

To whom it may concern:

We, Huawei Technologies Co., Ltd., states according to the difference description below,

1 Difference between QISVOG-LX9 and QISVOG-L04

| Model | QISVOG-LX9 | QISVOG-L04 |
|-----------------|--|---|
| PCB | The same | The same |
| Frequency-GSM | The same | The same |
| Frequency-WCDMA | The same | The same |
| Frequency-LTE | The same Support B32 Unsupport B66 | Different Support B66 Unsupport B32 |
| 4*4 Mimo | The same Support B1、B3、B7 | Different Support B2、B4、B7、B66 |
| SIM Card | Dual | Single |
| Hardware | Support B32 Location ID: SAW filter:Z3401,Z4104, B32 Diplexer:Z3402,Z5403 RF low noise amplifier:U3405,U4103 Capacitor:C3422,C3423,C3425,C3442,C2912,C3411,L3533,L4416,C3418,C4102 Inductor:L3412,L3422,L3413,L3408,L4124,L4137,L4139,L4140 Function Description:B32 main RF circuit and diversity RF circuit | Unsupport B32 Delete components related to the B32 RF circuit. |

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|---|---|---|
| <p>4*4 MIMO (the 3rd & 4th antenna)</p> | <p>Support B1/3/7 4*4MIMO and delete/replace components related circuit;</p> <p>Location ID: B1/3/7</p> <p>SAW filter of the 4th antenna :Z4403 (Vendor:KYOCERA type:SF18-1842M8SUA3)</p> <p>SAW filter of the 3rd antenna :Z4301 (Vendor:KYOCERA type:SF18-1842M8SUA3)</p> <p>Capacitor:L5507,C5401,C5402,C5517,C3411,L3533,L4416</p> <p>Inductor:L5510,L4330,L5415,L3408,L4419</p> <p>Function Description: B1/3/7 4*4MIMO RF circuit</p> | <p>Support B2/7/66(4) 4*4MIMO and delete/replace components related circuit;</p> <p>Location ID: B2/7/66(4)</p> <p>SAW filter of the 4th antenna :Z4403 (Vendor:MURATA type:SATEY1G96AU3FOAR00)</p> <p>SAW filter of the 3rd antenna :Z4301 (Vendor:MURATA type:SATEY1G96AU3FOAR00)</p> <p>Inductor:L4419,L4412,L4416,C5444,C5407,L5510</p> <p>Function Description:B2/7/66(4) 4*4MIMO RF circuit</p> |
| <p>B1/B3/B3 2 & B2/B66 RF & CA circuit</p> | <p>Unsupport B66 and delete/replace components related circuit;</p> <p>Support CA_1-3-32</p> <p>Location ID: B1/B3</p> <p>Quadruplexer:Z3502(Vendor:QORVO, type:QM25002TR13-5KHW)</p> <p>Capacitor:C3533</p> <p>B2 SAW filter: Z4101(Vendor:MURATA ect. type:SAFFB1G96AB0FOAR1X ect.)</p> <p>L4123,L4122,L3523,L3532,C3520,L3512,L4419</p> <p>Function Description:B2 RX and CA_1-3-32 diplexer RF circuit</p> | <p>Unsupport CA_1-3-32 and delete/replace components related circuit;</p> <p>Support B66 &Support CA_2-66</p> <p>Location ID: B2/B7/B66(4) diversity TRI SAW filter:Z4105 (Vendor:MURATA type:SATEY1G96AU3FOAR00)</p> <p>B2/B66(B4)</p> <p>Quadruplexer:Z3502(Vendor:KYOCERA type:SQ25-1745K6SUA4)</p> <p>Capacitor:C3401,C3402,C3504,L4110</p> <p>Inductor:L3532,L4111,L4112,L4107,L4109,L4114,L4108,L4118,C3520,L3533,L3512</p> <p>Function Description:B2/B66 Single-band and CA main and diversity RF circuits</p> |
| <p>B7 RX circuit</p> | <p>B7 receive matching circuit include:</p> <p>Inductor:L4127,L4126</p> | <p>B7 receiving matching circuit is adjusted to include:</p> <p>Inductor:C4101</p> <p>B7 diversity TRI SAW</p> |

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|--|-----------|--|--|
| | | | filter:Z4105(Vendor:MURATA type:SATEY1G96AU3FOAR00) |
| Software | Different | | Different |
| Dimensions | The same | | The same |
| Appearance | The same | | The same |
| main antenna | The same | | The same |
| DIV antenna | The same | | The same |
| BT/Wi-Fi antenna | The same | | The same |
| MIMO antenna | The same | | The same |
| NFC | The same | | The same |
| WPC | The same | | The same |
| Supported CA configurations for DL CA | Different | | Different |
| Supported CA configurations for UL CA | The same | | The same |
| Others | NA | | NA |

The VOG-L29/VOG-L09 and VOG-L04 is family models. Based on above details of model difference, some original data of FCC ID: QISVOG-L04 remains representative of FCC ID: QISVOG-LX9 after engineering judgment, detailed explanation of re-used data as below:

For SAR, new full test of LTE band 7,for the other frequency bands,QISVOG-LX9 shares the same test data of QISVOG-L04 and is tested at the SAR worst case of QISVOG-L04

the re-used test data in QISVOG-LX9 refer to QISVOG-L04 Report NO. SYBH(Z-SAR)20181218028001-2

For RF , We performed new test for LTE band7 and intra-band CA_7C of VOG-L29,but the power is not worsen than the same bands of VOG-L04,so we only presented RSE in SYBH(Z-RF)20181218028001-2001 .For other Bands RSE was tested and presented RSE in SYBH(Z-RF)20181218028001-2001 .The other test data in QISVOG-LX9 can refer to QISVOG-L04 Report



NO.

HR20191000201(WPT)

HR20191000202(DFS/WIFI 5G RSE)

SYBH(Z-RF)20181218028001-2002(WIFI 2.4G)

SYBH(ZRF)20181218028001-2006(NFC)

SYBH(Z-RF)20181218028001-2001(GSM/ WCDMA/LTE)

SYBH(Z-RF)20181218028001-2005 (WIFI 5G)

SYBH(Z-RF)20181218028001-2004(BT BLE)

SYBH(Z-RF)20181218028001-2003(BT)

Zhang Xinghai

EMC Laboratory Manager

Huawei Technologies Co., Ltd.

E-mail: zhangxinghai@huawei.com

Tel: 0086-0755-28970299

Fax: 0086-0755-89650226