

Radio Test Report

Report No.: RJBARR-WTW-P21100969I

Test Model: MT7902

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Issued Date: 2023/1/5

Applicant: MediaTek Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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Release Control Record

| Issue No. | Description | Date Issued |
|-----------------------|------------------|-------------|
| RJBARR-WTW-P21100969I | Original release | 2023/1/5 |

1 Certificate of Conformity

Product: 1TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7902

Applicant: MediaTek Inc.

Standards: ARIB STD-T66 (V3.7),
MIC No.88(2004) Test method of specified radio equipments
Annex no. 43 Article 2 paragraph 1 item (19)
RCR STD-33 (V5.4),
MIC No.88(2004) Test method of specified radio equipments
Annex no. 44 Article 2 paragraph 1 item (19)-2
Certification Ordinance Article 2-1-19-3
Certification Ordinance Article 2-1-79
Certification Ordinance Article 2-1-80

This report is issued as a supplementary report. This report shall be used combined together with its original report.

Prepared by : Vivian Huang , **Date:** 2023/1/5
Vivian Huang / Specialist

Approved by : May Chen , **Date:** 2023/1/5
May Chen / Manager

2 General Information

2.1 General Description of EUT

| | |
|-----------------------|--|
| Product | 1TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card |
| Brand | MediaTek |
| Test Model | MT7902 |
| Nominal Voltage | 3.3Vdc from host equipment |
| Modulation Type | For WLAN CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode and VHT in 2.4GHz 1024QAM for OFDMA in 11ax mode For BT-EDR: GFSK, $\pi/4$ -DQPSK, 8DPSK For BT-LE: GFSK |
| Modulation Technology | For WLAN: DSSS, OFDM, OFDMA For BT-EDR: FHSS For BT-LE: DTS |
| Transfer Rate | For WLAN: 802.11b: up to 11 Mbps 802.11a/g: up to 54 Mbps 802.11n: up to 150 Mbps 802.11ac: up to 866.7 Mbps 802.11ax: up to 1201.0 Mbps For BT-EDR: Up to 3 Mbps For BT-LE: Up to 2 Mbps |
| Operating Frequency | For WLAN: 2.4GHz: 802.11b: 2412 ~ 2484 MHz 802.11g/n (HT20), VHT20, 802.11ax (HE20): 2412 ~ 2472 MHz 802.11n (HT40), VHT40, 802.11ax (HE40): 2422 ~ 2462 MHz 5GHz: 802.11a/n/ac/ax (W52+W53): 5180 ~ 5320 MHz 802.11a/n/ac/ax (W56): 5500 ~ 5720 MHz 6GHz: 5955 ~ 6415 MHz For BT: 2402 ~ 2480 MHz |
| Number of Channel | For WLAN 2.4GHz: 802.11b: 14 802.11g/n (HT20), VHT20, 802.11ax (HE20): 13 802.11n (HT40), VHT40, 802.11ax (HE40): 9 5GHz: (W52+W53) 802.11a/n (HT20)/ac (VHT20), 802.11ax (HE20): 8 802.11n (HT40)/ac (VHT40), 802.11ax (HE40): 4 802.11ac (VHT80), 802.11ax (HE80): 2 802.11ac (VHT160), 802.11ax (HE160): 1 5GHz: (W56) 802.11a/n (HT20)/ac (VHT20), 802.11ax (HE20): 12 802.11n (HT40)/ac (VHT40), 802.11ax (HE40): 6 802.11ac (VHT80), 802.11ax (HE80): 3 802.11ac (VHT160), 802.11ax (HE160): 1 6GHz: 802.11a, 802.11ax (HE20): 24 |

| | |
|---------------------|---|
| | 802.11ax (HE40): 12 802.11ax (HE80): 6 802.11ax (HE160): 3 For BT-EDR: 79 For BT-LE: 40 |
| Antenna Type | Refer to note |
| Antenna Connector | Refer to note |
| Accessory Device | NA |
| Data Cable Supplied | NA |

Note:

1. This report is issued as a supplementary report to BV CPS report as below test report:

| Function | Report No. |
|-----------------|-------------------------|
| WLAN_2.4GHz | RJBARR-WTW-P21100969D-2 |
| WLAN_5GHz | RJBARR-WTW-P21100969D-3 |
| BT-EDR | RJBARR-WTW-P21100969D-1 |
| BT-LE | RJBARR-WTW-P21100969D |
| WLAN_6GHz (LPI) | RJBARR-WTW-P21100969D-4 |
| WLAN_6GHz (VLP) | RJBARR-WTW-P21100969D-5 |

Old antenna filling RJBARR-WTW-P21100969G

2. The difference compared with original report is adding antennas and according to EUT's specification by the customer judgement, there is no additional tested.

| Original | | | | | | | | |
|----------------|--------------|-------|--------------------|------------------------|-----------------------|--------------|----------------|-------------------|
| Antenna Set No | RF Chain No. | Brand | Model | Antenna Net Gain (dBi) | Frequency Range (GHz) | Antenna Type | Connector Type | Cable Length (mm) |
| 1 | Chain0 | PSA | RFMTA340718EMLB302 | 3.18 | 2.4~2.4835 | PIFA | ipex(MHF) | 200 |
| | | | | 4.92 | 5.15~5.895 | | | |
| | Chain1 | PSA | RFMTA340718EMLB302 | 3.18 | 2.4~2.4835 | PIFA | ipex(MHF) | 200 |
| | | | | 4.92 | 5.15~5.895 | | | |
| 2 | Chain0 | PSA | RFMTA311020EMMB301 | 1.71 | 2.4~2.4835 | PIFA | ipex(MHF) | 200 |
| | | | | 4.82 | 5.15~5.895 | | | |
| | | | | 4.76 | 5.925~6.425 | | | |
| | | | | 4.29 | 6.425~6.525 | | | |
| | Chain1 | PSA | RFMTA311020EMMB301 | 4.61 | 6.525~6.875 | PIFA | ipex(MHF) | 200 |
| | | | | 4.09 | 6.875~7.125 | | | |
| | | | | 1.71 | 2.4~2.4835 | | | |
| | | | | 4.82 | 5.15~5.895 | | | |

| Ant. Set | Brand | Main/Aux | Model | Peak gain with cable loss | Cable Loss (dB) | Antenna Type | Connector Type | Cable Length (mm) |
|----------|--------------|----------|---------------|--------------------------------------|----------------------------------|--------------|----------------|-------------------|
| 3 | LUXSHARE-ICT | Main | LA9RF361-CS-H | 2.98 dBi @ 2.4GHz 4.92dBi @ 5GHz | 0.66 dB @2.4GHz 1.06 dB @5GHz | PIFA | I-PEX | 275 |
| | | Aux | LA9RF362-CS-H | 2.78 dBi @ 2.4GHz 2.59 dBi @ 5GHz | 1.26 dB @2.4GHz 1.95dB @5GHz | | | 520 |
| 4 | AWAN | Main | AYF6Y-100190 | 2.88 dBi @ 2.4GHz 4.82 dBi @ 5GHz | 0.69 dB @2.4GHz 1.17 dB @5GHz | PIFA | IPEX NGFF | 275 |
| | | Aux | AYF6Y-100191 | 2.64 dBi @ 2.4GHz 2.47 dBi @ 5GHz | 1.3 dB @2.4GHz 2.21 dB @5GHz | | | 520 |

| Ant. Set | Brand | Main/Aux | Model | Peak gain with cable loss | Cable Loss (dB) | Antenna Type | Connector Type | Cable Length (mm) |
|----------|-------|----------|----------------|--|---|--------------|----------------|-------------------|
| 5 | INPAQ | Main | WA-P-LE-02-064 | 2.75 dBi @ 2.4GHz 4.57 dBi @ 5.15~5.85GHz | 0.56 dB @2.4GHz 0.87 dB @ 5.15~5.85GHz | PIFA | I-PEX MHF4-L | 200 |
| | | Aux | WA-P-LE-01-006 | 2.71 dBi @ 2.4GHz 4.63 dBi @ 5.15~5.85GHz | 1.22 dB @2.4GHz 1.90 dB @5.15~5.85GHz | | | 440 |
| 6 | PULSE | Main | TZ20921 | 2.55 dBi @ 2.4GHz 4.33 dBi @ 5.15~5.85GHz | 0.60 dB @2.4GHz 0.85 dB @5.15~5.85GHz | PIFA | I-PEX | 200 |
| | | Aux | TZ20924 | 2.22 dBi @ 2.4GHz 4.15 dBi @5.15~5.85GHz | 1.33 dB @2.4GHz 1.86 dB @5.15~5.85GHz | | | 440 |

| Ant. Set | Brand | Main/Aux | Model | Peak gain with cable loss | Cable Loss (dB) | Antenna Type | Connector Type | Cable Length (mm) |
|----------|-------|----------|----------------------------|--------------------------------------|----------------------------------|--------------|----------------|-------------------|
| 7 | WNC | Main | 81EABU15.G37 (DC33002R700) | 2.23 dBi @ 2.4GHz 0.46 dBi @ 5GHz | 1.56 dB @2.4GHz 2.23 dB @5GHz | PIFA | I-pex MHF-4L | 608.5 |
| | | Aux | 81EABU15.G38 (DC33002R710) | 1.69 dBi @ 2.4GHz 0.02 dBi @ 5GHz | 2.09 dB @2.4GHz 2.97 dB @5GHz | | | 813.5 |
| 8 | WNC | Main | 81EABU15.G53 | 2.43dBi @ 2.4GHz 2.01dBi @ 5GHz | 2.12 dB @2.4GHz 3.28dB @5GHz | PIFA | i-pex(MHF) | 587 |
| | | Aux | 81EABU15.G53 | 2.84dBi @ 2.4GHz 1.26dBi @ 5GHz | 2.73 dB @2.4GHz 4.22dB @5GHz | | | 757 |

| Ant. Set | Brand | Main/Aux | Model | Peak gain with cable loss | Cable Loss (dB) | Antenna Type | Connector Type | Cable Length (mm) |
|----------|-------|--|--|---|---|--------------|----------------|-------------------|
| 9 | INPAQ | Main:12CR5-1ANTA2-51R (DAM-J8-K1-DB-800-10-25) | Main:12CR5-1ANTA2-51R (DAM-J8-K1-DB-800-10-25) | 2.32dBi @ 2.4GHz 2.82dBi @ 5GHz 2.97 dBi @ 5.925~6.425GHz 2.64 dBi @6425~6525GHz 2.64 dBi @6.525~6.875GHz 2.57 dBi @6.875~7.125GHz | 1.62 dB @2.4GHz 2.69dB @5GHz 2.87 dB@ 5.925~6.425GHz 2.90 dB @6425~6525GHz 3.02 dB @6.525~6.875GHz 3.15 dB @6.875~7.125GHz | PIFA | SMA RP PLUG | 800 |
| | | Aux:12CR5-1ANTA2-51R (DAM-J8-K1-DB-800-10-25) | Aux:12CR5-1ANTA2-51R (DAM-J8-K1-DB-800-10-25) | 2.38 dBi @ 2.4GHz 2.97 dBi @ 5GHz 2.98 dBi @ 5.925~6.425GHz 2.96 dBi @6425~6525GHz 2.84 dBi @6.525~6.875GHz 2.82 dBi @6.875~7.125GHz | 1.7 dB @2.4GHz 2.51dB @5GHz 2.87 dB@ 5.925~6.425GHz 2.90 dB @6425~6525GHz 3.02 dB @6.525~6.875GHz 3.15 dB @6.875~7.125GHz | | | 800 |
| 10 | INPAQ | Main:12CR5-1ANTA2-61R (DAM-J9-K1-DB-800-10-70) | 12CR5-1ANTA2-61R (DAM-J9-K1-DB-800-10-70) | 2.25 dBi @ 2.4GHz 2.79 dBi @ 5GHz 2.89 dBi @ 5.925~6.425GHz 2.94 dBi @6425~6525GHz 2.95 dBi @6.525~6.875GHz 2.97 dBi @6.875~7.125GHz | 1.58 dB @2.4GHz 2.61dB @5GHz 2.87 dB@ 5.925~6.425GHz 2.90 dB @6425~6525GHz 3.02 dB @6.525~6.875GHz 3.15 dB @6.875~7.125GHz | PIFA | SMA RP PLUG | 800 |
| | | Aux:12CR5-1ANTA2-61R (DAM-J9-K1-DB-800-10-70) | 12CR5-1ANTA2-61R (DAM-J9-K1-DB-800-10-70) | 2.30 dBi @ 2.4GHz 2.99 dBi @ 5GHz 2.85 dBi @ 5.925~6.425GHz 3.09 dBi @6425~6525GHz 3.11 dBi @6.525~6.875GHz 3.14 dBi @6.875~7.125GHz | 1.7 dB @2.4GHz 2.61dB @5GHz 2.87 dB@ 5.925~6.425GHz 2.90 dB @6425~6525GHz 3.02 dB @6.525~6.875GHz 3.15 dB @6.875~7.125GHz | | | 800 |

| Ant. Set | Brand | Main/Aux | Model | Peak gain with cable loss | Cable Loss (dB) | Antenna Type | Connector Type | Cable Length (mm) |
|----------|-------|----------|----------------|---|--------------------------------|--------------|-----------------------------------|-------------------|
| 11 | ASUS | Main | 14008-02650000 | 1.64@2.4~2.4835GHz 1.15@5.15~5.85GHz | 2.2dB @2.4GHz 4.0dB @5GHz | Dipole | SMA RP PLUG(RF Cable : IPEX MHF4) | 800 |
| | | Aux | 14008-02650000 | 1.65@2.4~2.4835GHz 1.12@5.15~5.85GHz | 2.2dB @2.4GHz 4.0dB @5GHz | Dipole | SMA RP PLUG(RF Cable : IPEX MHF4) | 800 |
| 12 | ASUS | Main | 14008-02650400 | 0.4@2.4~2.4835GHz 0.1@5.15~5.85GHz | 2.21dB @2.4GHz 3.54dB @5GHz | Dipole | SMA RP PLUG(RF Cable : IPEX MHF4) | 800 |
| | | Aux | 14008-02650400 | -0.8@2.4~2.4835GHz 2.7@5.15~5.85GHz | 2.21dB @2.4GHz 3.54dB @5GHz | Dipole | SMA RP PLUG(RF Cable : IPEX MHF4) | 800 |

| Ant. Set | Brand | Main/Aux | Model | Peak gain with cable loss | Cable Loss (dB) | Antenna Type | Connector Type | Cable Length (mm) |
|----------|--------|----------|----------------|---|--------------------------------|--------------|-----------------------------------|-------------------|
| 13 | ASUS | Main | 14008-02650600 | 1.23@2.4~2.4835GHz 3.93@5.15~5.85GHz | 1.84dB @2.4GHz 4.21dB @5GHz | Dipole | SMA R/P PLUG (RF Cable : IPEX) | 800 |
| | | Aux | 14008-02650600 | -0.1@2.4~2.4835GHz 4.55@5.15~5.85GHz | 1.75dB @2.4GHz 3.97dB @5GHz | Dipole | SMA R/P PLUG (RF Cable : IPEX) | 800 |
| 14 | Cortec | Main | AN2450-4902BRS | 2.92@2.4~2.4835GHz 4.67@5.15~5.85GHz | 0.5 dB @2.4GHz 0.8 dB @5GHz | Dipole | SMA R/P PLUG (RF Cable : IPEX) | 150 |
| | Cortec | Aux | AN2450-4902BRS | 2.92@2.4~2.4835GHz 4.67@5.15~5.85GHz | 0.5 dB @2.4GHz 0.8 dB @5GHz | Dipole | SMA R/P PLUG (RF Cable : IPEX) | 150 |

Newly

| Antenna Set No | Brand | Main/Aux | Model | Peak gain with cable loss | Cable Loss (dB) | Antenna Type | Connector Type | Cable Length (mm) | Remark |
|----------------|-------|----------|------------------------------------|---|---|--------------|----------------|-------------------|--------|
| 15 | INPAQ | Main | WA-P-LE-02-157 (14008-05600200) | 2.88 dBi @ 2.4GHz 3.08dBi @ 5GHz 2.55 dBi @ 5.925~6.425GHz 3.12 dBi @6.425~6.525GHz 4.00 dBi @6.525~6.875GHz 3.83 dBi @6.875~7.125GHz | 0.5 dB @2.4G 0.75 dB @5G 0.82 dB @ 5.925~6.425GHz 0.83 dB @6.425~6.525GHz 0.85 dB @6.525~6.875GHz 0.88 dB @6.875~7.125GHz | PIFA | IPEX MHF4-L | 180 | DIV |
| | | Aux | WA-P-LE-01-046 (14008-05600300) | 2.83 dBi @ 2.4GHz 2.12 dBi @ 5GHz 1.05 dBi @ 5.925~6.425GHz 1.94 dBi @6.425~6.525GHz 3.21 dBi @6.525~6.875GHz 3.21 dBi @6.875~7.125GHz | 1.96 dB @2.4G 2.99 dB @5G 3.21 dB @ 5.925~6.425GHz 3.29 dB @6.425~6.525GHz 3.38 dB @6.525~6.875GHz 3.49 dB @6.875~7.125GHz | | | 545 | |

| Antenna Set No | Brand | Main/Aux | Model | Peak gain with cable loss | Cable Loss (dB) | Antenna Type | Connector Type | Cable Length (mm) | Remark |
|----------------|--------------|----------|------------------------------------|--|--|--------------|---------------------|-------------------|--------|
| 16 | Luxshare-ICT | Main | LA9RF474-CS-H (14008-05600000) | 2.32 dBi @ 2.4GHz 2.85 dBi @ 5GHz 2.50 dBi @ 5.925~6.425GHz 3.03 dBi @ 6.425~6.525GHz 3.87 dBi @ 6.525~6.875GHz 3.81 dBi @ 6.875~7.125GHz | 0.49 dB @2.4G 0.76 dB @5G 0.79 dB @ 5.925~6.425GHz 0.79 dB @ 6.425~6.525GHz 0.80 dB @ 6.525~6.875GHz 0.80 dB @ 6.875~7.125GHz | PIFA | IPEX :20565-001R-13 | 180 | DIV |
| | | Aux | LA9RF475-CS-H (14008-05600100) | 2.81 dBi @ 2.4GHz 1.63 dBi @ 5GHz 1.03 dBi @ 5.925~6.425GHz 1.92 dBi @ 6.425~6.525GHz 2.46 dBi @ 6.525~6.875GHz 3.09 dBi @ 6.875~7.125GHz | 1.34 dB @2.4G 2.10 dB @5G 2.18 dB @ 5.925~6.425GHz 2.18 dB @ 6.425~6.525GHz 2.20 dB @ 6.525~6.875GHz 2.21 dB @ 6.875~7.125GHz | | | 545 | |
| 17 | INPAQ | Main | WA-P-LE-02-128 (14008-05590200) | 2.6 dBi @ 2.4GHz 4.16 dBi @ 5GHz 3.71dBi @ 5.925~6.425GHz 3.55 dBi @ 6.425~6.525GHz 3.95 dBi @ 6.525~6.875GHz 3.5 dBi @ 6.875~7.125GHz | 0.57 dB @2.4G 0.87 dB @5G 0.93 dB @ 5.925~6.425GHz 0.95 dB @ 6.425~6.525GHz 0.97 dB @ 6.525~6.875GHz 1 dB @ 6.875~7.125GHz | PIFA | IPEX MHF-4L | 205 | DIV |
| | | Aux | WA-P-LE-01-034 (14008-05590300) | 2.43 dBi @ 2.4GHz 3.18 dBi @ 5GHz 1.95 dBi @ 5.925~6.425GHz 1.63 dBi @ 6.425~6.525GHz 2.67 dBi @ 6.525~6.875GHz 3.1 dBi @ 6.875~7.125GHz | 1.98 dB @2.4G 2.92 dB @5G 3.24 dB @ 5.925~6.425GHz 3.32 dB @ 6.425~6.525GHz 3.41 dB @ 6.525~6.875GHz 3.53 dB @ 6.875~7.125GHz | | | 550 | |

| Antenna Set No | Brand | Main/Aux | Model | Peak gain with cable loss | Cable Loss (dB) | Antenna Type | Connector Type | Cable Length (mm) | Remark |
|----------------|--------------|----------|-----------------------------------|---|---|--------------|----------------|-------------------|--------|
| 18 | Luxshare-ICT | Main | LA9RF438-CS-H (14008-05590000) | 2.87 dBi @ 2.4GHz 4.37 dBi @ 5GHz 4.17 dBi @ 5.925~6.425GHz 3.82 dBi @6.425~6.525GHz 4.09 dBi @6.525~6.875GHz 3.76 dBi @6.875~7.125GHz | 0.55 dB @2.4G 0.86 dB @5G 0.88 dB @ 5.925~6.425GHz 0.91 dB @6.425~6.525GHz 0.91 dB @6.525~6.875GHz 0.92 dB @6.875~7.125GHz | PIFA | IPEX MHF-4L | 205 | DIV |
| | | Aux | LA9RF439-CS-H (14008-05590100) | 2.86 dBi @ 2.4GHz 3.33dBi @ 5GHz 2.23 dBi @ 5.925~6.425GHz 2.12 dBi @6.425~6.525GHz 3.08 dBi @6.525~6.875GHz 3.35 dBi @6.875~7.125GHz | 1.62 dB @2.4G 2.49 dB @5G 2.69 dB @ 5.925~6.425GHz 2.76 dB @6.425~6.525GHz 2.81 dB @6.525~6.875GHz 2.85 dB @6.875~7.125GHz | | | 550 | |
| 19 | INPAQ | Main | HQ20604864000 (WA-P-LE-02-071) | 2.49dBi @ 2.4GHz 3.3dBi @ 5GHz 2.78dBi @ 5.925~6.425GHz 1.03 dBi @6.425~6.525GHz 1.54 dBi @6.525~6.875GHz 1.28 dBi @6.875~7.125GHz | 0.6 dB @2.4G 0.89 dB @5G 0.98 dB @ 5.925~6.425GHz 1 dB @6.425~6.525GHz 1.02 dB @6.525~6.875GHz 1.05 dB @6.875~7.125GHz | PIFA | IPEX MHF-4L | 216 | DIV |
| | | Aux | HQ20604863000 (WA-P-LE-03-003) | 2.45 dBi @ 2.4GHz 2.99 dBi @ 5GHz 2.34 dBi @ 5.925~6.425GHz 1.93 dBi @6.425~6.525GHz 2.66 dBi @6.525~6.875GHz 2.87 dBi @6.875~7.125GHz | 1.06 dB @2.4G 1.58 dB @5G 1.77 dB @ 5.925~6.425GHz 1.81 dB @6.425~6.525GHz 1.87 dB @6.525~6.875GHz 1.74 dB @6.875~7.125GHz | | | 383 | |

| Antenna Set No | Brand | Main/Aux | Model | Peak gain with cable loss | Cable Loss (dB) | Antenna Type | Connector Type | Cable Length (mm) | Remark |
|----------------|----------------------|----------|---------------------------------|--|--|--------------|----------------|-------------------|--------|
| 20 | INNOWAVE Corporation | Main | F00168007110001 (HQ20604865000) | 2.88dBi @ 2.4GHz 3.93dBi @ 5GHz 2.82dBi @ 5.925~6.425GHz 3.69dBi @ 6.425~6.525GHz 4.53dBi @ 6.525~6.875GHz 3.42dBi @ 6.875~7.125GHz | 0.55 dB @2.4G 1.12 dB @5G 1.19 dB @ 5.925~6.425GHz 1.23 dB @ 6.425~6.525GHz 1.27 dB @ 6.525~6.875GHz 1.06 dB @ 6.875~7.125GHz | PIFA | IPEX MHF-4L | 216 | DIV |
| | | Aux | F00168007510002 (HQ20604862000) | 2.77 dBi @ 2.4GHz 3.2 dBi @ 5GHz 2.5 dBi @ 5.925~6.425GHz 2.94 dBi @ 6.425~6.525GHz 2.89 dBi @ 6.525~6.875GHz 2.97 dBi @ 6.875~7.125GHz | 1.08 dB @2.4G 1.75 dB @5G 1.91 dB @ 5.925~6.425GHz 2 dB @ 6.425~6.525GHz 2.05 dB @ 6.525~6.875GHz 2.1 dB @ 6.875~7.125GHz | | | 383 | |
| 21 | INPAQ | Main | WA-P-LE-02-113 | 2.33 dBi @ 2.4GHz 2.96 dBi @ 5GHz 4.23 dBi @ 5.925~6.425GHz 2.82 dBi @ 6.425~6.525GHz 3.63 dBi @ 6.525~6.875GHz 3.61 dBi @ 6.875~7.125GHz | 0.57 dB @2.4G 0.85 dB @5G 0.93 dB @ 5.925~6.425GHz 0.95 dB @ 6.425~6.525GHz 0.98 dB @ 6.525~6.875GHz 1.01 dB @ 6.875~7.125GHz | PIFA | I-PEX MHF-4L | 206 | DIV |
| | | Aux | WA-P-LE-03-010 | 2.06 dBi @ 2.4GHz 3.71 dBi @ 5GHz 3.09 dBi @ 5.925~6.425GHz 3.09 dBi @ 6.425~6.525GHz 2.61 dBi @ 6.525~6.875GHz 3.07 dBi @ 6.875~7.125GHz | 0.88 dB @2.4G 1.35 dB @5G 1.44 dB @ 5.925~6.425GHz 1.47 dB @ 6.425~6.525GHz 1.5 dB @ 6.525~6.875GHz 1.55 dB @ 6.875~7.125GHz | | | 317 | |

| Antenna Set No | Brand | Main/Aux | Model | Peak gain with cable loss | Cable Loss (dB) | Antenna Type | Connector Type | Cable Length (mm) | Remark |
|----------------|----------------------|----------|---------------------------------|--|---|--------------|----------------|-------------------|--------|
| 22 | INNOWAVE Corporation | Main | F00192307110001 (HQ2060508L000) | 1.46 dBi @ 2.4GHz 2.84 dBi @ 5GHz 1.72 dBi @ 5.925~6.425GHz 2.2 dBi @6.425~6.525GHz 2.2 dBi @6.525~6.875GHz 3.29 dBi @6.875~7.125GHz | 0.52 dB @2.4G 0.96 dB @5G 1.03 dB @ 5.925~6.425GHz 1.08 dB @6.425~6.525GHz 1.1 dB @6.525~6.875GHz 1.15 dB @6.875~7.125GHz | PIFA | IPEX MHF-4L | 206 | DIV |
| | | Aux | F00192307510002 (HQ2060508K000) | 0.9 dBi @ 2.4GHz 1.67 dBi @ 5GHz 1.98 dBi @ 5.925~6.425GHz 1.98 dBi @6.425~6.525GHz 2.55 dBi @6.525~6.875GHz 3.02 dBi @6.875~7.125GHz | 0.79 dB @2.4G 1.49 dB @5G 1.59 dB @ 5.925~6.425GHz 1.66 dB @6.425~6.525GHz 1.67 dB @6.525~6.875GHz 1.77 dB @6.875~7.125GHz | | | 317 | |

| Antenna Set No | Brand | Main/Aux | Model | Peak gain with cable loss | Cable Loss (dB) | Antenna Type | Connector Type | Cable Length (mm) | Remark |
|----------------|-------------------|----------|---|--|--|--------------|----------------|-------------------|--------|
| 23 | INPAQ Corporation | Main | WA-P-LE-02-083 (HQ20604916000) (Platform type:K6502V) | 2.91 dBi @ 2.4GHz 3.95 dBi @ 5GHz 4.25 dBi @ 5.925~6.425GHz 3.76 dBi @ 6.425~6.525GHz 4.26 dBi @ 6.525~6.875GHz 3.28 dBi @ 6.875~7.125GHz | 0.53 dB @2.4G 0.82 dB @5G 0.92 dB @ 5.925~6.425GHz 0.92 dB @ 6.425~6.525GHz 0.96 dB @ 6.525~6.875GHz 1.01 dB @ 6.875~7.125GHz | PIFA | IPEX MHF-4L | 190 | DIV |
| | | Aux | WA-P-LE-03-008 (HQ20604917000) (Platform type:K6502V) | 2.94 dBi @ 2.4GHz 4.46 dBi @ 5GHz 4.29 dBi @ 5.925~6.425GHz 4.06 dBi @ 6.425~6.525GHz 4.32 dBi @ 6.525~6.875GHz 3.09 dBi @ 6.875~7.125GHz | 1.01 dB @2.4G 1.56 dB @5G 1.75 dB @ 5.925~6.425GHz 1.75 dB @ 6.425~6.525GHz 1.82 dB @ 6.525~6.875GHz 1.93 dB @ 6.875~7.125GHz | | | 362 | |
| | INPAQ Corporation | Main | WA-P-LE-02-083 (HQ20604916000) (Platform type:K6602V) | 2.92 dBi @ 2.4GHz 4.46 dBi @ 5GHz 4.1 dBi @ 5.925~6.425GHz 4.2 dBi @ 6.425~6.525GHz 4.13 dBi @ 6.525~6.875GHz 3.68 dBi @ 6.875~7.125GHz | 0.53 dB @2.4G 0.82 dB @5G 0.92 dB @ 5.925~6.425GHz 0.92 dB @ 6.425~6.525GHz 0.96 dB @ 6.525~6.875GHz 1.01 dB @ 6.875~7.125GHz | PIFA | IPEX MHF-4L | 190 | DIV |
| | | Aux | WA-P-LE-03-008 (HQ20604917000) (Platform type:K6602V) | 2.62 dBi @ 2.4GHz 3.72 dBi @ 5GHz 4.44 dBi @ 5.925~6.425GHz 4.02 dBi @ 6.425~6.525GHz 4.5 dBi @ 6.525~6.875GHz 3.98 dBi @ 6.875~7.125GHz | 1.01 dB @2.4G 1.56 dB @5G 1.75 dB @ 5.925~6.425GHz 1.75 dB @ 6.425~6.525GHz 1.82 dB @ 6.525~6.875GHz 1.93 dB @ 6.875~7.125GHz | | | 362 | |

| Antenna Set No | Brand | Main/Aux | Model | Peak gain with cable loss | Cable Loss (dB) | Antenna Type | Connector Type | Cable Length (mm) | Remark |
|----------------|----------------------|----------|--|--|--|--------------|----------------|-------------------|--------|
| 24 | INNOWAVE Corporation | Main | F00175607110001 (HQ20604919000) (Platform type:K6502V) | 2.85 dBi @ 2.4GHz 3.43 dBi @ 5GHz 4.03 dBi @ 5.925~6.425GHz 3.3 dBi @ 6.425~6.525GHz 3.58 dBi @ 6.525~6.875GHz 3.62 dBi @ 6.875~7.125GHz | 0.53 dB @2.4G 1.06dB @5G 1.12 dB @ 5.925~6.425GHz 1.14 dB @ 6.425~6.525GHz 1.21 dB @ 6.525~6.875GHz 1.23 dB @ 6.875~7.125GHz | PIFA | IPEX-20565 | 216 | DIV |
| | | Aux | F00175607510002 (HQ20604918000) (Platform type:K6502V) | 2.82 dBi @ 2.4GHz 4.25 dBi @ 5GHz 3.89 dBi @ 5.925~6.425GHz 3.96 dBi @ 6.425~6.525GHz 4.18 dBi @ 6.525~6.875GHz 3.02 dBi @ 6.875~7.125GHz | 1.02 dB @2.4G 1.72 dB @5G 1.88 dB @ 5.925~6.425GHz 1.97 dB @ 6.425~6.525GHz 2.01 dB @ 6.525~6.875GHz 2.05 dB @ 6.875~7.125GHz | | | 383 | |
| | INNOWAVE Corporation | Main | F00175607110001 (HQ20604919000) (Platform type:K6602V) | 2.9 dBi @ 2.4GHz 3.47 dBi @ 5GHz 3.78dBi @ 5.925~6.425GHz 3.09 dBi @ 6.425~6.525GHz 3.39dBi @ 6.525~6.875GHz 3.36 dBi @ 6.875~7.125GHz | 0.53 dB @2.4G 1.06 dB @5G 1.12 dB @ 5.925~6.425GHz 1.14 dB @ 6.425~6.525GHz 1.21 dB @ 6.525~6.875GHz 1.23 dB @ 6.875~7.125GHz | PIFA | IPEX-20565 | 216 | DIV |
| | | Aux | F00175607510002 (HQ20604918000) (Platform type:K6602V) | 2.58 dBi @ 2.4GHz 3.03 dBi @ 5GHz 4.04 dBi @ 5.925~6.425GHz 3.97 dBi @ 6.425~6.525GHz 4.01dBi @ 6.525~6.875GHz 3.67 dBi @ 6.875~7.125GHz | 1.02 dB @2.4G 1.72 dB @5G 1.88 dB @ 5.925~6.425GHz 1.97 dB @ 6.425~6.525GHz 2.01 dB @ 6.525~6.875GHz 2.05 dB @ 6.875~7.125GHz | | | 383 | |

3. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

4. Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

Appendix - Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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