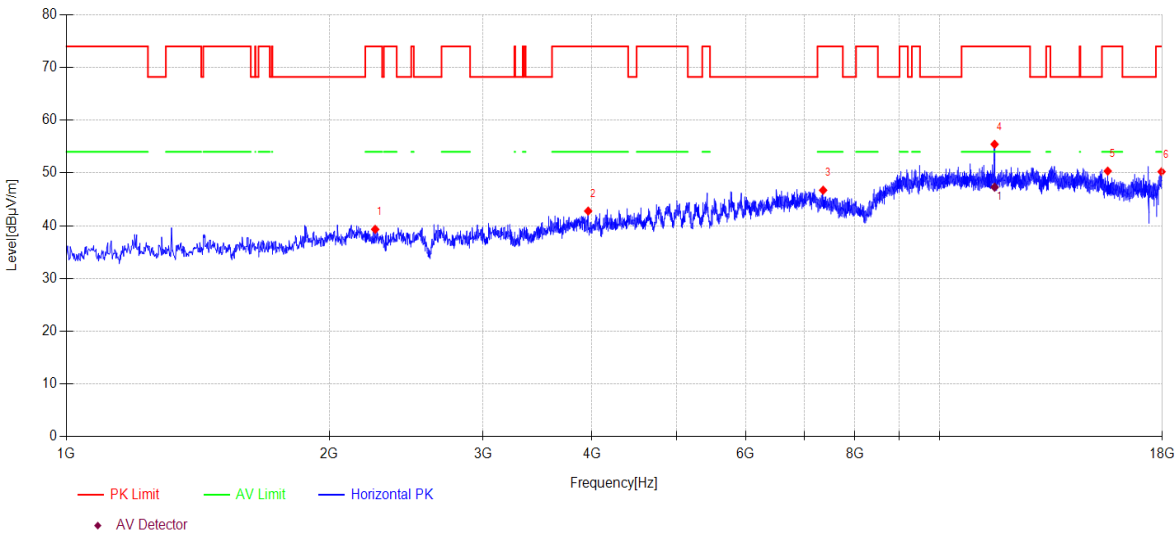
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Memo:

Sample Number:S24042530-002 Power Setting:92

Test Graph



Data List										
NO .	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2258.000	45.63	27.22	4.20	-37.74	39.31	74.00	34.69	PK	Horizontal
2	3959.700	46.85	31.06	5.30	-40.43	42.78	74.00	31.22	PK	Horizontal
3	7358.000	44.08	36.78	7.46	-41.60	46.72	74.00	27.28	PK	Horizontal
4	11565.500	46.96	39.07	8.76	-39.36	55.43	74.00	18.57	PK	Horizontal
5	15586.000	40.78	38.63	10.05	-39.11	50.35	74.00	23.65	PK	Horizontal
6	17964.300	38.64	42.22	11.69	-42.32	50.23	74.00	23.77	PK	Horizontal

Data List										
NO .	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	11565.500	38.84	39.07	8.76	-39.36	47.31	54.0	6.69	AV	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:

2024-06-04

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5785MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

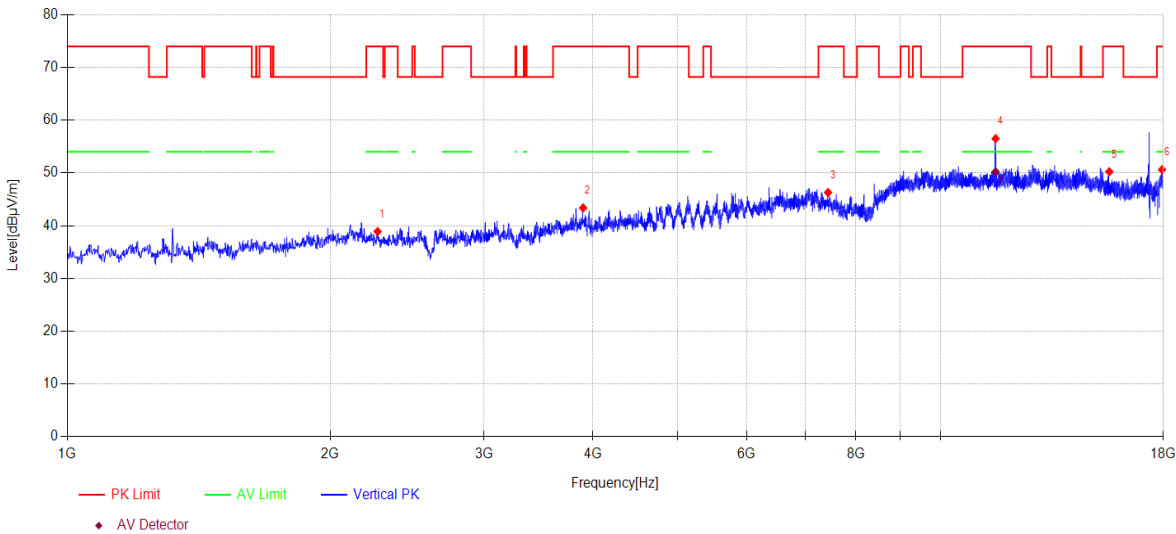
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Memo:

Sample Number:S24042530-002 Power Setting:92

Test Graph



Data List										
NO .	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2266.500	45.32	27.14	4.21	-37.76	38.91	74.00	35.09	PK	Vertical
2	3896.800	47.31	31.18	5.28	-40.39	43.38	74.00	30.62	PK	Vertical
3	7434.500	43.95	36.63	7.51	-41.79	46.30	74.00	27.70	PK	Vertical
4	11567.200	48.04	39.07	8.76	-39.36	56.51	74.00	17.49	PK	Vertical
5	15608.100	40.71	38.59	10.06	-39.12	50.24	74.00	23.76	PK	Vertical
6	17937.100	39.12	42.09	11.67	-42.26	50.62	74.00	23.38	PK	Vertical

Data List										
NO .	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	11567.200	41.74	39.07	8.76	-39.36	50.21	54.0	3.79	AV	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.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-06-04

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5825MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

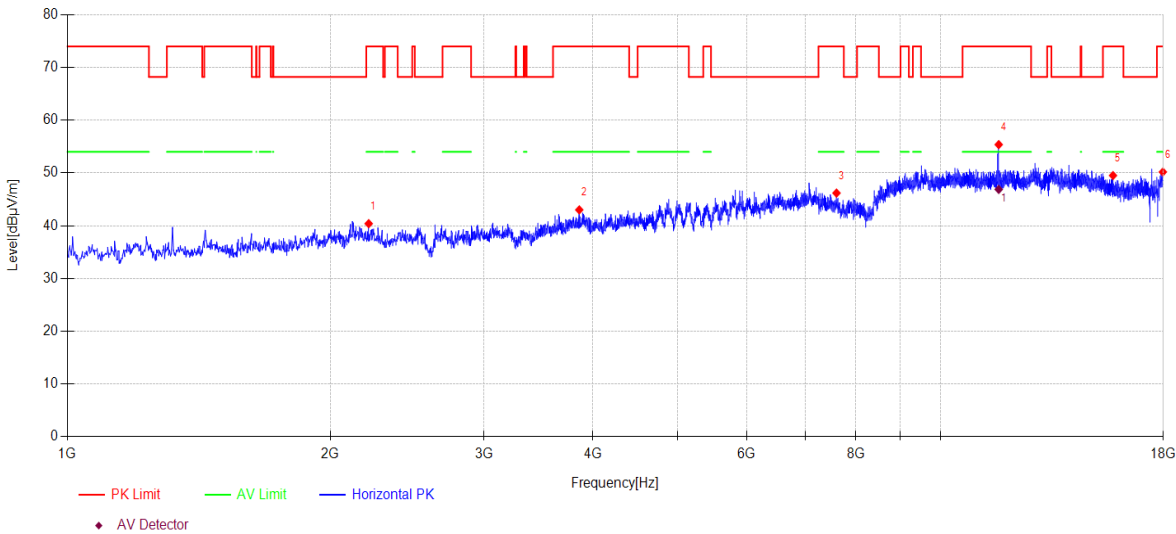
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Memo:

Sample Number:S24042530-002 Power Setting:92

Test Graph



Data List										
NO .	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2213.800	46.20	27.66	4.15	-37.62	40.39	74.00	33.61	PK	Horizontal
2	3857.700	47.15	30.95	5.27	-40.36	43.01	74.00	30.99	PK	Horizontal
3	7602.800	44.27	36.51	7.62	-42.21	46.19	74.00	27.81	PK	Horizontal
4	11660.700	46.96	39.00	8.82	-39.40	55.38	74.00	18.62	PK	Horizontal
5	15762.800	40.24	38.37	10.13	-39.22	49.52	74.00	24.48	PK	Horizontal
6	17977.900	38.55	42.29	11.70	-42.35	50.19	74.00	23.81	PK	Horizontal

Data List										
NO .	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	11660.700	38.46	39.00	8.82	-39.40	46.88	54.0	7.12	AV	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:

2024-06-04

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5825MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

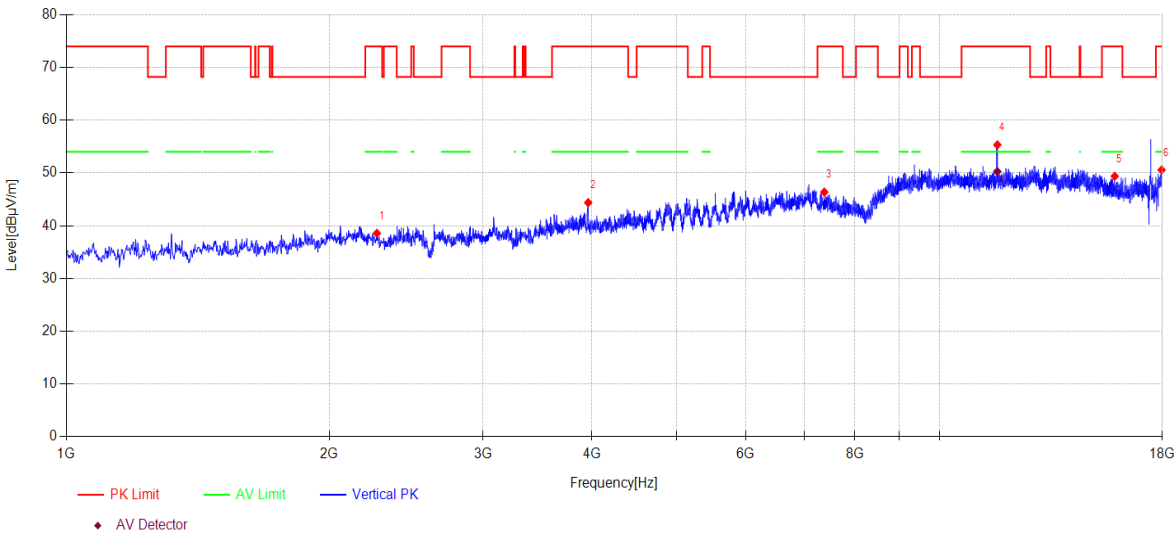
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Memo:

Sample Number:S24042530-002 Power Setting:92

Test Graph



Data List										
NO .	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2268.200	45.00	27.12	4.21	-37.77	38.56	74.00	35.44	PK	Vertical
2	3959.700	48.44	31.06	5.30	-40.43	44.37	74.00	29.63	PK	Vertical
3	7381.800	43.81	36.74	7.47	-41.65	46.37	74.00	27.63	PK	Vertical
4	11648.800	46.91	39.00	8.81	-39.39	55.33	74.00	18.67	PK	Vertical
5	15876.700	40.34	38.15	10.18	-39.29	49.38	74.00	24.62	PK	Vertical
6	17966.000	38.97	42.23	11.70	-42.32	50.58	74.00	23.42	PK	Vertical

Data List										
NO .	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	11648.800	41.84	39.00	8.81	-39.39	50.26	54.0	3.74	AV	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.

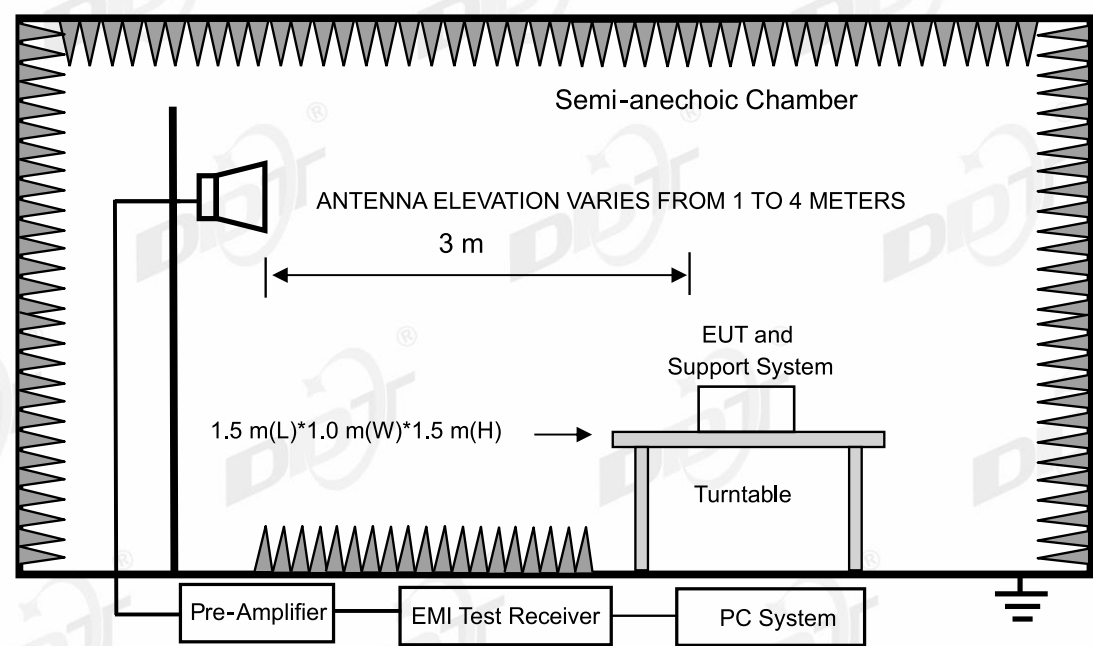
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

14.Band Edge Compliance

14.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
Hochgewinn-Hornantenne	SCHWARZBEC K	BBHA 9120 D	DDT-ZC02129	2025/09/18
RF cable	Yuhu Technology	JCTB810-NJ-NJ- 9M	DDT-ZC02538	2025/03/31
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2025/04/26
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2025/03/31
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2024/07/14
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2024/07/11
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2025/03/31
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2025/04/22
ELECTRIC AND MAGNETIC FIELD ANALYZER	Narda	EHP-200A	DDT-ZC01401	2024/09/20
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2025/03/31
RF cable	Yuhu Technology	ZT26S-SMAJ- SMAJ-1M	DDT-ZC02037	2025/03/31
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2025/03/31
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2025/04/22
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2025/03/31
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ- 1.5M	DDT-ZC02762	2025/03/31
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2025/04/22

14.2. Block diagram of test setup



14.3. Limits

- (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 solely in the 5.725-5.850 GHz band:
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

14.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

14.5. Test procedure

Same with Emissions in Restricted Frequency Bands except change investigated frequency range from 5.15-5.25 GHz, 5250-5350 GHz, 5470-5725 GHz, 5.725-5.85 GHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

14.6. Test result

PASS. (See below detailed test result)

14.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11A TX 5180MHz ANT1

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

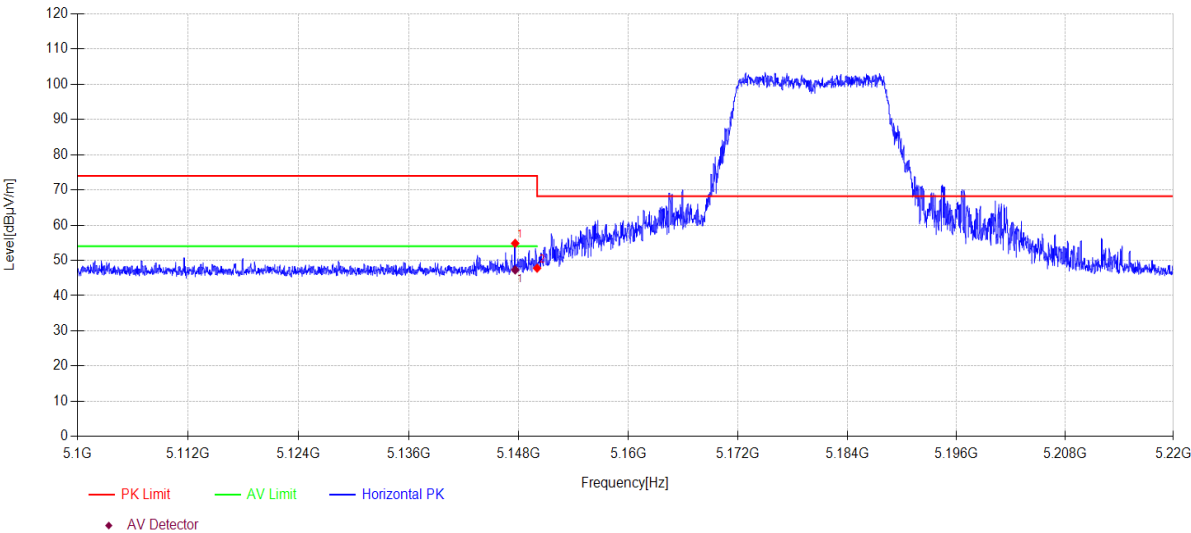
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Memo:

Sample Number:S24042530-002 Power Setting:80

Test Graph



Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5147.604	16.17	33.40	5.28	0.00	54.85	74.00	19.15	PK	Horizontal
2	5150.000	9.11	33.40	5.28	0.00	47.79	68.20	20.41	PK	Horizontal

Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5147.604	8.63	33.40	5.28	0.00	47.31	54.0	6.69	AV	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:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11A TX 5180MHz ANT1

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

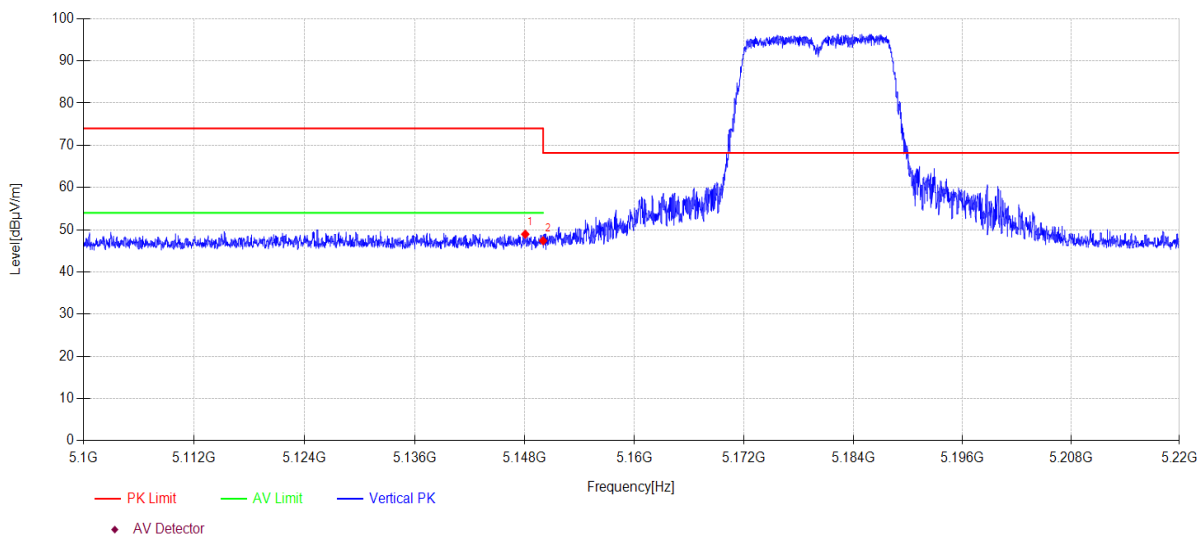
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Memo:

Sample Number:S24042530-002 Power Setting:80

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5148.048	10.25	33.40	5.28	0.00	48.93	74.00	25.07	PK	Vertical
2	5150.000	8.71	33.40	5.28	0.00	47.39	68.20	20.81	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:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11A TX 5180MHz ANT2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

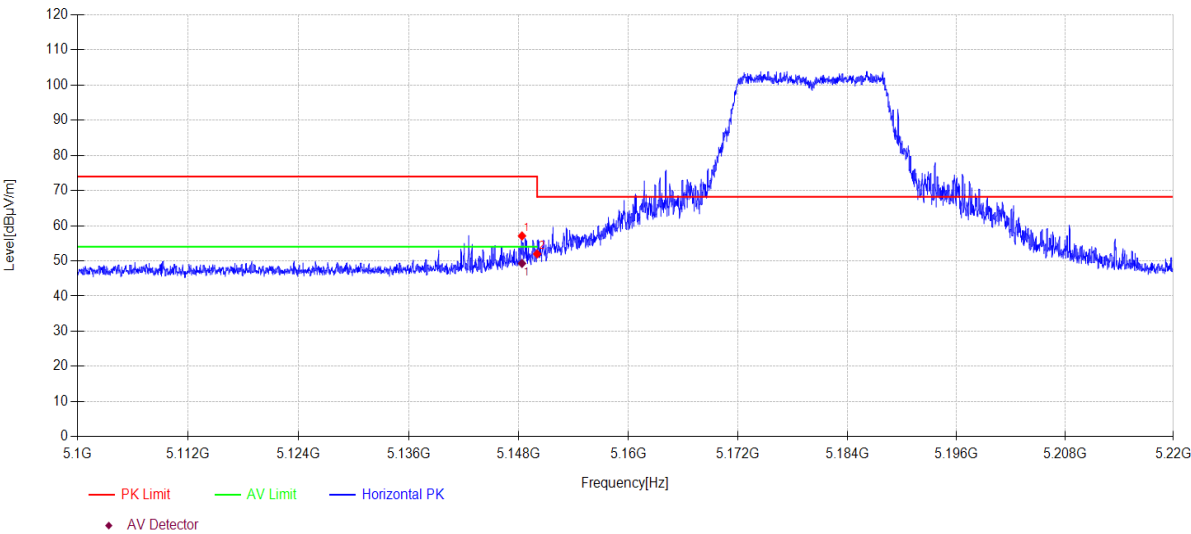
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Memo:

Sample Number:S24042530-002 Power Setting:80

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5148.348	18.41	33.40	5.28	0.00	57.09	74.00	16.91	PK	Horizontal
2	5150.000	13.31	33.40	5.28	0.00	51.99	68.20	16.21	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5148.348	10.61	33.40	5.28	0.00	49.29	54.0	4.71	AV	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:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11A TX 5180MHz ANT2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

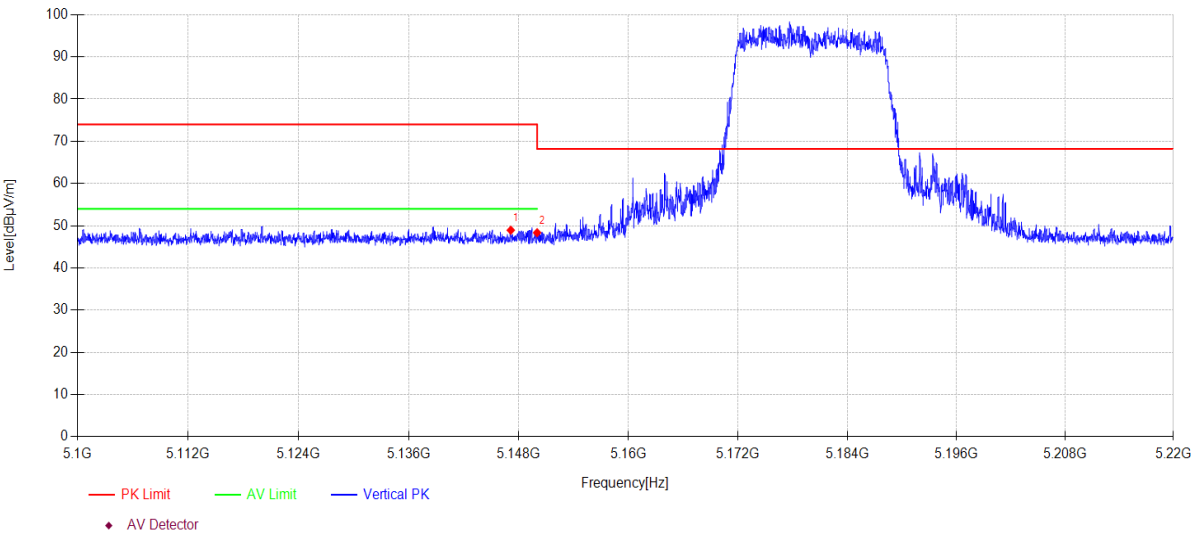
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Memo:

Sample Number:S24042530-002 Power Setting:80

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5147.124	10.26	33.40	5.28	0.00	48.94	74.00	25.06	PK	Vertical
2	5150.000	9.67	33.40	5.28	0.00	48.35	68.20	19.85	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.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11A TX 5320MHz ANT1

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

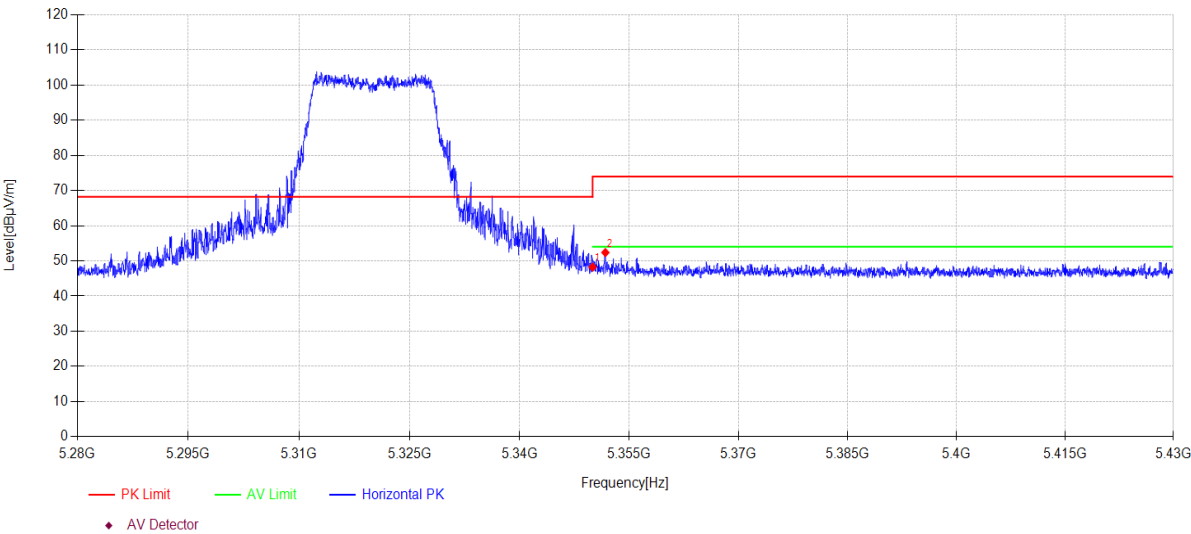
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Memo:

Sample Number:S24042530-002 Power Setting:80

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	9.73	33.10	5.41	0.00	48.24	74.00	25.76	PK	Horizontal
2	5351.745	13.87	33.10	5.41	0.00	52.38	74.00	21.62	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:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11A TX 5320MHz ANT1

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

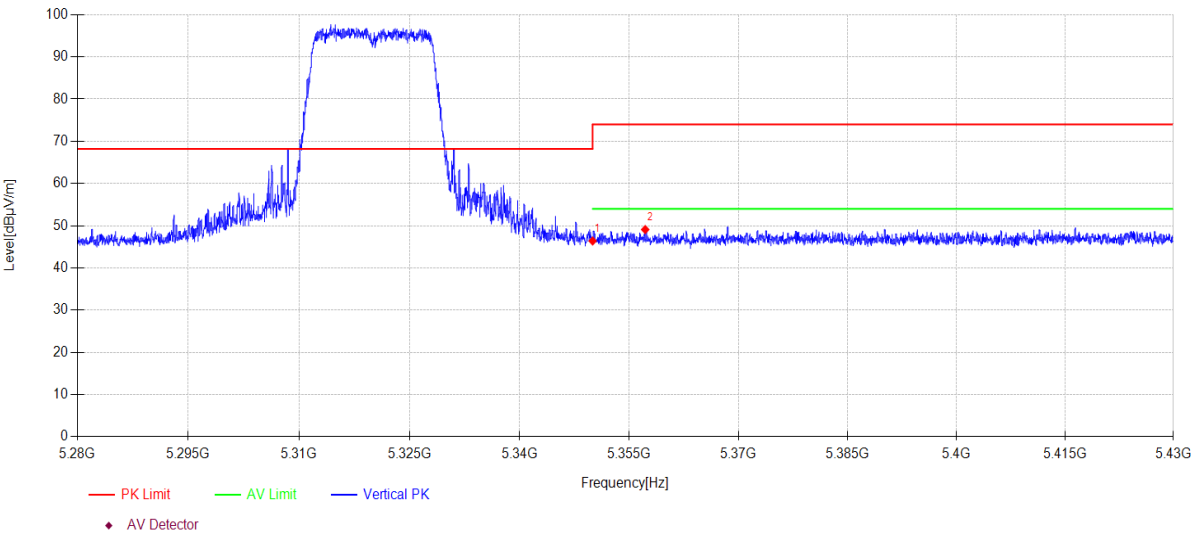
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Memo:

Sample Number:S24042530-002 Power Setting:80

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	7.88	33.10	5.41	0.00	46.39	74.00	27.61	PK	Vertical
2	5357.190	10.57	33.10	5.42	0.00	49.09	74.00	24.91	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:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11A TX 5320MHz ANT2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

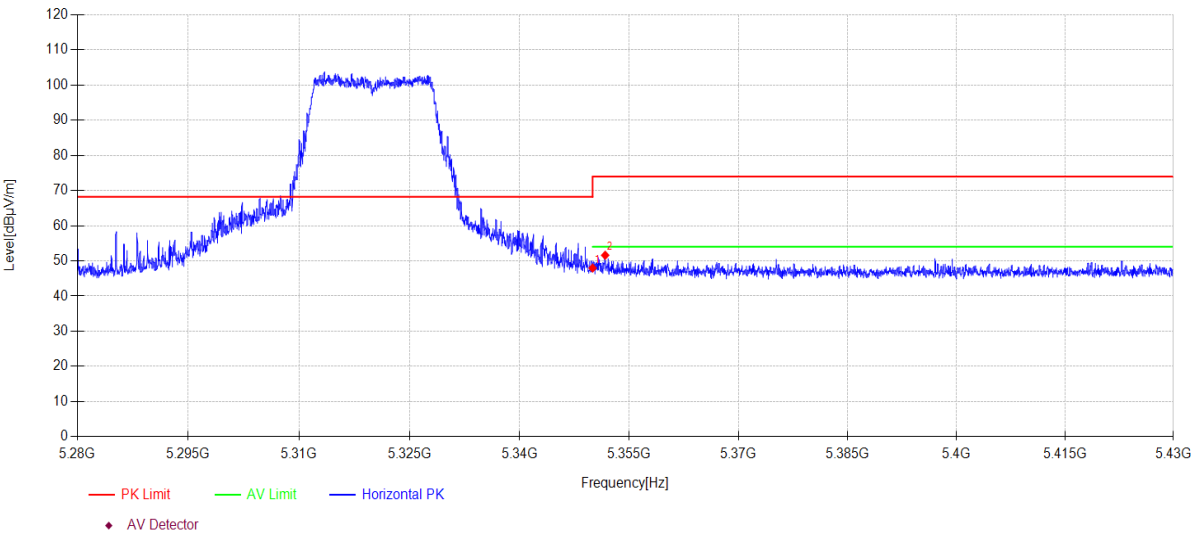
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Memo:

Sample Number:S24042530-002 Power Setting:80

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	9.46	33.10	5.41	0.00	47.97	74.00	26.03	PK	Horizontal
2	5351.715	13.09	33.10	5.41	0.00	51.60	74.00	22.40	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:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11A TX 5320MHz ANT2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

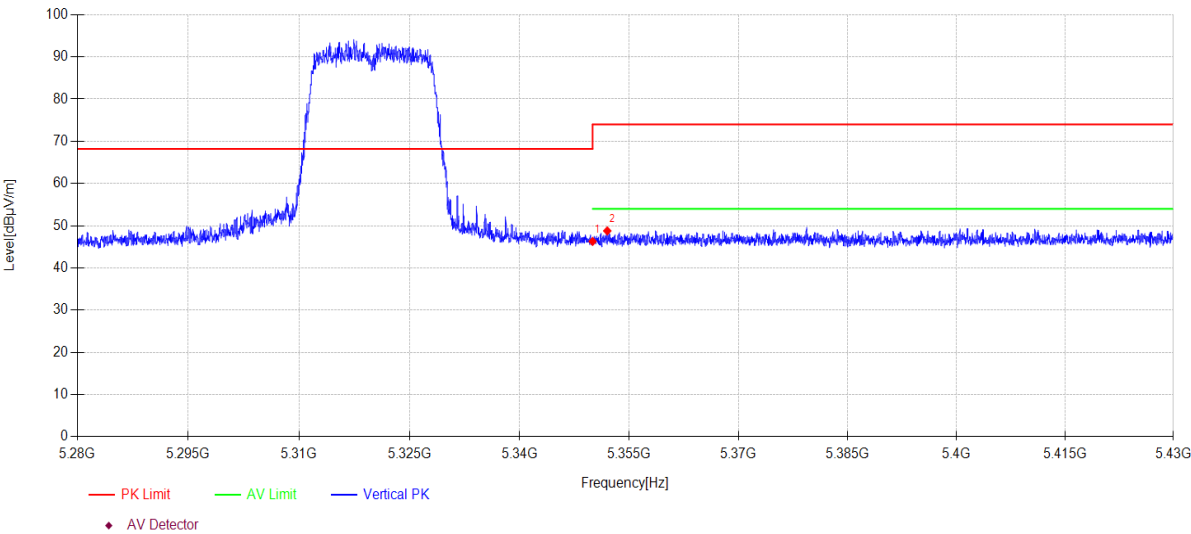
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Memo:

Sample Number:S24042530-002 Power Setting:80

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	7.78	33.10	5.41	0.00	46.29	74.00	27.71	PK	Vertical
2	5352.000	10.27	33.10	5.41	0.00	48.78	74.00	25.22	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:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11N20 TX 5180MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

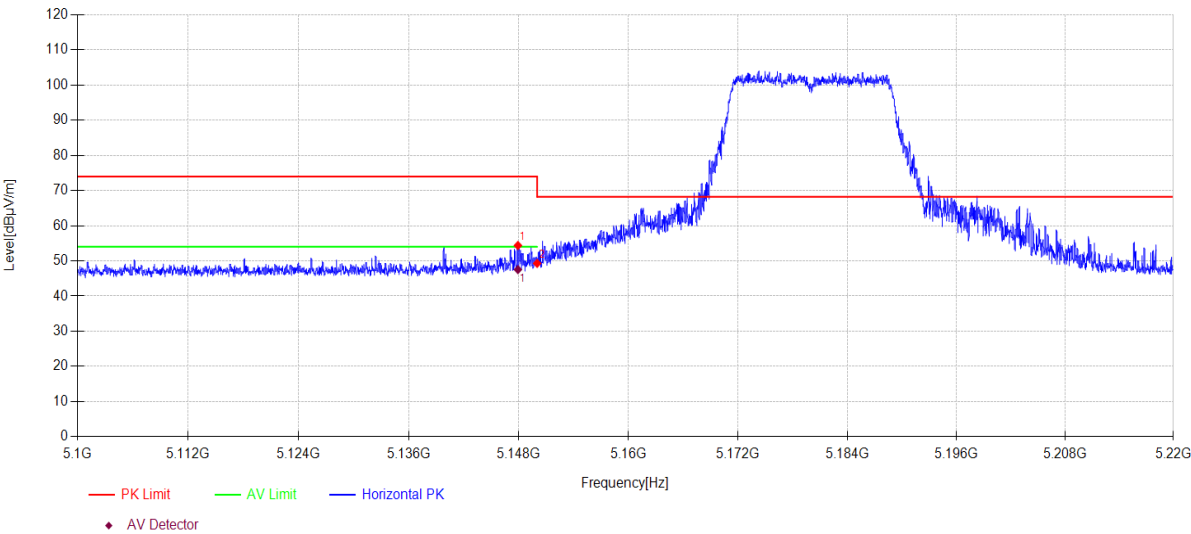
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Memo:

Sample Number:S24042530-002 Power Setting:80

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5147.904	15.71	33.40	5.28	0.00	54.39	74.00	19.61	PK	Horizontal
2	5150.000	10.62	33.40	5.28	0.00	49.30	68.20	18.90	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5147.904	8.84	33.40	5.28	0.00	47.52	54.0	6.48	AV	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:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11N20 TX 5180MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

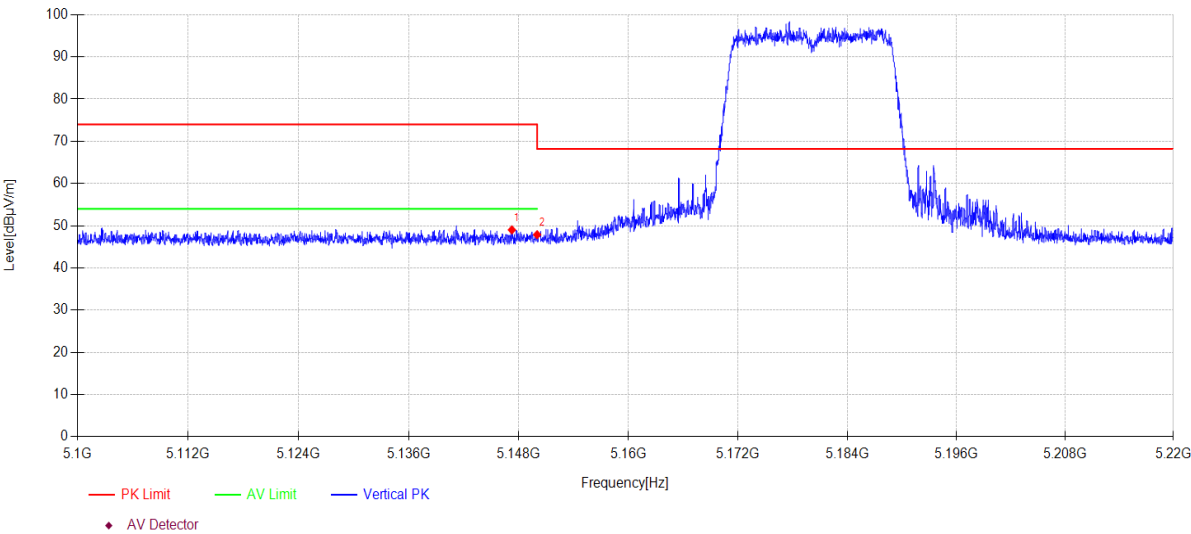
File Path:

d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G\30

Memo:

Sample Number:S24042530-002 Power Setting:80

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5147.244	10.34	33.40	5.28	0.00	49.02	74.00	24.98	PK	Vertical
2	5150.000	9.19	33.40	5.28	0.00	47.87	68.20	20.33	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.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11N20 TX 5320MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

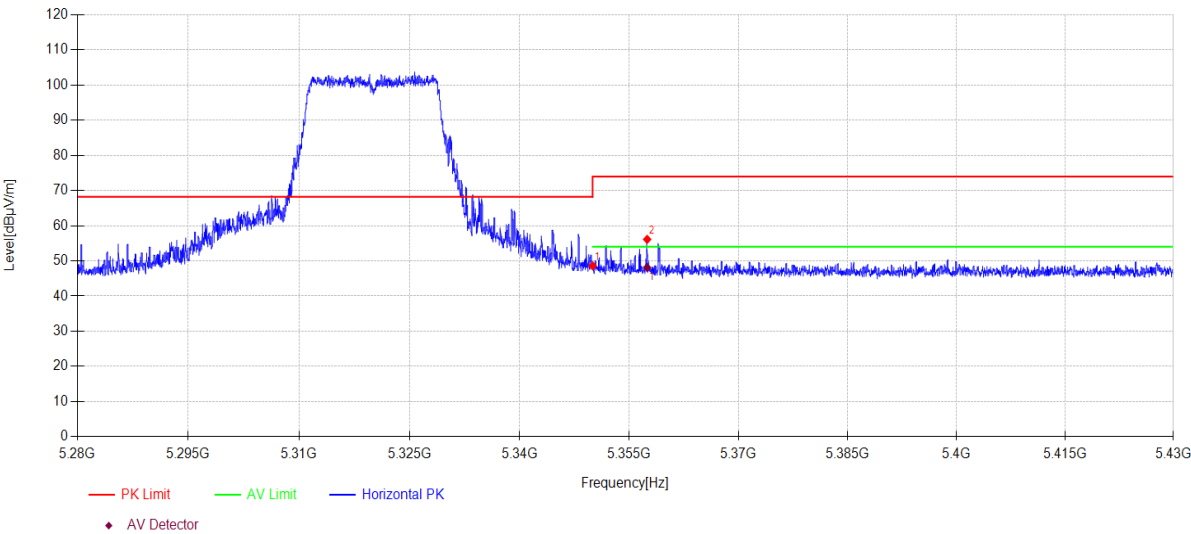
File Path:

d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G\27

Memo:

Sample Number:S24042530-002 Power Setting:80

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	10.08	33.10	5.41	0.00	48.59	74.00	25.41	PK	Horizontal
2	5357.460	17.61	33.10	5.42	0.00	56.13	74.00	17.87	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5357.460	9.58	33.10	5.42	0.00	48.10	54.0	5.90	AV	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:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11N20 TX 5320MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

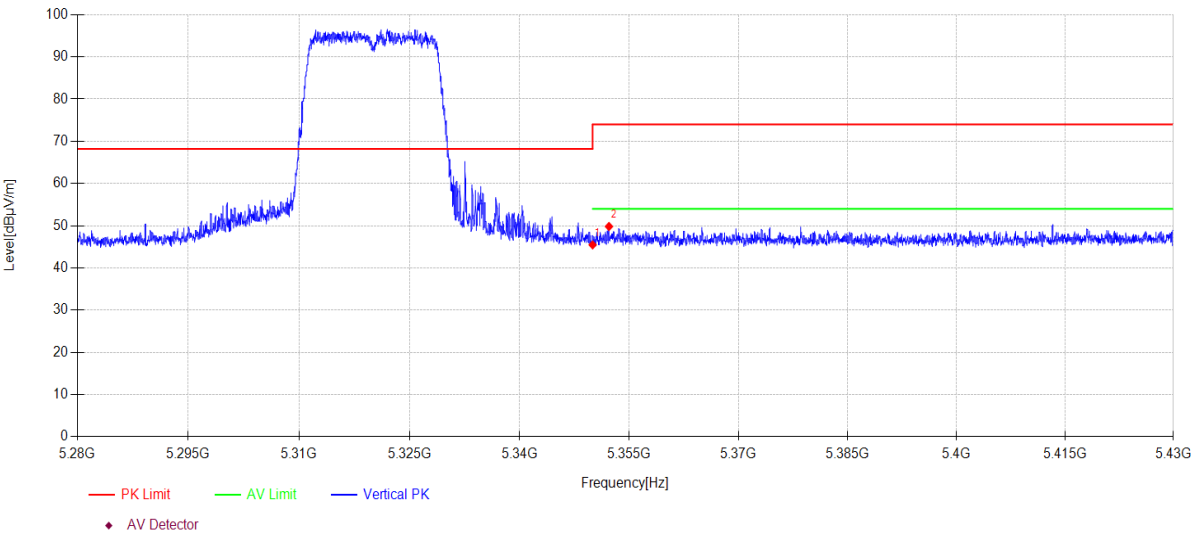
File Path:

d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G\28

Memo:

Sample Number:S24042530-002 Power Setting:80

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	6.96	33.10	5.41	0.00	45.47	74.00	28.53	PK	Vertical
2	5352.240	11.31	33.10	5.41	0.00	49.82	74.00	24.18	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:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5180MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

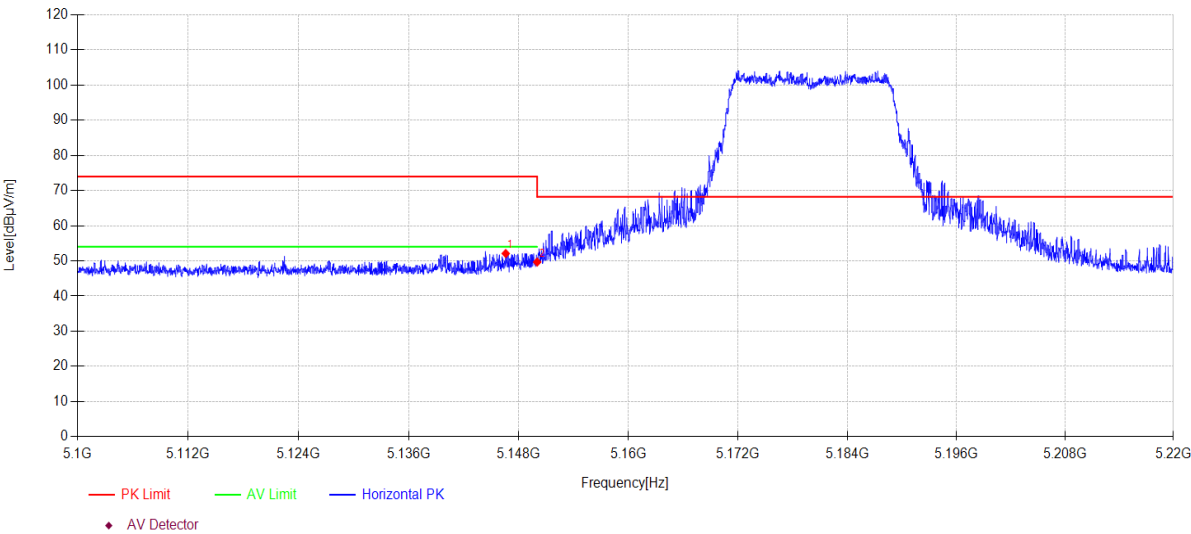
File Path:

d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G\35

Memo:

Sample Number:S24042530-002 Power Setting:80

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5146.572	13.41	33.40	5.28	0.00	52.09	74.00	21.91	PK	Horizontal
2	5150.000	11.00	33.40	5.28	0.00	49.68	68.20	18.52	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:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5180MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

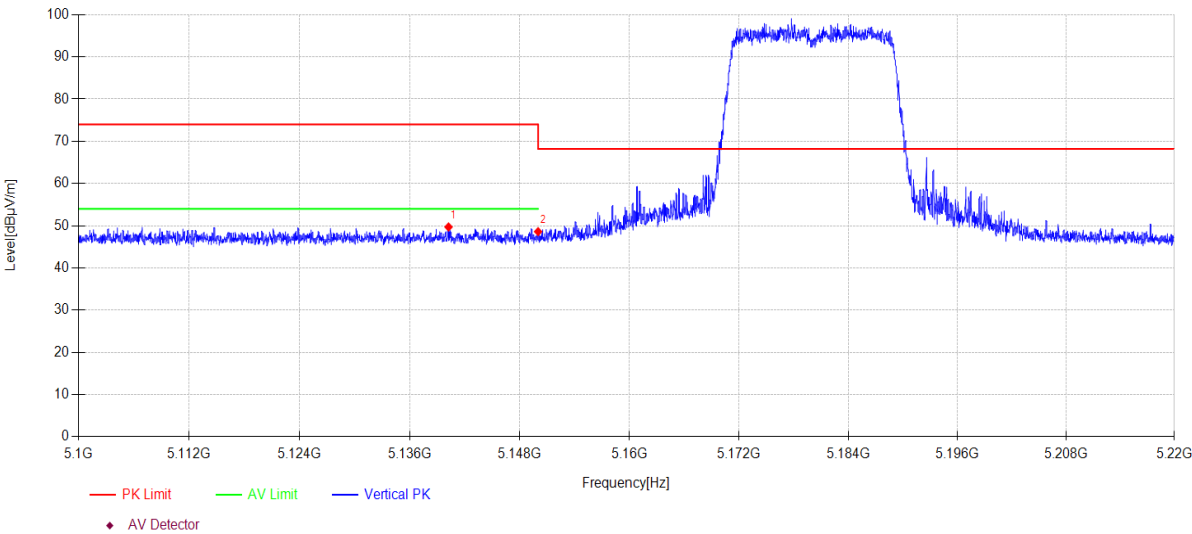
File Path:

d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G\36

Memo:

Sample Number:S24042530-002 Power Setting:80

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5140.224	11.03	33.40	5.27	0.00	49.70	74.00	24.30	PK	Vertical
2	5150.000	9.92	33.40	5.28	0.00	48.60	68.20	19.60	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:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5320MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

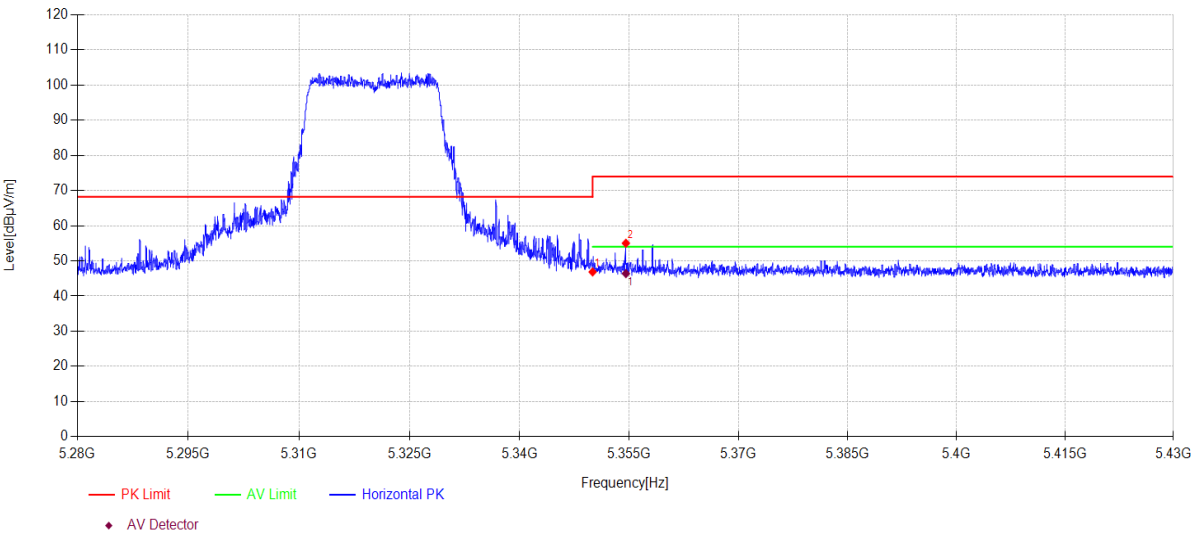
File Path:

d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G\37

Memo:

Sample Number:S24042530-002 Power Setting:80

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	8.35	33.10	5.41	0.00	46.86	74.00	27.14	PK	Horizontal
2	5354.550	16.52	33.10	5.41	0.00	55.03	74.00	18.97	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5354.550	7.89	33.10	5.41	0.00	46.40	54.0	7.60	AV	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:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11AC20 TX 5320MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

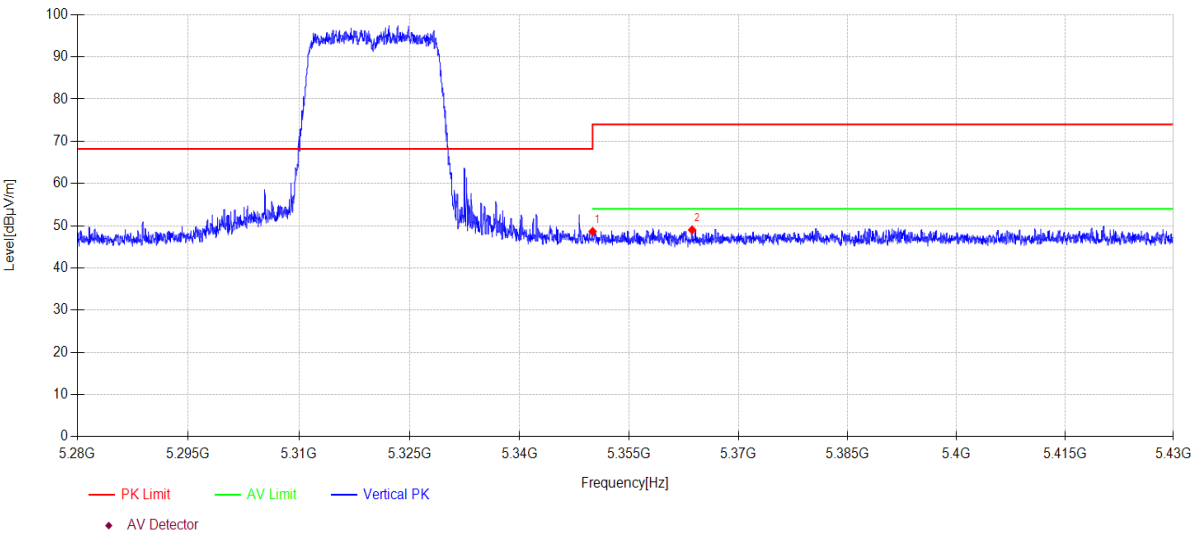
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d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G\38

Memo:

Sample Number:S24042530-002 Power Setting:80

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	10.11	33.10	5.41	0.00	48.62	74.00	25.38	PK	Vertical
2	5363.625	10.48	33.10	5.42	0.00	49.00	74.00	25.00	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:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11N40 TX 5190MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

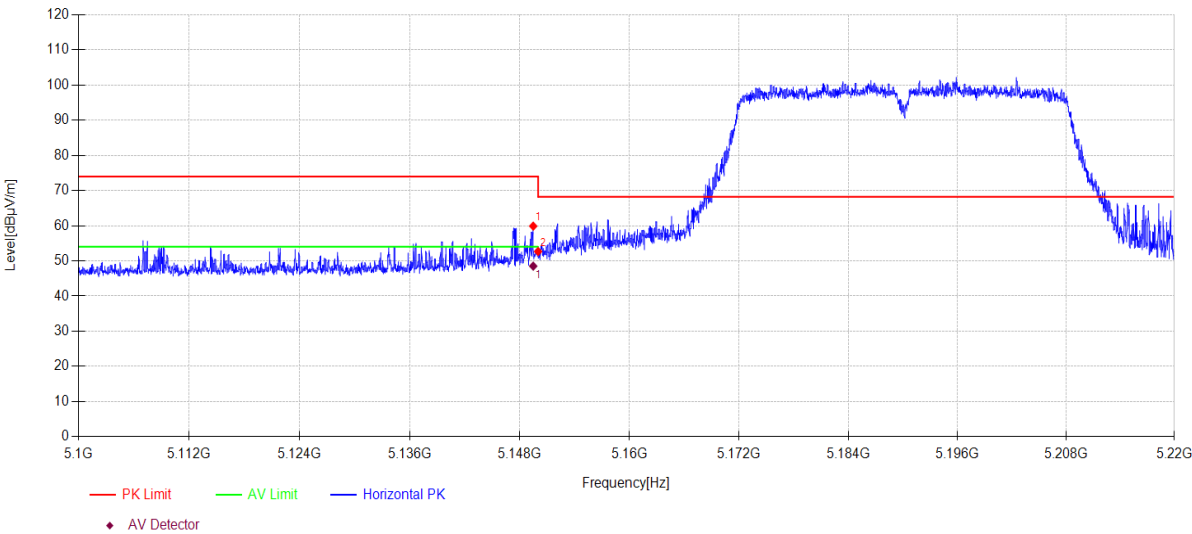
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d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G\31

Memo:

Sample Number:S24042530-002 Power Setting:70

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5149.464	21.21	33.40	5.28	0.00	59.89	74.00	14.11	PK	Horizontal
2	5150.000	14.00	33.40	5.28	0.00	52.68	68.20	15.52	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5149.464	9.84	33.40	5.28	0.00	48.52	54.0	5.48	AV	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:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11N40 TX 5190MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

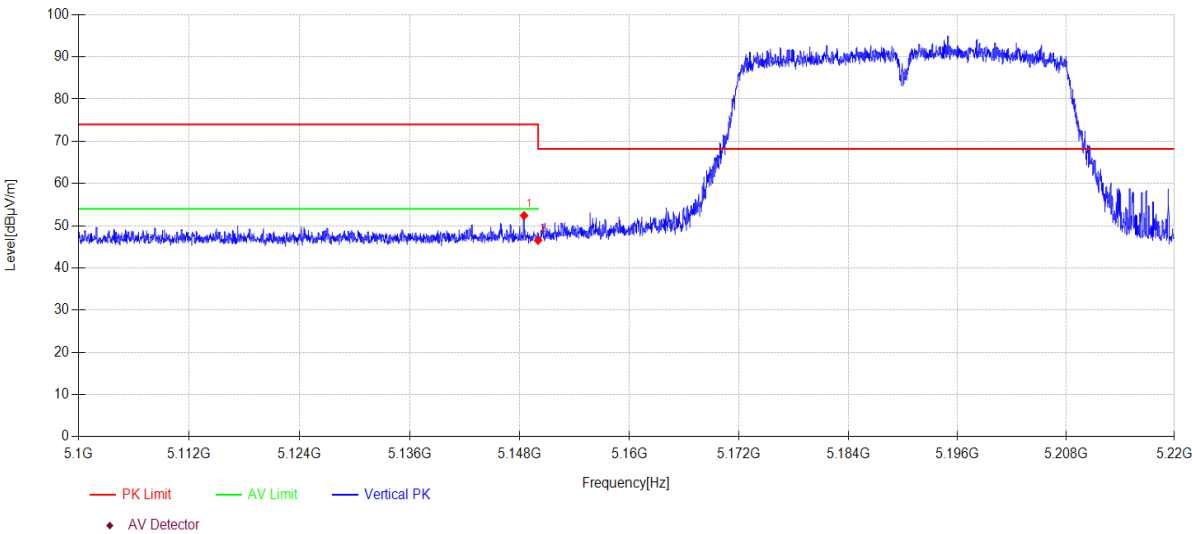
File Path:

d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G\32

Memo:

Sample Number:S24042530-002 Power Setting:70

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5148.468	13.73	33.40	5.28	0.00	52.41	74.00	21.59	PK	Vertical
2	5150.000	7.85	33.40	5.28	0.00	46.53	68.20	21.67	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:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11N40 TX 5310MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

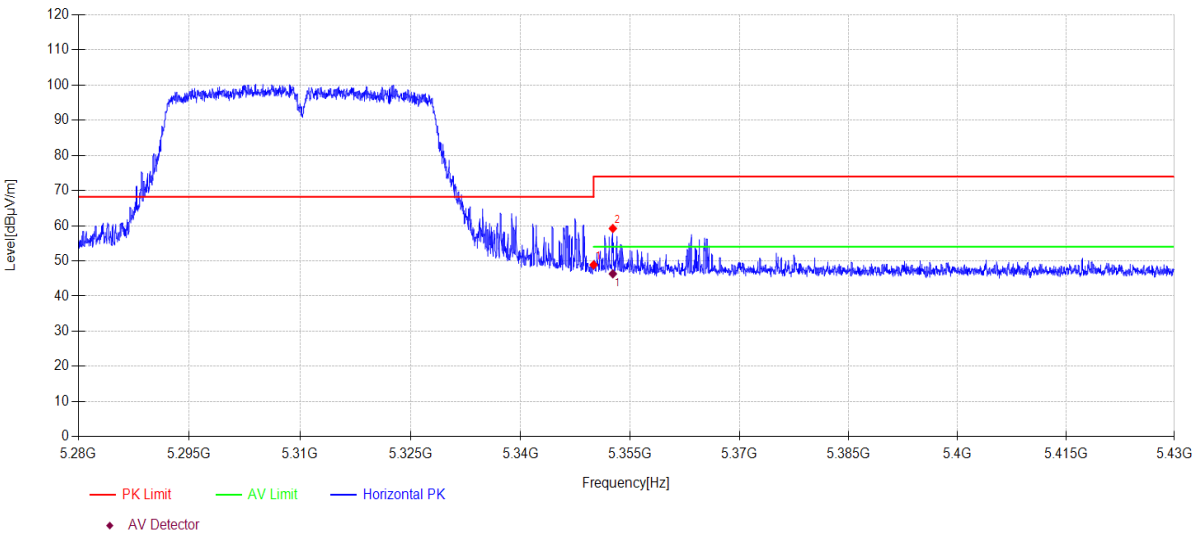
File Path:

d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G\33

Memo:

Sample Number:S24042530-002 Power Setting:70

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	10.36	33.10	5.41	0.00	48.87	74.00	25.13	PK	Horizontal
2	5352.630	20.70	33.10	5.41	0.00	59.21	74.00	14.79	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5352.630	7.81	33.10	5.41	0.00	46.32	54.0	7.68	AV	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:

2024-06-05

Tested By:

Junchang Du

EUT:

WINBOX

Model Number:

WINBOX DV8947

Test Mode:

11N40 TX 5310MHz ANT1+2

Power Supply:

AC 120V/60Hz

Condition:

Temp:24.9°C;Humi:66.0%

Test Site:

DDT 3# Chamber

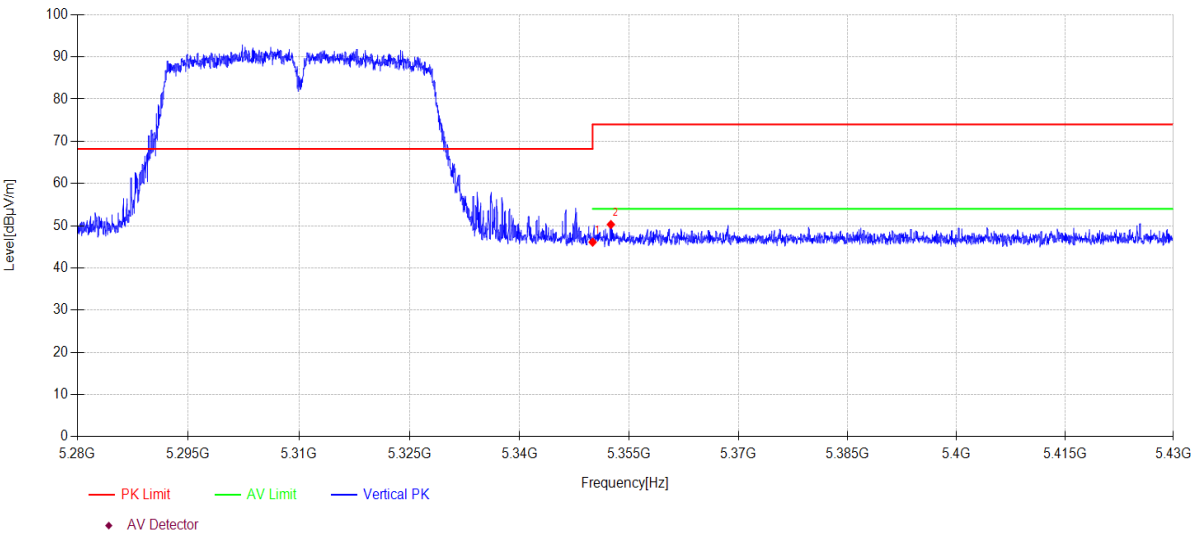
File Path:

d:\ts\2024 report data\Q24042530-2E\FCC ABOVE 1G 5G\34

Memo:

Sample Number:S24042530-002 Power Setting:70

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	7.60	33.10	5.41	0.00	46.11	74.00	27.89	PK	Vertical
2	5352.495	11.77	33.10	5.41	0.00	50.28	74.00	23.72	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.