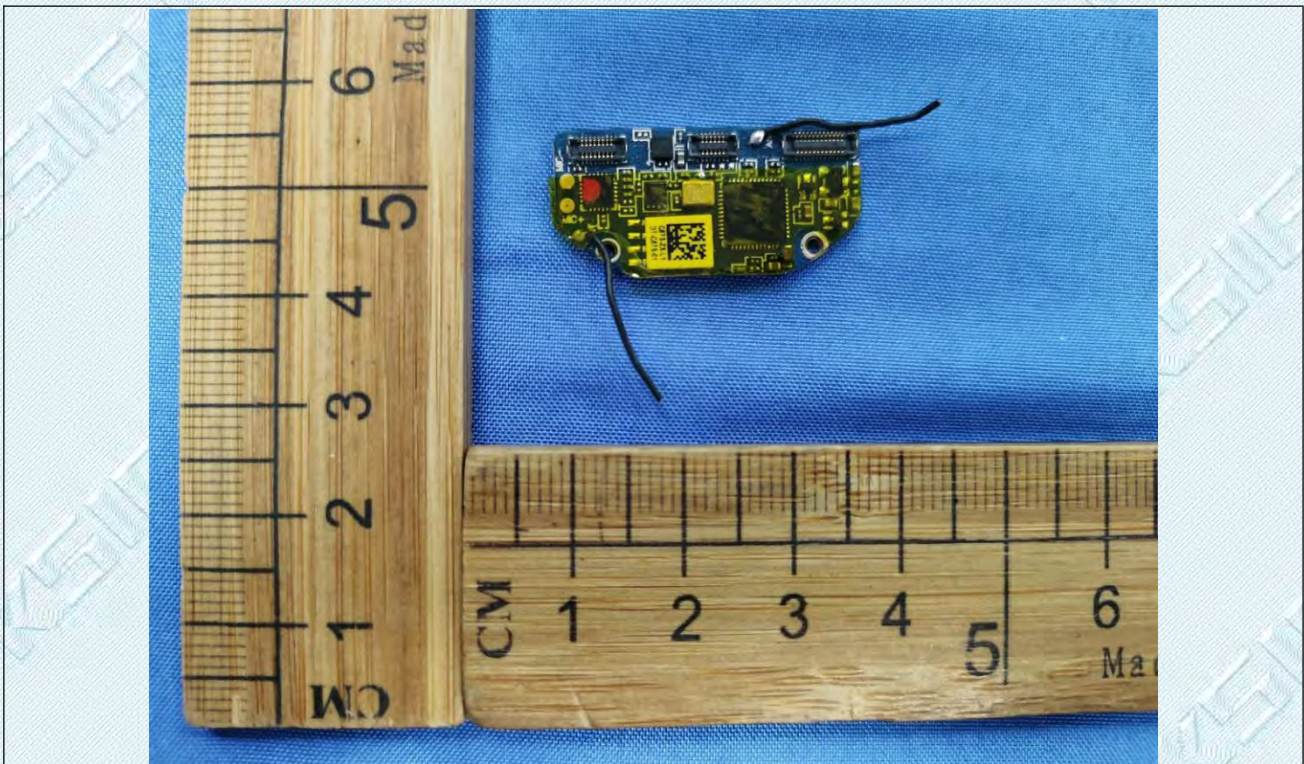
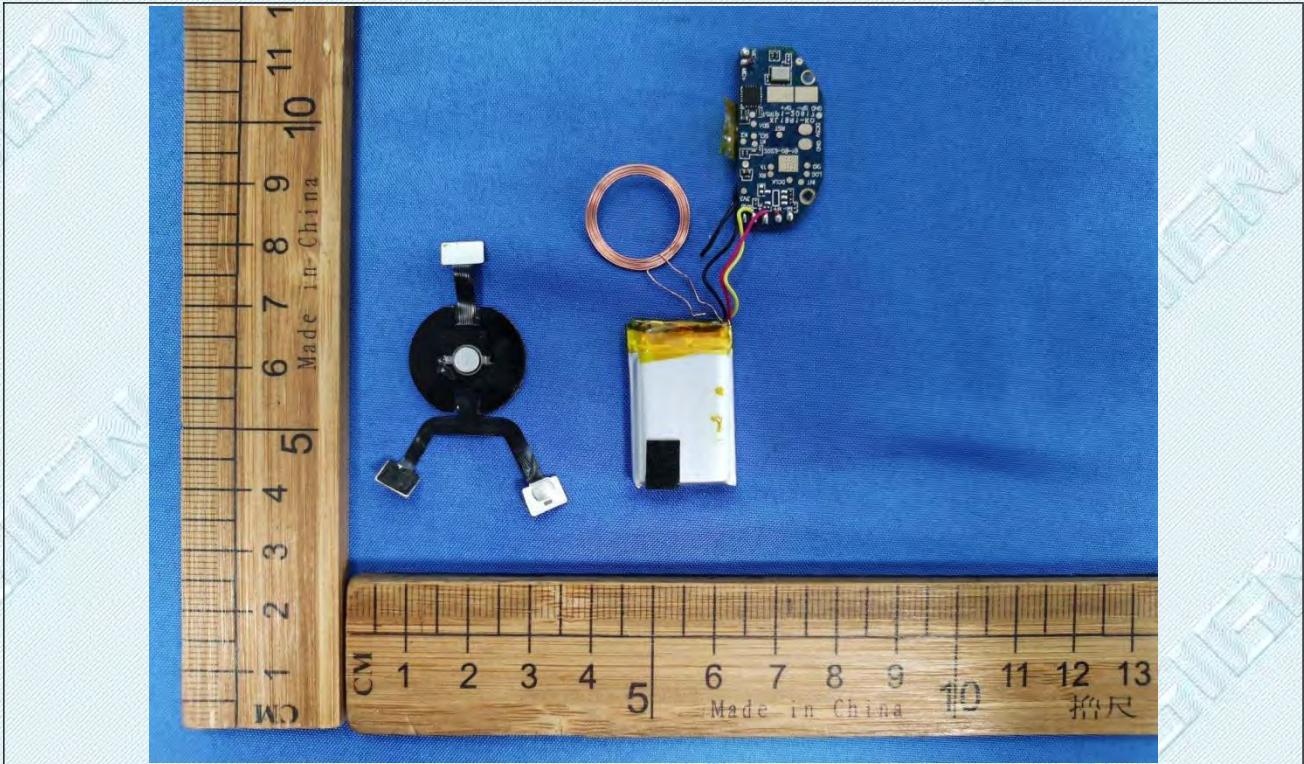
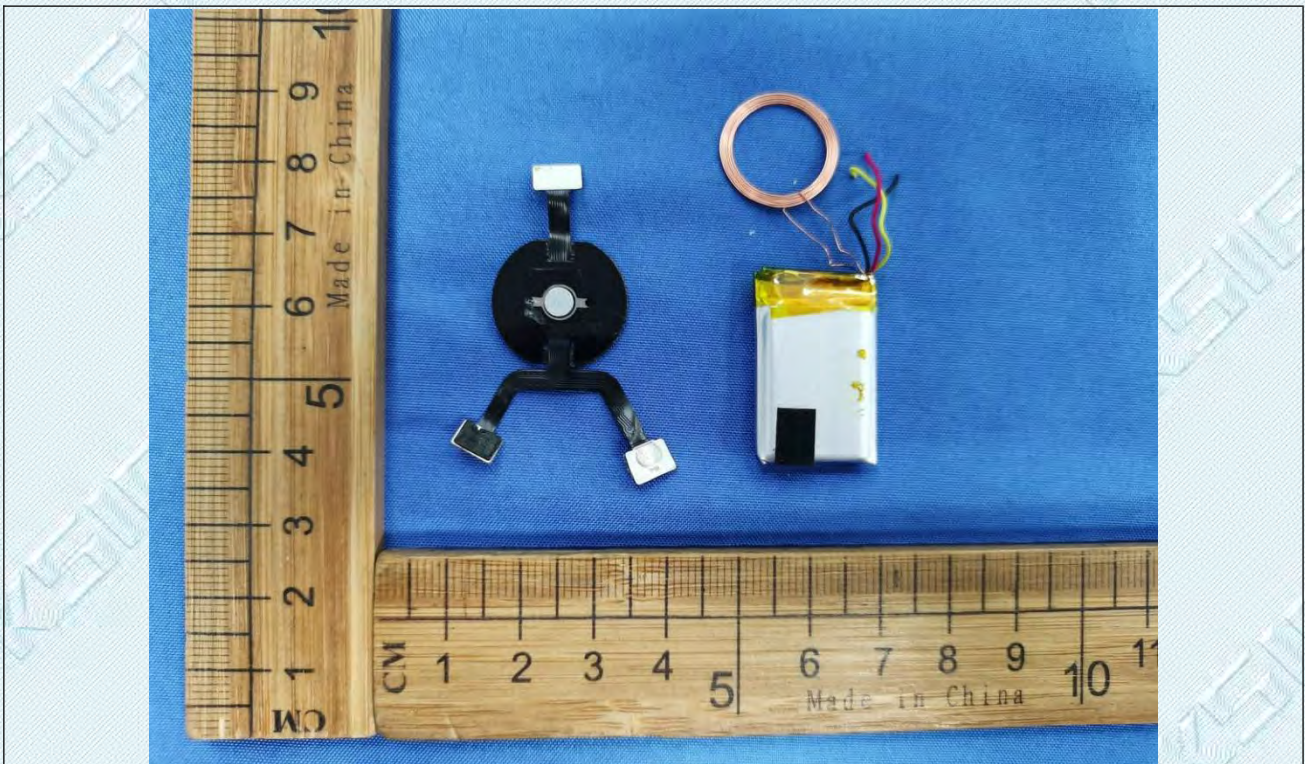
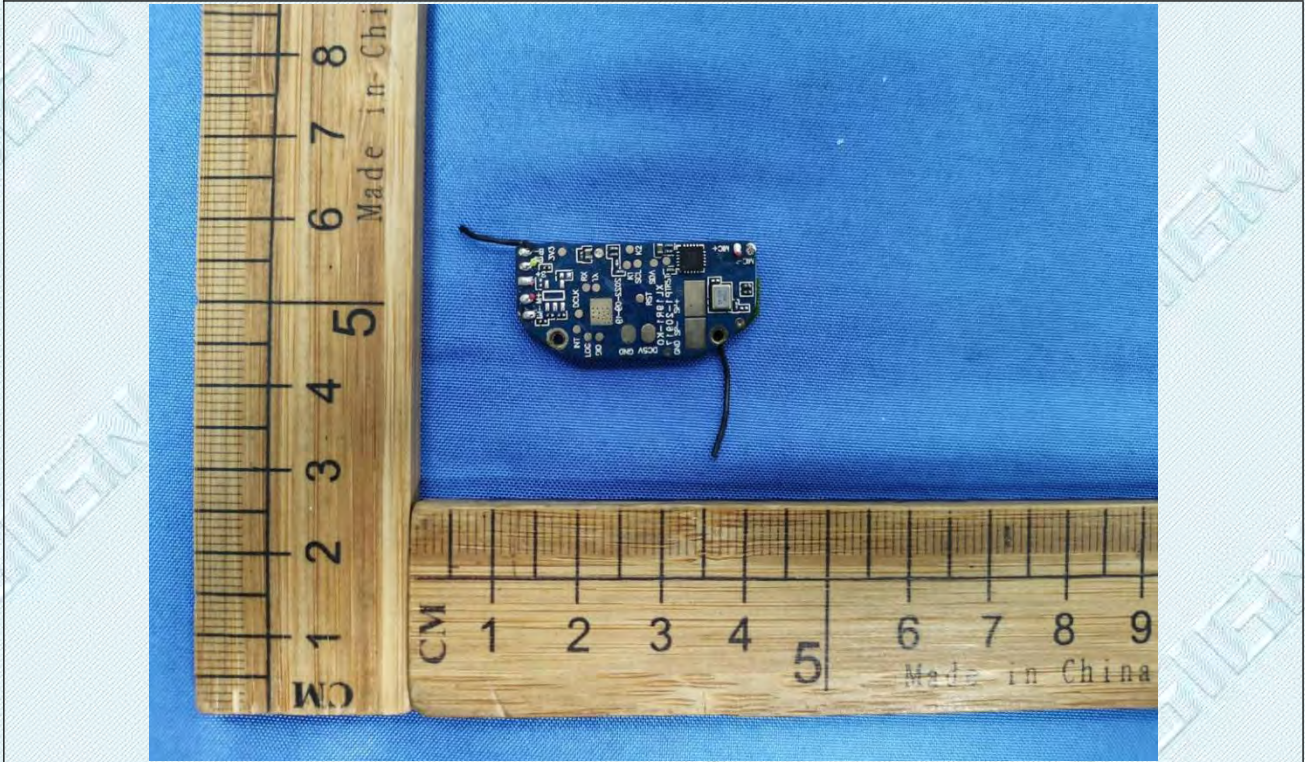




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Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

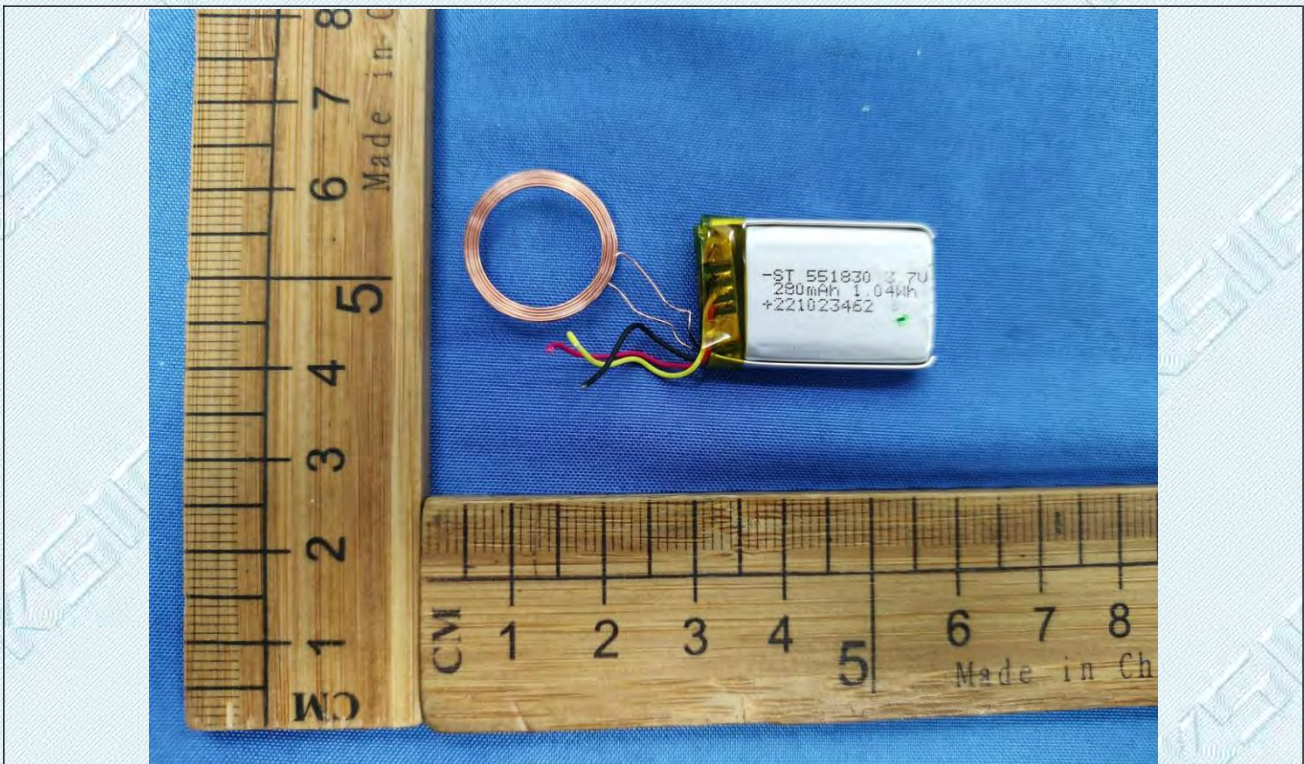
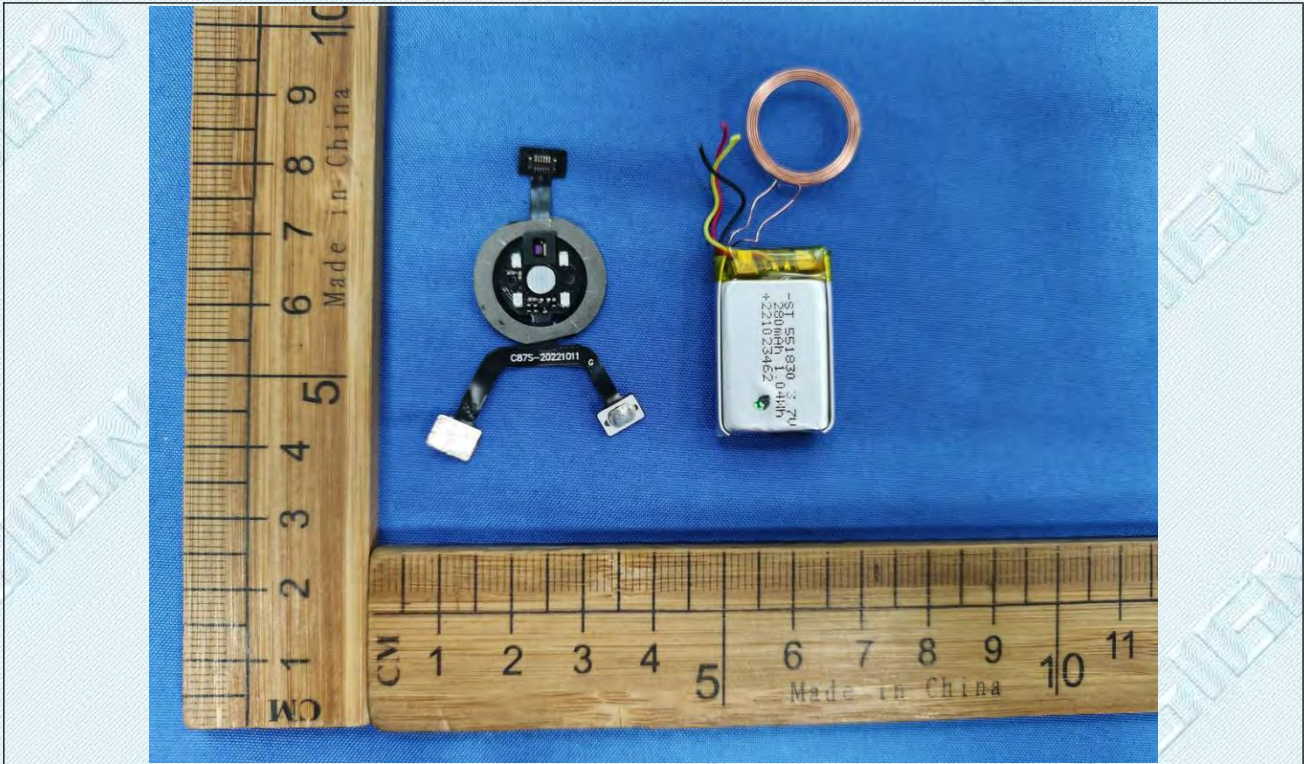
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com

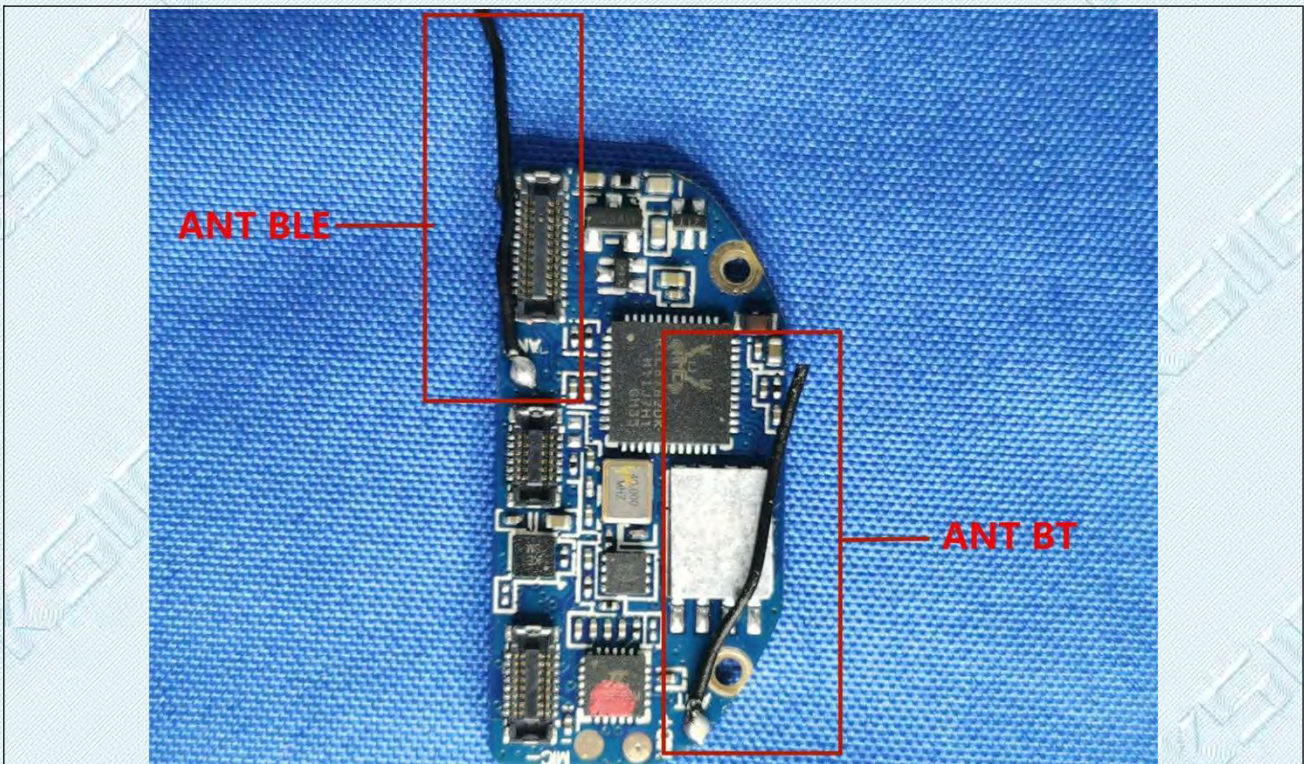
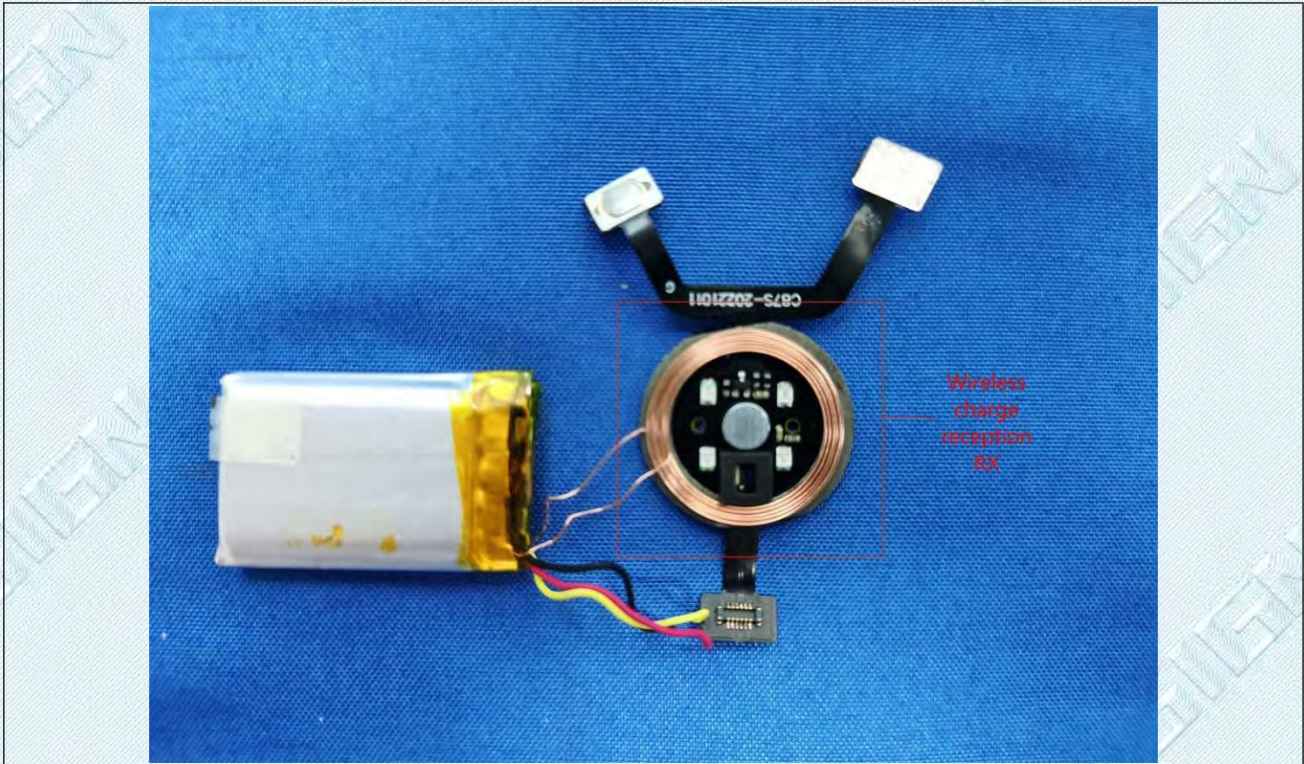


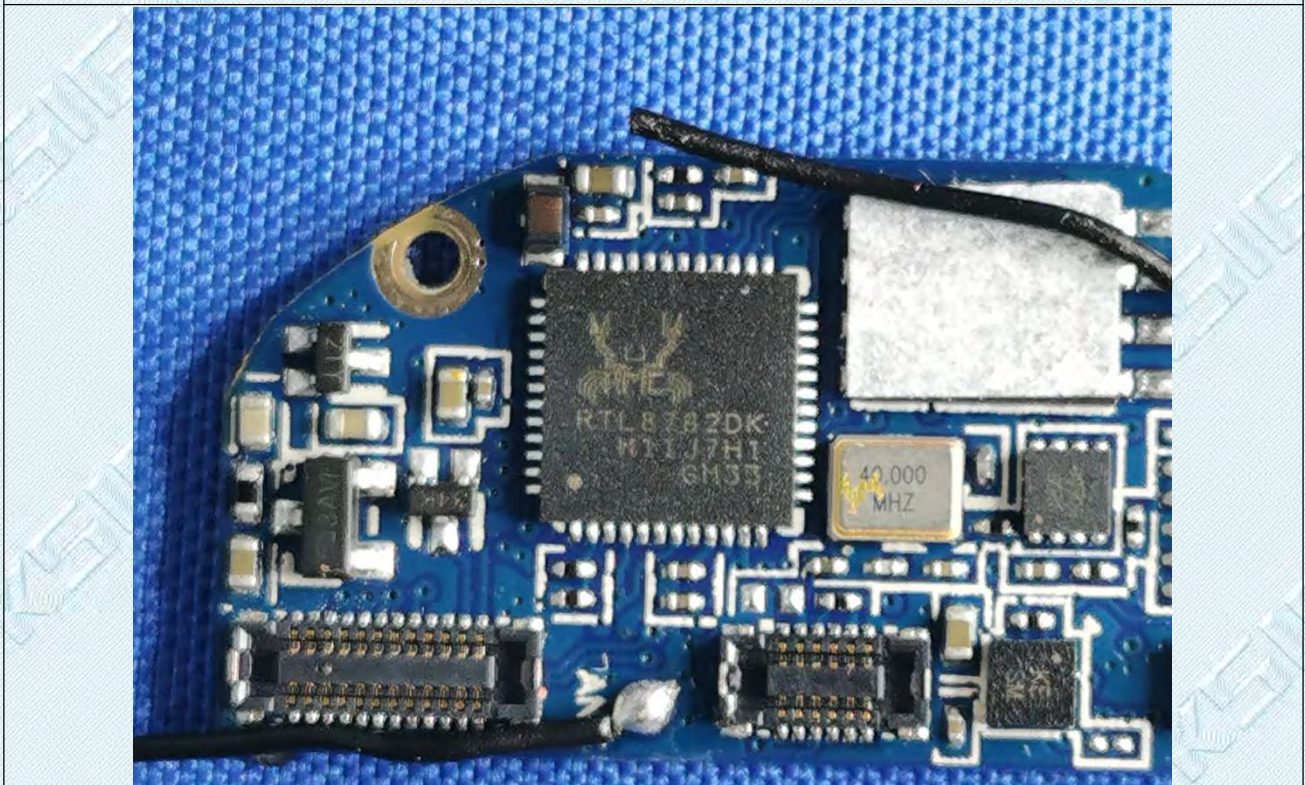
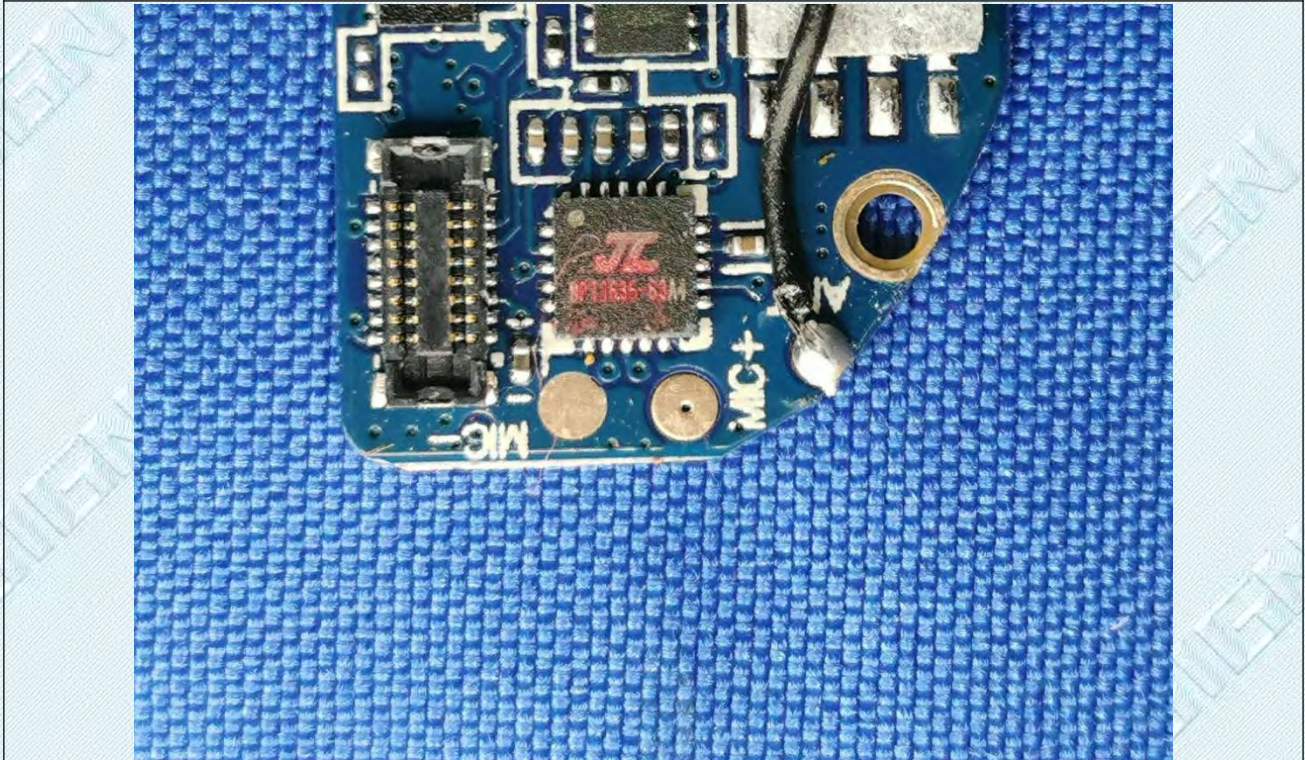
TRF EMC_R1

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Appendix

6.1. Appendix A: 20dB Emission Bandwidth

6.1.1. Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.09	2401.42	2402.51	---	PASS
		2441	1.08	2440.43	2441.51	---	PASS
		2480	1.10	2479.42	2480.52	---	PASS
2DH5	Ant1	2402	1.38	2401.30	2402.67	---	PASS
		2441	1.40	2440.29	2441.69	---	PASS
		2480	1.40	2479.28	2480.69	---	PASS
3DH5	Ant1	2402	1.32	2401.33	2402.64	---	PASS
		2441	1.32	2440.33	2441.65	---	PASS
		2480	1.32	2479.33	2480.65	---	PASS

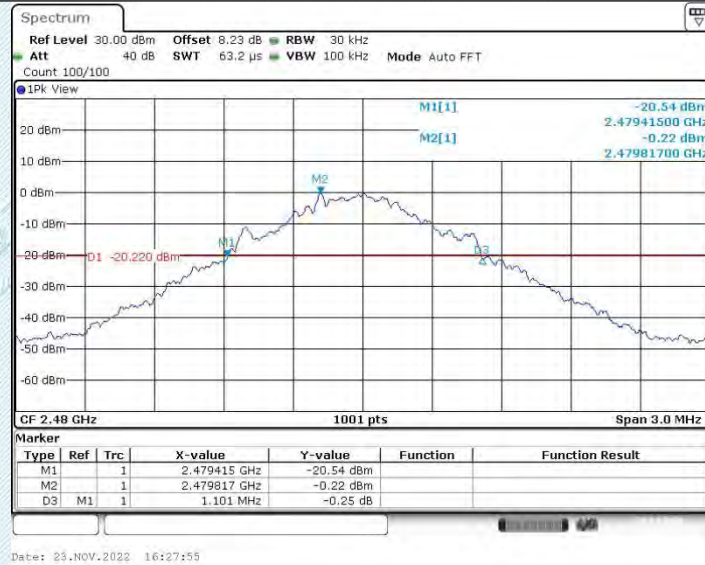
6.1.2. Test Graphs



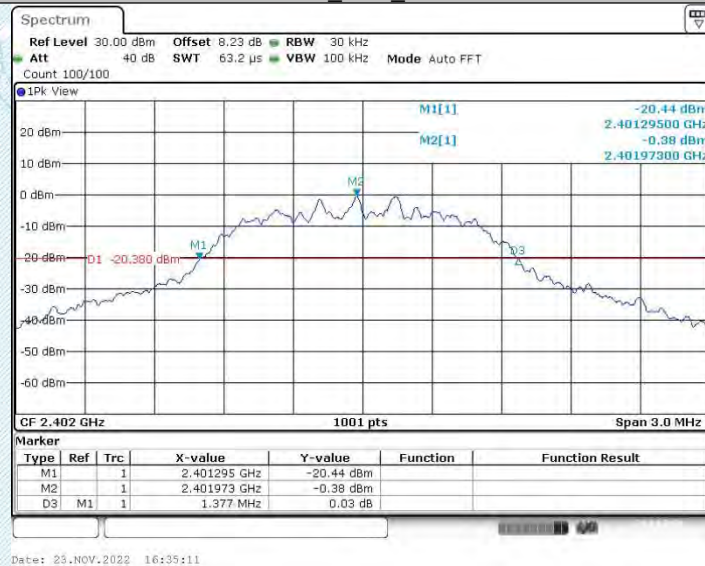
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

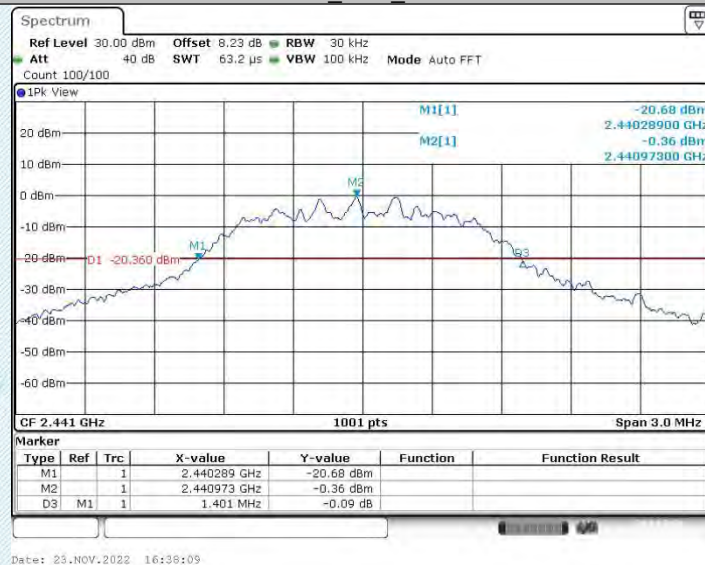
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2DH5_Ant1_2402



2DH5_Ant1_2441

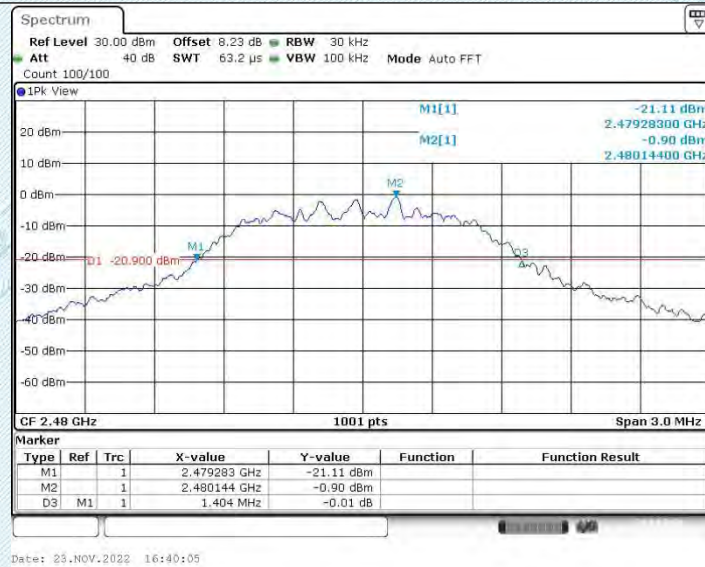


2DH5_Ant1_2480

TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

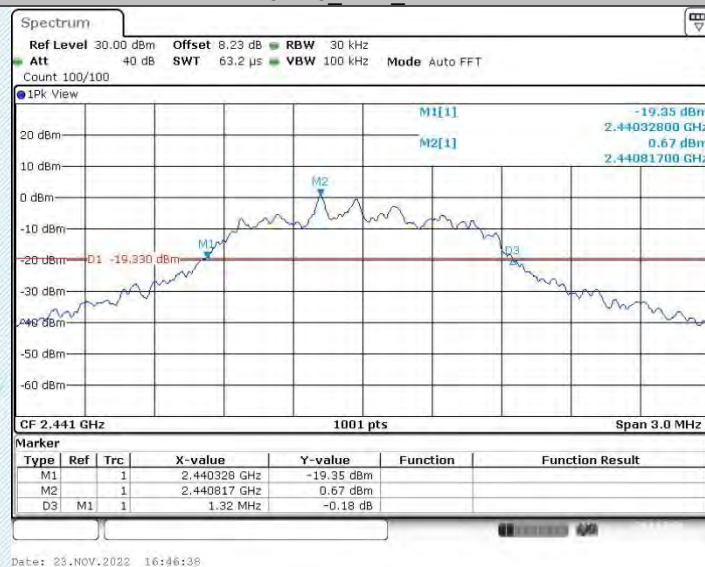
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3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

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Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

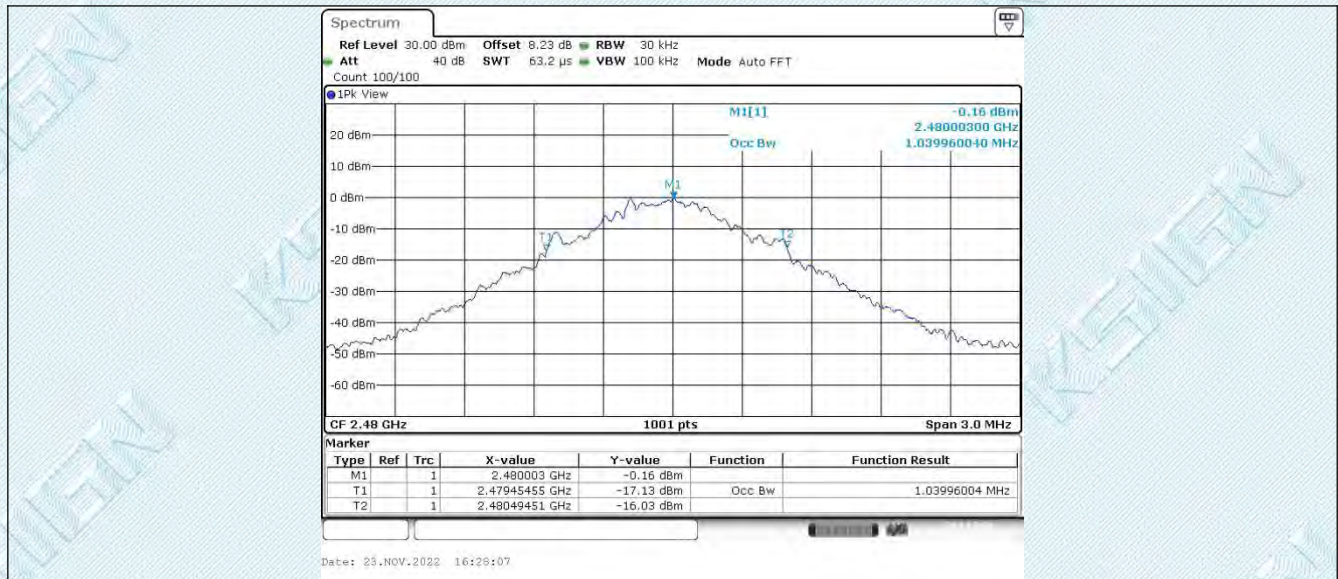
6.2. Appendix B: Occupied Channel Bandwidth

6.2.1. Test Result

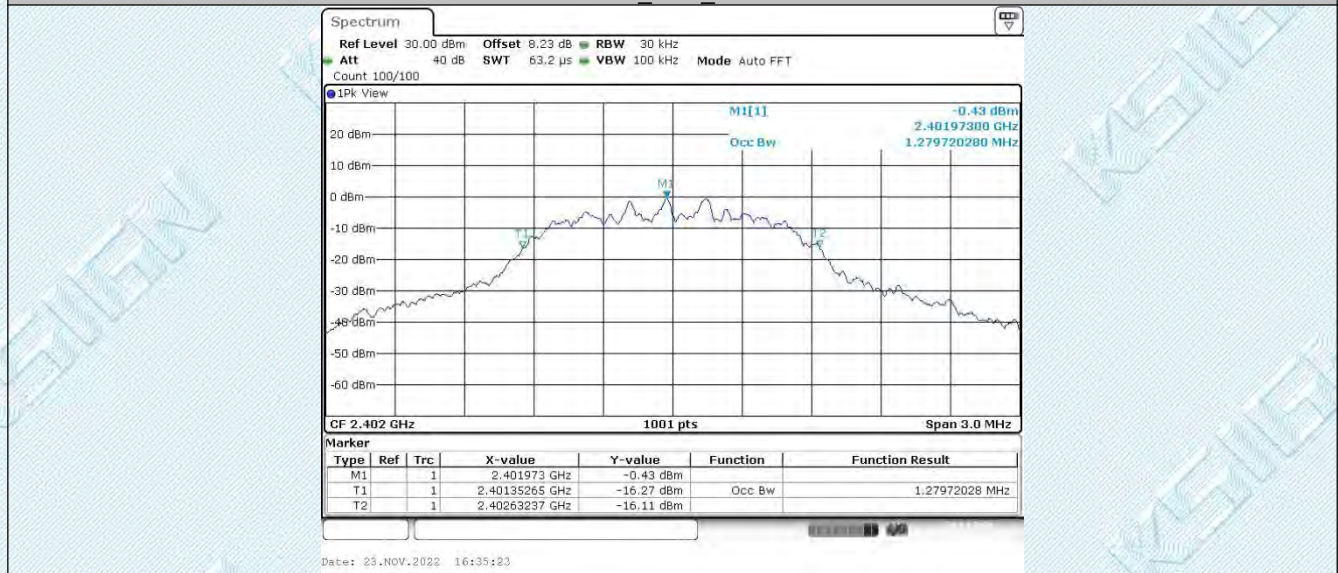
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.013	2401.470	2402.483	---	PASS
		2441	1.028	2440.464	2441.492	---	PASS
		2480	1.04	2479.455	2480.495	---	PASS
2DH5	Ant1	2402	1.28	2401.353	2402.632	---	PASS
		2441	1.307	2440.338	2441.644	---	PASS
		2480	1.325	2479.329	2480.653	---	PASS
3DH5	Ant1	2402	1.274	2401.341	2402.614	---	PASS
		2441	1.292	2440.335	2441.626	---	PASS
		2480	1.289	2479.338	2480.626	---	PASS

6.2.2. Test Graphs

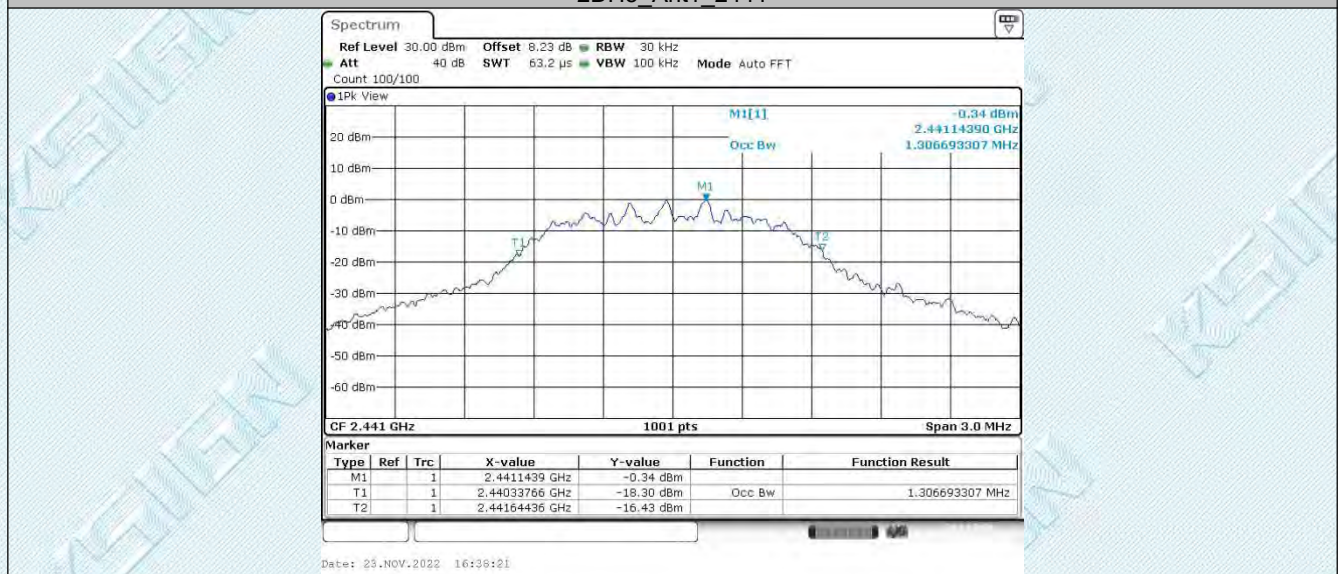




2DH5_Ant1_2402



2DH5_Ant1_2441

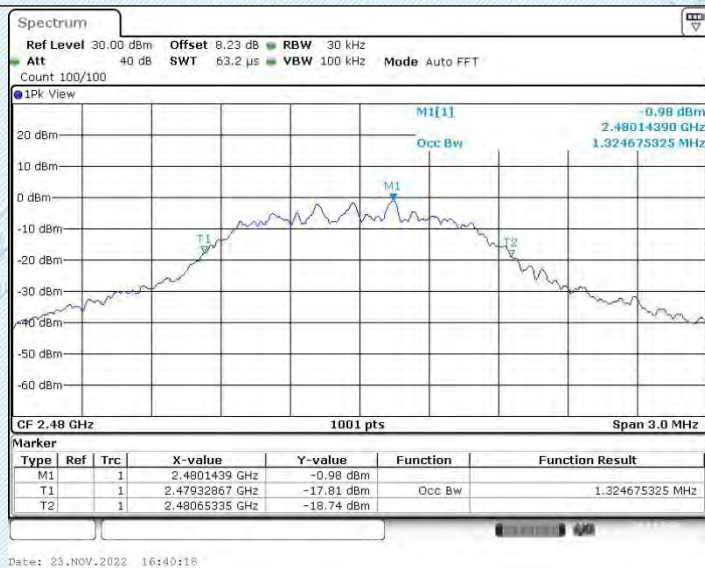


2DH5_Ant1_2480

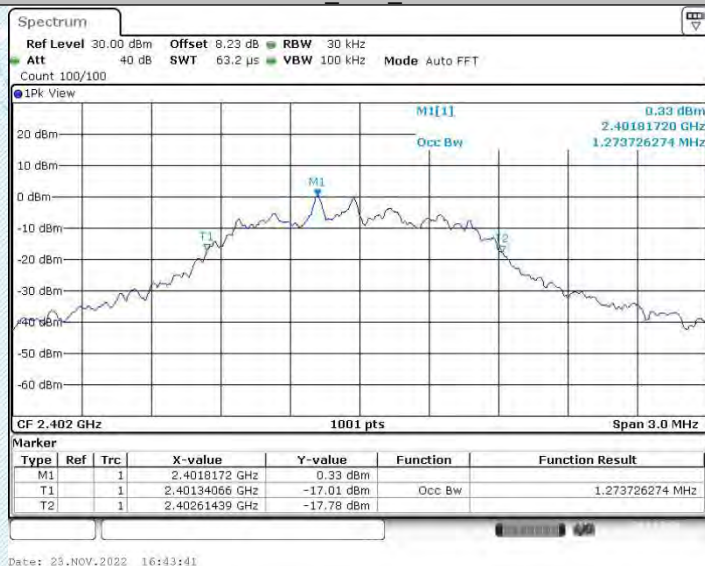
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

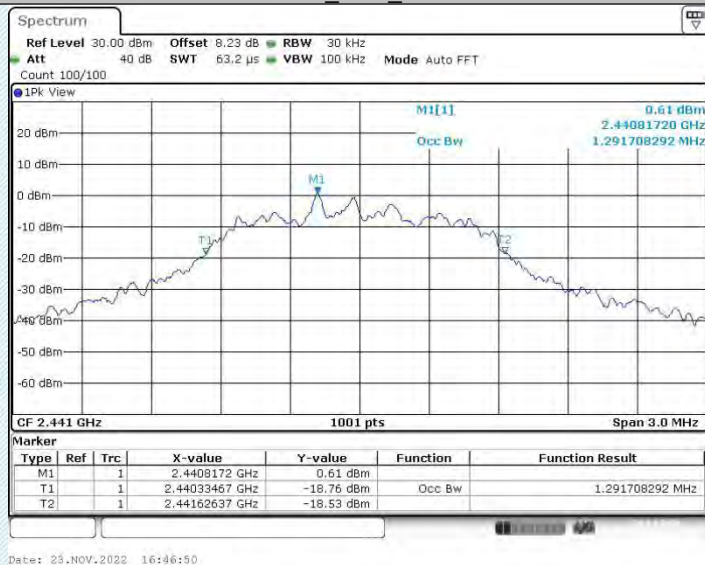
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3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

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6.3. Appendix C: Maximum conducted output power

6.3.1. Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.91	≤20.97	PASS
		2441	3.27	≤20.97	PASS
		2480	2.71	≤20.97	PASS
2DH5	Ant1	2402	3.58	≤20.97	PASS
		2441	3.82	≤20.97	PASS
		2480	3.24	≤20.97	PASS
3DH5	Ant1	2402	3.82	≤20.97	PASS
		2441	4.07	≤20.97	PASS
		2480	3.5	≤20.97	PASS

6.3.2. Test Graphs



TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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2DH5_Ant1_2402



2DH5_Ant1_2441

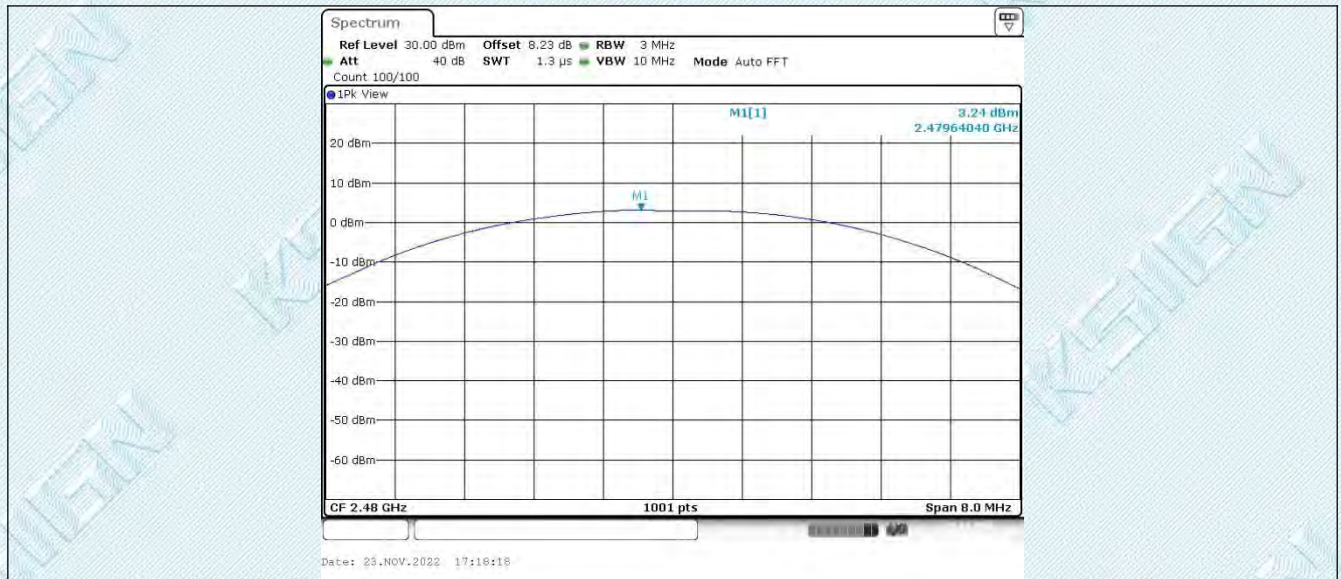


2DH5_Ant1_2480

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3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

TRF EMC_R1

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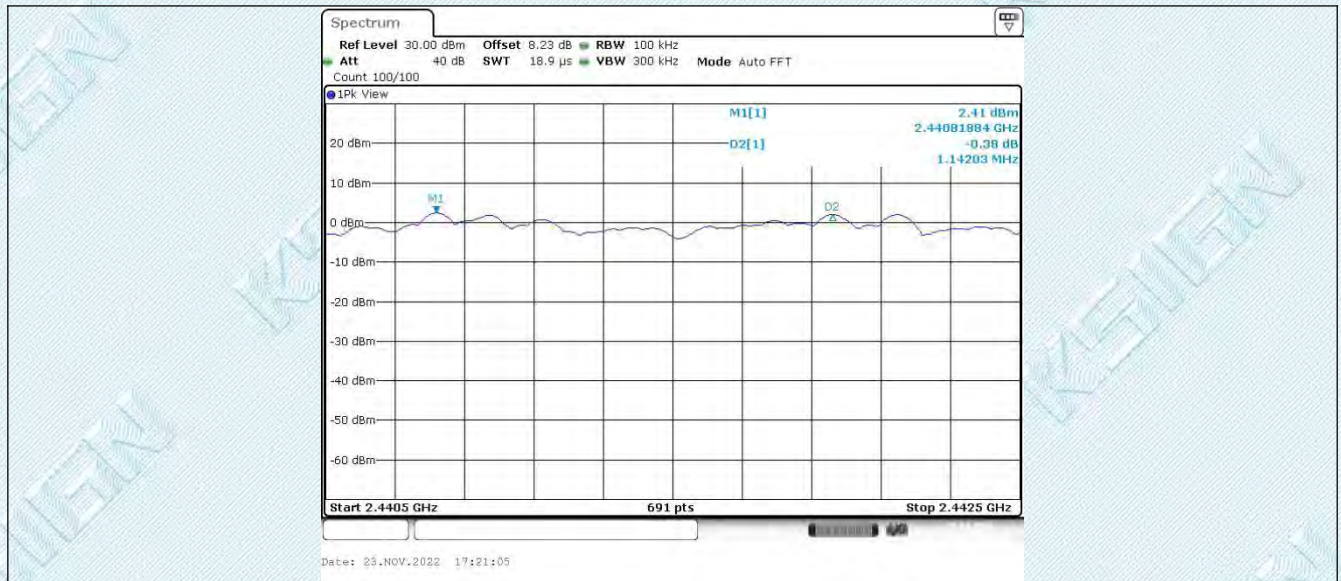
6.4. Appendix D: Carrier frequency separation

6.4.1. Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.962	≥ 0.733	PASS
2DH5	Ant1	Hop	1.003	≥ 0.933	PASS
3DH5	Ant1	Hop	1.142	≥ 0.880	PASS

6.4.2. Test Graphs





TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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6.5. Appendix E: Time of occupancy

6.5.1. Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.86	120	0.343	≤0.4	PASS
2DH5	Ant1	Hop	2.87	120	0.344	≤0.4	PASS
3DH5	Ant1	Hop	2.87	110	0.316	≤0.4	PASS

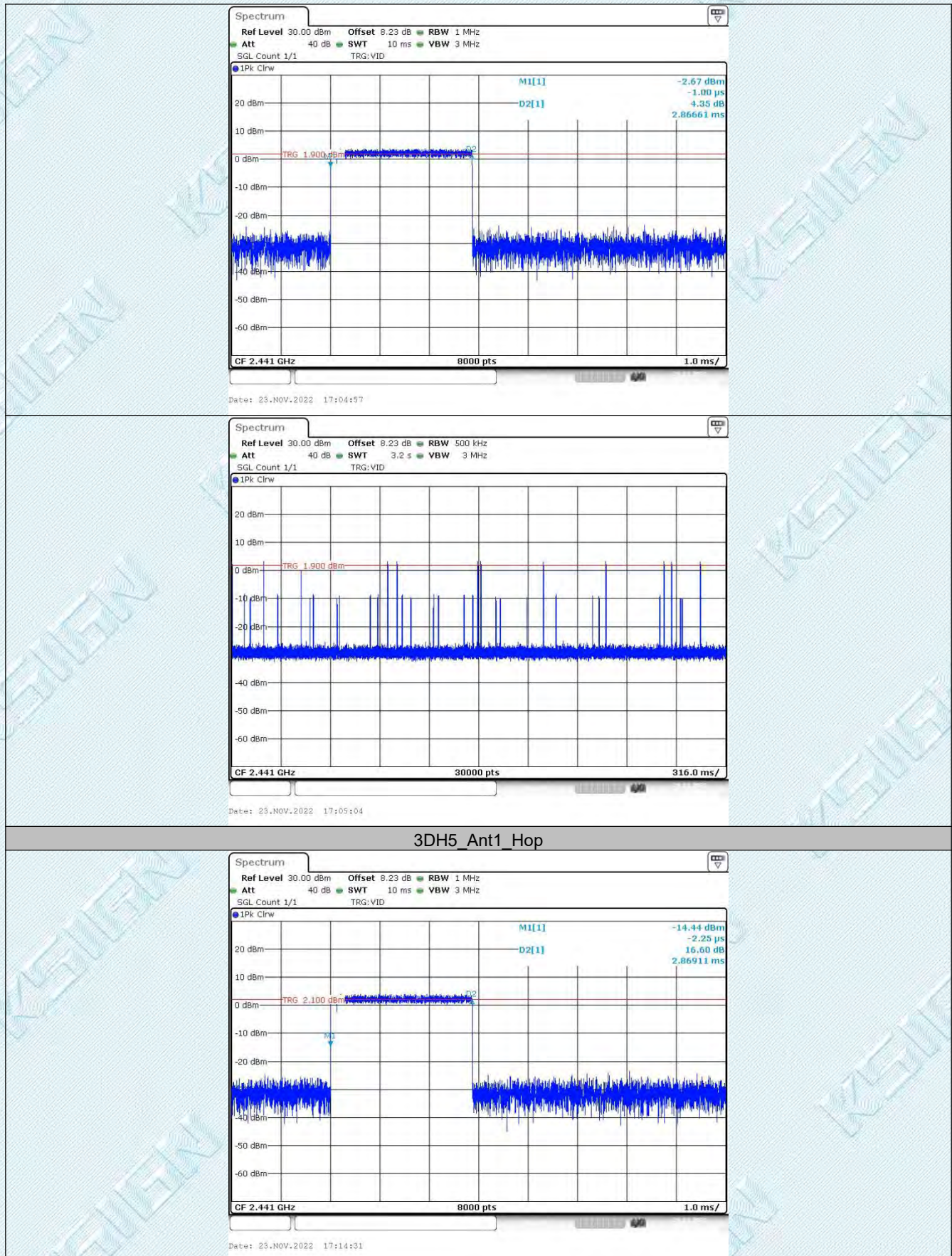
6.5.2. Test Graphs



TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

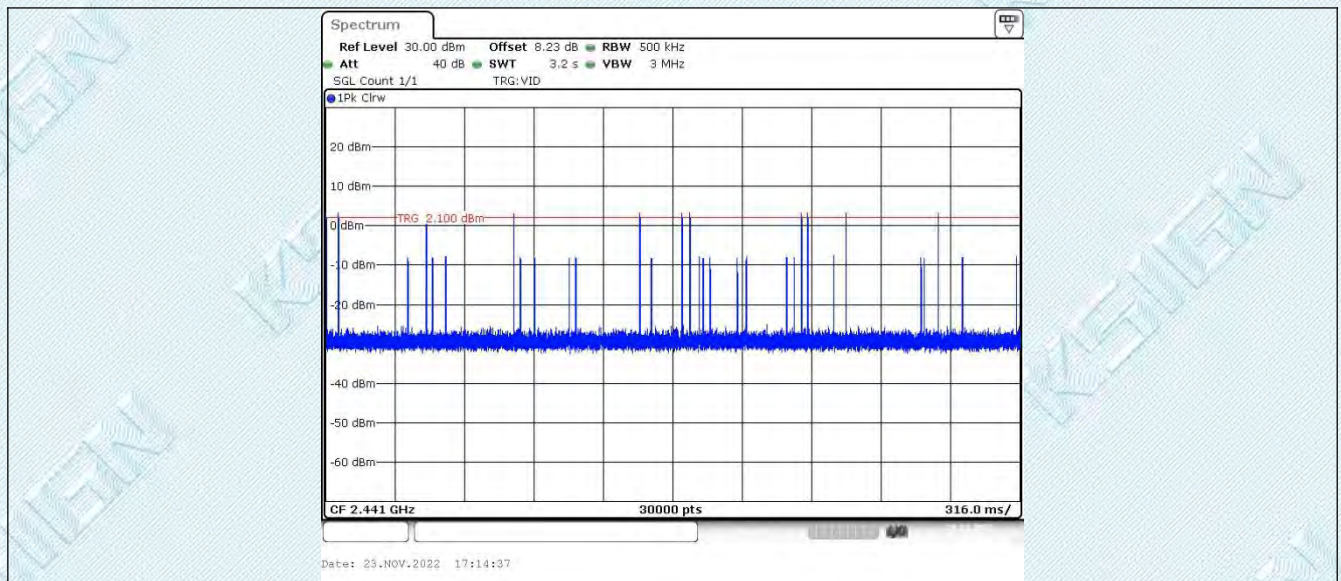
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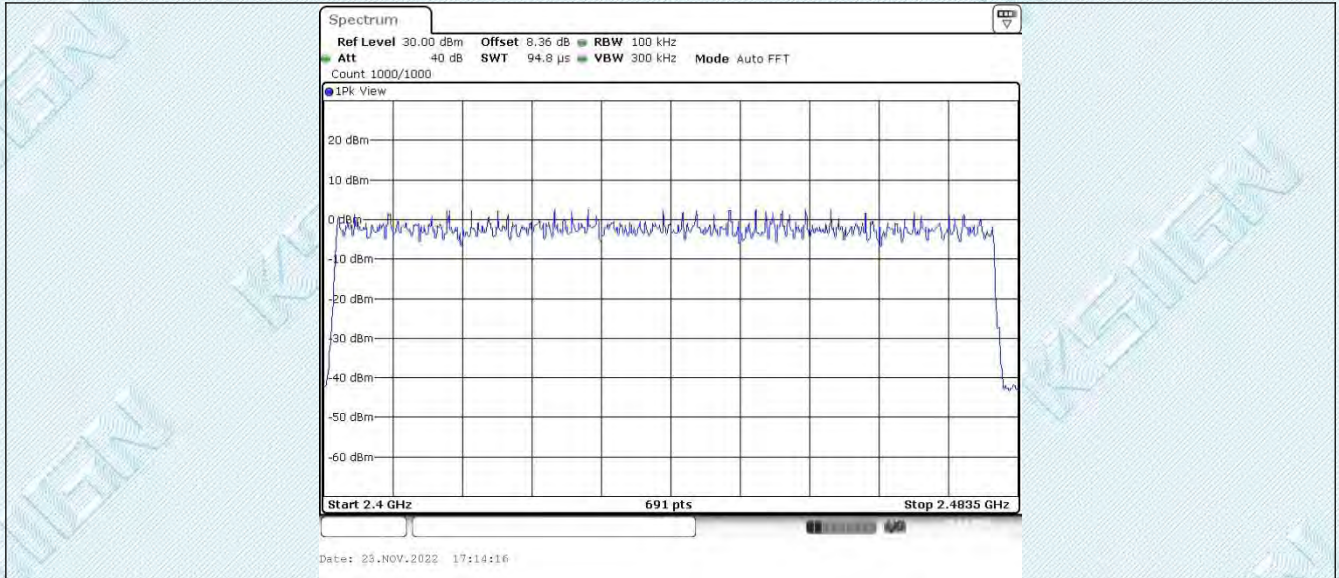
6.6. Appendix F: Number of hopping channels

6.6.1. Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

6.6.2. Test Graphs





TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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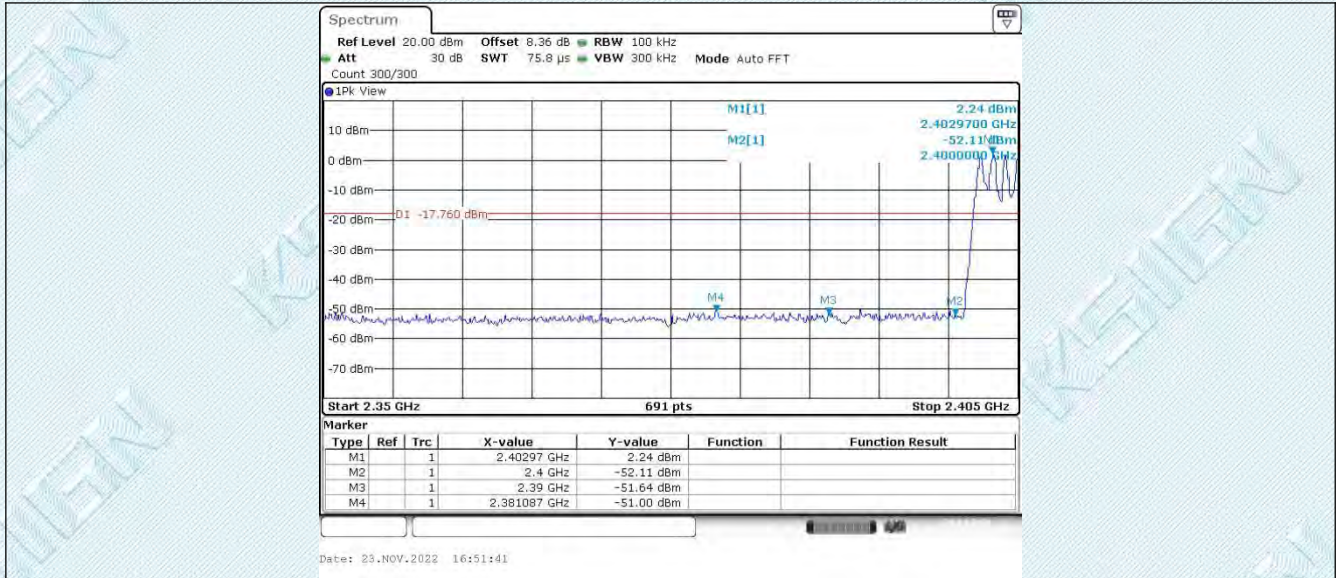
6.7. Appendix G: Band edge measurements

6.7.1. Test Result

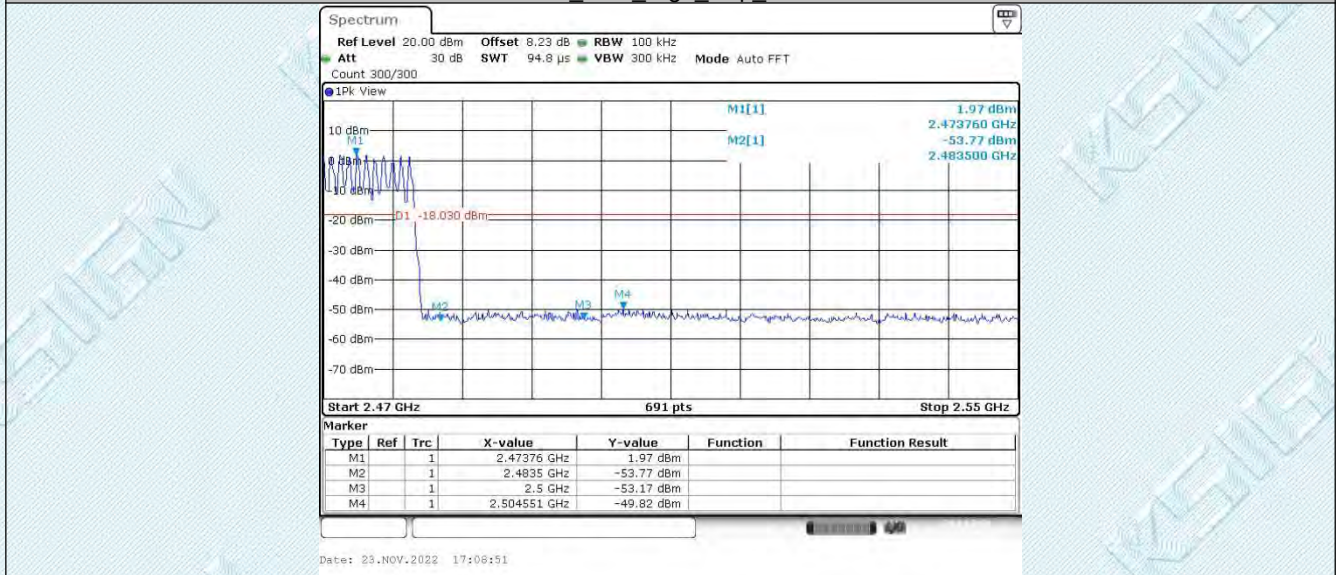
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.47	-49.01	≤ -17.53	PASS
		High	2480	2.03	-48.65	≤ -17.97	PASS
		Low	Hop_2402	2.24	-51	≤ -17.76	PASS
		High	Hop_2480	1.97	-49.82	≤ -18.03	PASS
2DH5	Ant1	Low	2402	2.26	-49.34	≤ -17.74	PASS
		High	2480	2.12	-49.41	≤ -17.88	PASS
		Low	Hop_2402	1.25	-49.4	≤ -18.75	PASS
		High	Hop_2480	0.98	-48.5	≤ -19.02	PASS
3DH5	Ant1	Low	2402	2.36	-48.79	≤ -17.64	PASS
		High	2480	1.76	-49.44	≤ -18.24	PASS
		Low	Hop_2402	2.35	-50.12	≤ -17.65	PASS
		High	Hop_2480	-0.03	-49.45	≤ -20.03	PASS

6.7.2. Test Graphs

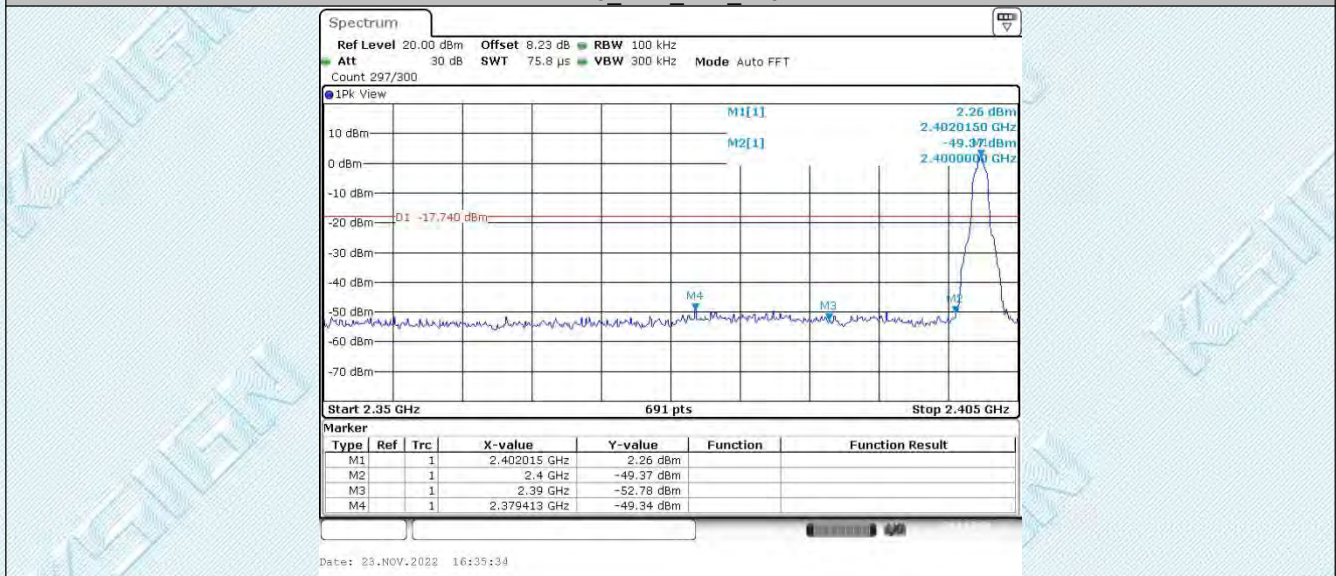




DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

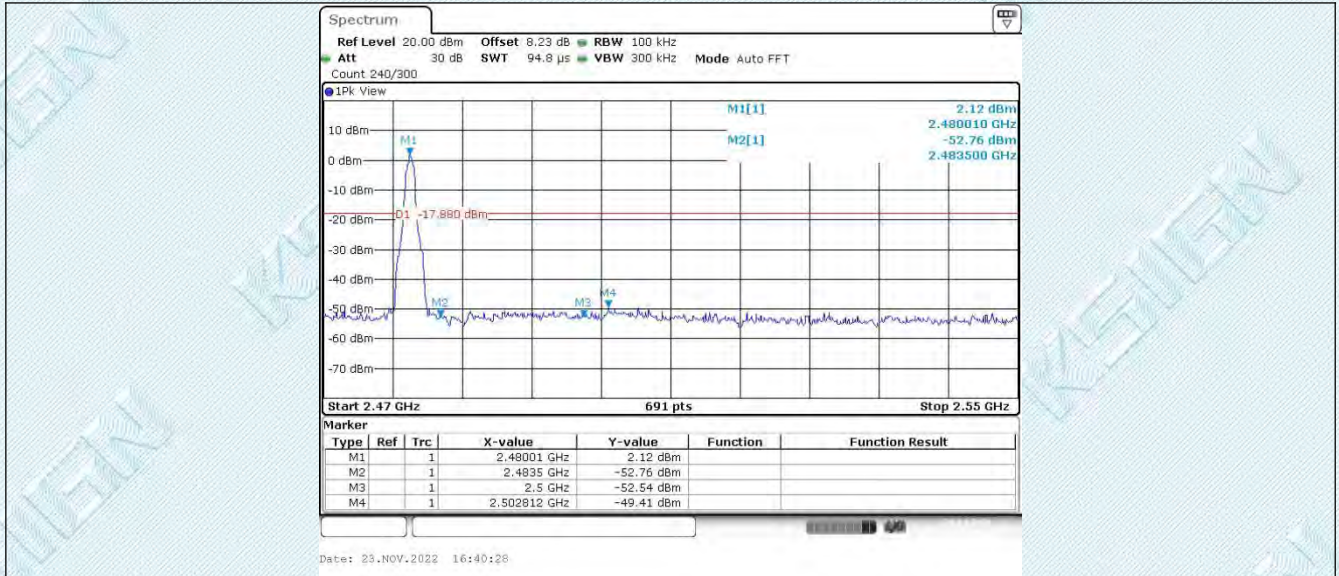


2DH5_Ant1_High_2480

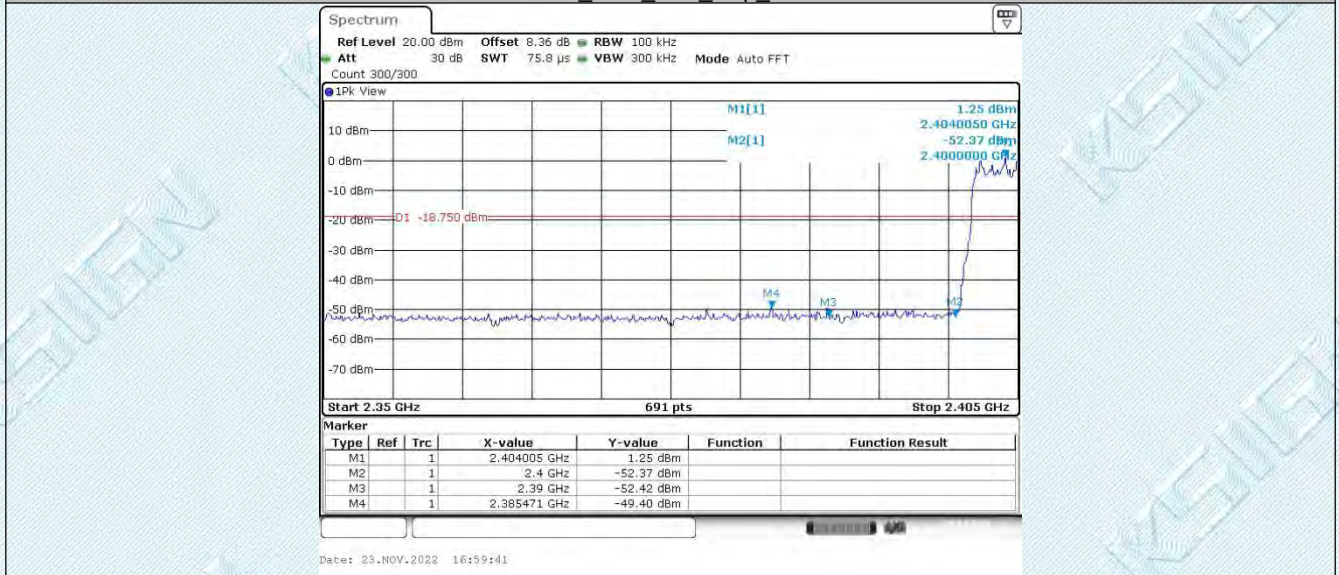
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

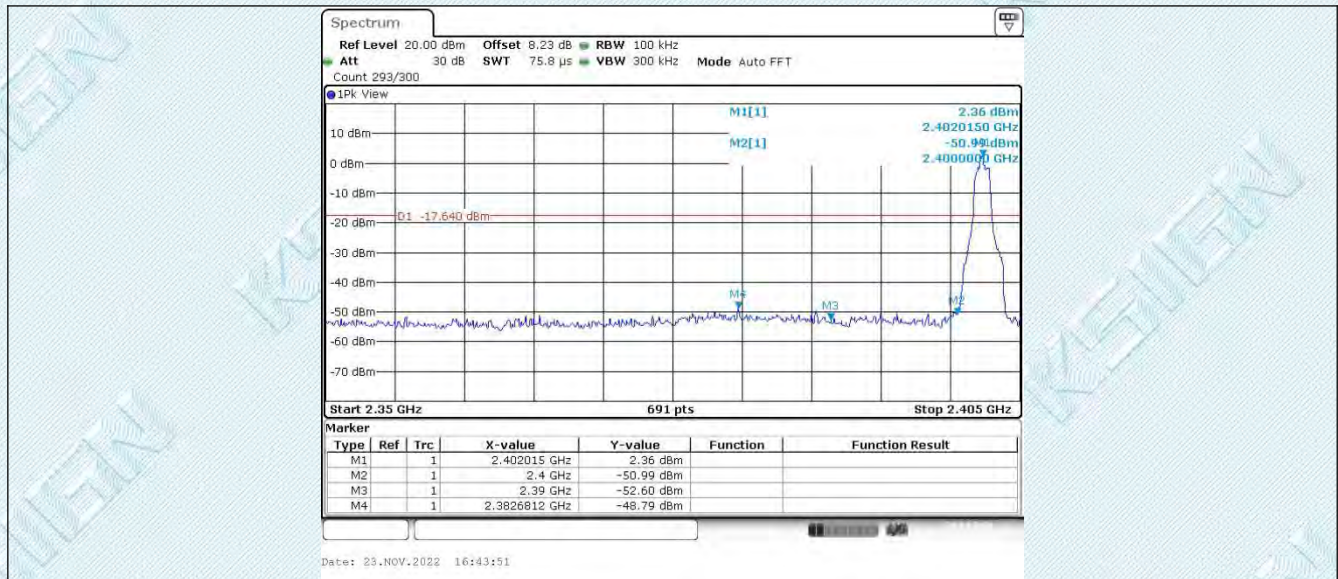


3DH5_Ant1_Low_2402

TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

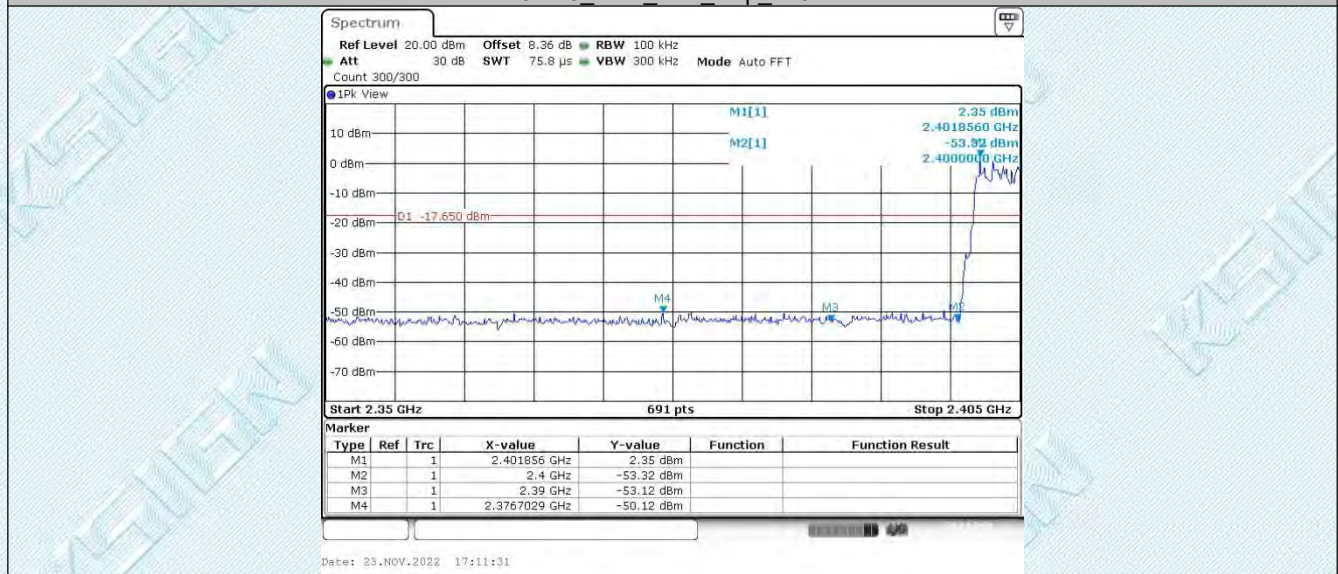
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

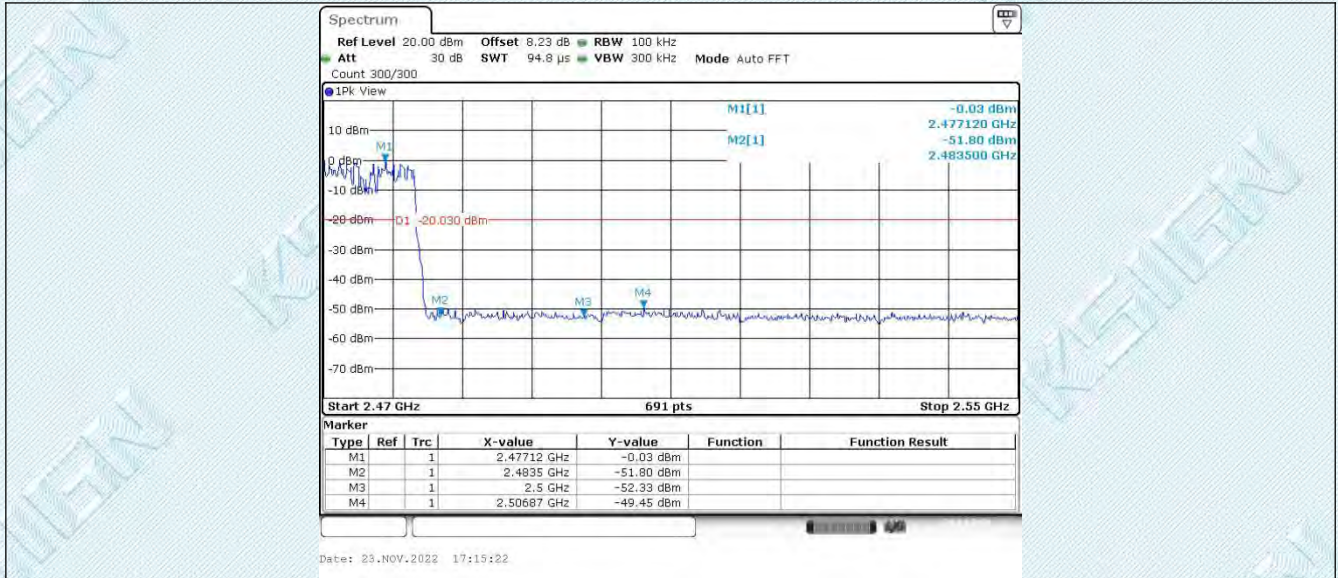


3DH5_Ant1_High_Hop_2480

TRF EMC_R1

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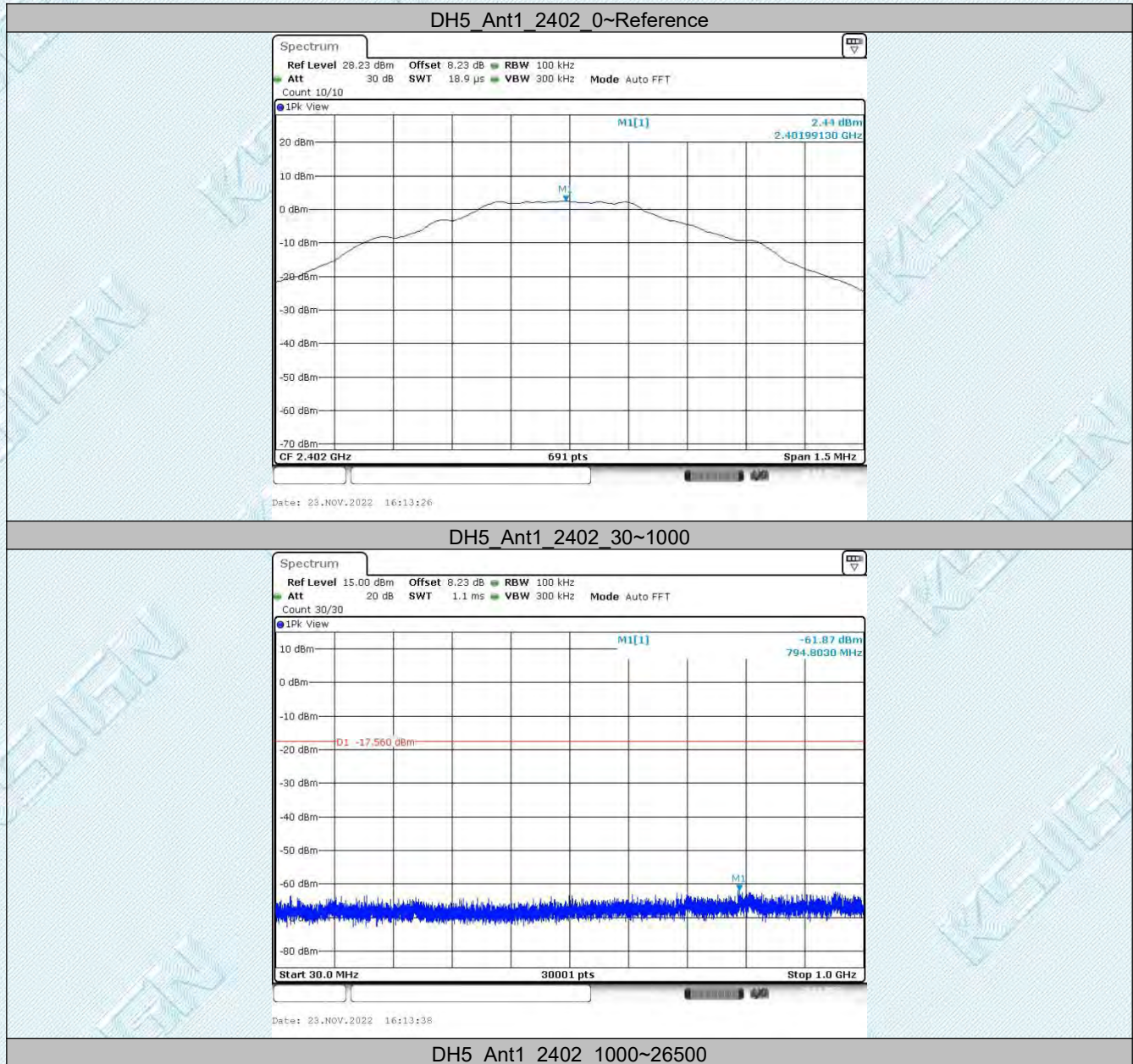


6.8. Appendix H: Conducted Spurious Emission

6.8.1. Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.44	2.44	---	PASS
			30~1000	2.44	-61.87	≤-17.56	PASS
			1000~26500	2.44	-40.94	≤-17.56	PASS
		2441	Reference	2.78	2.78	---	PASS
			30~1000	2.78	-61.84	≤-17.22	PASS
			1000~26500	2.78	-39.06	≤-17.22	PASS
		2480	Reference	2.11	2.11	---	PASS
			30~1000	2.11	-61.5	≤-17.89	PASS
			1000~26500	2.11	-38.98	≤-17.89	PASS
2DH5	Ant1	2402	Reference	2.32	2.32	---	PASS
			30~1000	2.32	-61.1	≤-17.68	PASS
			1000~26500	2.32	-43.2	≤-17.68	PASS
		2441	Reference	2.51	2.51	---	PASS
			30~1000	2.51	-61.47	≤-17.49	PASS
			1000~26500	2.51	-42.44	≤-17.49	PASS
		2480	Reference	2.14	2.14	---	PASS
			30~1000	2.14	-60.78	≤-17.86	PASS
			1000~26500	2.14	-41.6	≤-17.86	PASS
3DH5	Ant1	2402	Reference	2.31	2.31	---	PASS
			30~1000	2.31	-60.96	≤-17.69	PASS
			1000~26500	2.31	-44.75	≤-17.69	PASS
		2441	Reference	2.65	2.65	---	PASS
			30~1000	2.65	-60.88	≤-17.35	PASS
			1000~26500	2.65	-41.61	≤-17.35	PASS
		2480	Reference	2.13	2.13	---	PASS
			30~1000	2.13	-61.8	≤-17.87	PASS
			1000~26500	2.13	-41.2	≤-17.87	PASS

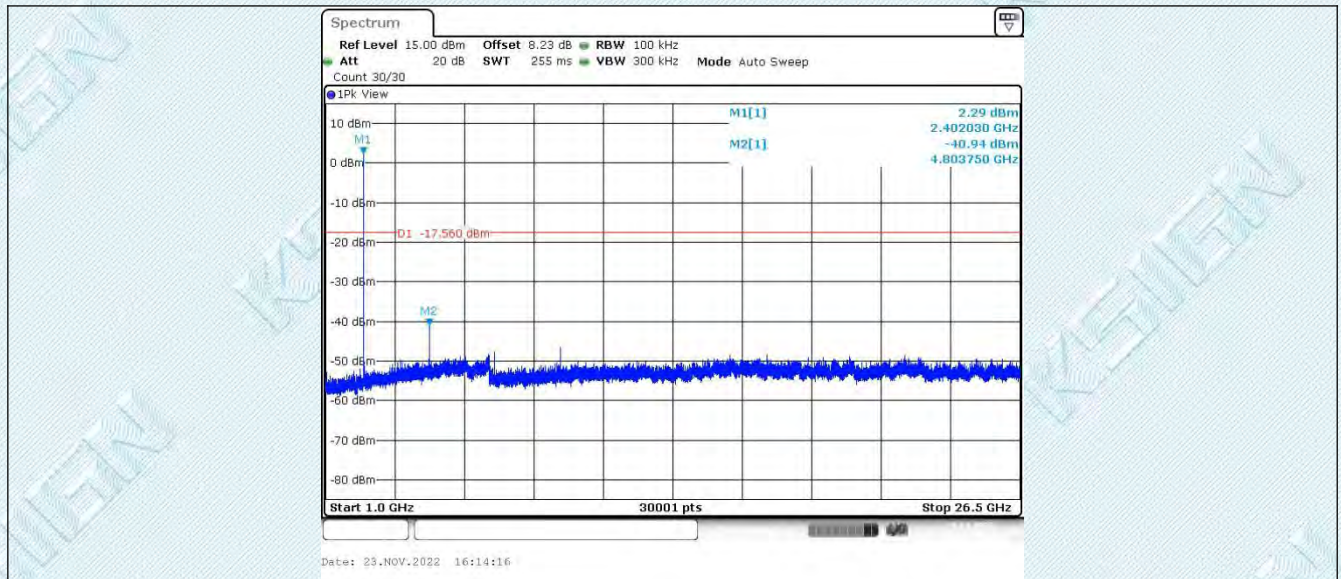
6.8.2. Test Graphs



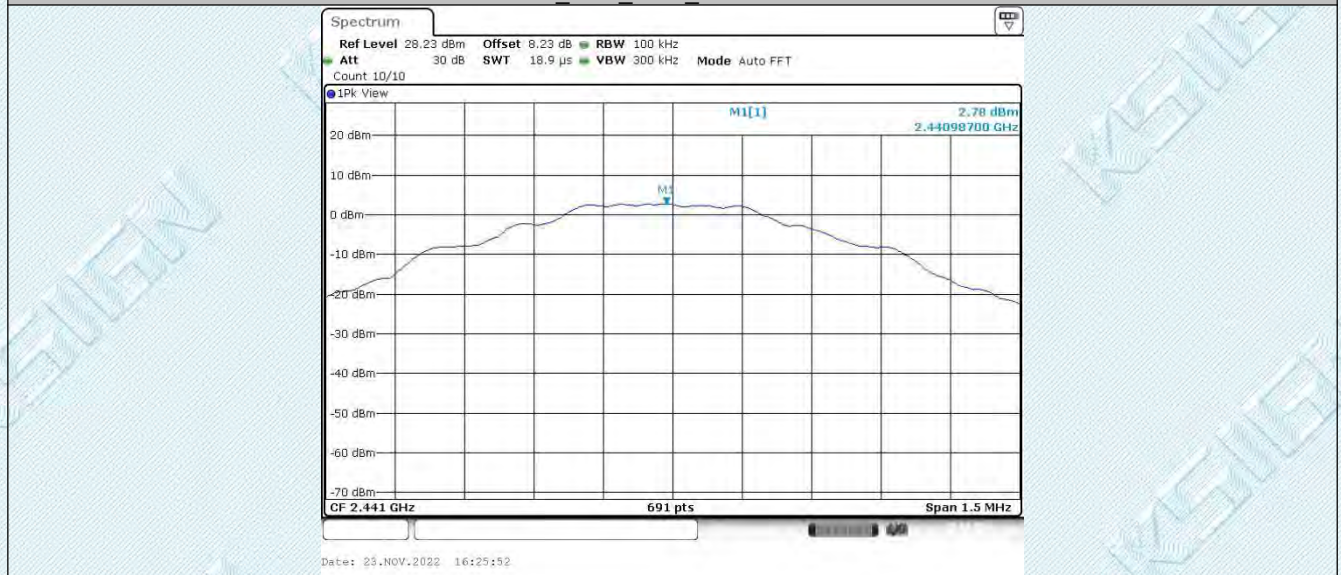
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

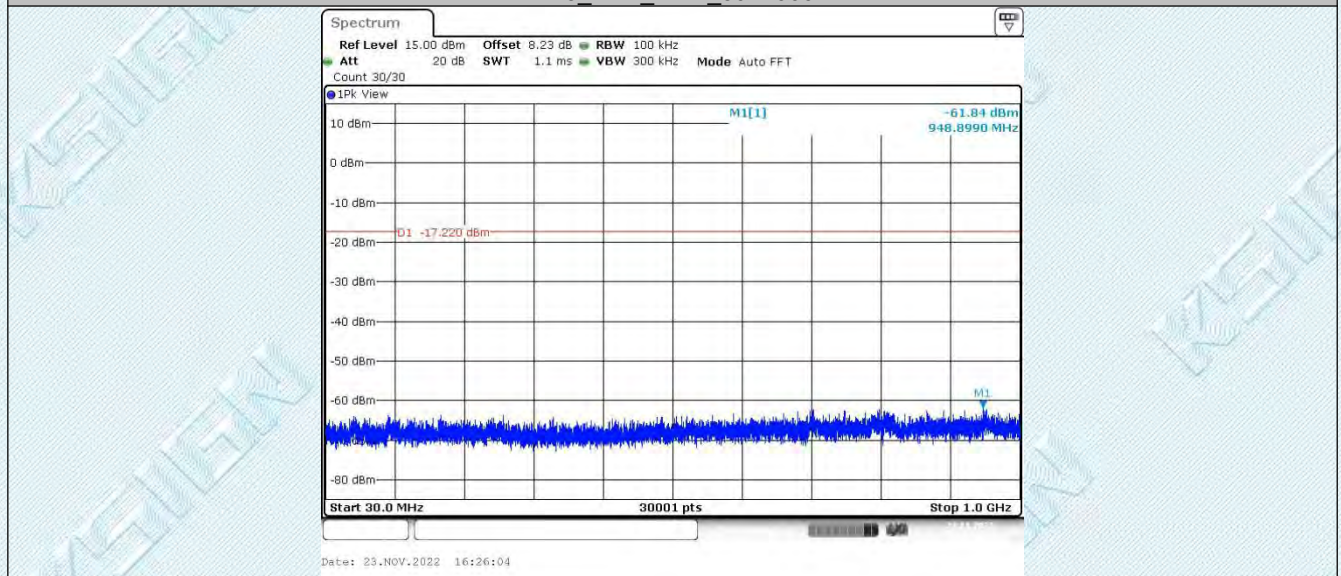
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_1000~26500

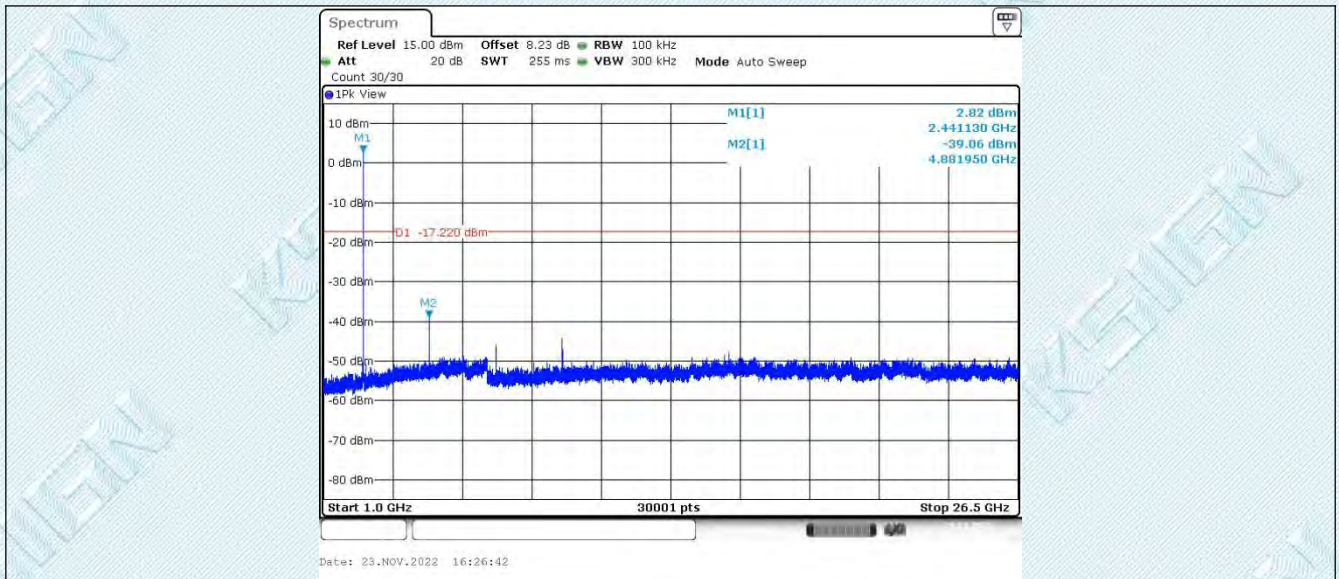


DH5_Ant1_2441_1000~26500

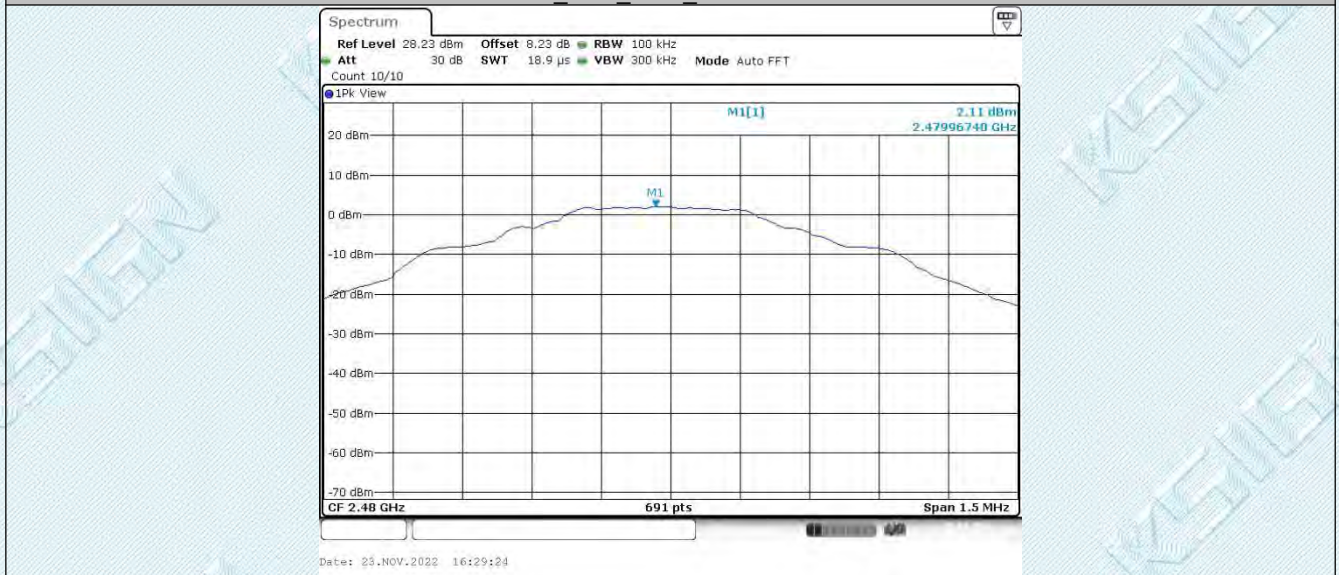
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

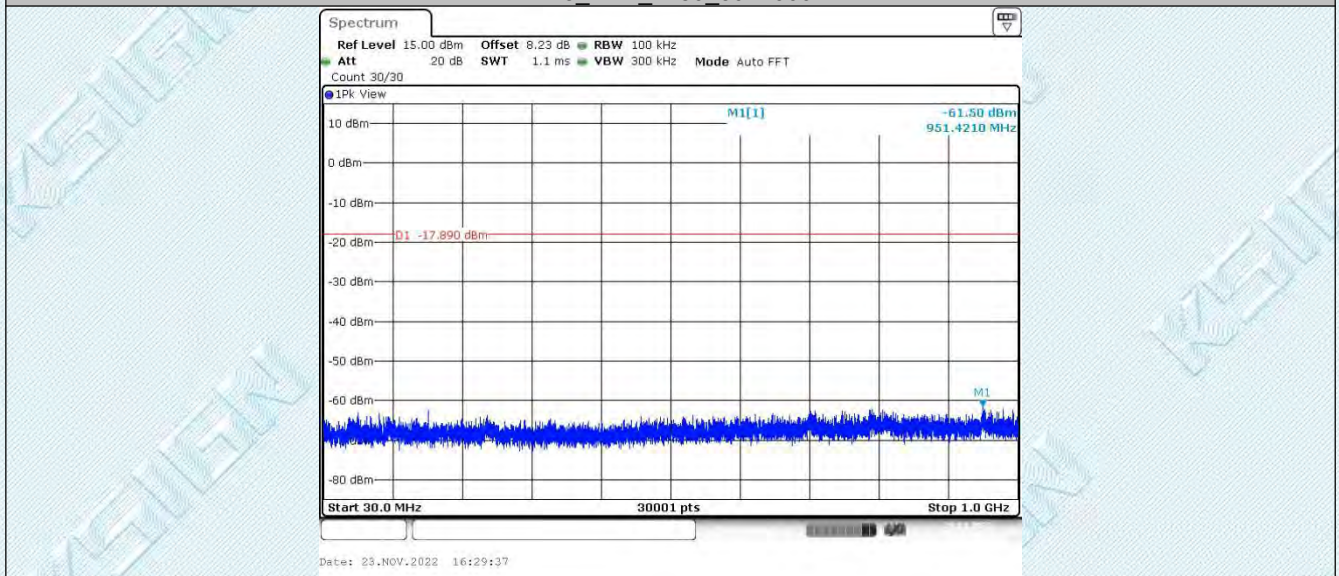
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

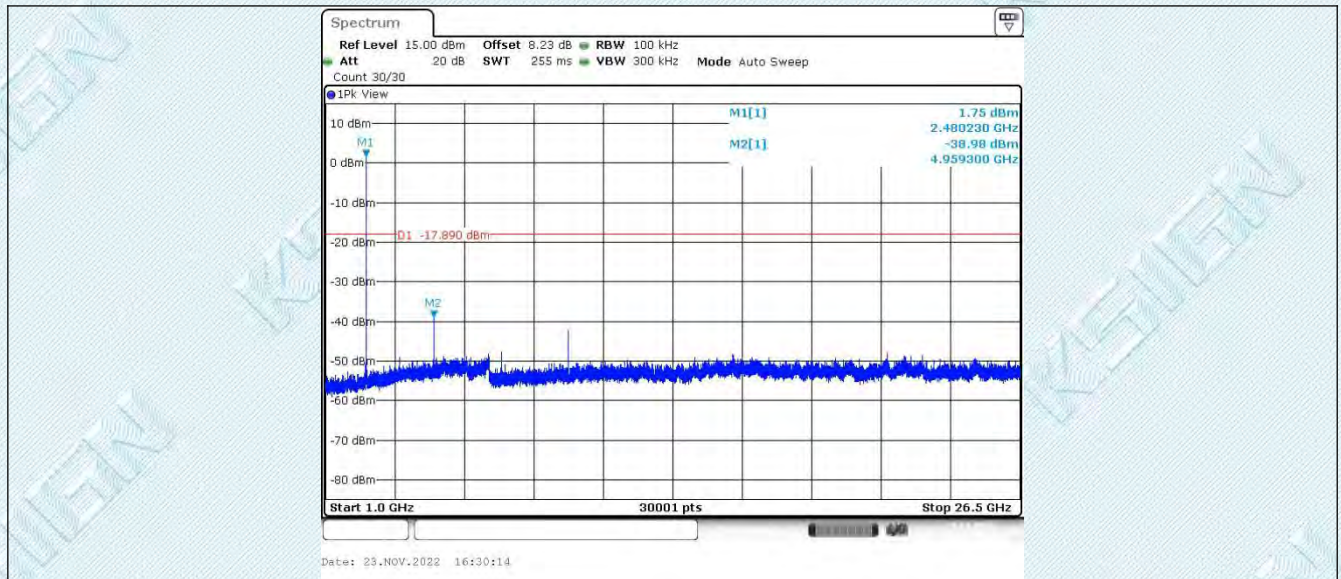


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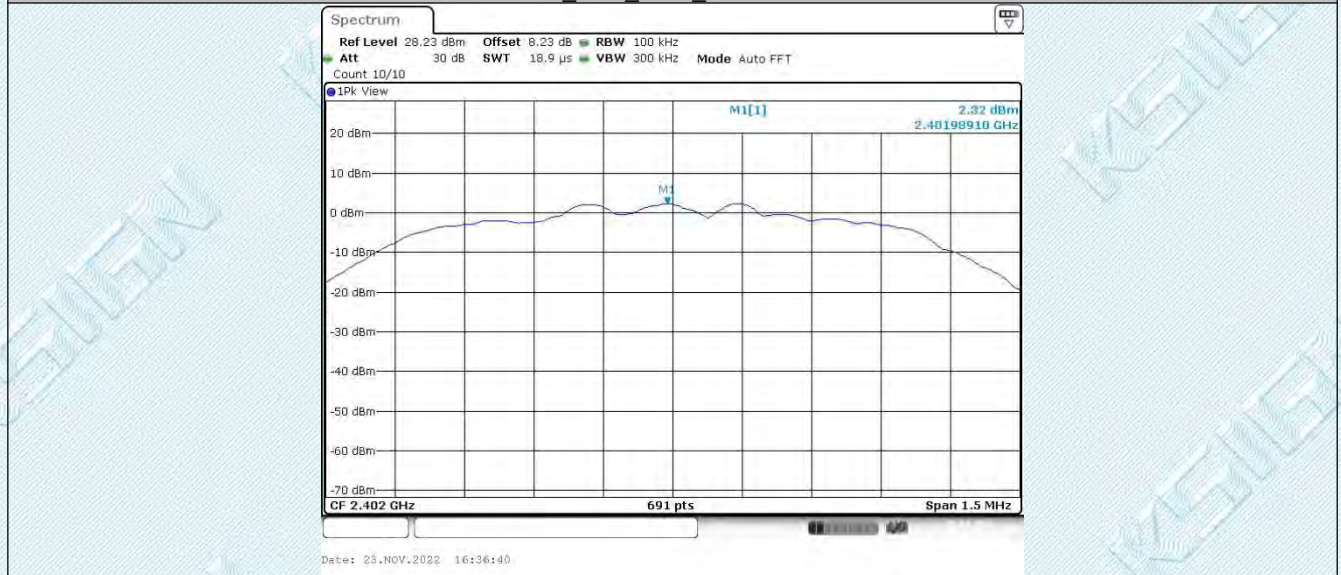
TRF EMC_R1

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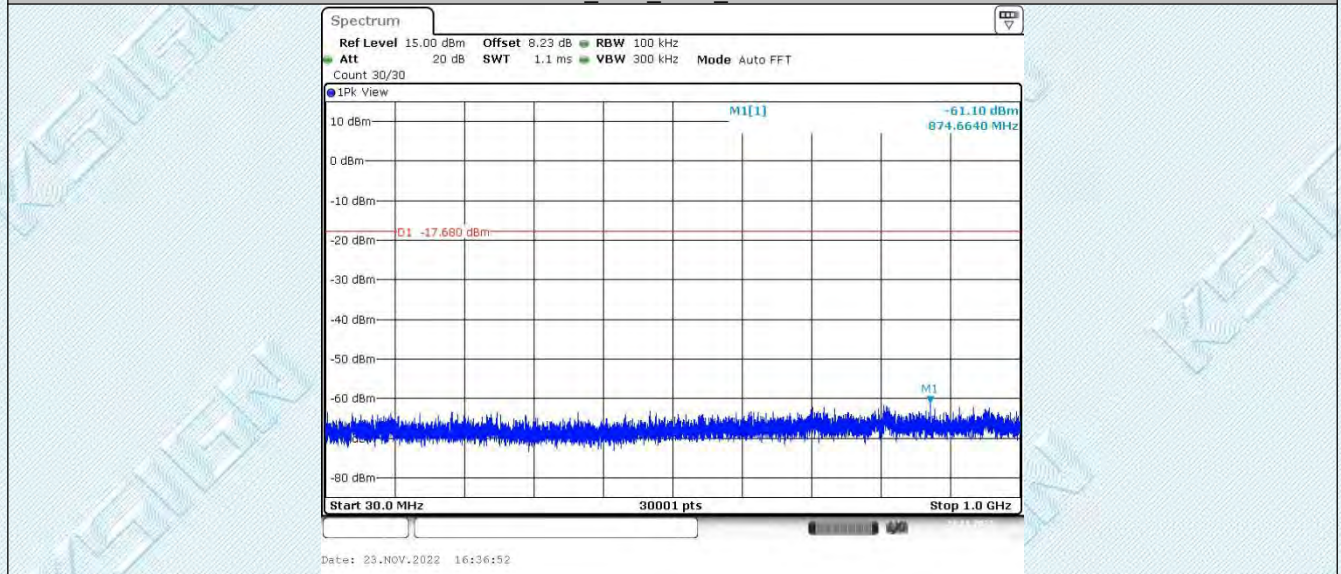
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

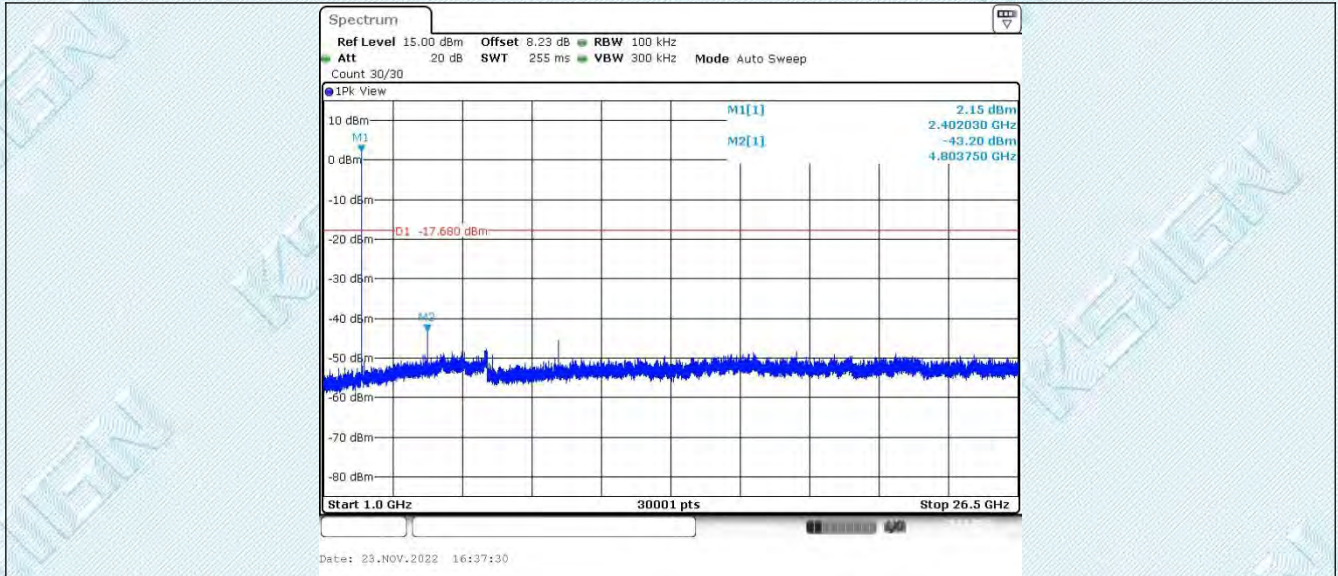


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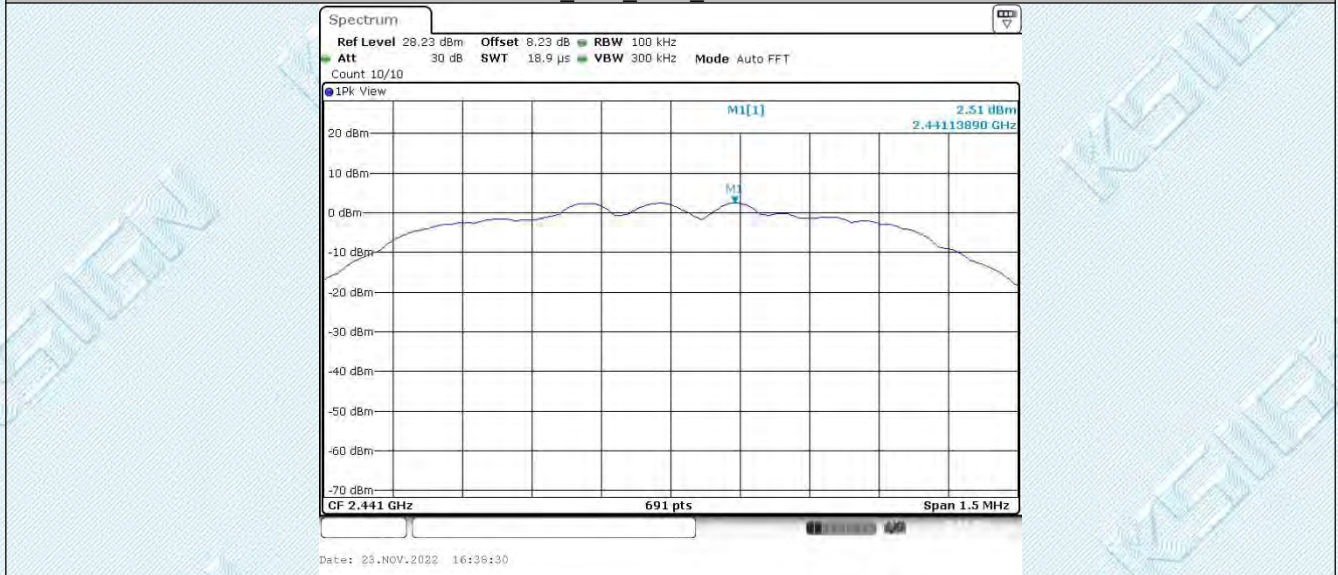
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

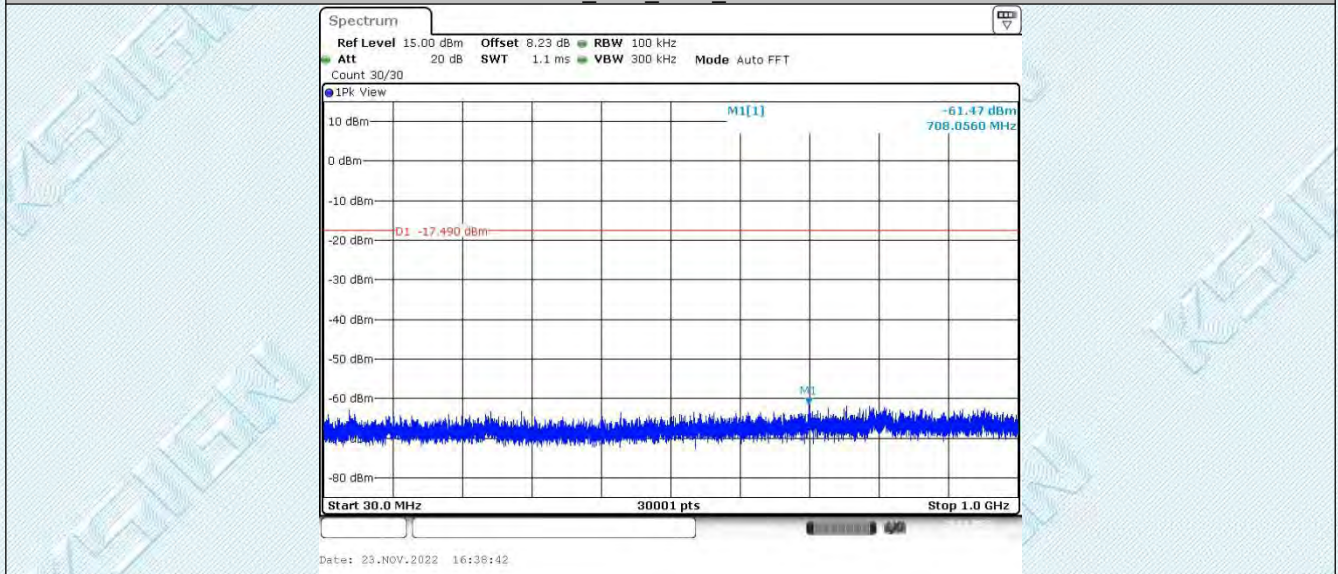
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000

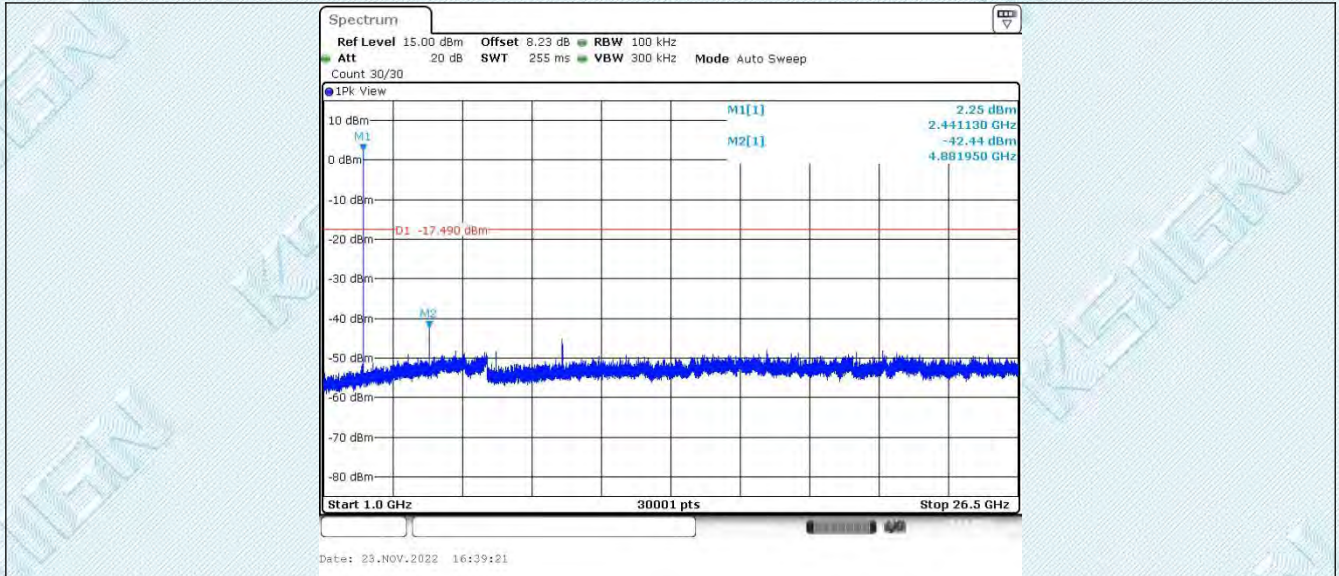


2DH5_Ant1_2441_1000~26500

TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

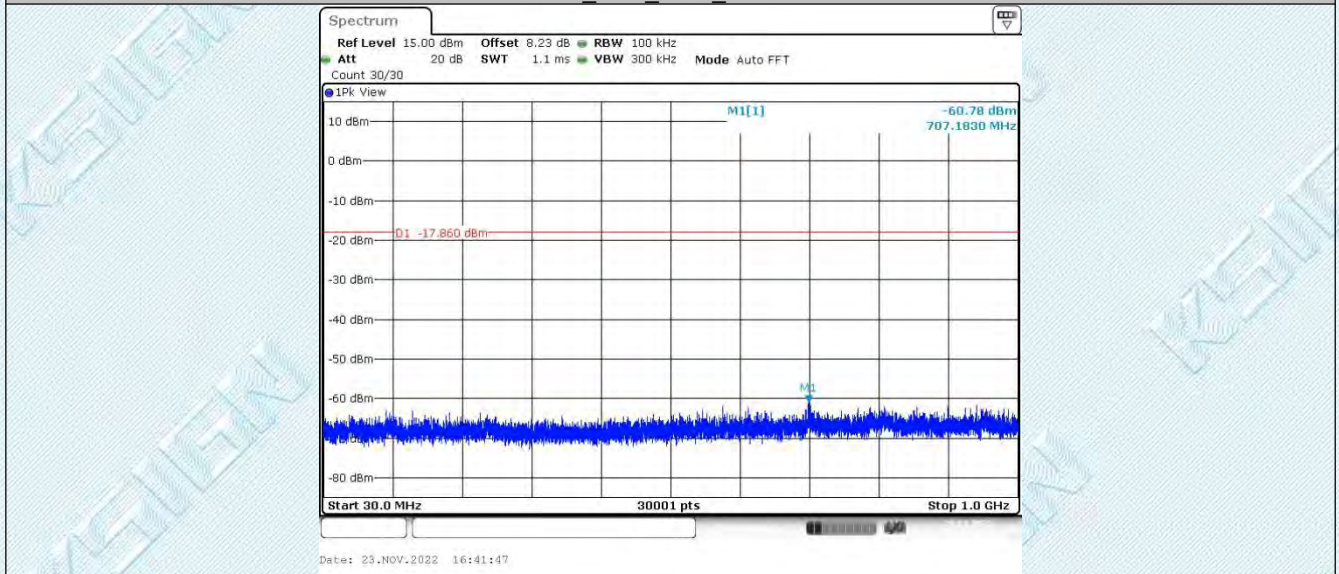
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

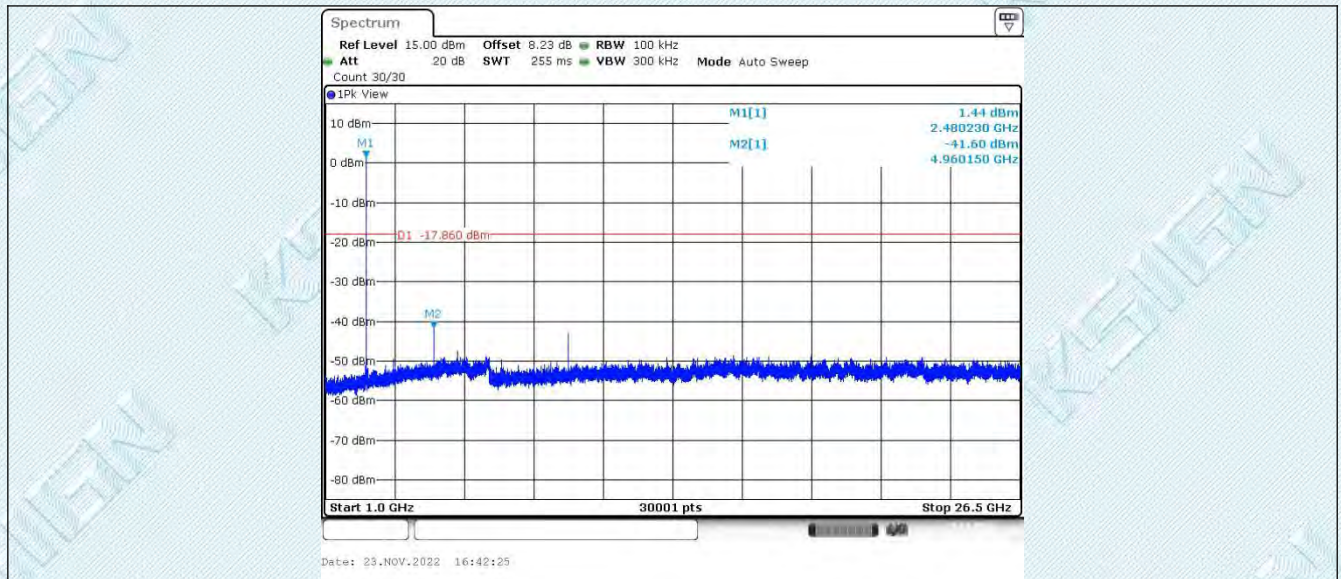


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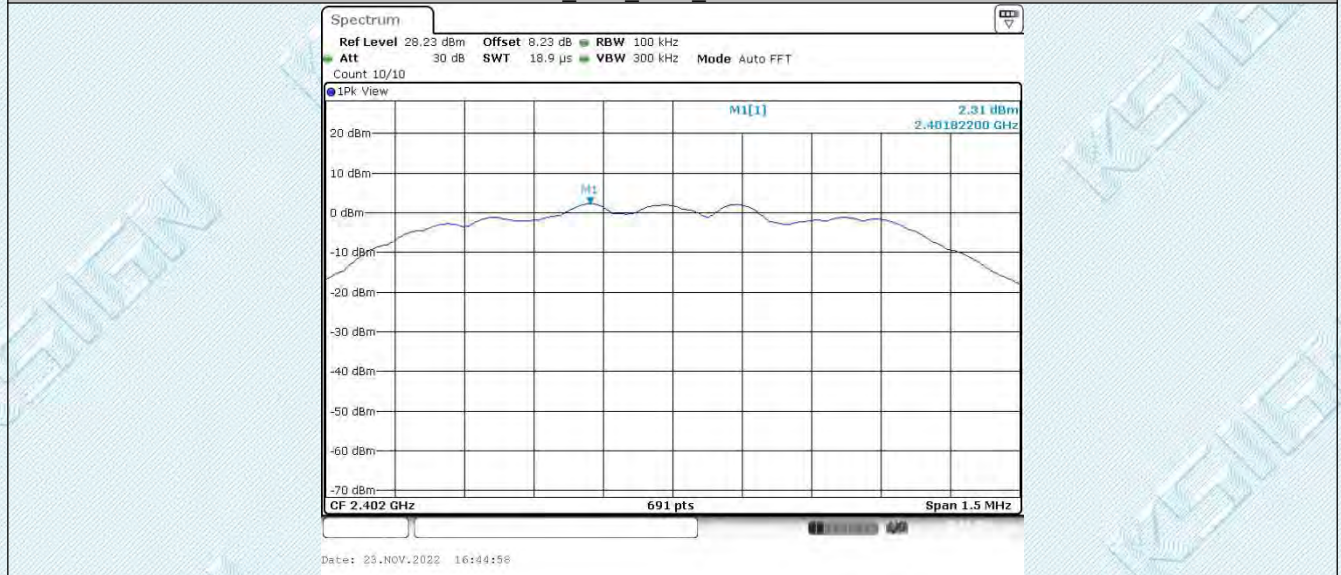
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

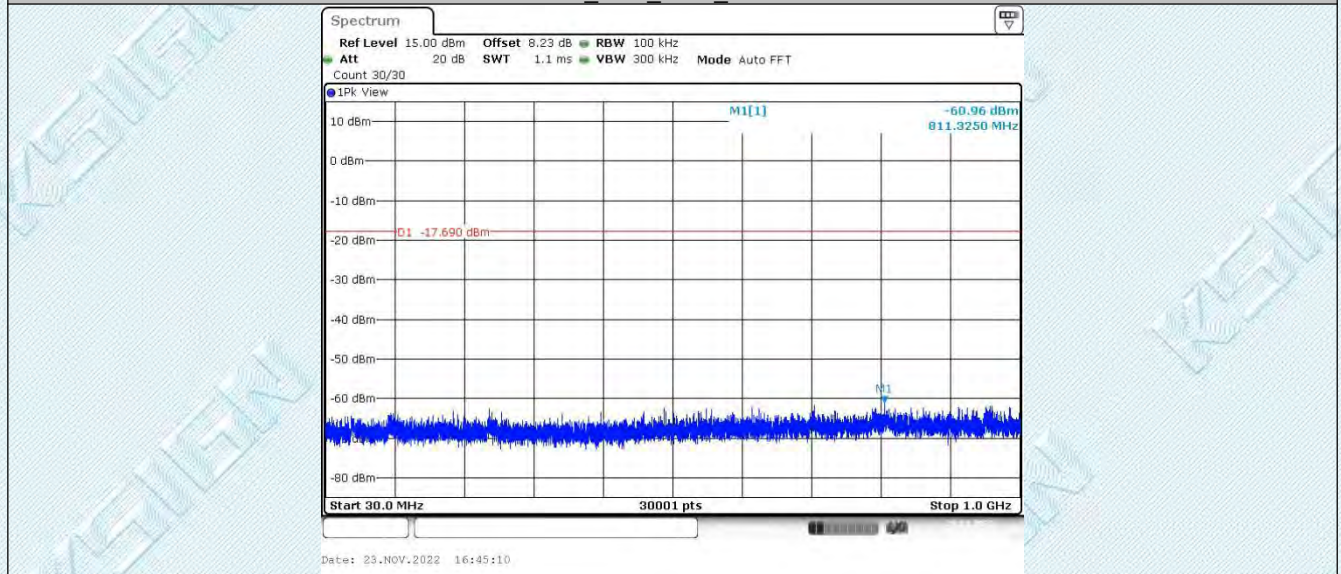
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

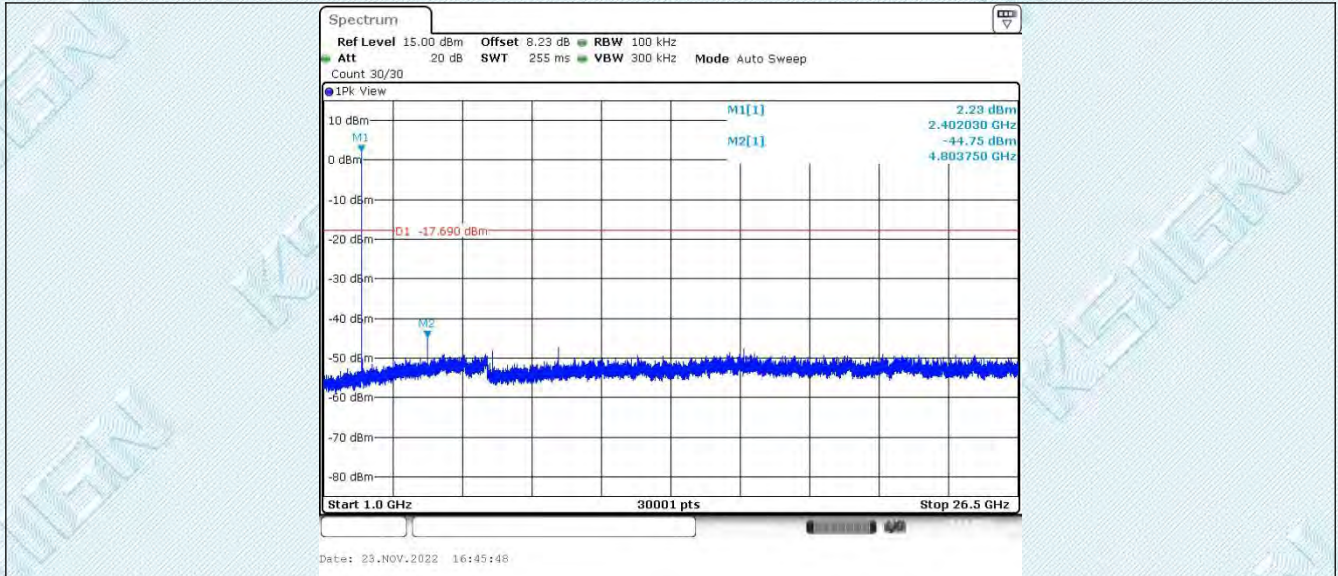


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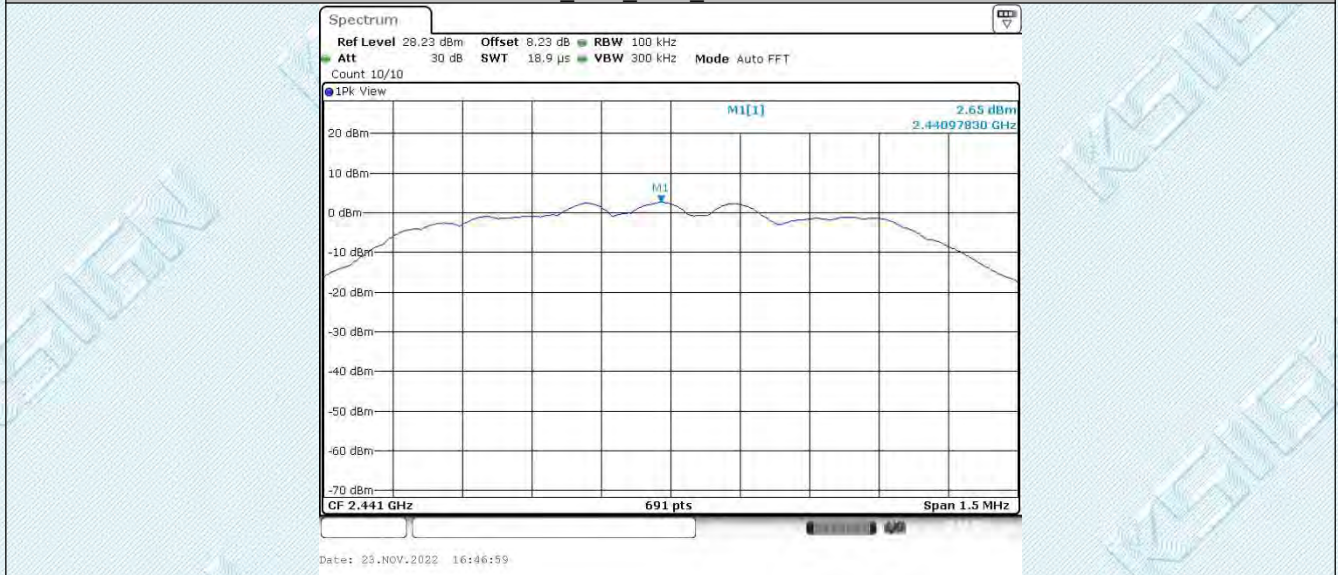
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

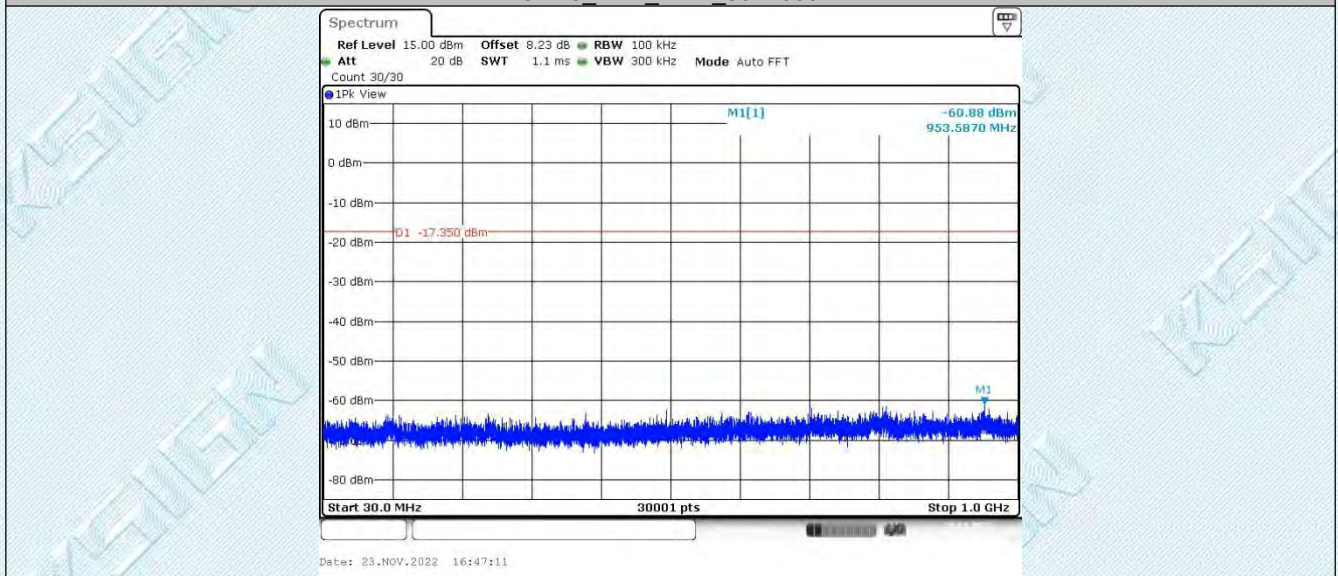
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

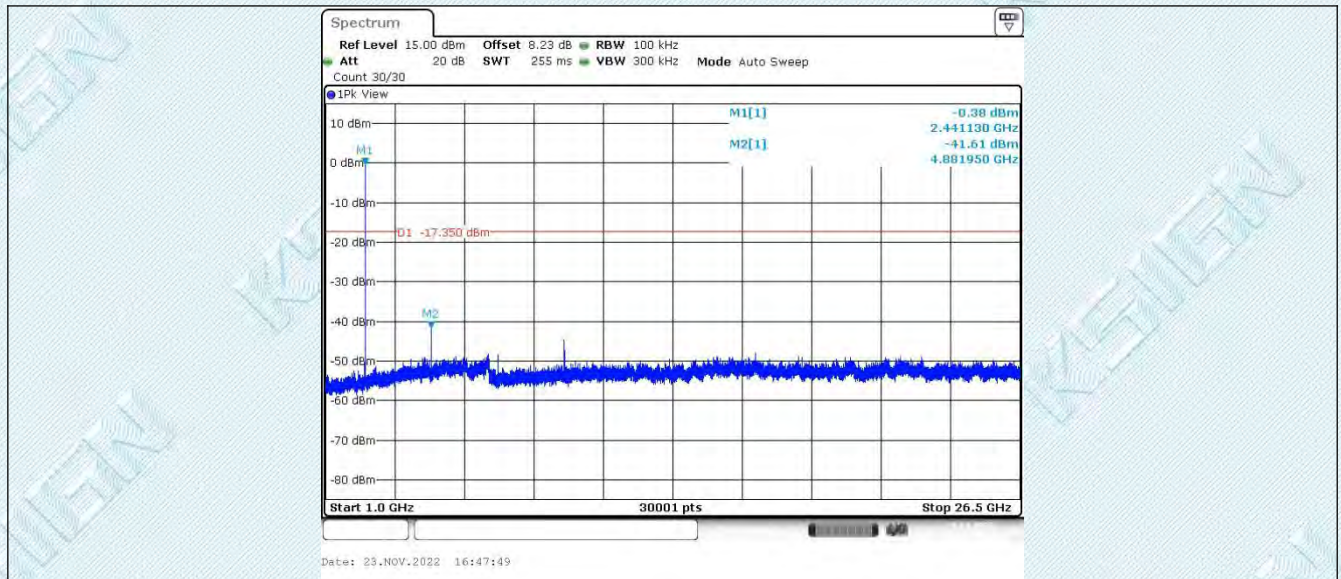


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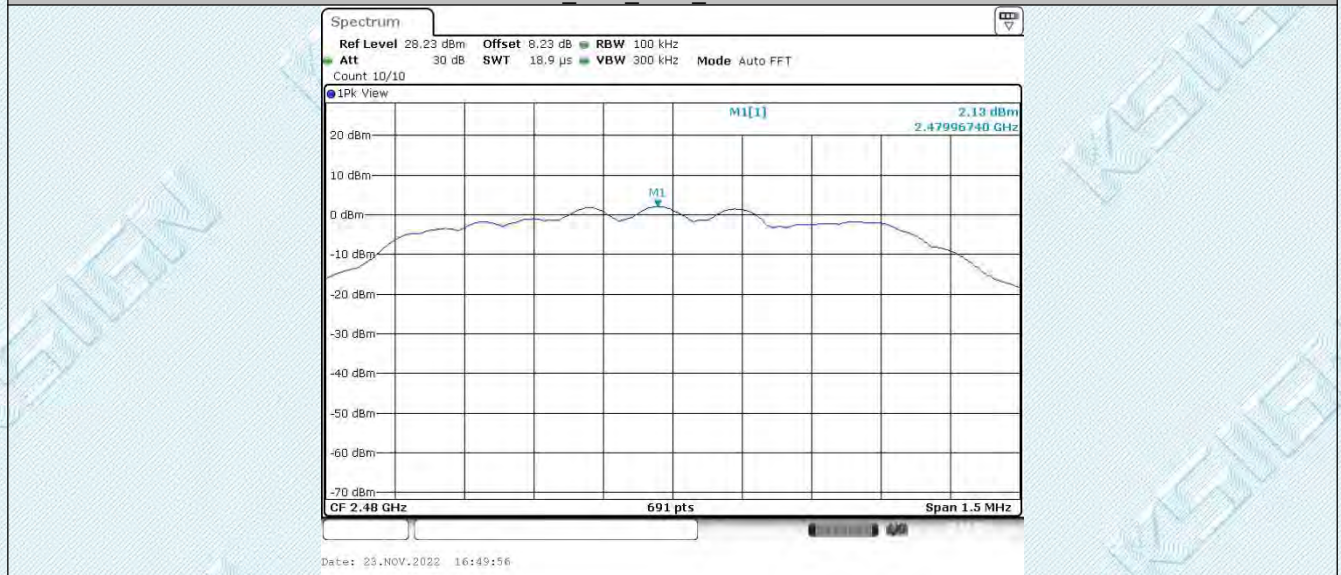
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

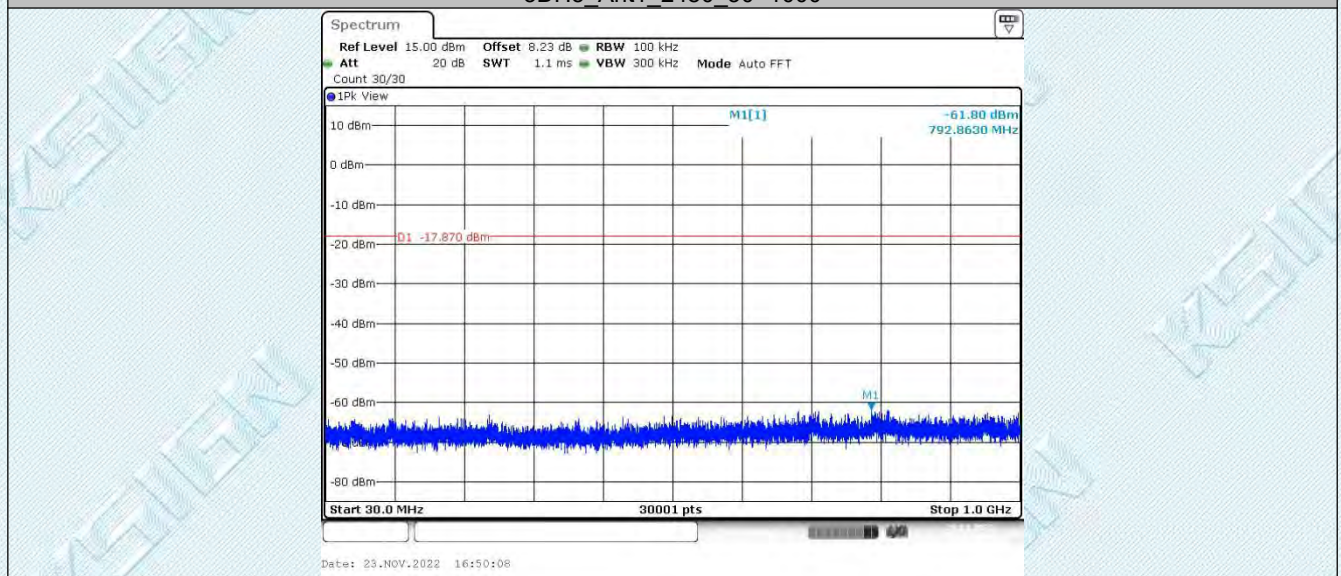
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000

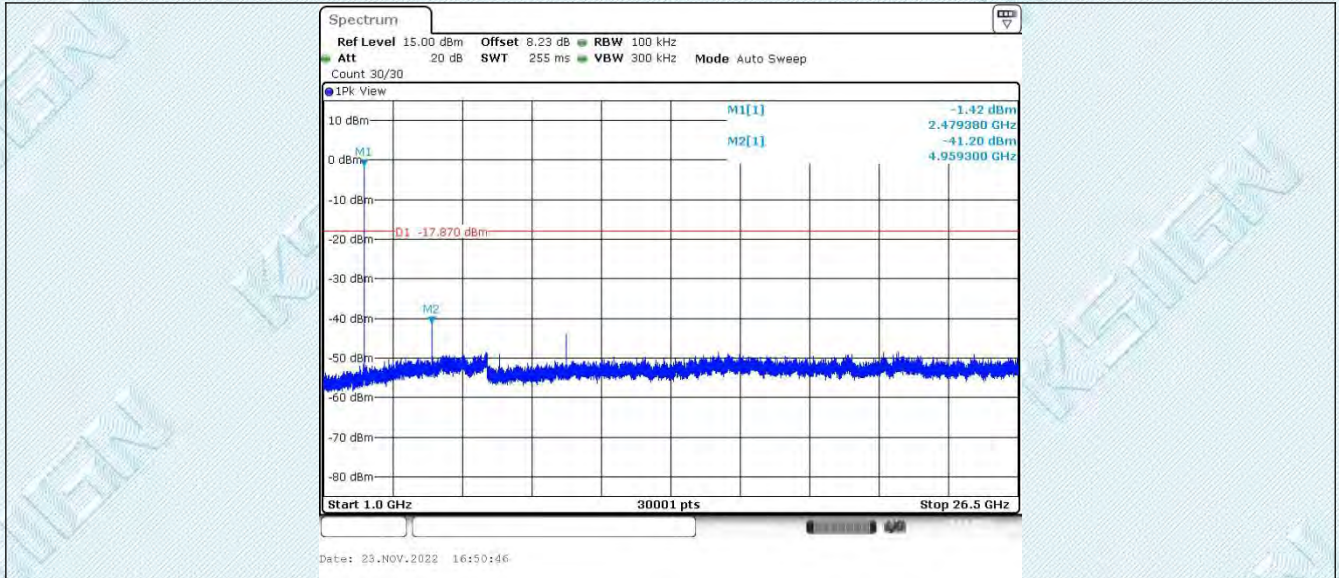


3DH5_Ant1_2480_1000~26500

TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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TRF EMC_R1

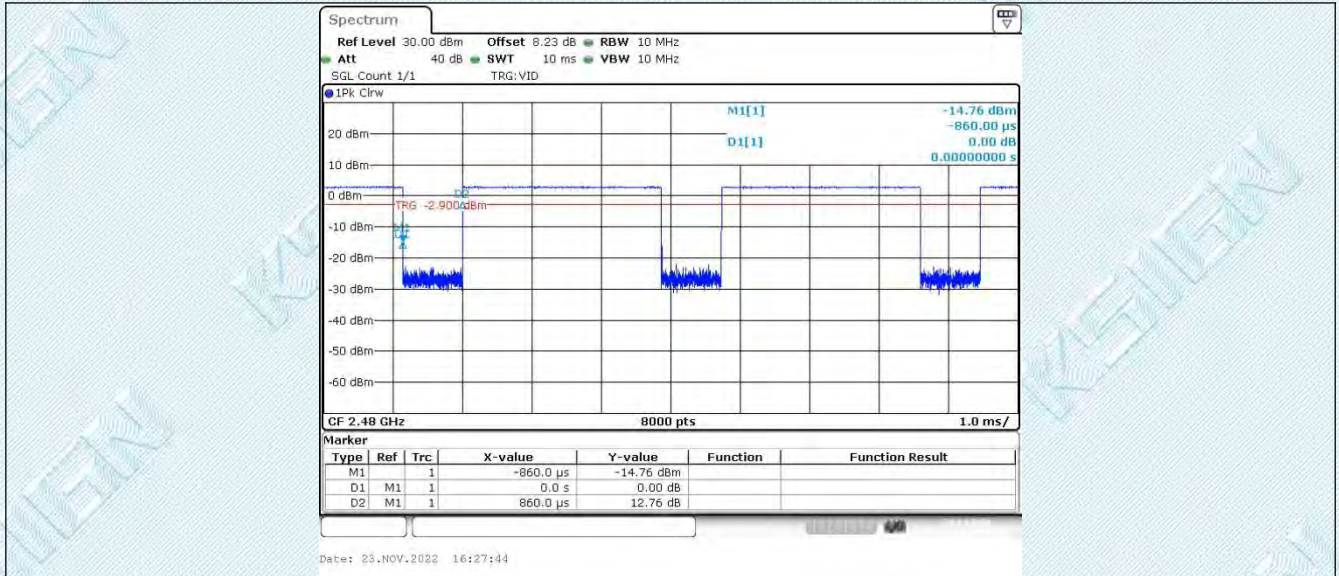
Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

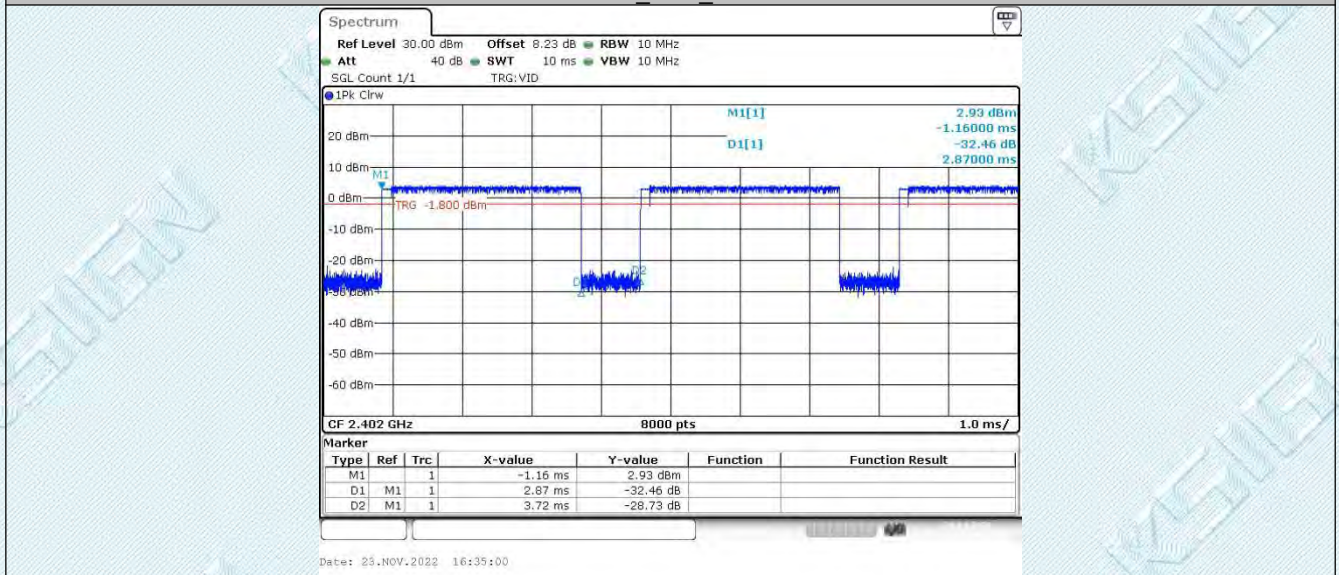
6.9. Appendix I: Duty Cycle

6.9.1. Test Result

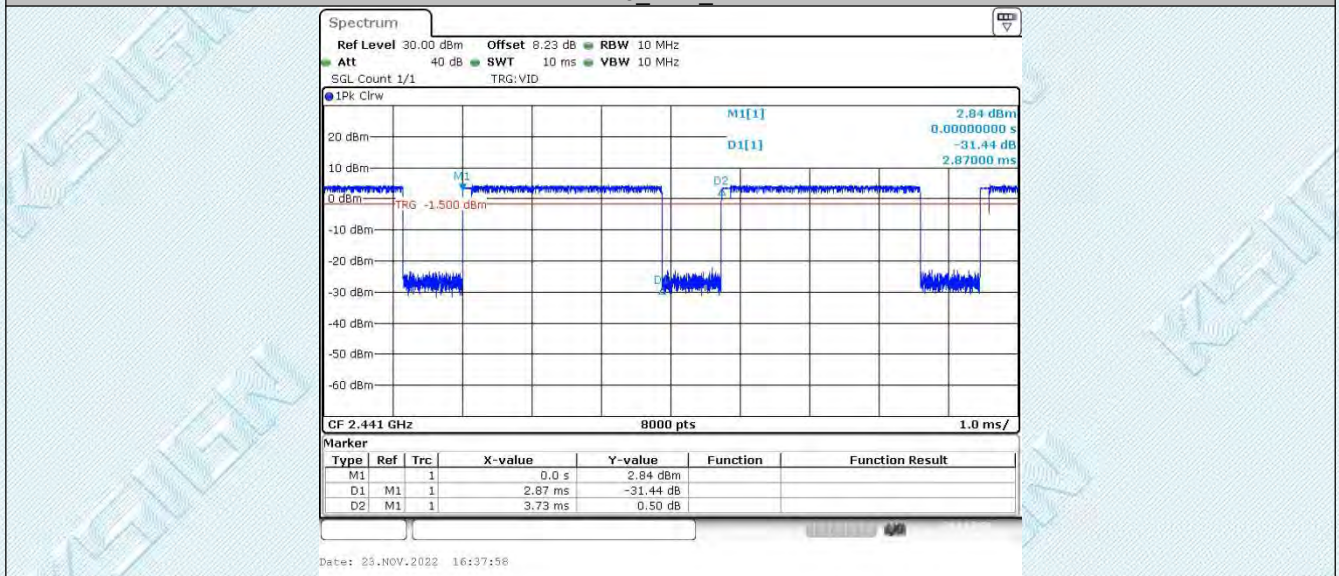
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	0.00	0.86	100	∞
		2441	0.00	0.86	100	∞
		2480	0.00	0.86	100	∞
2DH5	Ant1	2402	2.87	3.72	77.15	1.13
		2441	2.87	3.73	76.94	1.14
		2480	2.87	3.72	77.15	1.13
3DH5	Ant1	2402	0.00	0.85	100	∞
		2441	0.00	0.85	100	∞
		2480	0.00	0.85	100	∞



2DH5_Ant1_2402



2DH5_Ant1_2441

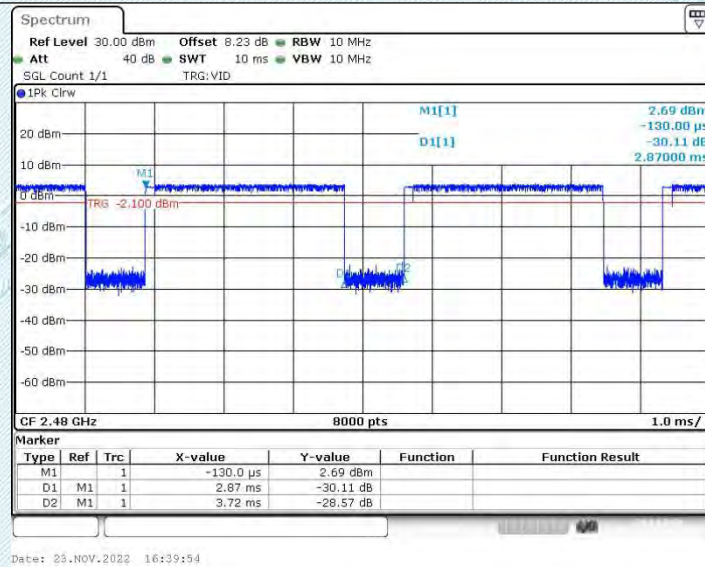


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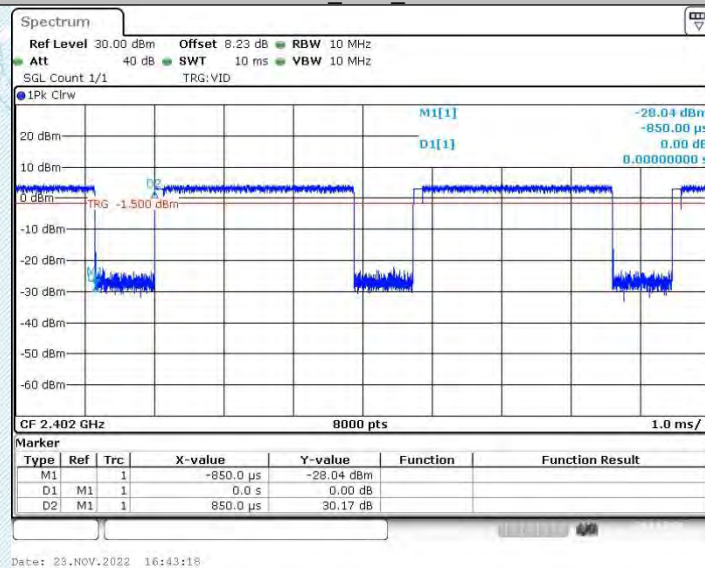
TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

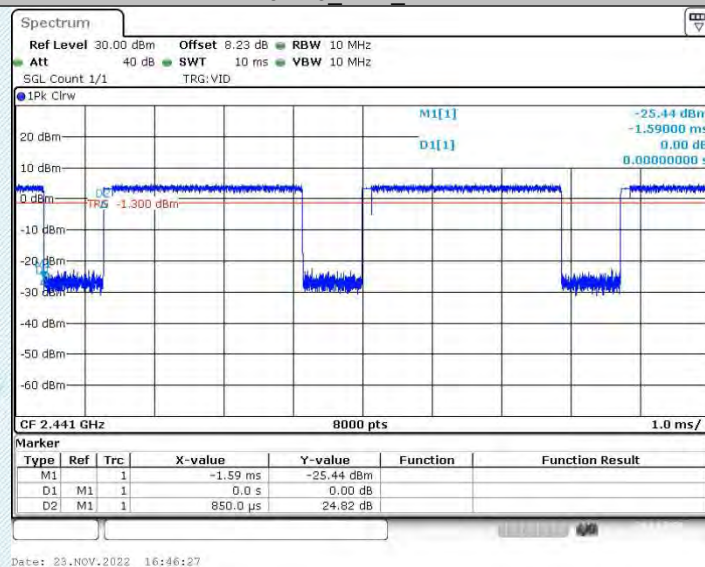
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



3DH5_Ant1_2402



3DH5_Ant1_2441

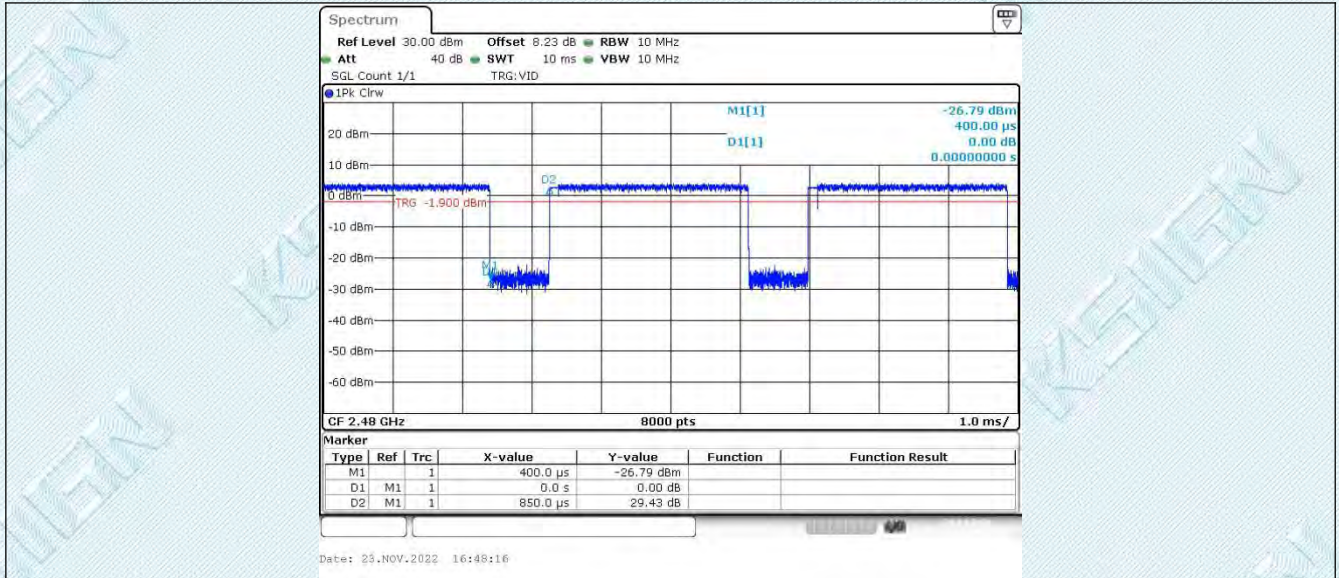


3DH5_Ant1_2480

TRF EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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--THE END--