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|-------|-----|----------------------------------------------------------------------|---------|------|---------|
| 10492 | AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.41 | ± 9.6 % |
| 10493 | AAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.55 | ± 9.6 % |
| 10494 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.74 | ± 9.6 % |
| 10495 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.37 | ± 9.6 % |
| 10496 | AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.54 | ± 9.6 % |
| 10497 | AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.67 | ± 9.6 % |
| 10498 | AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.40 | ± 9.6 % |
| 10499 | AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.68 | ± 9.6 % |
| 10500 | AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.67 | ± 9.6 % |
| 10501 | AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.44 | ± 9.6 % |
| 10502 | AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.52 | ± 9.6 % |
| 10503 | AAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.72 | ± 9.6 % |
| 10504 | AAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.31 | ± 9.6 % |
| 10505 | AAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.54 | ± 9.6 % |
| 10506 | AAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.74 | ± 9.6 % |
| 10507 | AAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.36 | ± 9.6 % |
| 10508 | AAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.55 | ± 9.6 % |
| 10509 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.99 | ± 9.6 % |
| 10510 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.49 | ± 9.6 % |
| 10511 | AAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.51 | ± 9.6 % |
| 10512 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.74 | ± 9.6 % |
| 10513 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.42 | ± 9.6 % |
| 10514 | AAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.45 | ± 9.6 % |
| 10515 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) | WLAN | 1.58 | ± 9.6 % |
| 10516 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) | WLAN | 1.57 | ± 9.6 % |
| 10517 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) | WLAN | 1.58 | ± 9.6 % |
| 10518 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) | WLAN | 8.23 | ± 9.6 % |
| 10519 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) | WLAN | 8.39 | ± 9.6 % |
| 10520 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) | WLAN | 8.12 | ± 9.6 % |
| 10521 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) | WLAN | 7.97 | ± 9.6 % |
| 10522 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) | WLAN | 8.45 | ± 9.6 % |
| 10523 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | WLAN | 8.08 | ± 9.6 % |
| 10524 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | WLAN | 8.27 | ± 9.6 % |
| 10525 | AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) | WLAN | 8.36 | ± 9.6 % |
| 10526 | AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) | WLAN | 8.42 | ± 9.6 % |
| 10527 | AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) | WLAN | 8.21 | ± 9.6 % |
| 10528 | AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) | WLAN | 8.36 | ± 9.6 % |
| 10529 | AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) | WLAN | 8.36 | ± 9.6 % |
| 10531 | AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle) | WLAN | 8.43 | ± 9.6 % |
| 10532 | AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle) | WLAN | 8.29 | ± 9.6 % |
| 10533 | AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle) | WLAN | 8.38 | ± 9.6 % |
| 10534 | AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle) | WLAN | 8.45 | ± 9.6 % |

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|-------|-----|-----------------------------------------------------------------|------|------|---------|
| 10535 | AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle) | WLAN | 8.45 | ± 9.6 % |
| 10536 | AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle) | WLAN | 8.32 | ± 9.6 % |
| 10537 | AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle) | WLAN | 8.44 | ± 9.6 % |
| 10538 | AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle) | WLAN | 8.54 | ± 9.6 % |
| 10540 | AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle) | WLAN | 8.39 | ± 9.6 % |
| 10541 | AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle) | WLAN | 8.46 | ± 9.6 % |
| 10542 | AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle) | WLAN | 8.65 | ± 9.6 % |
| 10543 | AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle) | WLAN | 8.65 | ± 9.6 % |
| 10544 | AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle) | WLAN | 8.47 | ± 9.6 % |
| 10545 | AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle) | WLAN | 8.55 | ± 9.6 % |
| 10546 | AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle) | WLAN | 8.35 | ± 9.6 % |
| 10547 | AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle) | WLAN | 8.49 | ± 9.6 % |
| 10548 | AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle) | WLAN | 8.37 | ± 9.6 % |
| 10550 | AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle) | WLAN | 8.38 | ± 9.6 % |
| 10551 | AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle) | WLAN | 8.50 | ± 9.6 % |
| 10552 | AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle) | WLAN | 8.42 | ± 9.6 % |
| 10553 | AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle) | WLAN | 8.45 | ± 9.6 % |
| 10554 | AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | WLAN | 8.48 | ± 9.6 % |
| 10555 | AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | WLAN | 8.47 | ± 9.6 % |
| 10556 | AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | WLAN | 8.50 | ± 9.6 % |
| 10557 | AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | WLAN | 8.52 | ± 9.6 % |
| 10558 | AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle) | WLAN | 8.61 | ± 9.6 % |
| 10560 | AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle) | WLAN | 8.73 | ± 9.6 % |
| 10561 | AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle) | WLAN | 8.56 | ± 9.6 % |
| 10562 | AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle) | WLAN | 8.69 | ± 9.6 % |
| 10563 | AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle) | WLAN | 8.77 | ± 9.6 % |
| 10564 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle) | WLAN | 8.25 | ± 9.6 % |
| 10565 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | WLAN | 8.45 | ± 9.6 % |
| 10566 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | WLAN | 8.13 | ± 9.6 % |
| 10567 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | WLAN | 8.00 | ± 9.6 % |
| 10568 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | WLAN | 8.37 | ± 9.6 % |
| 10569 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | WLAN | 8.10 | ± 9.6 % |
| 10570 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | WLAN | 8.30 | ± 9.6 % |
| 10571 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) | WLAN | 1.99 | ± 9.6 % |
| 10572 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) | WLAN | 1.99 | ± 9.6 % |
| 10573 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) | WLAN | 1.98 | ± 9.6 % |
| 10574 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) | WLAN | 1.98 | ± 9.6 % |
| 10575 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) | WLAN | 8.59 | ± 9.6 % |
| 10576 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) | WLAN | 8.60 | ± 9.6 % |
| 10577 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | WLAN | 8.70 | ± 9.6 % |
| 10578 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | WLAN | 8.49 | ± 9.6 % |
| 10579 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | WLAN | 8.36 | ± 9.6 % |
| 10580 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | WLAN | 8.76 | ± 9.6 % |
| 10581 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | WLAN | 8.35 | ± 9.6 % |
| 10582 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | WLAN | 8.67 | ± 9.6 % |
| 10583 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle) | WLAN | 8.59 | ± 9.6 % |
| 10584 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle) | WLAN | 8.60 | ± 9.6 % |
| 10585 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle) | WLAN | 8.70 | ± 9.6 % |
| 10586 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle) | WLAN | 8.49 | ± 9.6 % |
| 10587 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle) | WLAN | 8.36 | ± 9.6 % |

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|-------|-----|------------------------------------------------------------|----------|-------|---------|
| 10588 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle) | WLAN | 8.76 | ± 9.6 % |
| 10589 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle) | WLAN | 8.35 | ± 9.6 % |
| 10590 | AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle) | WLAN | 8.67 | ± 9.6 % |
| 10591 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | WLAN | 8.63 | ± 9.6 % |
| 10592 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | WLAN | 8.79 | ± 9.6 % |
| 10593 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | WLAN | 8.64 | ± 9.6 % |
| 10594 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | WLAN | 8.74 | ± 9.6 % |
| 10595 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | WLAN | 8.74 | ± 9.6 % |
| 10596 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | WLAN | 8.71 | ± 9.6 % |
| 10597 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | WLAN | 8.72 | ± 9.6 % |
| 10598 | AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | WLAN | 8.50 | ± 9.6 % |
| 10599 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | WLAN | 8.79 | ± 9.6 % |
| 10600 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | WLAN | 8.88 | ± 9.6 % |
| 10601 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | WLAN | 8.82 | ± 9.6 % |
| 10602 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | WLAN | 8.94 | ± 9.6 % |
| 10603 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | WLAN | 9.03 | ± 9.6 % |
| 10604 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | WLAN | 8.76 | ± 9.6 % |
| 10605 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | WLAN | 8.97 | ± 9.6 % |
| 10606 | AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | WLAN | 8.82 | ± 9.6 % |
| 10607 | AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | WLAN | 8.64 | ± 9.6 % |
| 10608 | AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | WLAN | 8.77 | ± 9.6 % |
| 10609 | AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | WLAN | 8.57 | ± 9.6 % |
| 10610 | AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | WLAN | 8.78 | ± 9.6 % |
| 10611 | AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | WLAN | 8.70 | ± 9.6 % |
| 10612 | AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | WLAN | 8.77 | ± 9.6 % |
| 10613 | AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | WLAN | 8.94 | ± 9.6 % |
| 10614 | AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | WLAN | 8.59 | ± 9.6 % |
| 10615 | AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | WLAN | 8.82 | ± 9.6 % |
| 10616 | AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | WLAN | 8.82 | ± 9.6 % |
| 10617 | AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | WLAN | 8.81 | ± 9.6 % |
| 10618 | AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | WLAN | 8.58 | ± 9.6 % |
| 10619 | AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | WLAN | 8.86 | ± 9.6 % |
| 10620 | AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | WLAN | 8.87 | ± 9.6 % |
| 10621 | AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | WLAN | 8.77 | ± 9.6 % |
| 10622 | AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | WLAN | 8.68 | ± 9.6 % |
| 10623 | AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle) | WLAN | 8.82 | ± 9.6 % |
| 10624 | AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle) | WLAN | 8.96 | ± 9.6 % |
| 10625 | AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle) | WLAN | 8.96 | ± 9.6 % |
| 10626 | AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle) | WLAN | 8.83 | ± 9.6 % |
| 10627 | AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle) | WLAN | 8.88 | ± 9.6 % |
| 10628 | AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle) | WLAN | 8.71 | ± 9.6 % |
| 10629 | AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle) | WLAN | 8.85 | ± 9.6 % |
| 10630 | AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle) | WLAN | 8.72 | ± 9.6 % |
| 10631 | AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle) | WLAN | 8.81 | ± 9.6 % |
| 10632 | AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle) | WLAN | 8.74 | ± 9.6 % |
| 10633 | AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle) | WLAN | 8.83 | ± 9.6 % |
| 10634 | AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle) | WLAN | 8.80 | ± 9.6 % |
| 10635 | AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle) | WLAN | 8.81 | ± 9.6 % |
| 10636 | AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | WLAN | 8.83 | ± 9.6 % |
| 10637 | AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | WLAN | 8.79 | ± 9.6 % |
| 10638 | AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | WLAN | 8.86 | ± 9.6 % |
| 10639 | AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle) | WLAN | 8.85 | ± 9.6 % |
| 10640 | AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle) | WLAN | 8.98 | ± 9.6 % |
| 10641 | AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle) | WLAN | 9.06 | ± 9.6 % |
| 10642 | AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle) | WLAN | 9.06 | ± 9.6 % |
| 10643 | AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle) | WLAN | 8.89 | ± 9.6 % |
| 10644 | AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle) | WLAN | 9.05 | ± 9.6 % |
| 10645 | AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle) | WLAN | 9.11 | ± 9.6 % |
| 10646 | AAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7) | LTE-TDD | 11.96 | ± 9.6 % |
| 10647 | AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | LTE-TDD | 11.96 | ± 9.6 % |
| 10648 | AAA | CDMA2000 (1x Advanced) | CDMA2000 | 3.45 | ± 9.6 % |
| 10652 | AAD | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 6.91 | ± 9.6 % |
| 10653 | AAD | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 7.42 | ± 9.6 % |
| 10654 | AAD | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 6.96 | ± 9.6 % |

| | | | | | |
|-------|-----|-------------------------------------------------|-----------|-------|---------|
| 10655 | AAE | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 7.21 | ± 9.6 % |
| 10658 | AAA | Pulse Waveform (200Hz, 10%) | Test | 10.00 | ± 9.6 % |
| 10659 | AAA | Pulse Waveform (200Hz, 20%) | Test | 6.99 | ± 9.6 % |
| 10660 | AAA | Pulse Waveform (200Hz, 40%) | Test | 3.98 | ± 9.6 % |
| 10661 | AAA | Pulse Waveform (200Hz, 60%) | Test | 2.22 | ± 9.6 % |
| 10662 | AAA | Pulse Waveform (200Hz, 80%) | Test | 0.97 | ± 9.6 % |
| 10670 | AAA | Bluetooth Low Energy | Bluetooth | 2.19 | ± 9.6 % |

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

APPENDIX D: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity ϵ' can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\epsilon_r\epsilon_0}{[\ln(b/a)]^2} \int_a^b \int_a^b \int_0^\pi \cos\phi' \frac{\exp[-j\omega r(\mu_0\epsilon_r'\epsilon_0)^{1/2}]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + \rho'^2 - 2\rho\rho'\cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

3 Composition / Information on ingredients

3.2 Mixtures

Description: Aqueous solution with surfactants and inhibitors

Declarable, or hazardous components:

| | | |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------|
| CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28-0000 | Ethenediol STOT RE 2, H373; Acute Tox. 4, H302 | >1.0-4.9% |
| CAS: 68608-26-4 EINECS: 271-781-5 Reg.nr.: 01-2119527859-22-0000 | Sodium petroleum sulfonate Eye Irrit. 2, H319 | < 2.9% |
| CAS: 107-41-5 EINECS: 203-489-0 Reg.nr.: 01-2119539582-35-0000 | Hexylene Glycol / 2-Methyl-pentane-2,4-diol Skin Irrit. 2, H315; Eye Irrit. 2, H319 | < 2.9% |
| CAS: 68920-66-1 NLP: 500-236-9 Reg.nr.: 01-2119489407-26-0000 | Alkoxylated alcohol, > C₁₆ Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319 | < 2.0% |

Additional information:



For the wording of the listed risk phrases refer to section 16.

Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential.

The specific chemical identity and/or exact percentage concentration of proprietary components is withheld as a trade secret.

Figure D-1

Note: Liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

| | | | | |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFX320TA |  PCTEST Engineering Laboratory, Inc. | SAR EVALUATION REPORT |  | Approved by: Quality Manager |
| Test Dates: 06/12/19 - 07/07/19 | DUT Type: Portable Handset | | | APPENDIX D: Page 1 of 3 |

Measurement Certificate / Material Test

| | |
|--------------|------------------------------------------------|
| Item Name | Body Tissue Simulating Liquid (MBBL600-6000V6) |
| Product No. | SL AAM U16 BC (Batch: 181029-1) |
| Manufacturer | SPEAG |

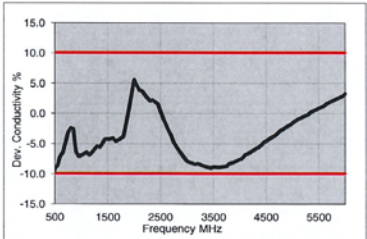
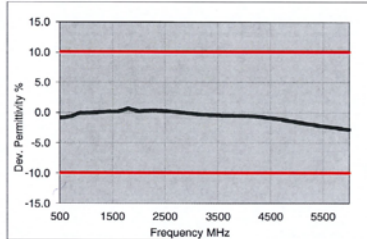
Measurement Method
 TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters
 Target parameters as defined in the KDB 865664 compliance standard.

Test Condition
 Ambient Condition 22°C ; 30% humidity
 TSL Temperature 22°C
 Test Date 30-Oct-18
 Operator CL



Additional Information
 TSL Density
 TSL Heat-capacity

| f [MHz] | Measured | | | Target | | Diff.to Target [%] | |
|---------|----------|------|-------|--------|-------|--------------------|---------|
| | e' | e'' | sigma | eps | sigma | Δ-eps | Δ-sigma |
| 800 | 55.1 | 21.3 | 0.95 | 55.3 | 0.97 | -0.4 | -2.1 |
| 825 | 55.1 | 20.8 | 0.98 | 55.2 | 0.98 | -0.3 | -2.0 |
| 835 | 55.1 | 20.6 | 0.96 | 55.1 | 0.99 | 0.0 | -2.5 |
| 850 | 55.1 | 20.4 | 0.96 | 55.2 | 0.99 | -0.1 | -3.0 |
| 900 | 55.0 | 19.7 | 0.98 | 55.0 | 1.05 | 0.0 | -6.7 |
| 1400 | 54.2 | 15.6 | 1.22 | 54.1 | 1.28 | 0.2 | -4.7 |
| 1450 | 54.1 | 15.4 | 1.24 | 54.0 | 1.30 | 0.2 | -4.6 |
| 1500 | 54.1 | 15.3 | 1.27 | 53.9 | 1.33 | 0.3 | -4.5 |
| 1550 | 54.0 | 15.1 | 1.30 | 53.9 | 1.36 | 0.2 | -4.4 |
| 1600 | 53.9 | 15.0 | 1.33 | 53.8 | 1.39 | 0.2 | -4.3 |
| 1625 | 53.9 | 14.9 | 1.35 | 53.8 | 1.41 | 0.3 | -4.3 |
| 1640 | 53.9 | 14.9 | 1.36 | 53.7 | 1.42 | 0.3 | -4.2 |
| 1650 | 53.8 | 14.9 | 1.36 | 53.7 | 1.43 | 0.2 | -4.9 |
| 1700 | 53.8 | 14.8 | 1.40 | 53.6 | 1.46 | 0.4 | -4.1 |
| 1750 | 53.7 | 14.7 | 1.43 | 53.4 | 1.49 | 0.5 | -4.0 |
| 1800 | 53.7 | 14.6 | 1.46 | 53.3 | 1.52 | 0.8 | -3.9 |
| 1810 | 53.7 | 14.6 | 1.47 | 53.3 | 1.52 | 0.8 | -3.3 |
| 1825 | 53.7 | 14.6 | 1.48 | 53.3 | 1.52 | 0.8 | -2.6 |
| 1850 | 53.6 | 14.5 | 1.50 | 53.3 | 1.52 | 0.6 | -1.3 |
| 1900 | 53.5 | 14.5 | 1.53 | 53.3 | 1.52 | 0.4 | 0.7 |
| 1950 | 53.5 | 14.5 | 1.57 | 53.3 | 1.52 | 0.4 | 3.3 |
| 2000 | 53.4 | 14.4 | 1.60 | 53.3 | 1.52 | 0.2 | 5.3 |
| 2050 | 53.4 | 14.4 | 1.64 | 53.2 | 1.57 | 0.3 | 4.5 |
| 2100 | 53.3 | 14.4 | 1.68 | 53.2 | 1.62 | 0.2 | 3.7 |
| 2150 | 53.3 | 14.4 | 1.72 | 53.1 | 1.68 | 0.4 | 3.6 |
| 2200 | 53.2 | 14.4 | 1.76 | 53.0 | 1.71 | 0.3 | 2.9 |
| 2250 | 53.1 | 14.4 | 1.81 | 53.0 | 1.76 | 0.2 | 2.8 |
| 2300 | 53.1 | 14.4 | 1.85 | 52.9 | 1.81 | 0.4 | 2.2 |
| 2350 | 53.0 | 14.5 | 1.89 | 52.8 | 1.85 | 0.3 | 2.2 |
| 2400 | 52.9 | 14.5 | 1.94 | 52.8 | 1.90 | 0.2 | 2.1 |
| 2450 | 52.9 | 14.5 | 1.98 | 52.7 | 1.95 | 0.4 | 1.5 |
| 2500 | 52.8 | 14.6 | 2.03 | 52.6 | 2.02 | 0.3 | 0.5 |
| 2550 | 52.7 | 14.6 | 2.07 | 52.6 | 2.09 | 0.2 | -1.0 |
| 2600 | 52.6 | 14.7 | 2.12 | 52.5 | 2.16 | 0.2 | -1.9 |



| | | | | | | | |
|------|------|------|------|------|------|------|------|
| 3500 | 51.1 | 15.5 | 3.02 | 51.3 | 3.31 | -0.4 | -8.8 |
| 3700 | 50.8 | 15.7 | 3.24 | 51.1 | 3.55 | -0.5 | -8.8 |
| 5200 | 48.1 | 18.2 | 5.27 | 49.0 | 5.30 | -1.8 | -0.6 |
| 5250 | 48.0 | 18.3 | 5.34 | 49.0 | 5.36 | -1.9 | -0.4 |
| 5300 | 47.9 | 18.4 | 5.41 | 48.9 | 5.42 | -2.0 | -0.2 |
| 5500 | 47.5 | 18.6 | 5.70 | 48.6 | 5.65 | -2.2 | 0.8 |
| 5600 | 47.3 | 18.8 | 5.84 | 48.5 | 5.77 | -2.3 | 1.3 |
| 5700 | 47.1 | 18.9 | 5.99 | 48.3 | 5.88 | -2.5 | 1.8 |
| 5800 | 47.0 | 19.0 | 6.14 | 48.2 | 6.00 | -2.6 | 2.3 |

Figure D-2
750 – 5800 MHz Body Tissue Equivalent Matter

| | | | | |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFX320TA |  | SAR EVALUATION REPORT |  | Approved by: Quality Manager |
| Test Dates: 06/12/19 - 07/07/19 | DUT Type: Portable Handset | | | APPENDIX D: Page 2 of 3 |

Measurement Certificate / Material Test

| | |
|--------------|------------------------------------------------|
| Item Name | Head Tissue Simulating Liquid (HBBL600-1000V6) |
| Product No. | SL AAH U16 BC (Batch: 181031-2) |
| Manufacturer | SPEAG |

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

Test Condition

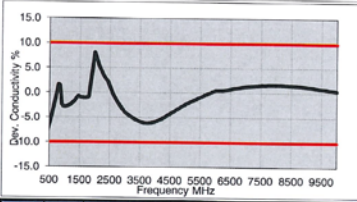
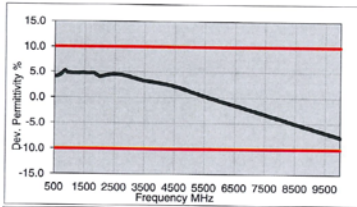
Ambient Condition 22°C ; 30% humidity
 TSL Temperature 22°C
 Test Date 31-Oct-18
 Operator CL

Additional Information

TSL Density
 TSL Heat-capacity

Results

| f [MHz] | Measured | | | Target | | Diff.to Target [%] | |
|---------|----------|------|-------|--------|-------|--------------------|---------|
| | e' | e'' | sigma | eps | sigma | Δ-eps | Δ-sigma |
| 800 | 43.8 | 20.5 | 0.91 | 41.7 | 0.90 | 5.1 | 1.4 |
| 825 | 43.8 | 20.1 | 0.92 | 41.6 | 0.91 | 5.3 | 1.5 |
| 835 | 43.8 | 19.9 | 0.93 | 41.5 | 0.91 | 5.4 | 2.0 |
| 850 | 43.7 | 19.7 | 0.93 | 41.5 | 0.92 | 5.3 | 1.5 |
| 900 | 43.5 | 18.9 | 0.95 | 41.5 | 0.97 | 4.8 | -2.1 |
| 1400 | 42.5 | 15.0 | 1.17 | 40.6 | 1.18 | 4.7 | -0.8 |
| 1450 | 42.5 | 14.8 | 1.19 | 40.5 | 1.20 | 4.9 | -0.8 |
| 1600 | 42.2 | 14.3 | 1.27 | 40.3 | 1.28 | 4.7 | -1.1 |
| 1625 | 42.2 | 14.2 | 1.29 | 40.3 | 1.30 | 4.8 | -0.7 |
| 1640 | 42.2 | 14.2 | 1.30 | 40.3 | 1.31 | 4.8 | -0.5 |
| 1650 | 42.1 | 14.2 | 1.30 | 40.2 | 1.31 | 4.6 | -1.0 |
| 1700 | 42.1 | 14.0 | 1.33 | 40.2 | 1.34 | 4.8 | -0.9 |
| 1750 | 42.0 | 13.9 | 1.36 | 40.1 | 1.37 | 4.8 | -0.8 |
| 1800 | 41.9 | 13.9 | 1.39 | 40.0 | 1.40 | 4.7 | -0.7 |
| 1810 | 41.9 | 13.8 | 1.40 | 40.0 | 1.40 | 4.7 | 0.0 |
| 1825 | 41.9 | 13.8 | 1.41 | 40.0 | 1.40 | 4.7 | 0.7 |
| 1850 | 41.8 | 13.8 | 1.42 | 40.0 | 1.40 | 4.5 | 1.4 |
| 1900 | 41.8 | 13.7 | 1.45 | 40.0 | 1.40 | 4.5 | 3.6 |
| 1950 | 41.7 | 13.7 | 1.48 | 40.0 | 1.40 | 4.3 | 5.7 |
| 2000 | 41.6 | 13.6 | 1.51 | 40.0 | 1.40 | 4.0 | 7.9 |
| 2050 | 41.6 | 13.6 | 1.55 | 39.9 | 1.44 | 4.2 | 7.3 |
| 2100 | 41.5 | 13.5 | 1.58 | 39.8 | 1.49 | 4.2 | 6.1 |
| 2150 | 41.4 | 13.5 | 1.62 | 39.7 | 1.53 | 4.2 | 5.7 |
| 2200 | 41.4 | 13.5 | 1.65 | 39.6 | 1.58 | 4.4 | 4.6 |
| 2250 | 41.3 | 13.5 | 1.69 | 39.6 | 1.62 | 4.4 | 4.2 |
| 2300 | 41.2 | 13.5 | 1.72 | 39.5 | 1.67 | 4.4 | 3.2 |
| 2350 | 41.1 | 13.5 | 1.76 | 39.4 | 1.71 | 4.4 | 2.9 |
| 2400 | 41.1 | 13.5 | 1.80 | 39.3 | 1.76 | 4.6 | 2.5 |
| 2450 | 41.0 | 13.5 | 1.84 | 39.2 | 1.80 | 4.6 | 2.2 |
| 2500 | 40.9 | 13.5 | 1.88 | 39.1 | 1.85 | 4.5 | 1.4 |
| 2550 | 40.8 | 13.5 | 1.92 | 39.1 | 1.91 | 4.4 | 0.6 |
| 2600 | 40.8 | 13.6 | 1.96 | 39.0 | 1.96 | 4.0 | -0.2 |
| 3500 | 39.2 | 14.1 | 2.74 | 37.9 | 2.91 | 3.3 | -5.8 |
| 3700 | 38.9 | 14.2 | 2.93 | 37.7 | 3.12 | 3.1 | -6.1 |





| | | | | | | | |
|-------|------|------|-------|------|-------|------|------|
| 5200 | 36.3 | 15.8 | 4.57 | 36.0 | 4.66 | 0.9 | -1.7 |
| 5250 | 36.2 | 15.9 | 4.63 | 35.9 | 4.71 | 0.8 | -1.6 |
| 5300 | 36.1 | 15.9 | 4.69 | 35.9 | 4.76 | 0.7 | -1.4 |
| 5500 | 35.8 | 16.1 | 4.92 | 35.6 | 4.96 | 0.3 | -0.9 |
| 5600 | 35.6 | 16.2 | 5.04 | 35.5 | 5.07 | 0.1 | -0.6 |
| 5700 | 35.4 | 16.2 | 5.15 | 35.4 | 5.17 | 0.0 | -0.3 |
| 5800 | 35.2 | 16.3 | 5.27 | 35.3 | 5.27 | -0.2 | 0.0 |
| 6000 | 34.9 | 16.5 | 5.50 | 35.1 | 5.48 | -0.6 | 0.5 |
| 6500 | 34.0 | 16.9 | 6.12 | 34.5 | 6.07 | -1.4 | 0.9 |
| 7000 | 33.1 | 17.3 | 6.74 | 33.9 | 6.65 | -2.3 | 1.3 |
| 7500 | 32.2 | 17.6 | 7.36 | 33.3 | 7.24 | -3.2 | 1.6 |
| 8000 | 31.4 | 17.9 | 7.97 | 32.7 | 7.84 | -4.1 | 1.7 |
| 8500 | 30.5 | 18.2 | 8.59 | 32.1 | 8.45 | -5.0 | 1.6 |
| 9000 | 29.7 | 18.4 | 9.20 | 31.5 | 9.08 | -5.9 | 1.3 |
| 9500 | 28.9 | 18.5 | 9.80 | 31.0 | 9.71 | -6.8 | 0.9 |
| 10000 | 28.1 | 18.7 | 10.40 | 30.4 | 10.36 | -7.6 | 0.4 |

TSL Dielectric Parameters

1

Figure D-3
750 – 5800 MHz Head Tissue Equivalent Matter

| | | | | |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFX320TA |  | SAR EVALUATION REPORT |  | Approved by: Quality Manager |
| Test Dates: 06/12/19 - 07/07/19 | DUT Type: Portable Handset | | | APPENDIX D: Page 3 of 3 |

APPENDIX E: SAR SYSTEM VALIDATION



Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

Table E-1
SAR System Validation Summary – 1g

| SAR System | Freq. (MHz) | Date | Probe SN | Probe Cal Point | | Cond. (σ) | Perm. (ϵ_r) | CW VALIDATION | | | MOD. VALIDATION | | |
|------------|-------------|------------|----------|-----------------|------|--------------------|------------------------|---------------|-----------------|----------------|-----------------|-------------|------|
| | | | | | | | | SENSITIVITY | PROBE LINEARITY | PROBE ISOTROPY | MOD. TYPE | DUTY FACTOR | PAR |
| I | 750 | 6/4/2019 | 7357 | 750 | Head | 0.894 | 42.979 | PASS | PASS | PASS | N/A | N/A | N/A |
| H | 750 | 6/24/2019 | 7406 | 750 | Head | 0.885 | 42.362 | PASS | PASS | PASS | N/A | N/A | N/A |
| H | 835 | 6/6/2019 | 7406 | 835 | Head | 0.93 | 43.8 | PASS | PASS | PASS | GMSK | PASS | N/A |
| H | 1750 | 6/19/2019 | 7406 | 1750 | head | 1.362 | 39.781 | PASS | PASS | PASS | N/A | N/A | N/A |
| G | 1900 | 8/9/2018 | 7410 | 1900 | Head | 1.429 | 38.607 | PASS | PASS | PASS | GMSK | PASS | N/A |
| E | 2450 | 2/5/2019 | 3589 | 2450 | Head | 1.825 | 39.836 | PASS | PASS | PASS | OFDM/TDD | PASS | PASS |
| E | 2600 | 2/7/2019 | 3589 | 2600 | Head | 1.964 | 40.46 | PASS | PASS | PASS | TDD | PASS | N/A |
| H | 5250 | 6/10/2019 | 7406 | 5250 | Head | 4.63 | 36.2 | PASS | PASS | PASS | OFDM | N/A | PASS |
| H | 5600 | 6/10/2019 | 7406 | 5600 | Head | 4.63 | 36.2 | PASS | PASS | PASS | OFDM | N/A | PASS |
| H | 5750 | 6/10/2019 | 7406 | 5750 | Head | 5.15 | 33.901 | PASS | PASS | PASS | OFDM | N/A | PASS |
| I | 750 | 5/16/2019 | 7357 | 750 | Body | 0.937 | 56.547 | PASS | PASS | PASS | N/A | N/A | N/A |
| G | 835 | 8/29/2018 | 7410 | 835 | Body | 0.956 | 54.177 | PASS | PASS | PASS | GMSK | PASS | N/A |
| I | 1750 | 5/21/2019 | 7357 | 1750 | Body | 1.442 | 55.384 | PASS | PASS | PASS | N/A | N/A | N/A |
| J | 1900 | 2/8/2019 | 7488 | 1900 | Body | 1.571 | 52.538 | PASS | PASS | PASS | GMSK | PASS | N/A |
| L | 2450 | 11/6/2018 | 7308 | 2450 | Body | 2.022 | 51.315 | PASS | PASS | PASS | OFDM/TDD | PASS | PASS |
| K | 2450 | 3/6/2019 | 7417 | 2450 | Body | 2.039 | 50.67 | PASS | PASS | PASS | OFDM/TDD | PASS | PASS |
| K | 2600 | 3/6/2019 | 7417 | 2600 | Body | 2.224 | 50.17 | PASS | PASS | PASS | TDD | PASS | N/A |
| L | 5250 | 10/29/2018 | 7308 | 5250 | Body | 5.511 | 48.77 | PASS | PASS | PASS | OFDM | N/A | PASS |
| L | 5600 | 10/29/2018 | 7308 | 5600 | Body | 5.994 | 48.2 | PASS | PASS | PASS | OFDM | N/A | PASS |
| L | 5750 | 10/29/2018 | 7308 | 5750 | Body | 6.219 | 47.96 | PASS | PASS | PASS | OFDM | N/A | PASS |

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

| | | | | |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFX320TA |  | SAR EVALUATION REPORT |  | Approved by: Quality Manager |
| Test Dates: 06/12/19 - 07/07/19 | DUT Type: Portable Handset | | | APPENDIX E: Page 1 of 1 |

APPENDIX G POWER REDUCTION VERIFICATION

Per the May 2017 TCBC Workshop Notes, demonstration of proper functioning of the power reduction mechanisms is required to support the corresponding SAR configurations. The verification process was divided into two parts: (1) evaluation of output power levels for individual or multiple triggering mechanisms and (2) evaluation of the triggering distances for proximity-based sensors.

G.1 Power Verification Procedure



The power verification was performed according to the following procedure:

1. A base station simulator was used to establish a conducted RF connection and the output power was monitored. The power measurements were confirmed to be within expected tolerances for all states before and after a power reduction mechanism was triggered.
2. Step 1 was repeated for all relevant modes and frequency bands for the mechanism being investigated.
3. Steps 1 and 2 were repeated for all individual power reduction mechanisms and combinations thereof. For the combination cases, one mechanism was switched to a 'triggered' state at a time; powers were confirmed to be within tolerances after each additional mechanism was activated.

G.2 WIFI Verification Summary

**Table G-1
Power Measurement Verification WIFI**

| Mechanism(s) | Mode/Band | Conducted Power (dBm) | |
|--------------|--------------------------|-----------------------|------------------------|
| | | Un-triggered (Max) | Mechanism #1 (Reduced) |
| 1st | | | |
| Held-to-Ear | 802.11b | 19.15 | 15.42 |
| Held-to-Ear | 802.11g | 18.15 | 15.58 |
| Held-to-Ear | 802.11n (2.4GHz) | 17.75 | 14.69 |
| Held-to-Ear | 802.11a | 15.74 | 11.62 |
| Held-to-Ear | 802.11n (5GHz, 20MHz BW) | 16.66 | 11.5 |
| Held-to-Ear | 802.11n (5GHz, 40MHz BW) | 12.42 | 11.11 |

| | | | |
|------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFX320TA |  SAR EVALUATION REPORT |  | Reviewed by: Quality Manager |
| Test Dates: 06/12/19 - 07/07/19 | DUT Type: Portable Handset | | APPENDIX G: Page 1 of 1 |