January 11, 2021

TUV SUD America CB
10 Centennial Drive FL2
Peabody, MA 01960

Attention: Director of Certification

RE: Analysis of RF Exposure for Portable and Mobile use per KDB 447498 D01 RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices v06

FCC ID: 2AX9R-SNFSOFIAQ

General Information:

Applicant:	Quidel Corporation
Environment:	General Population/Uncontrolled Exposure
Exposure Conditions:	Mobile (verified to worst case Portable requirement at 5 mm separation distance)

Technical Information:

Minimum Test Separation Distance:	5 mm
Highest Operating Frequency:	2480 MHz
Antenna Type:	SMT mini antenna
Antenna Gain:	-0.5 dBi
Maximum Transmitter Conducted Power:	-9.8 dBm, 0.105 mW
Maximum Transmitter EIRP:	-10.3 dBm, 0.093 mW

Justification for SAR Test Exclusion:

Per KDB 447498 D01 General RF Exposure Guidance v06, the standalone 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left(\frac{\text{max. power of channel,including tune-up tolerance,mw}}{\text{min.test separation distance,mm}}\right) \text{x} \left(\sqrt{f\ (GHz)}\right) \leq 3.0$$

$$\left(\frac{0.093\ \text{mw}}{5\ \text{mm}}\right) \text{x} \left(\sqrt{2.480\ (GHz)}\right) \leq 3.0$$

$$0.1 \leq 3.0$$

where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds

Standalone SAR test exclusion is applied.

Sincerely,

Ferdie S. Custodio
Name
Authorized Signatory
Title: Senior EMC Test Engineer /Wireless Team Lead