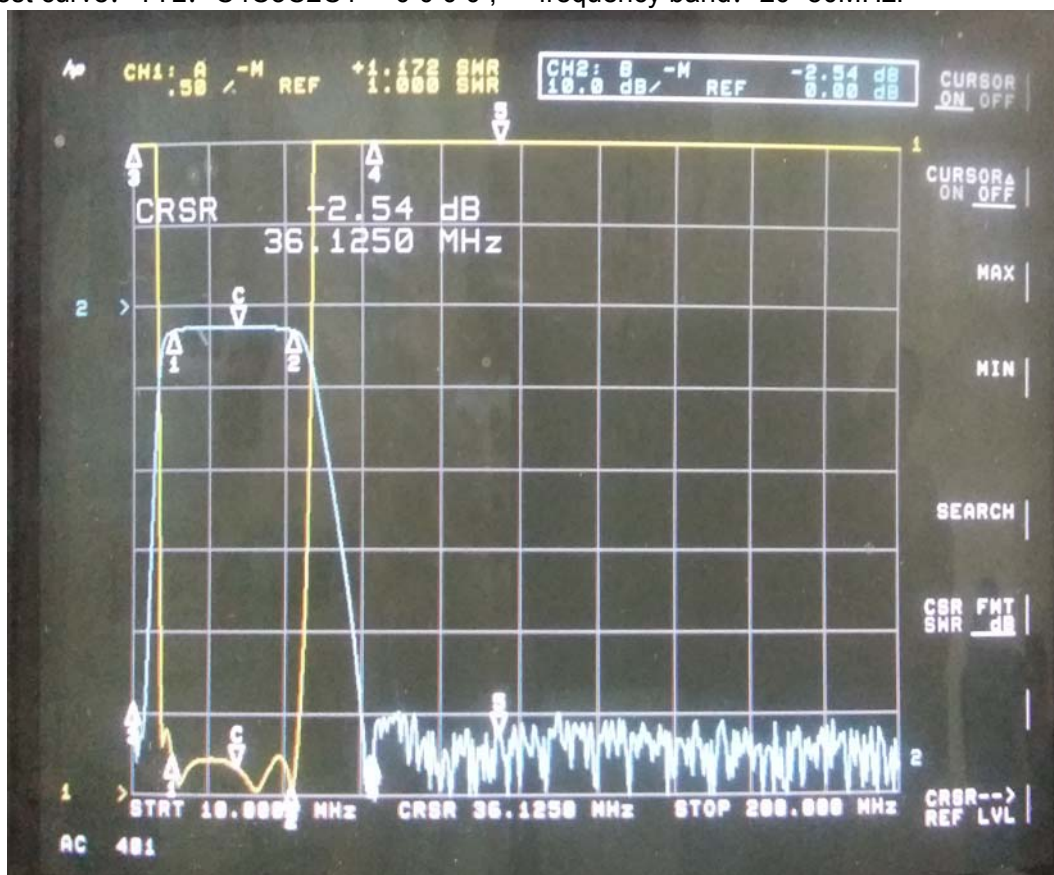
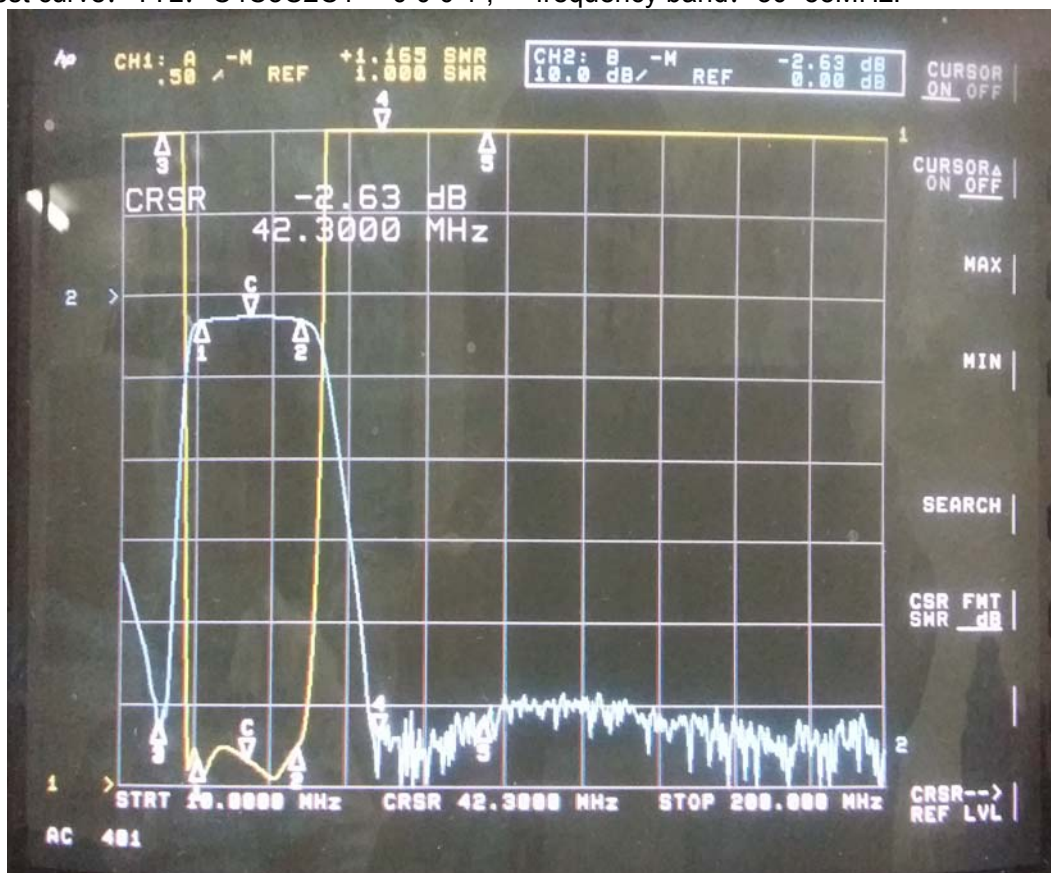


Test Report of ZQFB0020-3000-12

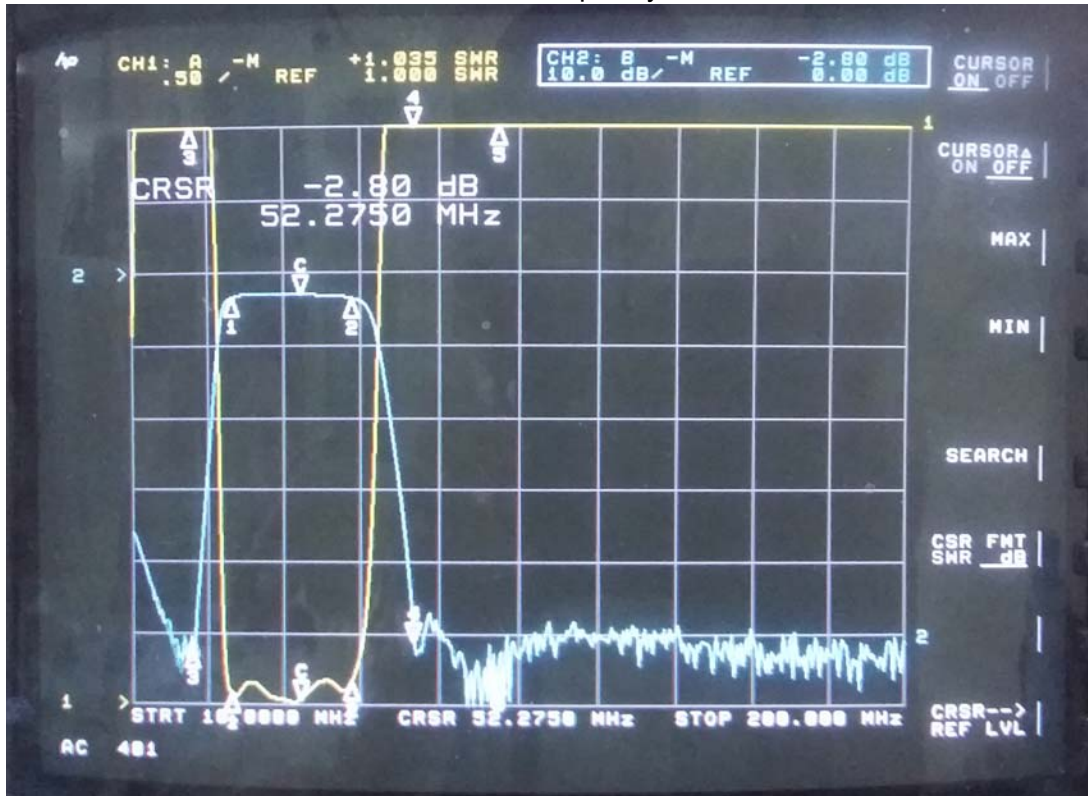
1. Test curve: TTL: C4C3C2C1---0 0 0 0 ; frequency band: 20~50MHz:



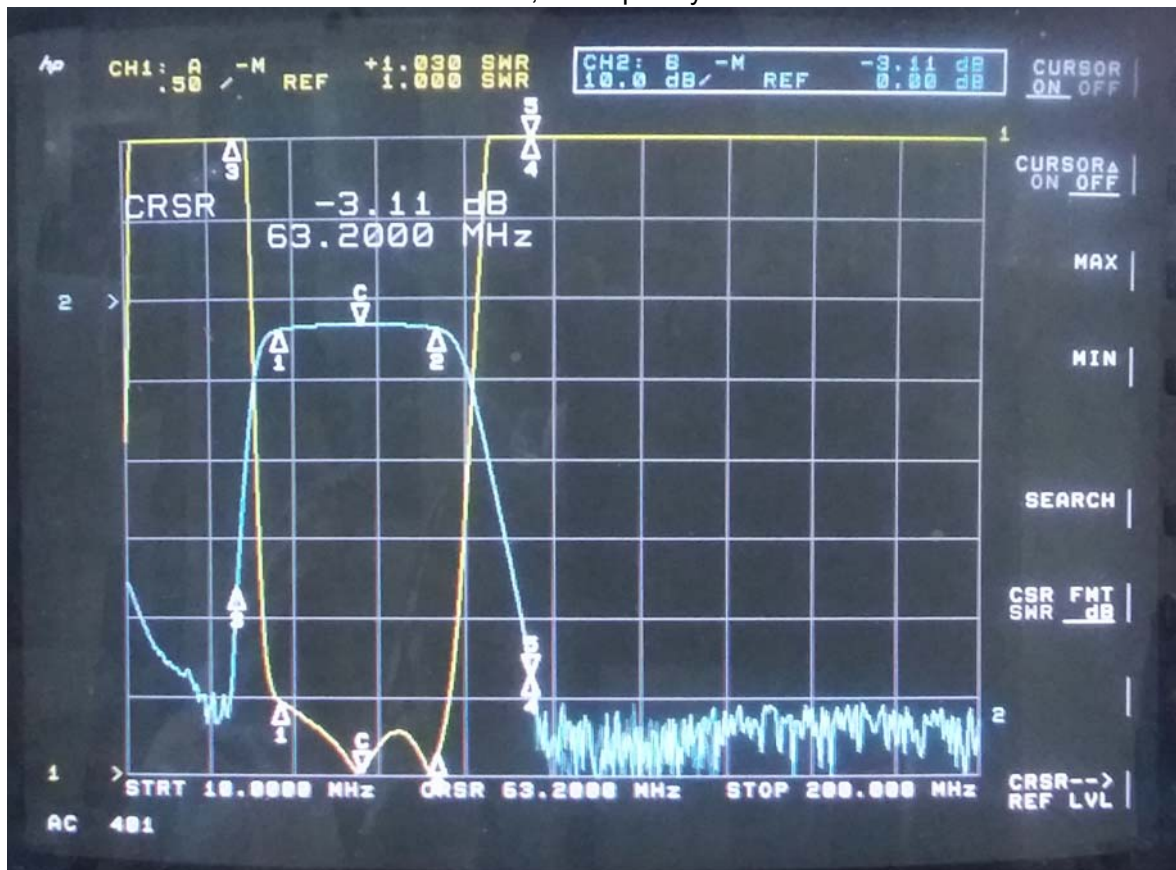
2. Test curve: TTL: C4C3C2C1---0 0 0 1 ; frequency band: 30~55MHz:



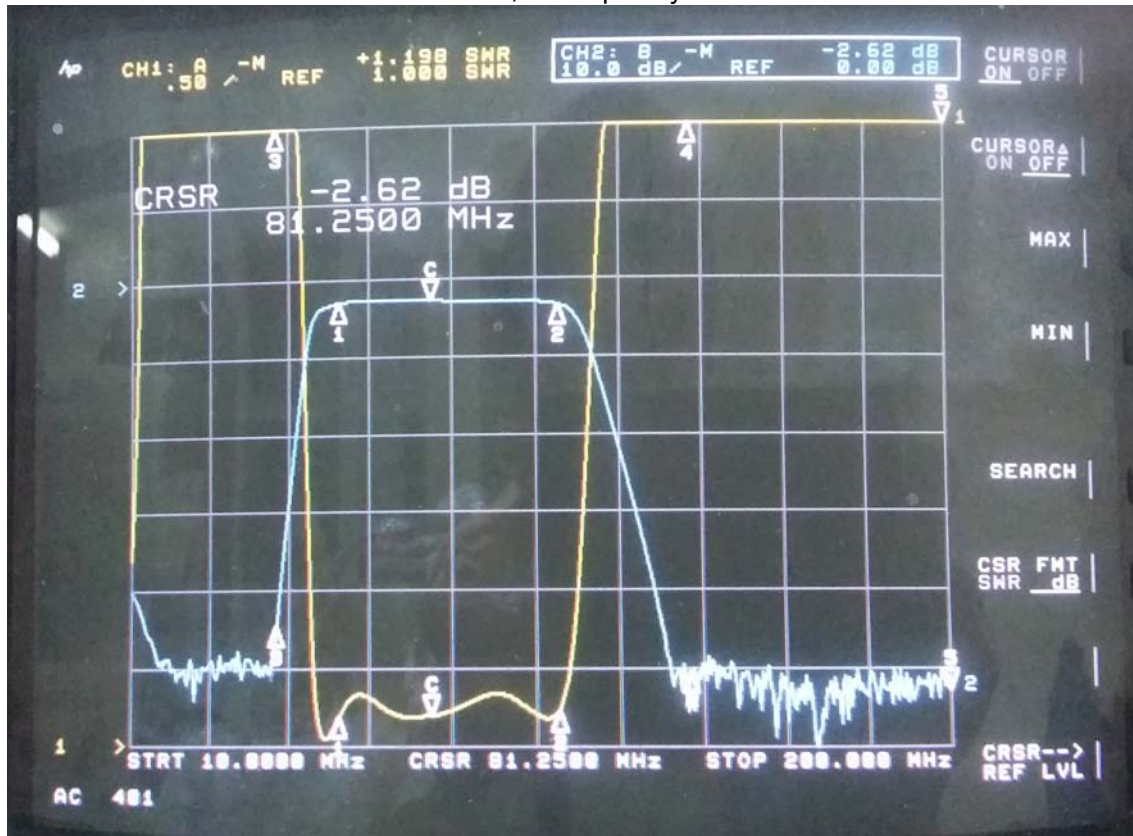
3. Test curve: TTL: C4C3C2C1---0 0 1 0 ; frequency band: 35~65MHz:



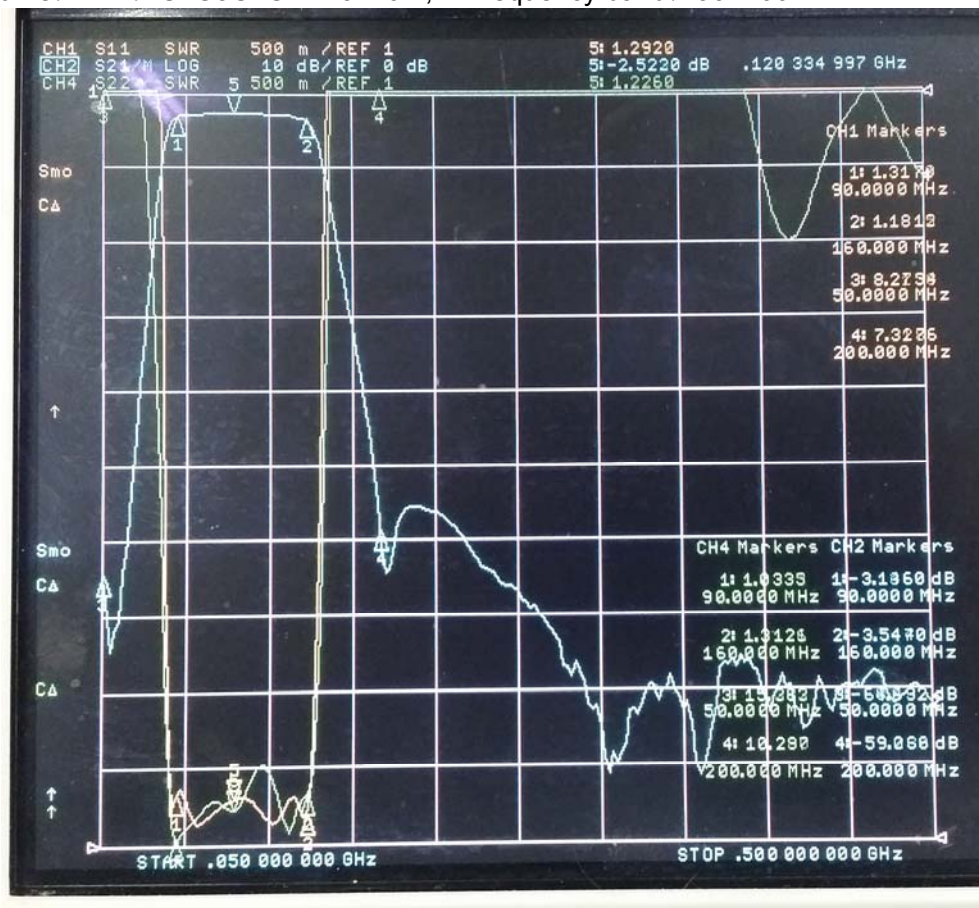
4. Test curve: TTL: C4C3C2C1---0 0 1 1 ; frequency band: 45~80MHz:



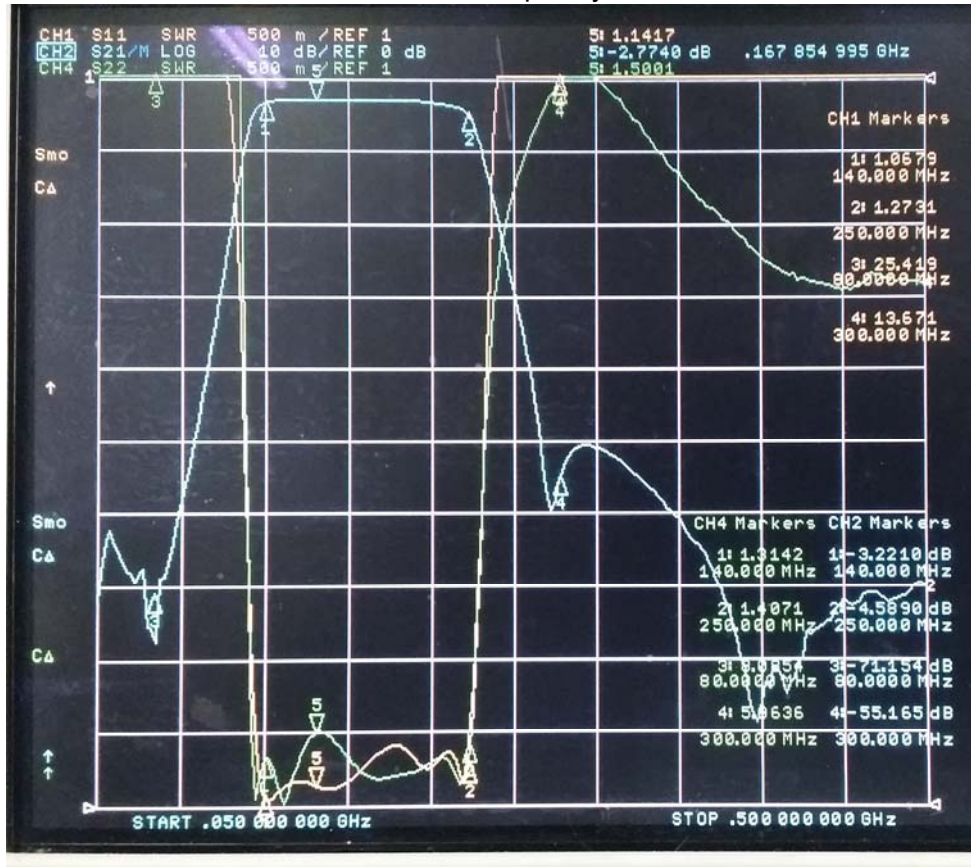
5. Test curve: TTL: C4C3C2C1---0 1 0 0; frequency band: 60~110MHz:



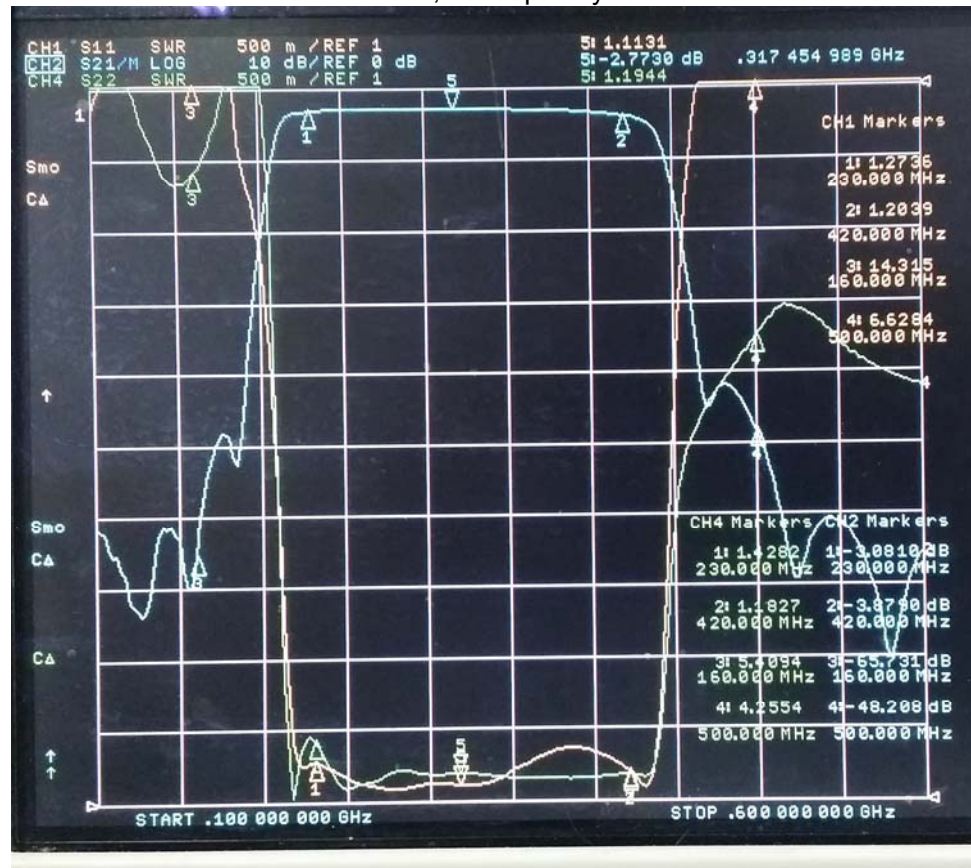
6. Test curve: TTL: C4C3C2C1---0 1 0 1; frequency band: 90~160MHz:



7. Test curve: TTL: C4C3C2C1----0 1 1 0 ; frequency band: 140~250MHz:



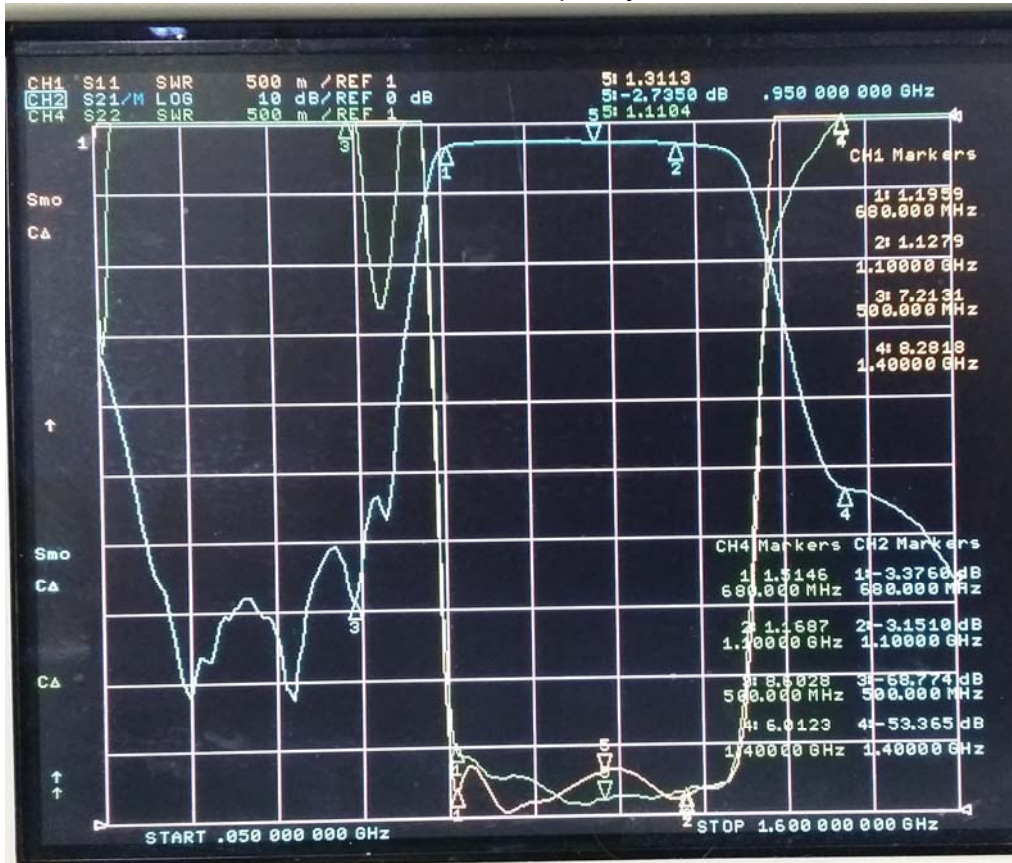
8. Test curve: TTL: C4C3C2C1----0 1 1 1 ; frequency band: 230~420MHz:



9. Test curve: TTL: C4C3C2C1----1 0 0 0 ; frequency band: 400~700MHz:



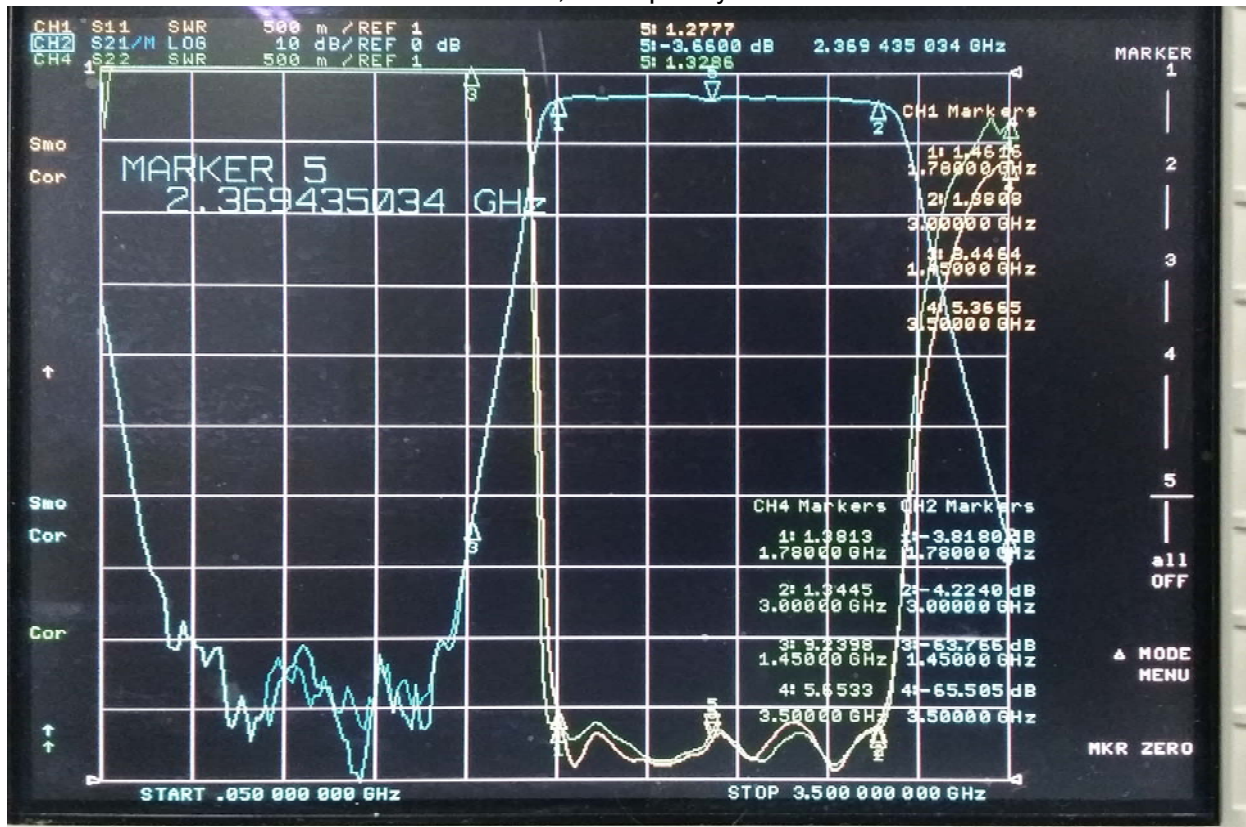
10. Test curve: TTL: C4C3C2C1----1 0 0 1 ; frequency band: 680~1100MHz:



11. Test curve: TTL: C4C3C2C1----1 0 1 0; frequency band: 1080~1800MHz:



12. Test curve: TTL: C4C3C2C1----1 0 1 1; frequency band: 1780~3000MHz:



Test Results:

TTL C4C3C2C1	Frequency Band	IL (dB)		VSWR(max)		Rejection
		Min	Max	S11	S22	
0000	20~50MHz	2.5	3.1	1.25	1.26	0-10MHz≥30dB, 70-200MHz≥40dB
0001	30~55MHz	2.6	3.1	1.24	1.25	0-20MHz≥30dB, 75-200MHz≥40dB
0010	35~65MHz	2.7	3.3	1.20	1.19	0-25MHz≥30dB, 80-200MHz≥40dB
0011	45~80MHz	3.1	3.8	1.45	1.46	0-35MHz≥30dB, 100-200MHz≥40dB
0100	60~110MHz	2.5	3.3	1.36	1.32	0-45MHz≥30dB, 140-200MHz≥40dB
0101	90~160MHz	2.5	3.5	1.36	1.51	0-50MHz≥60dB, 200-250MHz≥40dB
0110	140~250MHz	2.8	4.6	1.40	1.50	40-80MHz≥60dB, 300-400MHz≥40dB
0111	230~420MHz	2.7	3.9	1.36	1.45	100-160MHz≥60dB, 500-600MHz≥40dB
1000	400~700MHz	2.3	3.0	1.25	1.36	200-300MHz≥60dB,800-1000MHz≥40dB
1001	680~1100MHz	2.7	3.4	1.32	1.51	200-500MHz≥55dB,1400-1600MHz≥40dB
1010	1080~1800MHz	2.8	3.9	1.44	1.26	500-850MHz≥55dB,2000-2400MHz≥40dB
1011	1780~3000MHz	3.2	4.2	1.46	1.38	500-1450MHz≥55dB,3500-4000MHz≥40dB

TTL Control Definition

DB-9 Interface Defination

Pin#	1	2	3	4	5
Defination	C1	C2	C3	C4	NC
Pin#	6	7	8	9	/
Defination	NC	+5V	-5V	GND	/

Note: NC is N/A.

C1、C2、C3、C4 are TTL control to switch channels.