

Test result and instruments about Type certificate

Bluetooth Low Energy

1. General

Model name	RT1	Date	2020/5/29
Serial number	-	Place	SGS Hong Kong Ltd.
Class of emissions, Assigned frequency and Antenna power	F1D 2402-2480MHz (2MHz Separation 40ch) 0.001W	Remarks	Bluetooth 4.0 (LE)

2. Measuring Instruments

Equipment type	Model number	Serial number	Manufacturer	Calibrated Date	Calibration Authority	Remarks
Signal and Spectrum Analyzer 2H	FSW26	101354	ROHDE & SCHWARZ	2019/10/29	Ceprei (c)	

3. Test Result

Condition	Test Items *3	Unit	Normal Voltage + 10% (4.62 V)			Normal Voltage (4.2 V)			Normal Voltage - 10% (3.78 V)			Judgment	Limit	Remarks	
			2402	2442	2480	2402	2442	2480	2402	2442	2480				
Normal (24.5° C, 56 %)	Frequency	MHz	2401.985	2441.984	2479.984	2401.985	2441.985	2479.984	2441.985	2441.996	2479.983	Pass			
		ppm	-6.2448	-6.5520	-6.4516	-6.2448	-6.1425	-6.4516	16646.5445	-1.6380	-6.8548		50ppm		
	Occupied Bandwidth	MHz	1.2735166	1.5629522	2.1997106	1.2879884	1.5629522	2.1997106	1.2879884	1.5629522	2.1997106	Pass	26MHz		
	Spurious	30MHz-2387MHz	dBm	-42.50	-41.80	-41.92	-41.49	-41.28	-42.00	-41.62	-42.38	-41.77	Pass	-26dBm	
			MHz	1201.190	1220.990	1240.320	1201.190	1220.990	1240.320	1201.190	1220.990	1240.320			
		2387MHz-2400MHz	dBm	-31.93	-33.50	-32.07	-31.19	-32.24	-31.69	-31.14	-31.37	-32.45	Pass	-16dBm	
			MHz	2399.188	2396.773	2397.994	2395.838	2399.290	2393.175	2397.136	2396.773	2396.370			
		2483.5MHz-2496.5MHz	dBm	-31.81	-31.57	-31.61	-31.60	-31.67	-31.83	-31.29	-32.01	-31.65	Pass	-16dBm	
			MHz	2494.870	2495.169	2495.896	2495.156	2488.779	2494.519	2495.026	2494.468	2487.818			
		2496.5MHz-12.5GHz	dBm	-37.54	-38.25	-38.41	-37.90	-38.07	-38.40	-37.31	-38.05	-38.52	Pass	-26dBm	
			MHz	6979.100	6979.100	6971.100	6961.100	6991.100	6967.100	6963.100	6905.000	6995.100			
	Antenna Power	W/MHz	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	Pass	0.01W/MHz		
		%	-0.01	0.00	0.00	-0.01	0.00	0.00	-0.01	0.00	0.00		+20 ~ -80%		
	Secondary Radiated Emissions	30MHz-1GHz	dBm	-70.74	-70.97	-71.10	-69.57	-72.95	-71.14	-67.39	-73.88	-68.76	Pass	-54dBm	
			MHz	600.270	997.580	619.660	902.610	989.830	619.660	901.640	545.040	894.860			
		1GHz-12.5GHz	dBm	-52.04	-51.56	-52.99	-52.10	-51.57	-53.01	-52.04	-51.56	-52.99	Pass	-47dBm	
			MHz	2747.401	2793.125	2836.554	2747.412	2793.123	2836.552	-2747.401	2793.125	-2836.554			
	Interference prevention function			/	/	/	/	OK	/	/	/	/	Pass		

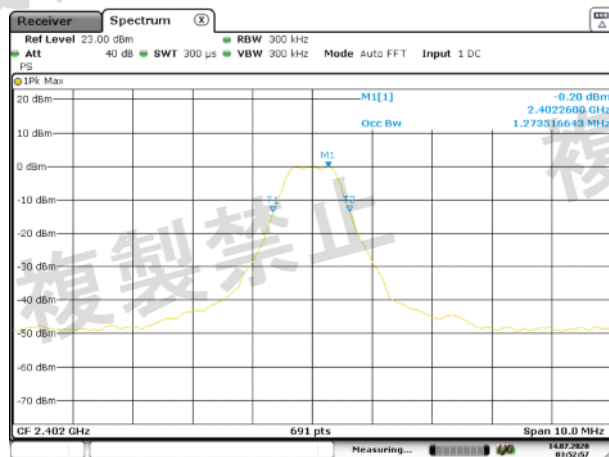
*1 Please describe the relevant clause in the remarks column. (Either of (a) ~ (d) of 2 paragraph 4 of Article 24 of the Radio Law)

*2 Please describe test frequencies (Low, Middle, High).

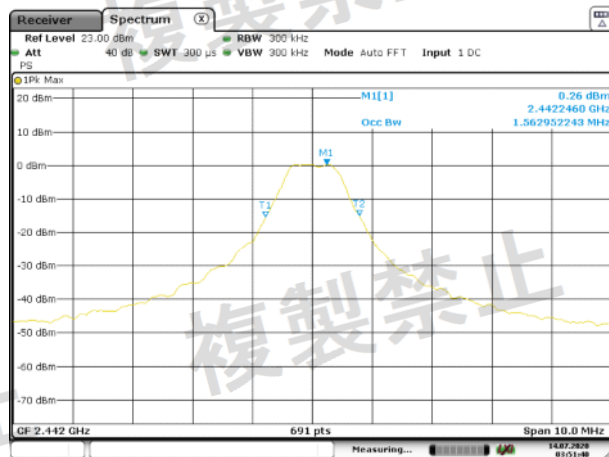
OBW

4.62V

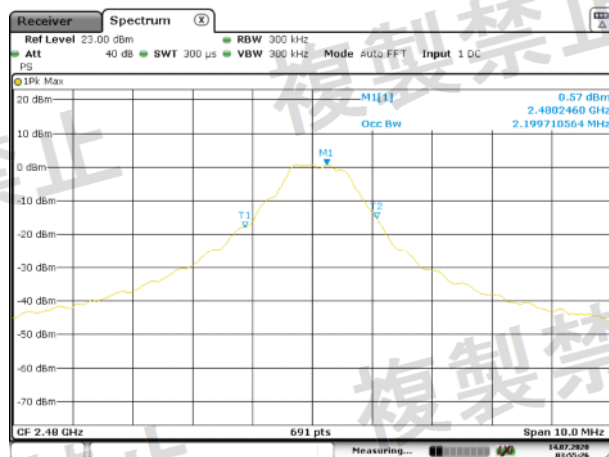
2402MHz



2442MHz

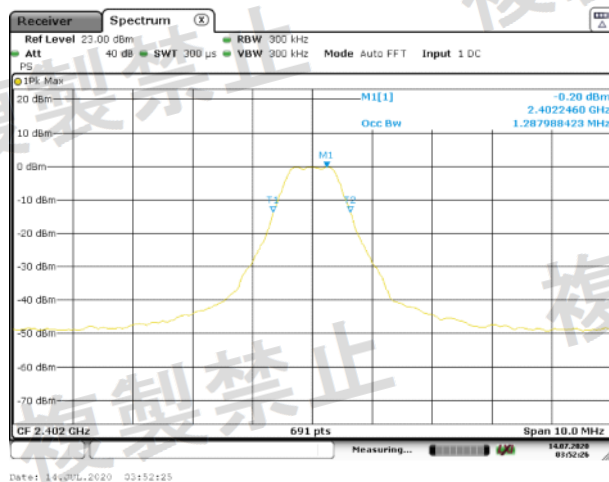


2480MHz

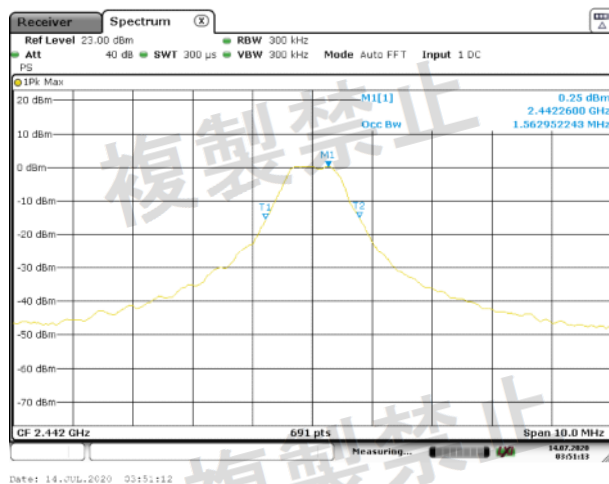


4.2V

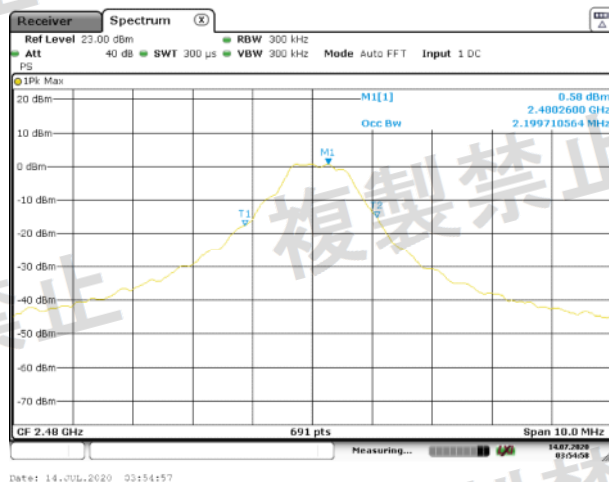
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2442MHz

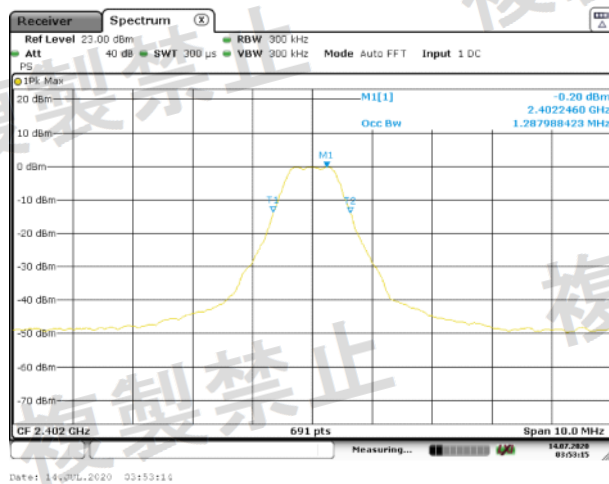


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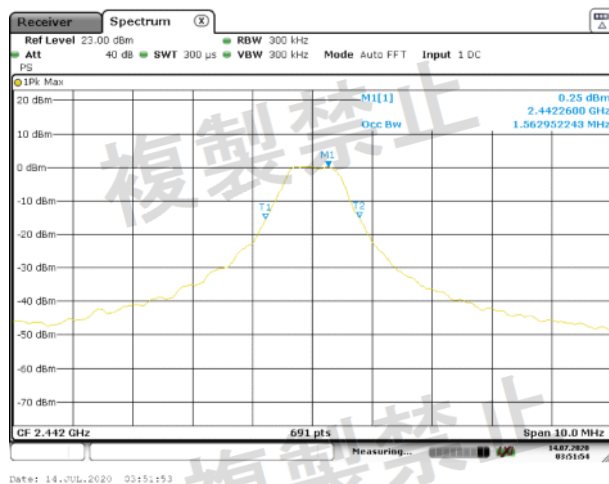


3.78V

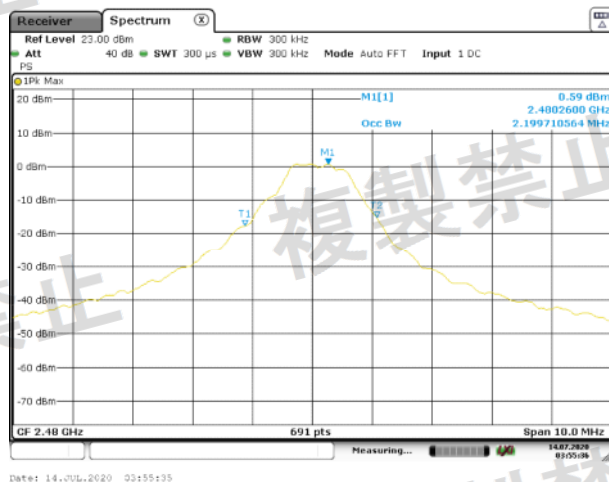
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2442MHz



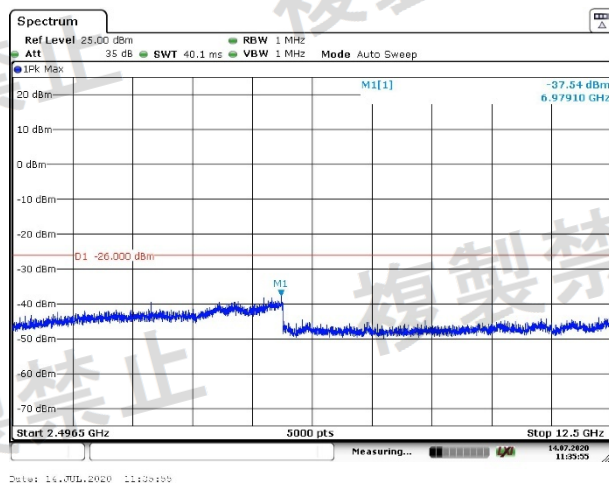
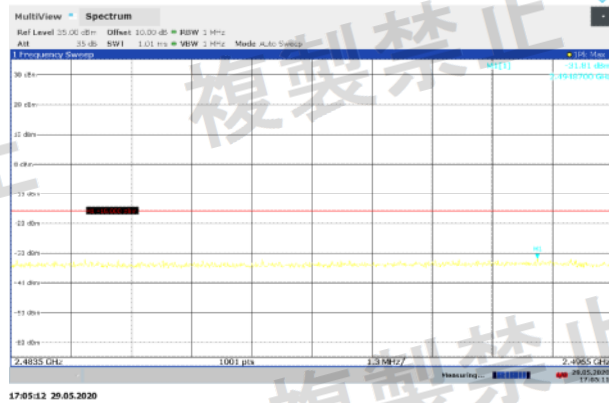
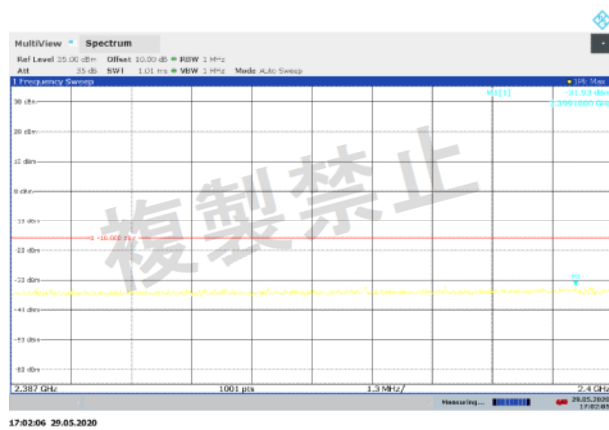
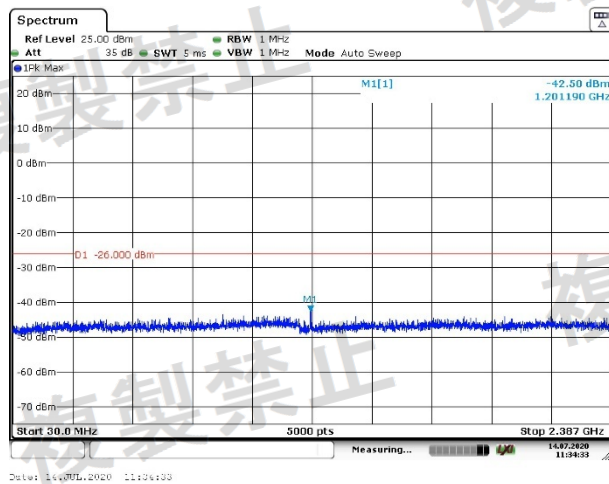
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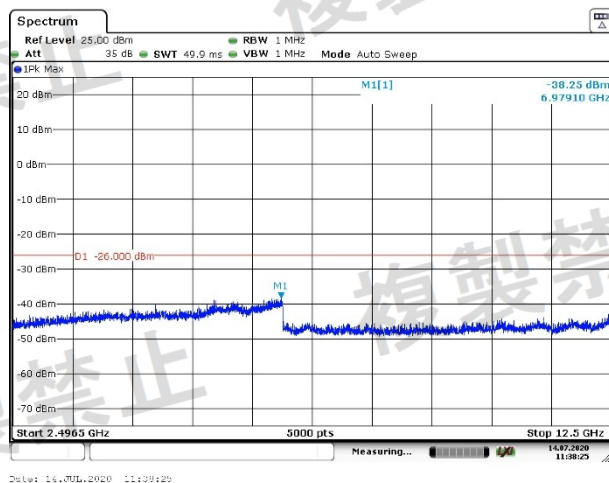
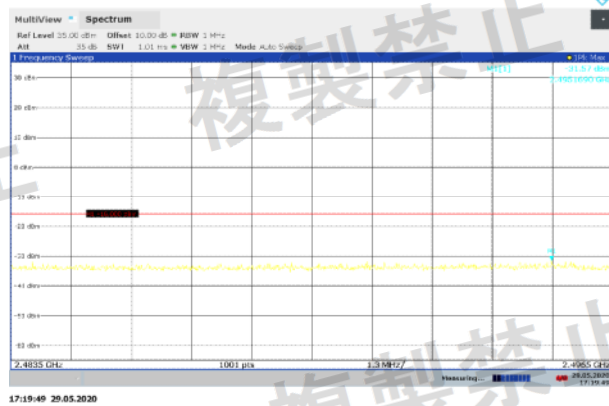
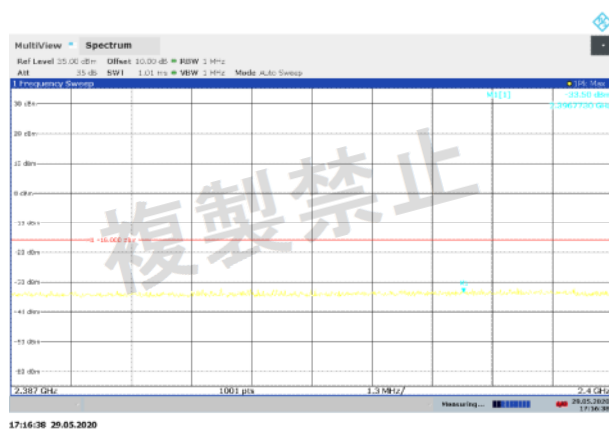
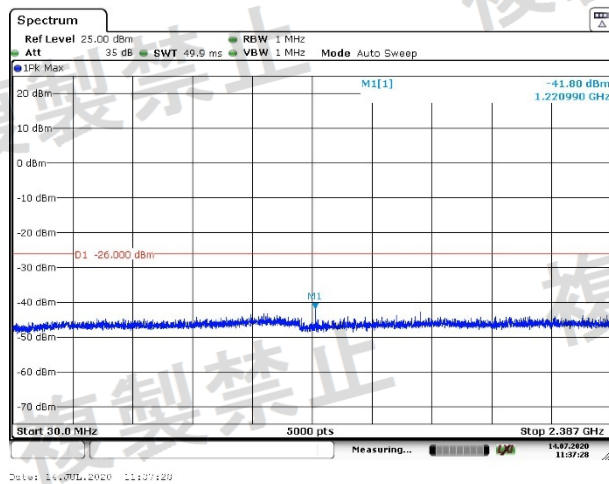
Spurious Emissions

4.62V

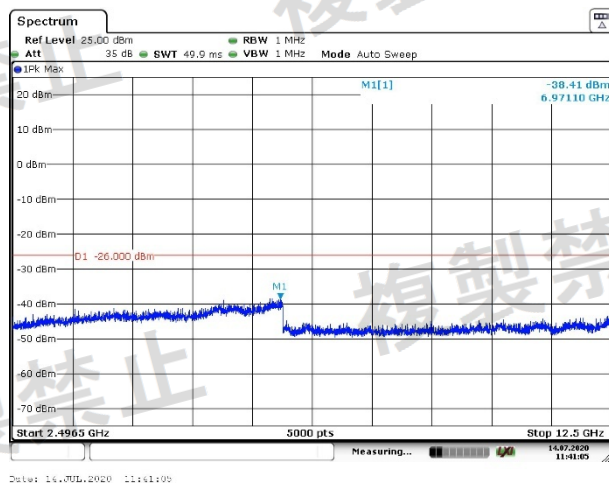
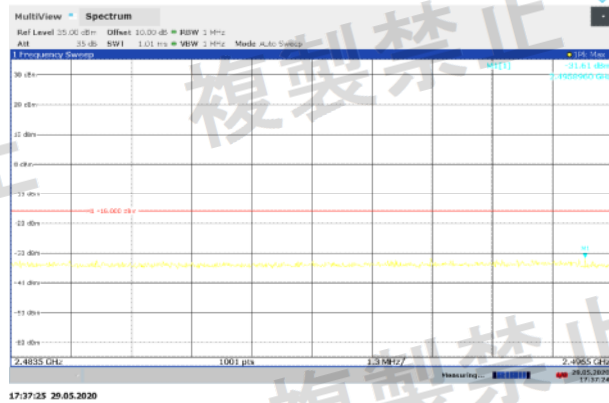
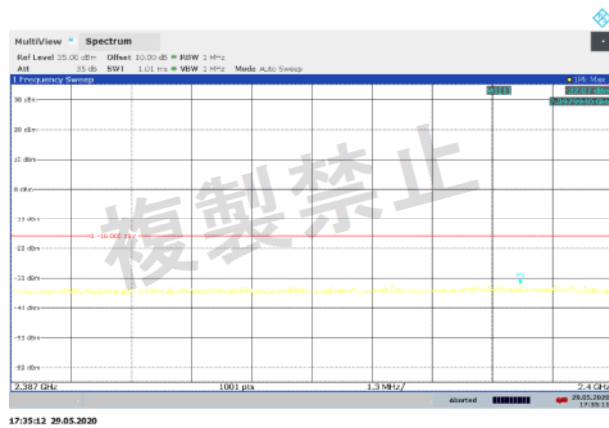
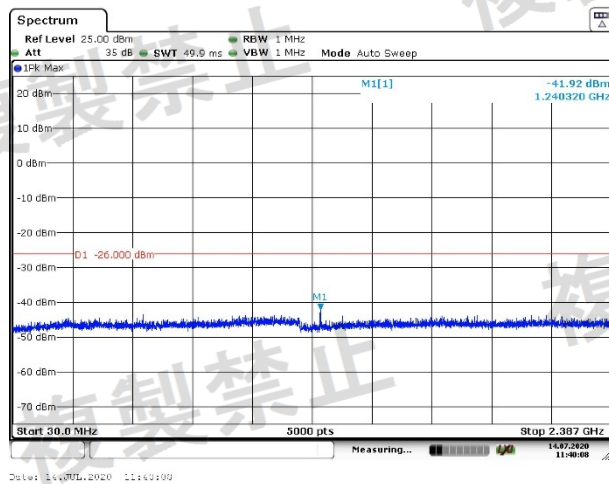
2402MHz



2442MHz

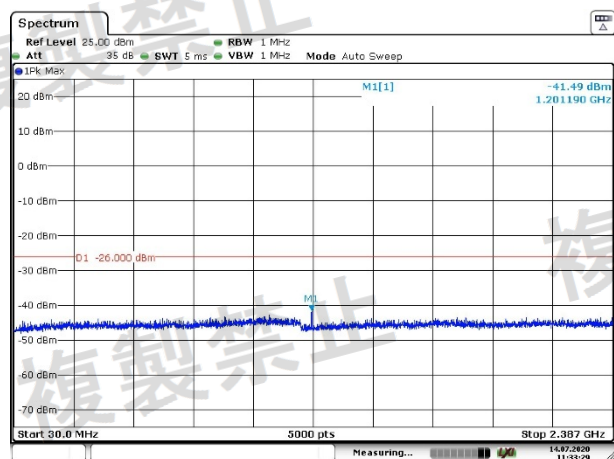


2480MHz

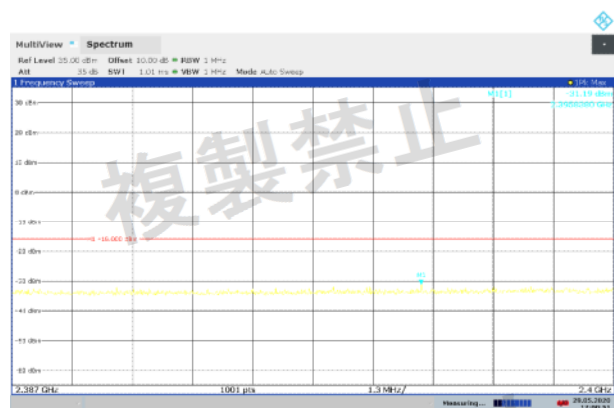


4.2V

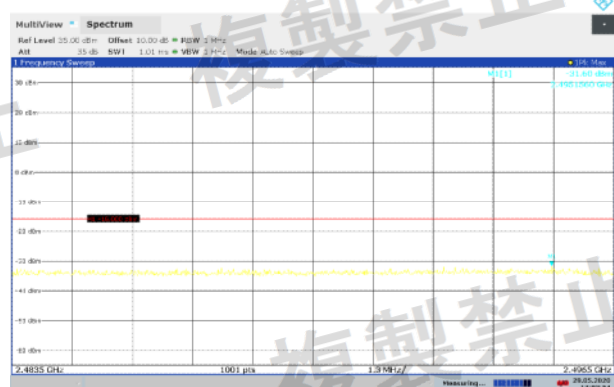
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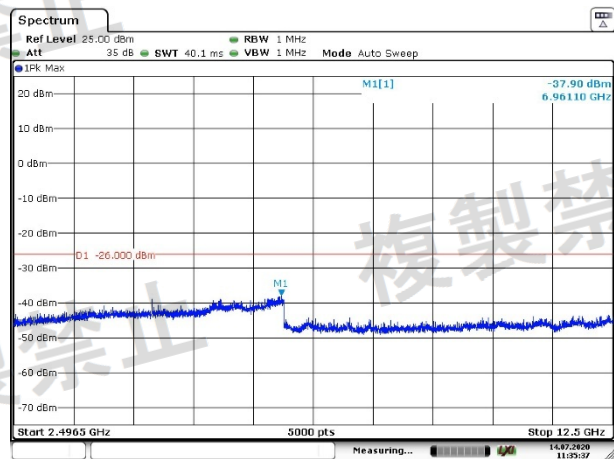
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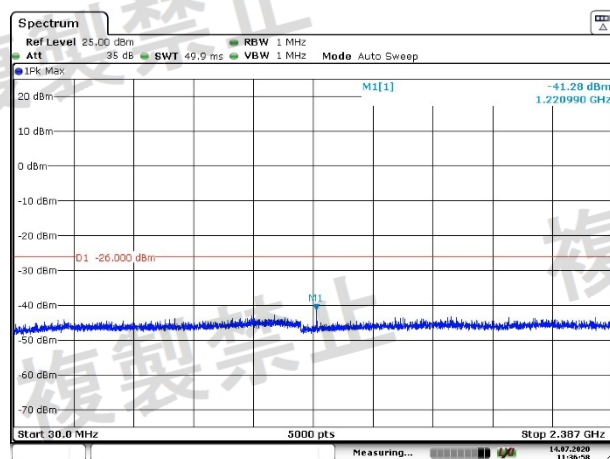


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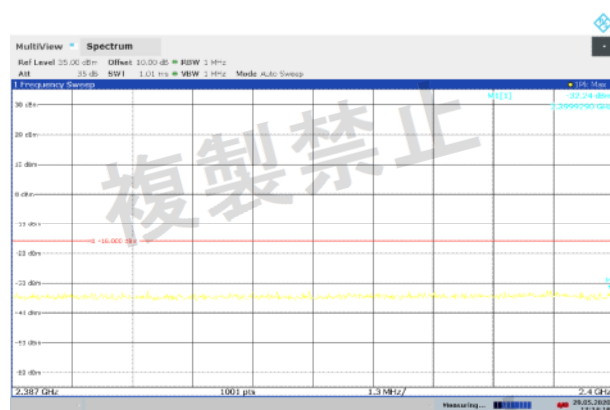


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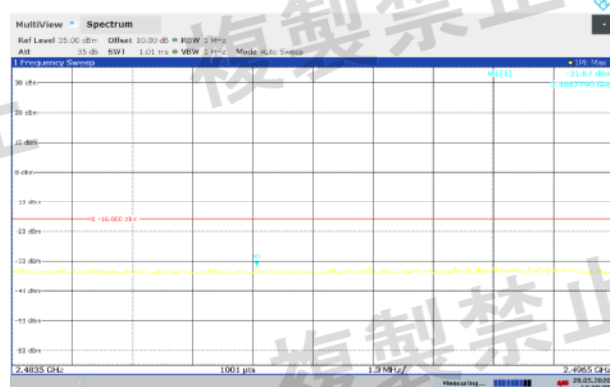
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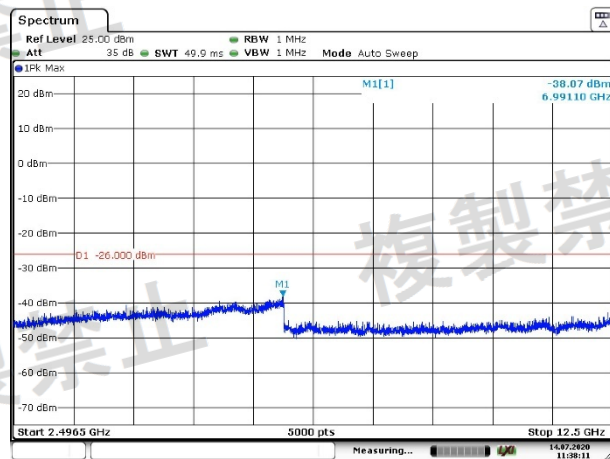
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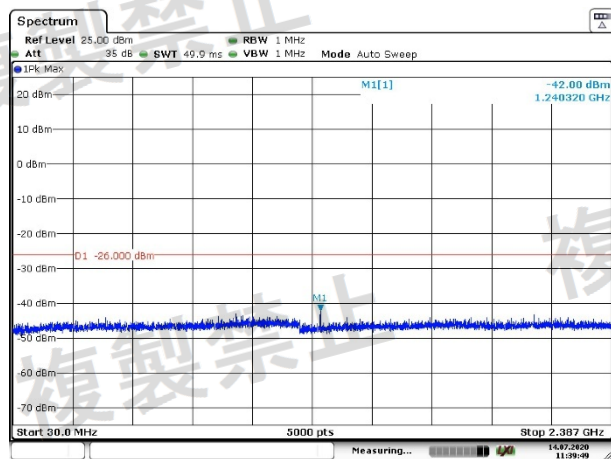


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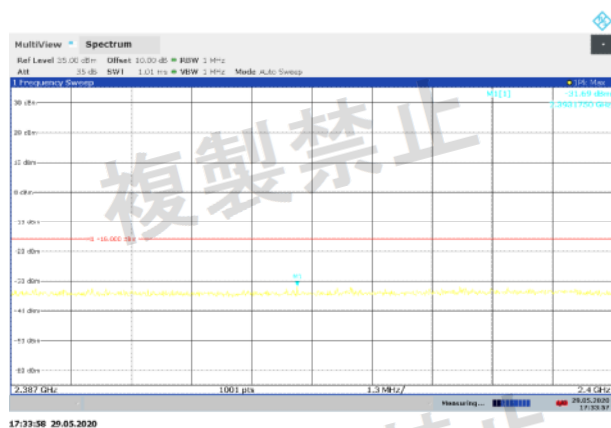


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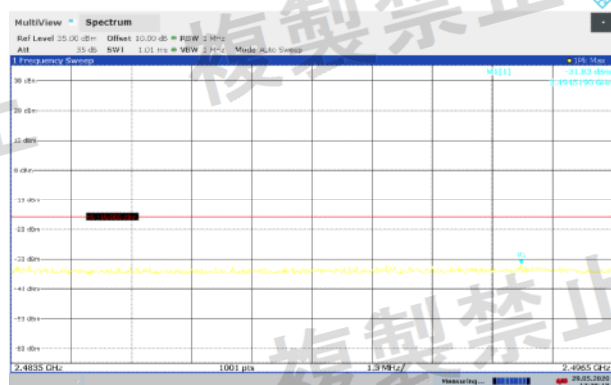
2480MHz



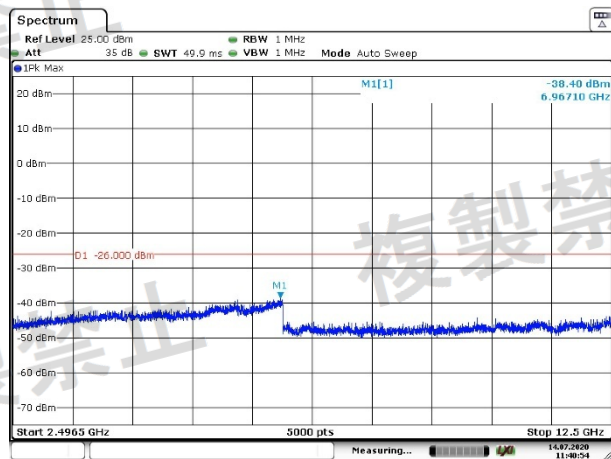
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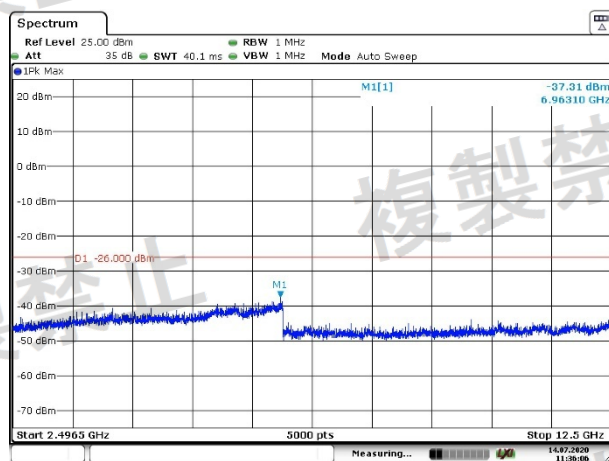
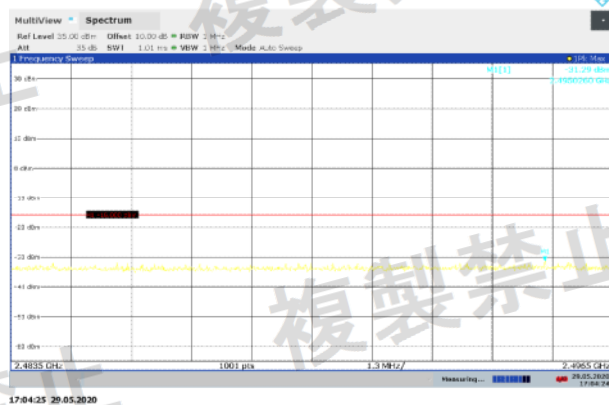
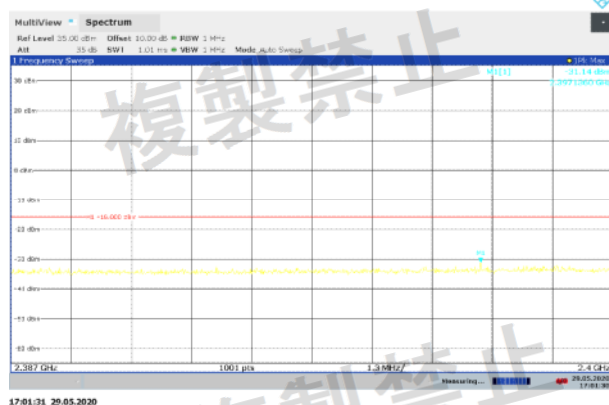
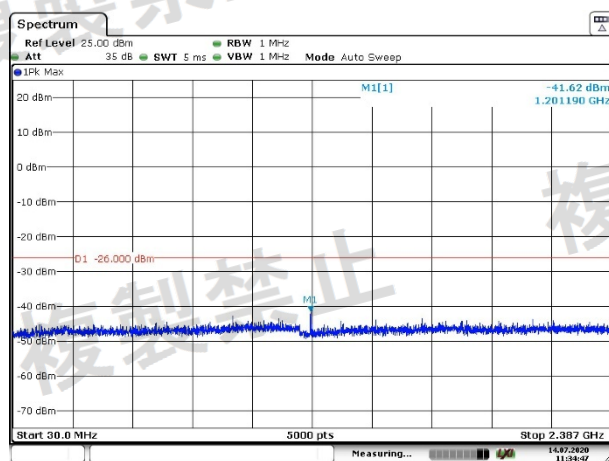
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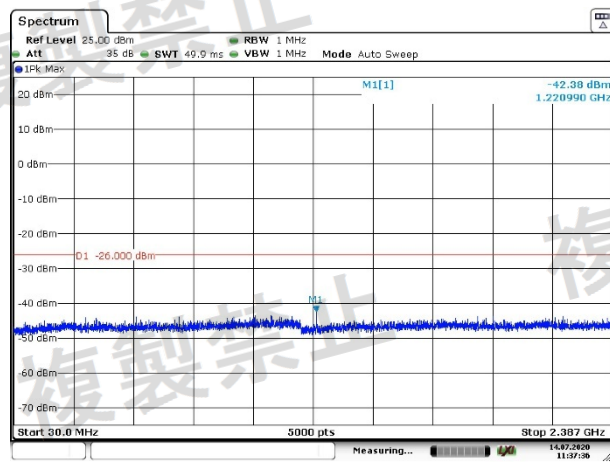
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3.78V

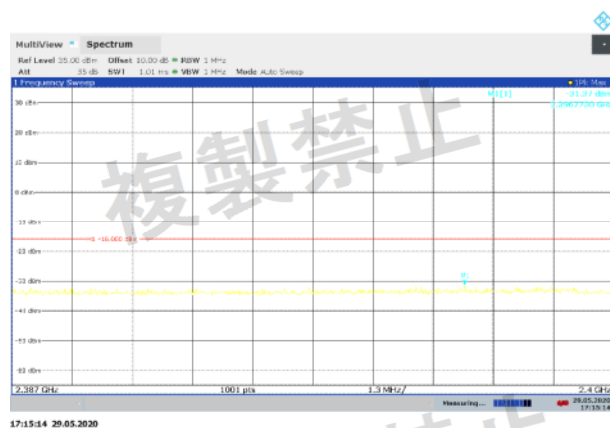
2402MHz



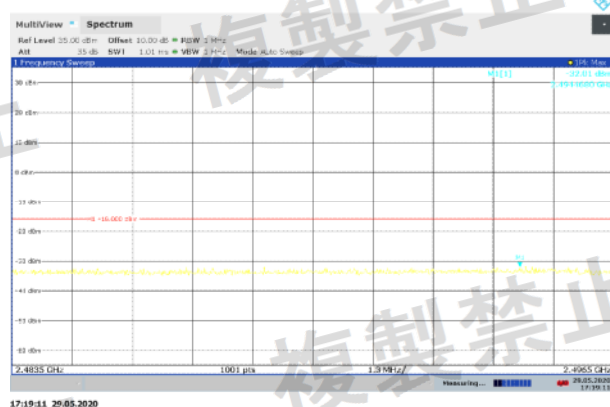
2442MHz



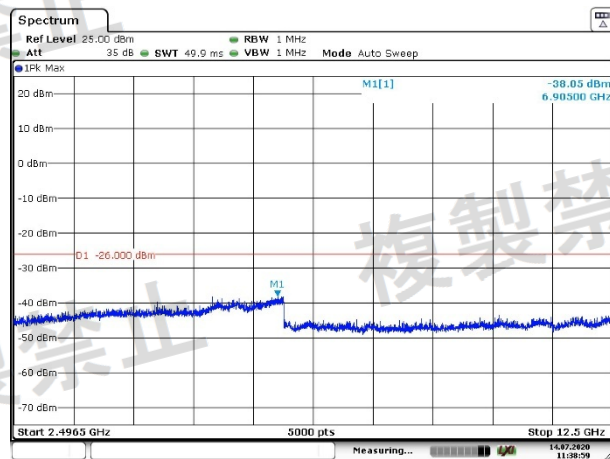
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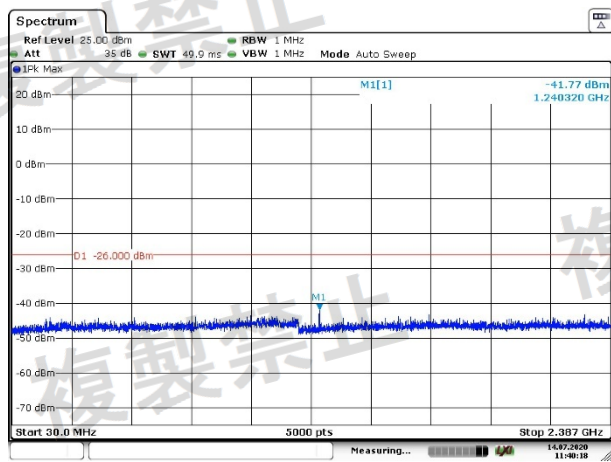


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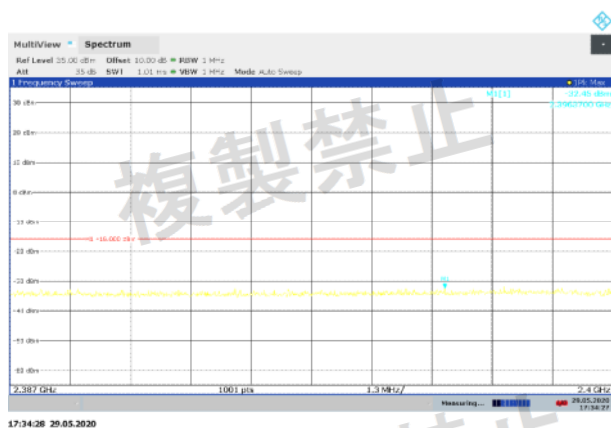


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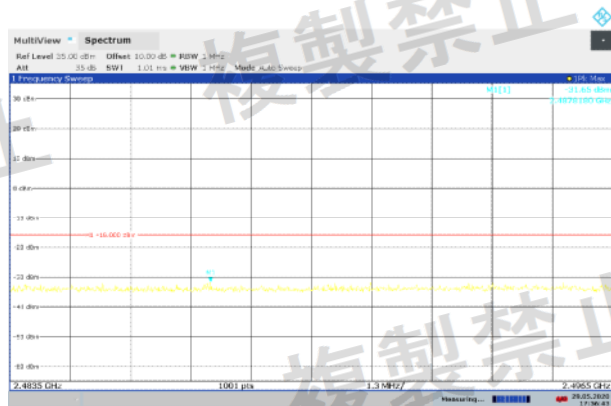
2480MHz



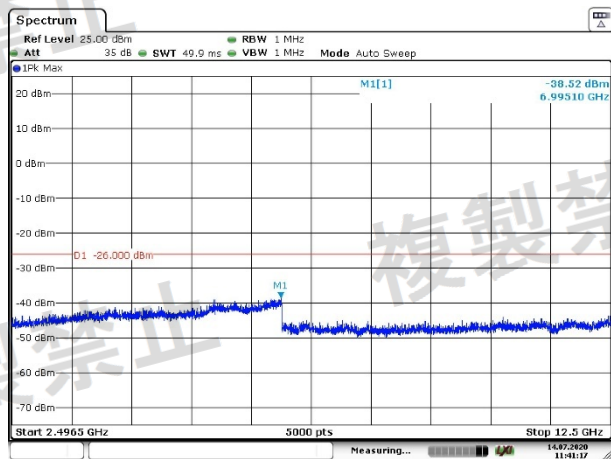
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