

Standalone SAR test exclusion considerations

March 31, 2022

```
- Device category = \square Portable device

☑ Mobile device

- Transmitting mode =
                         ☐ Single Transmitting

☑ Simultaneous Transmitting

- Max. transmitting frequency =
                                  2437
                                          MHz
- Min. test separation distance =
                                     200 mm
- Max. Antenna Gain =
                           1.88 dBi
- Max. power with turn-up tolerance =
                                       24.0 dBm =
                                                      251.8 mW ( Typical Power =
                                                                                            Max. 23.0 dBm + 1.0 dB )
                               dBm , 2nd Transceiver =
    1st Transceiver =
                         20.0
                                                           20.0
                                                                dBm
                                                                             3st Transceiver =
                                                                                                              . 4nd Transceiver =
 Note.
        Max. power with turn-up tolerance was used the highest value in low/mid/high channels.
```

KDB 447498 D01 clasue 4.3.1 Step 2-2) SAR test exclusion thresholds for 1500MHz to 6GHz at test separation distances > 50 mm [Threshold at 50 mm + (test separation distance - 50 mm) X 10] mW = [1.97 + (200mm - 50mm X 10)] = 1502

Note. The calculation result was rounded to one decimal place for comparison.

→ SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required.

Maximum Permissible Exposure(MPE) evaluation for mobile device

```
S = P G / (4 R^2 \pi), mW/cm ^2 S = Maximum power density <math>R = Maximum power with turn-up tolerance <math>R = Maximum power with turn-up tolerance <math>R = Maximum power with turn-up tolerance <math>R = Maximum power with turn-up tolerance
```

Conclusion: The exposure condition of this device is compliant with FCC rules.

The limit for maximum permissible exposure = 1.000000 mW/cm²

 0.077230 mW/cm^2



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```
- Device category = \square Portable device

☑ Mobile device

- Transmitting mode =
                         ☐ Single Transmitting

☑ Simultaneous Transmitting

- Min transmitting frequency =
                                   5180
                                           MHz
- Min. test separation distance =
                                     200
                                         mm
- Max. Antenna Gain =
                            1.98 dBi
- Max. power with turn-up tolerance =
                                       25.0 dBm =
                                                                         Typical Power =
                                                                                             Max. 24.0 dBm + 1.0 dB )
                                                        317.8 mW
                                dBm , 2nd Transceiver =
    1st Transceiver =
                         18.0
                                                            18.0
                                                                 dBm
                                                                              3st Transceiver =
                                                                                                  18.0
                                                                                                                , 4nd Transceiver =
                                                                                                                                     18.0
Note.
        Max. power with turn-up tolerance was used the highest value in low/mid/high channels.
```

KDB 447498 D01 clasue 4.3.1 Step 2-2) SAR test exclusion thresholds for 1500MHz to 6GHz at test separation distances > 50 mm [Threshold at 50 mm + (test separation distance - 50 mm) X 10] mW = [3.62 + (200mm - 50mm X 10)] = 1503.6

Note. The calculation result was rounded to one decimal place for comparison.

→ SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required.

Maximum Permissible Exposure(MPE) evaluation for mobile device

```
S = P G / (4 R^2 \pi), mW/cm ^2 S = Maximum power density <math>R = Maximum power with turn-up tolerance <math>R = Maximum power with turn-up tolerance <math>R = Maximum power with turn-up tolerance <math>R = Maximum power with turn-up tolerance
```

Conclusion: The exposure condition of this device is compliant with FCC rules.

The limit for maximum permissible exposure = 1.000000 mW/cm²

0.099743 mW/cm²



FCC ID : 2AXCW-AP67002

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(II)

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Modules	Maximum power density, S (mW/cm²)	MPE Limit (mW/cm²)	MPE Ratio
DTS WLAN (2.4GHz)	0.077230	1.000000	0.0772
UNII WLAN (5GHz)	0.099743	1.000000	0.0997
Maximum MPE ratio: (0.0772 + 0.0997)		0.1769 < 1.0000	

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