



Test report No. : 13994987S-D-R1  
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Issued date : February 15, 2022  
FCC ID : YR7SKR3000P8

# SAR TEST REPORT

Test Report No.: 13994987S-D-R1

Applicant : KONICA MINOLTA, INC.  
Type of EUT : SKR 3000  
Model Number of EUT : P-85  
FCC ID : YR7SKR3000P8  
Test Standard : FCC 47CFR §2.1093  
Test Result : Complied (Refer to Section 3)

| Highest Reported SAR [W/kg] |                  |            |    |       | Remarks (DTS band) |              |                              |      | Remarks (UNII band) |              |                              |      |
|-----------------------------|------------------|------------|----|-------|--------------------|--------------|------------------------------|------|---------------------|--------------|------------------------------|------|
| DTS band                    | U-NII band       | SAR type   |    | Limit | Frequency [MHz]    | Mode         | Output power (average) [dBm] |      | Frequency [MHz]     | Mode         | Output power (average) [dBm] |      |
|                             |                  |            |    |       |                    |              | Measured                     | Max. |                     |              | Measured                     | Max. |
| 0.72 (Antenna 1)            | 1.15 (Antenna 1) | Body-touch | 1g | 1.6   | 2412               | IEEE 802.11b | 13.87                        | 15   | 5220                | IEEE 802.11a | 9.26                         | 10   |

- \*. Highest reported SAR(1g) value for partial body-touch RF exposure conditions is 0.72 W/kg in DTS band and 1.15 W/kg in U-NII band.  
\*. The SAR value of simultaneous transmission is ≤ 0.04 of SPLSR (Refer to Section 6) (\*, distance between antennas: approx.. 500 mm (design base))

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8. The opinions and the interpretations to the result of the description in this report are outside scopes where UL Japan has been accredited.
9. The information provided from the customer for this report is identified in SECTION 1.
10. This report (-R1) is a revised version of 13994987S-D. 13994987S-D report is replaced with this report.

Date of test: October 28 ~ November 2, 2021

Test engineer: H. Naka  
Hiroshi Naka (Engineer)

Approved by: T. Imamura  
Toyokazu Imamura (Leader)

- ☐ The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan.  
☒ There is no testing item of "Non-accreditation".



CERTIFICATE 1266.03

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## REVISION HISTORY

| Revision | Test report No. | Date              | Page revised                | Contents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------|-----------------|-------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Original | 13994987S-D     | December 1, 2021  | -                           | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -R1      | 13994987S-D-R1  | February 15, 2022 | p4, 5, 7, 9, 11, 12, 15, 16 | (p4, 5, 7, 9) Corrected operating frequency of U-NII-2C. (5500~5700) MHz (new)<br>(p5) Corrected ch.11 frequency to 2462 MHz for 11g, 11n20.<br>(p7)(3.5, table) Corrected frequency range of WLAN (DTS) to (2412~2462) MHz<br>(p9)(4.1, table) Corrected frequency range of DTS to (2412~2462) MHz<br>(p9)(4.1, table) Added lower power comment to 5190 MHz (11n40).<br>(p11, 12) Corrected a mistake in order to the number in the table on 5200 MHz and 5280 MHz of 11a, 11n20-SISO, 11n20-MIMO.<br>(p12) Deleted the comment of “*. <b>xx.xx</b> yellow highlight is shown the maximum measured output power in each mode.”<br>(p15, 16) Corrected data rate of 11a mode. “a (1Mbps)” (was)-> “a (6Mbps)” (new) |

\*. By issue of new revision report, the report of an old revision becomes invalid.

## Reference : Abbreviations (Including words undescribed in this report) (radio\_r0v03\_200214)

|                |                                                                 |         |                                                     |
|----------------|-----------------------------------------------------------------|---------|-----------------------------------------------------|
| A2LA           | The American Association for Laboratory Accreditation           | IF      | Intermediate Frequency                              |
| AC             | Alternating Current                                             | ILAC    | International Laboratory Accreditation Conference   |
| AFH            | Adaptive Frequency Hopping                                      | ISED    | Innovation, Science and Economic Development Canada |
| AM             | Amplitude Modulation                                            | ISO     | International Organization for Standardization      |
| Amp, AMP       | Amplifier                                                       | JAB     | Japan Accreditation Board                           |
| ANSI           | American National Standards Institute                           | LAN     | Local Area Network                                  |
| Ant, ANT       | Antenna                                                         | LIMS    | Laboratory Information Management System            |
| AP             | Access Point                                                    | MCS     | Modulation and Coding Scheme                        |
| ASK            | Amplitude Shift Keying                                          | MRA     | Mutual Recognition Arrangement                      |
| Atten., ATT    | Attenuator                                                      | N/A     | Not Applicable                                      |
| AV             | Average                                                         | NIST    | National Institute of Standards and Technology      |
| BPSK           | Binary Phase-Shift Keying                                       | NS      | No signal detect.                                   |
| BR             | Bluetooth Basic Rate                                            | NSA     | Normalized Site Attenuation                         |
| BT             | Bluetooth                                                       | NVLAP   | National Voluntary Laboratory Accreditation Program |
| BT LE          | Bluetooth Low Energy                                            | OBW     | Occupied Band Width                                 |
| BW             | BandWidth                                                       | OFDM    | Orthogonal Frequency Division Multiplexing          |
| Cal Int        | Calibration Interval                                            | P/M     | Power meter                                         |
| CCK            | Complementary Code Keying                                       | PCB     | Printed Circuit Board                               |
| Ch, CH         | Channel                                                         | PER     | Packet Error Rate                                   |
| CISPR          | Comite International Special des Perturbations Radioelectriques | PHY     | Physical Layer                                      |
| CW             | Continuous Wave                                                 | PK      | Peak                                                |
| DBPSK          | Differential BPSK                                               | PN      | Pseudo random Noise                                 |
| DC             | Direct Current                                                  | PRBS    | Pseudo-Random Bit Sequence                          |
| D-factor       | Distance factor                                                 | PSD     | Power Spectral Density                              |
| DFS            | Dynamic Frequency Selection                                     | QAM     | Quadrature Amplitude Modulation                     |
| DQPSK          | Differential QPSK                                               | QP      | Quasi-Peak                                          |
| DSSS           | Direct Sequence Spread Spectrum                                 | QPSK    | Quadrature Phase Shift Keying                       |
| DUT            | Device Under Test                                               | RBW     | Resolution Band Width                               |
| EDR            | Enhanced Data Rate                                              | RDS     | Radio Data System                                   |
| EIRP, e.i.r.p. | Equivalent Isotropically Radiated Power                         | RE      | Radio Equipment                                     |
| EMC            | ElectroMagnetic Compatibility                                   | RF      | Radio Frequency                                     |
| EMI            | ElectroMagnetic Interference                                    | RMS     | Root Mean Square                                    |
| EN             | European Norm                                                   | RSS     | Radio Standards Specifications                      |
| ERP, e.r.p.    | Effective Radiated Power                                        | Rx      | Receiving                                           |
| EU             | European Union                                                  | SA, S/A | Spectrum Analyzer                                   |
| EUT            | Equipment Under Test                                            | SAR     | Specific Absorption Rate                            |
| Fac.           | Factor                                                          | SG      | Signal Generator                                    |
| FCC            | Federal Communications Commission                               | SVSWR   | Site-Voltage Standing Wave Ratio                    |
| FHSS           | Frequency Hopping Spread Spectrum                               | TR      | Test Receiver                                       |
| FM             | Frequency Modulation                                            | Tx      | Transmitting                                        |
| Freq.          | Frequency                                                       | VBW     | Video BandWidth                                     |
| FSK            | Frequency Shift Keying                                          | Vert.   | Vertical                                            |
| GFSK           | Gaussian Frequency-Shift Keying                                 | WLAN    | Wireless LAN                                        |
| GNSS           | Global Navigation Satellite System                              |         |                                                     |
| GPS            | Global Positioning System                                       |         |                                                     |
| Hori.          | Horizontal                                                      |         |                                                     |
| ICES           | Interference-Causing Equipment Standard                         |         |                                                     |
| IEC            | International Electrotechnical Commission                       |         |                                                     |
| IEEE           | Institute of Electrical and Electronics Engineers               |         |                                                     |

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## SECTION 1: Customer information

|                  |                                                  |
|------------------|--------------------------------------------------|
| Company Name     | KONICA MINOLTA, Inc.                             |
| Address          | 1, Sakura-machi, Hino-shi, Tokyo, Japan 191-8511 |
| Telephone Number | +81-42-589-8429                                  |
| Contact Person   | Yukihiro Niekawa                                 |

The information provided from the customer is as follows;

- Applicant, Type of EUT, Model Number of EUT, FCC ID on the cover and other relevant pages
- Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 1: Customer information
- SECTION 2: Equipment under test (EUT)
- SECTION 4: Operation of EUT during testing
- Appendix 1: The part of Antenna location information, Description of EUT and Support Equipment

\*. The laboratory is exempted from liability of any test results affected from the above information in SECTION 2, SECTION 4 and Appendix 1.

## SECTION 2: Equipment under test (EUT)

### 2.1 Identification of EUT

|                                                           |                                                                                                                                                                                                                          |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of Equipment                                         | SKR 3000                                                                                                                                                                                                                 |
| Model Number                                              | P-85                                                                                                                                                                                                                     |
| Serial Number                                             | ADU0-S0008                                                                                                                                                                                                               |
| Condition of EUT                                          | Production prototype (*. Not for sale: These samples are equivalent to mass-produced items.)                                                                                                                             |
| Receipt Date of Sample<br>(*. Information from test lab.) | September 22, 2021 (*.EUT for power measurement. No modification by the Lab.)<br>October 6, 2021 (*. EUT for SAR test. No modification by the Lab.)<br>(*. After power measurement, the EUT was returned to a customer.) |
| Country of Mass-production                                | Japan                                                                                                                                                                                                                    |
| Category Identified                                       | Portable device<br>*. Since EUT may touch the human body during WLAN operation, the partial-body SAR (1g) shall be measured.                                                                                             |
| Rating                                                    | DC 15 V (Re-chargeable battery, The battery is had built-in in the EUT, and the user can not remove the battery.)                                                                                                        |
| Feature of EUT                                            | Model number: P-85 (referred to as the EUT in this report) is a flat panel type detector “SKR 3000” which has WLAN function.                                                                                             |
| SAR Accessory                                             | none                                                                                                                                                                                                                     |

### 2.2 Product Description (WLAN module, antenna)

|                                    |                                                                                                                                                                                                                                                                                                       |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment type                     | Transceiver                                                                                                                                                                                                                                                                                           |
| Frequency of operation             | 2.4GHz band: (2412~2462) MHz (b, g, n20);<br>U-NII-1: (5180~5240) MHz (a, n20) / (5190, 5230) MHz (n40);<br>U-NII-2A: (5260~5320) MHz (a, n20) / (5270, 5310) MHz (n40);<br>U-NII-2C: (5500~5700) MHz (a, n20) / (5510~5670) MHz (n40);<br>U-NII-3: (5745~5825) MHz (a, n20) / (5755, 5795) MHz (n40) |
| Channel spacing                    | 5 MHz (2.4GHz band), 20 MHz (5GHz band: U-NII-1, U-NII-2A, U-NII-2C, U-NII-3)                                                                                                                                                                                                                         |
| Bandwidth                          | 20 MHz (b, g, a, n20), 40 MHz (n40)                                                                                                                                                                                                                                                                   |
| Type of modulation                 | DSSS: DBPSK, DQPSK, CCK (b), OFDM: BPSK, QPSK, 16QAM, 64QAM (g, a, n20, n40)                                                                                                                                                                                                                          |
| Typical and maximum transmit power | *. The specification of typical and maximum transmit power (which may occur) refer to remarks in below “Table of ”Typical and Maximum tune-up tolerance limit”. The measured output power (conducted) as SAR reference power refers to section 5 in this report.                                      |

| Antenna                                             | Main antenna (antenna #1) (*software ID: chain 0)                                                                                                                                                                                                                       | Sub antenna (antenna #2) (*software ID: chain 1)            |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Antenna model                                       | AEP8P-100000 (cable length: 174.0 mm ± 5.0 mm, O.D.1.37 mm)                                                                                                                                                                                                             | AEP8P-100001 (cable length: 428.0 mm ± 5.0 mm, O.D.1.37 mm) |
| Antenna quantity                                    | 2 pcs. (*. Separation distance between Main antenna (chain 0) and Sub antenna (chain 1): approx. 500 mm)<br>*. Mode of b,g,a: One selected Tx antenna operation.<br>*. Mode of n20,n40: One selected Tx antenna operation (MCS0~7) / Two Tx antenna operation (MCS8~13) |                                                             |
| Antenna type / connector type                       | PIFA (Planar Inverted F Antenna) / Connector; PCB side: U.FL, Antenna side: soldered                                                                                                                                                                                    |                                                             |
| Antenna gain (max. gain)<br>(*including cable loss) | -1.95 dBi (2.4GHz band), -0.98 dBi (5GHz band)                                                                                                                                                                                                                          | -2.21 dBi (2.4GHz band), -1.54 dBi (5GHz band)              |

\*. (mode) b: IEEE 802.11b, g: IEEE 802.11g, a: IEEE 802.11a, n20: IEEE 802.11n(20HT), n40: IEEE 802.11n(40HT).

\*. The EUT do not use the special transmitting technique such as “beam-forming” and “time-space code diversity.”

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\*. Table of “Typical and Maximum tune-up tolerance limit”

Maximum tune-up tolerance limit is conducted burst average power and is defined by a customer as Duty cycle 100% (continuous transmitting).

The SAR test reference power measurement and the SAR test were applied to the lowest data rate (as higher time-based average power) on each operation mode.

|                    |                  |                 | SISO power (Conducted, Duty cycle 100%) |              |               |       |           |         | MIMO (Conducted, Duty cycle 100%) |              |               |       |          |            |
|--------------------|------------------|-----------------|-----------------------------------------|--------------|---------------|-------|-----------|---------|-----------------------------------|--------------|---------------|-------|----------|------------|
| Band               | Ch.              | Frequency [MHz] | Mode                                    | D/R or MCS#. | Typical [dBm] | Ant#2 | Max.[dBm] | Ant#2   | Mode                              | D/R or MCS#. | Typical [dBm] |       |          | Max. [dBm] |
|                    |                  |                 |                                         |              | Ant#1         | Ant#2 | Ant#1     | Ant#2   |                                   |              | Ant#1         | Ant#2 | Ant#1+#2 | Ant#1+#2   |
| 2.4GHz Wi-Fi (DTS) | 1~11             | 2412~2462       | b                                       | 1~11 Mbps    | 12.5          | 12.5  | 15.0      | 15.0    | -                                 | -            | -             | -     | -        | -          |
|                    | 1~3              | 2412~2422       | g                                       | 6~54 Mbps    | 7.5           | 7.5   | 10.0      | 10.0    | -                                 | -            | -             | -     | -        | -          |
|                    | 4~8              | 2427~2447       |                                         | 6~36 Mbps    | 12.5          | 12.5  | 15.0      | 15.0    | -                                 | -            | -             | -     | -        | -          |
|                    | 9~11             | 2452~2462       |                                         | 48~54 Mbps   | 11.0          | 11.0  | 13.5      | 13.5    | -                                 | -            | -             | -     | -        | -          |
|                    | 1~3              | 2412~2422       |                                         | 6~54 Mbps    | 9.0           | 9.0   | 11.5      | 11.5    | -                                 | -            | -             | -     | -        | -          |
|                    | 4~8              | 2427~2447       | n20                                     | MCS0~7       | 5.5           | 5.5   | 8.0       | 8.0     | n20                               | MCS8~15      | 5.5           | 5.5   | 8.5      | 11.0       |
|                    |                  |                 |                                         | MCS0~4       | 12.5          | 12.5  | 15.0      | 15.0    |                                   | MCS8~12      | 12.5          | 12.5  | 15.5     | 18.0       |
|                    |                  |                 |                                         | MCS5~6       | 11.0          | 11.0  | 13.5      | 13.5    |                                   | MCS13~14     | 11.0          | 11.0  | 14.0     | 16.5       |
|                    |                  |                 |                                         | MCS7         | 7.0           | 7.0   | 9.5       | 9.5     |                                   | MCS15        | 7.0           | 7.0   | 10.0     | 12.5       |
| MCS0~7             |                  |                 |                                         | 6.0          | 6.0           | 8.5   | 8.5       | MCS8~15 |                                   | 6.0          | 6.0           | 9.0   | 11.5     |            |
| U-NII-1 (5.2GHz)   | 36~48            | 5180~5240       | a                                       | 6~54 Mbps    | 7.5           | 7.5   | 10.0      | 10.0    | -                                 | -            | -             | -     | -        | -          |
|                    | 36~48            | 5180~5240       | n20                                     | MCS0~5       | 7.5           | 7.5   | 10.0      | 10.0    | n20                               | MCS8~13      | 7.5           | 7.5   | 10.5     | 13.0       |
|                    |                  |                 |                                         | MCS6         | 7.0           | 7.0   | 9.5       | 9.5     |                                   | MCS14        | 7.0           | 7.0   | 10.0     | 12.5       |
|                    |                  |                 |                                         | MCS7         | 6.0           | 6.0   | 8.5       | 8.5     |                                   | MCS15        | 6.0           | 6.0   | 9.0      | 11.5       |
|                    | 38               | 5190            | n40                                     | MCS0~6       | 7.0           | 7.0   | 9.5       | 9.5     | n40                               | MCS8~14      | 7.0           | 7.0   | 10.0     | 12.5       |
|                    |                  |                 |                                         | MCS7         | 6.0           | 6.0   | 8.5       | 8.5     |                                   | MCS15        | 6.0           | 6.0   | 9.0      | 11.5       |
|                    |                  |                 |                                         | MCS0~5       | 7.5           | 7.5   | 10.0      | 10.0    |                                   | MCS8~13      | 7.5           | 7.5   | 10.5     | 13.0       |
|                    |                  |                 |                                         | MCS6         | 7.0           | 7.0   | 9.5       | 9.5     |                                   | MCS14        | 7.0           | 7.0   | 10.0     | 12.5       |
|                    |                  |                 |                                         | MCS7         | 6.0           | 6.0   | 8.5       | 8.5     |                                   | MCS15        | 6.0           | 6.0   | 9.0      | 11.5       |
| U-NII-2A (5.3GHz)  | 52~64            | 5260~5320       | a                                       | 6~54 Mbps    | 7.5           | 7.5   | 10.0      | 10.0    | -                                 | -            | -             | -     | -        | -          |
|                    | 52~64            | 5260~5320       | n20                                     | MCS0~5       | 7.5           | 7.5   | 10.0      | 10.0    | n20                               | MCS8~13      | 7.5           | 7.5   | 10.5     | 13.0       |
|                    |                  |                 |                                         | MCS6         | 7.0           | 7.0   | 9.5       | 9.5     |                                   | MCS14        | 7.0           | 7.0   | 10.0     | 12.5       |
|                    |                  |                 |                                         | MCS7         | 6.0           | 6.0   | 8.5       | 8.5     |                                   | MCS15        | 6.0           | 6.0   | 9.0      | 11.5       |
|                    | 54, 62           | 5270. 5310      | n40                                     | MCS0~5       | 7.5           | 7.5   | 10.0      | 10.0    | n40                               | MCS8~13      | 7.5           | 7.5   | 10.5     | 13.0       |
|                    |                  |                 |                                         | MCS6         | 7.0           | 7.0   | 9.5       | 9.5     |                                   | MCS14        | 7.0           | 7.0   | 10.0     | 12.5       |
| MCS7               |                  |                 |                                         | 6.0          | 6.0           | 8.5   | 8.5       | MCS15   |                                   | 6.0          | 6.0           | 9.0   | 11.5     |            |
| U-NII-2C (5.6GHz)  | 100~140          | 5500~5700       | a                                       | 6~54 Mbps    | 7.5           | 7.5   | 10.0      | 10.0    | -                                 | -            | -             | -     | -        | -          |
|                    | 100~140          | 5500~5700       | n20                                     | MCS0~5       | 7.5           | 7.5   | 10.0      | 10.0    | n20                               | MCS8~13      | 7.5           | 7.5   | 10.5     | 13.0       |
|                    |                  |                 |                                         | MCS6         | 7.0           | 7.0   | 9.5       | 9.5     |                                   | MCS14        | 7.0           | 7.0   | 10.0     | 12.5       |
|                    |                  |                 |                                         | MCS7         | 6.0           | 6.0   | 8.5       | 8.5     |                                   | MCS15        | 6.0           | 6.0   | 9.0      | 11.5       |
|                    | 102~134          | 5510~5670       | n40                                     | MCS0~5       | 7.5           | 7.5   | 10.0      | 10.0    | n40                               | MCS8~13      | 7.5           | 7.5   | 10.5     | 13.0       |
|                    |                  |                 |                                         | MCS6         | 7.0           | 7.0   | 9.5       | 9.5     |                                   | MCS14        | 7.0           | 7.0   | 10.0     | 12.5       |
| MCS7               |                  |                 |                                         | 6.0          | 6.0           | 8.5   | 8.5       | MCS15   |                                   | 6.0          | 6.0           | 9.0   | 11.5     |            |
| U-NII-3 (5.8GHz)   | 149~165          | 5754~5825       | a                                       | 6~48 Mbps    | 7.5           | 7.5   | 10.0      | 10.0    | -                                 | -            | -             | -     | -        | -          |
|                    | 100~116, 132~140 | 5260~5320       | n20                                     | 54 Mbps      | 6.0           | 6.0   | 8.5       | 8.5     | n20                               | MCS8~13      | 7.5           | 7.5   | 10.5     | 13.0       |
|                    |                  |                 |                                         | MCS0~5       | 7.5           | 7.5   | 10.0      | 10.0    |                                   | MCS14        | 6.0           | 6.0   | 9.0      | 11.5       |
|                    |                  |                 |                                         | MCS6         | 6.0           | 6.0   | 8.5       | 8.5     |                                   | MCS15        | 4.5           | 4.5   | 7.5      | 10.0       |
|                    | 151, 159         | 5755, 5795      | n40                                     | MCS0~5       | 7.5           | 7.5   | 10.0      | 10.0    | n40                               | MCS8~13      | 7.5           | 7.5   | 10.5     | 13.0       |
|                    |                  |                 |                                         | MCS6         | 6.0           | 6.0   | 8.5       | 8.5     |                                   | MCS14        | 6.0           | 6.0   | 9.0      | 11.5       |
| MCS7               |                  |                 |                                         | 4.5          | 4.5           | 7.0   | 7.0       | MCS15   |                                   | 4.5          | 4.5           | 7.5   | 10.0     |            |

\*. Ch.: channel, D/R: data rate, Ant.: antenna (Ant.#1: Main antenna / Ant.#2: Sub antenna), Max. Maximum tune-up limit power, N/A: Not applicable.

\*. (mode) b: IEEE 802.11b, g: IEEE 802.11g, a: IEEE 802.11a, n20: IEEE 802.11n(20HT), n40: IEEE 802.11n(40HT).

## SECTION 3: Test specification, procedures and results

### 3.1 Test specification

**FCC47CFR §2.1093:** Radiofrequency radiation exposure evaluation: portable devices.

The US Federal Communications Commission has released the report and order "Guidelines for Evaluating the Environmental Effects of RF Radiation", ET Docket No. 93-62 in August 1996. The order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g for an uncontrolled environment and 8.0 mW/g for an occupational/controlled environment as recommended by the ANSI/IEEE standard C95.1-1992. The device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling in accordance with the following measurement procedures.

The tests documented in this report were performed in accordance with FCC 47 CFR Parts 2, IEEE Std.1528-2013 (latest), the following FCC Published RF exposure KDB procedures, and TCB workshop updates.

|                                 |                                                                                                                                                                                   |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>KDB 447498 D01 (v06):</b>    | General RF exposure guidance                                                                                                                                                      |
| <b>KDB 248227 D01 (v02r02):</b> | SAR Guidance for IEEE 802.11 (Wi-Fi) transmitters                                                                                                                                 |
| <b>KDB 865664 D01 (v01r04):</b> | SAR measurement 100MHz to 6GHz                                                                                                                                                    |
| <b>IEEE Std. 1528-2013:</b>     | IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques. |

### 3.2 Exposure limit

| Environments of exposure limit                                         | Whole-Body<br>(averaged over the entire body) | Partial-Body<br>(averaged over any 1g of tissue) | Hands, Wrists, Feet and Ankles<br>(averaged over any 10g of tissue) |
|------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------|
| <b>(A) Limits for Occupational /Controlled Exposure (W/kg)</b>         | 0.4                                           | 8.0                                              | 20.0                                                                |
| <b>(B) Limits for General population /Uncontrolled Exposure (W/kg)</b> | 0.08                                          | 1.6                                              | 4.0                                                                 |

\*. **Occupational/Controlled Environments:** are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

\*. **General Population/Uncontrolled Environments:** are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

The limit applied in this test report is;

**General population / uncontrolled exposure, Partial-Body (averaged over any 1g of tissue) limit: 1.6 W/kg (Partial body touch)**

### 3.3 Addition, deviation and exclusion to the test procedure

No addition, exclusion nor deviation has been made from the test procedure.

### 3.4 Test Location

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Telephone number: +81 463 50 6400 / Facsimile number: +81 463 50 6401

\*. A2LA Certificate Number: 1266.03 (FCC Test Firm Registration Number: 626366, ISED Lab Company Number: 2973D / CAB identifier: JP0001)

| Used?                    | Place                      | Width × Depth × Height (m) | Size of reference ground plane (m) / horizontal conducting plane | Maximum measurement distance | Used?                               | Place                     | Width × Depth × Height (m) | Size of reference ground plane (m) / horizontal conducting plane |
|--------------------------|----------------------------|----------------------------|------------------------------------------------------------------|------------------------------|-------------------------------------|---------------------------|----------------------------|------------------------------------------------------------------|
| <input type="checkbox"/> | No.1 Semi-anechoic chamber | 20.6 × 11.3 × 7.65         | 20.6 × 11.3                                                      | 10 m                         | <input type="checkbox"/>            | No.4 Shielded room        | 4.4 × 4.7 × 2.7            | 4.4 × 4.7                                                        |
| <input type="checkbox"/> | No.2 Semi-anechoic chamber | 20.6 × 11.3 × 7.65         | 20.6 × 11.3                                                      | 10 m                         | <input type="checkbox"/>            | No.5 Shielded room        | 7.8 × 6.4 × 2.7            | 7.8 × 6.4                                                        |
| <input type="checkbox"/> | No.3 Semi-anechoic chamber | 12.7 × 7.7 × 5.35          | 12.7 × 7.7                                                       | 5 m                          | <input type="checkbox"/>            | No.6 Shielded room        | 7.8 × 6.4 × 2.7            | 7.8 × 6.4                                                        |
| <input type="checkbox"/> | No.4 Semi-anechoic chamber | 8.1 × 5.1 × 3.55           | 8.1 × 5.1                                                        | -                            | <input checked="" type="checkbox"/> | <b>No.7 Shielded room</b> | 2.76 × 3.76 × 2.4          | 2.76 × 3.76                                                      |
| <input type="checkbox"/> | No.1 Shielded room         | 6.8 × 4.1 × 2.7            | 6.8 × 4.1                                                        | -                            | <input type="checkbox"/>            | No.8 Shielded room        | 3.45 × 5.5 × 2.4           | 3.45 × 5.5                                                       |
| <input type="checkbox"/> | No.2 Shielded room         | 6.8 × 4.1 × 2.7            | 6.8 × 4.1                                                        | -                            | <input type="checkbox"/>            | No.1 Measurement room     | 2.55 × 4.1 × 2.5           | 2.55 × 4.1                                                       |
| <input type="checkbox"/> | No.3 Shielded room         | 6.3 × 4.7 × 2.7            | 6.3 × 4.7                                                        | -                            |                                     |                           |                            |                                                                  |

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### 3.5 Procedures and Results

| Test Procedure     |                  | SAR measurement: KDB 447498 D01, KDB 248227 D01, KDB 865664 D01, IEC Std. 1528 |         |                                       |         |                                  |         |                                  |         |                                  |         |                                                                                                                                                                                          |
|--------------------|------------------|--------------------------------------------------------------------------------|---------|---------------------------------------|---------|----------------------------------|---------|----------------------------------|---------|----------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Category           |                  | FCC 47CFR §2.1093 (Portable device)                                            |         |                                       |         |                                  |         | SAR type                         |         | Partial-body (touch)             |         |                                                                                                                                                                                          |
|                    |                  | WLAN (DTS)                                                                     |         | WLAN (U-NII-1)                        |         | WLAN (U-NII-2A)                  |         | WLAN (U-NII-2C)                  |         | WLAN (U-NII-3)                   |         | Simultaneous (Co-<br>location)<br>transmission                                                                                                                                           |
| Frequency [MHz]    |                  | 2412~2462                                                                      |         | 5180~5240                             |         | 5260~5320                        |         | 5500~5700                        |         | 5745~5825                        |         |                                                                                                                                                                                          |
| Results (SAR(1g))  |                  | Complied<br>(Refer to Section 6)                                               |         | Complied (*1)<br>(Refer to Section 6) |         | Complied<br>(Refer to Section 6) |         | Complied<br>(Refer to Section 6) |         | Complied<br>(Refer to Section 6) |         | Complied<br>(Refer to Section 6)                                                                                                                                                         |
| Antenna#           |                  | 1 (Main)                                                                       | 2 (Sub) | 1 (Main)                              | 2 (Sub) | 1 (Main)                         | 2 (Sub) | 1 (Main)                         | 2 (Sub) | 1 (Main)                         | 2 (Sub) | Main+Sub                                                                                                                                                                                 |
| SAR<br>[W/kg]      | Type             | 1g                                                                             | 1g      | 1g                                    | 1g      | 1g                               | 1g      | 1g                               | 1g      | 1g                               | 1g      | 1g                                                                                                                                                                                       |
|                    | Limit            | 1.6                                                                            | 1.6     | 1.6                                   | 1.6     | 1.6                              | 1.6     | 1.6                              | 1.6     | 1.6                              | 1.6     | 1.6                                                                                                                                                                                      |
|                    | Reported         | 0.72                                                                           | 0.57    | 1.15                                  | 0.54    | 0.88                             | 0.58    | 1.12                             | 0.88    | 0.99                             | 0.80    | The operation of Co-<br>location (MIMO)<br>was smaller than ≤<br>0.04 of SPLSR,<br>because of<br>separation distance<br>between Main<br>antenna and Sub<br>antenna is approx.<br>500 mm. |
|                    | Measured         | 0.553                                                                          | 0.445   | 1.01                                  | 0.465   | 0.727                            | 0.460   | 0.880                            | 0.648   | 0.791                            | 0.601   |                                                                                                                                                                                          |
|                    | Liquid type      | Head                                                                           | Head    | Head                                  | Head    | Head                             | Head    | Head                             | Head    | Head                             | Head    |                                                                                                                                                                                          |
| Operation mode     |                  | b                                                                              | b       | a                                     | a       | a                                | a       | n40                              | n40     | n40                              | a       |                                                                                                                                                                                          |
| Frequency[MHz]     |                  | 2412                                                                           | 2412    | 5220                                  | 5180    | 5260                             | 5260    | 5670                             | 5550    | 5755                             | 5745    |                                                                                                                                                                                          |
| Output<br>power    | Burst Ave. [dBm] |                                                                                | 13.87   | 13.95                                 | 9.26    | 9.47                             | 9.28    | 9.10                             | 9.07    | 8.79                             | 9.17    | 8.87                                                                                                                                                                                     |
|                    | Tune-up<br>limit | [dBm]                                                                          | 15      | 15                                    | 10      | 10                               | 10      | 10                               | 10      | 10                               | 10      | 10                                                                                                                                                                                       |
|                    |                  | [mW]                                                                           | 32      | 32                                    | 10      | 10                               | 10      | 10                               | 10      | 10                               | 10      | 10                                                                                                                                                                                       |
|                    | Tune-up factor   |                                                                                | 1.30    | 1.27                                  | 1.19    | 1.13                             | 1.18    | 1.23                             | 1.24    | 1.32                             | 1.21    | 1.30                                                                                                                                                                                     |
| Duty cycle [%]     |                  | 99.7                                                                           | 99.7    | 98.4                                  | 98.4    | 98.4                             | 98.4    | 96.7                             | 96.7    | 96.7                             | 98.4    |                                                                                                                                                                                          |
| Duty scaled factor |                  | 1.00                                                                           | 1.00    | 1.02                                  | 1.02    | 1.02                             | 1.02    | 1.03                             | 1.03    | 1.03                             | 1.02    |                                                                                                                                                                                          |

Note: UL Japan's SAR Work Procedures No.13-EM-W0429 and 13-EM-W0430. No addition, deviation nor exclusion has been made from standards

- \*. (mode) b: IEEE 802.11b, g: IEEE 802.11g, a: IEEE 802.11a, n20: IEEE 802.11n(20HT), n40: IEEE 802.11n(40HT).
- \*. (Calculating formula) Corrected SAR to max.power (W/kg) = (Measured SAR (W/kg)) × (Duty scaled) × (Tune-up factor)  
where; Tune-up factor [-] =  $1 / (10^{(\Delta_{\text{max}}(\text{tune-up limit power} - \text{burst average power}, \text{dB}) / 10)})$ , Duty scaled factor [-] =  $100(\%) / (\text{duty cycle}, \%)$
- \*. Ave.: Average; n/a: Not applicable; (mode) b: IEEE 802.11b, ac20: IEEE 802.11ac(20VHT),
- \*. "yellow marker" in the table; The highest reported SAR(1g) of each band (DTS, U-NII) is shaded with yellow marker.
- \*1. SAR test of U-NII-1 band was also applied, even though the reported SAR(1g) of U-NII-2A band was lower than 1.2 W/kg.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for partial body) specified in FCC 47 CFR part 2 (2.1093) and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

### 3.6 SAR measurement procedure

#### 3.6.1 Normal SAR measurement procedure

##### Step 1: Confirmation before SAR testing

Before SAR test, the RF wiring for the sample had been switched to the antenna conducted power measurement line from the antenna line and the average power was measured. The SAR test reference power measurement and the SAR test were proceeded with the lowest data rate (which has the higher time-based average power typically) on each operation mode. Therefore, the average output power was measured on the lower, middle (or near middle), upper and specified channels with the lowest data rate of each operation mode. The power of other data rate was also measured to confirm the time-base average power and when it's required. The power measurement result is shown in Section 5.

\*. The EUT transmission power was verified that it was within 2dB lower than the maximum tune-up tolerance limit when it was set the rated power. (Clause 4.1, KDB447498 D01 (v06))

##### Step 2: Power reference measurement

Measurement of the E-field at a fixed location above the central position of flat phantom (or/and furthermore an interpolated peak SAR location of area scan in step 2) was used as a reference value for assessing the power drop.

##### Step 3: Area Scan (Area scan parameters: KDB 865664 D01 (v01r04).)

The SAR distribution at the exposed side of head or body position was measured at a distance of each device from the inner surface of the shell. The area covered the entire dimension of the antenna of EUT and suitable horizontal grid spacing of EUT. Based on these data, the area of the maximum absorption was determined by splines interpolation.

|                                                                                                        | ≤ 3 GHz                                                                                                                                                                                                                                                           | > 3 GHz                                            |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface | 5 ± 1 mm                                                                                                                                                                                                                                                          | $\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm |
| Maximum probe angle from probe axis to phantom surface normal at the measurement location              | 30° ± 1°                                                                                                                                                                                                                                                          | 20° ± 1°                                           |
| Maximum area scan spatial resolution: $\Delta x_{Area}$ , $\Delta y_{Area}$                            | $\leq 2$ GHz: ≤ 15 mm<br>2 – 3 GHz: ≤ 12 mm                                                                                                                                                                                                                       | 3 – 4 GHz: ≤ 12 mm<br>4 – 6 GHz: ≤ 10 mm           |
|                                                                                                        | When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device. |                                                    |

##### Step 4: Zoom Scan and post-processing (Zoom scan parameters: KDB 865664 D01 (v01r04).)

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The Zoom Scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure.

A volume of 30 mm (X) × 30 mm (Y) × 30 mm (Z) (or more) was assessed by measuring 7×7×7 points (or more), ≤ 3GHz.

A volume of 28 mm (X) × 28 mm (Y) × 24mm (Z) (or more) was assessed by measuring 8×8×7 points (or more) (by “Ratio step” method (\*1)), > 3 GHz.

When the SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are proceeded for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR. If the zoom scan measured as defined above complies with both of the following criteria, or if the peak spatial-average SAR is below 0.1 W/kg, no additional measurements are needed.

\*. The smallest horizontal distance from the local SAR peaks to all points 3 dB below the SAR peak shall be larger than the horizontal grid steps in both x and y directions and recorded.

\*. The ratio of the SAR at the second measured point to the SAR at the closest measured point at the x-y location of the measured maximum SAR value shall be at least 30 % and recorded.

|                                                                                                                                                                                                                                                                                                       |                                                                             |                                                                                                     | f ≤ 3 GHz                                  | 3 GHz < f ≤ 6 GHz                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------|
| 1                                                                                                                                                                                                                                                                                                     | Maximum zoom scan spatial resolution: $\Delta x_{Zoom}$ , $\Delta y_{Zoom}$ |                                                                                                     | $\leq 2$ GHz: ≤ 8 mm<br>2 – 3 GHz: ≤ 5 mm* | 3 – 4 GHz: ≤ 5 mm*<br>4 – 6 GHz: ≤ 4 mm*                       |
| 2                                                                                                                                                                                                                                                                                                     | Maximum zoom scan spatial resolution, normal to phantom surface             | uniform grid: $\Delta z_{Zoom}(n)$                                                                  | ≤ 5 mm                                     | 3 – 4 GHz: ≤ 4 mm<br>4 – 5 GHz: ≤ 3 mm<br>5 – 6 GHz: ≤ 2 mm    |
| 3                                                                                                                                                                                                                                                                                                     |                                                                             | graded grid<br>$\Delta z_{Zoom}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface | ≤ 4 mm                                     | 3 – 4 GHz: ≤ 3 mm<br>4 – 5 GHz: ≤ 2.5 mm<br>5 – 6 GHz: ≤ 2 mm  |
| 4                                                                                                                                                                                                                                                                                                     |                                                                             | $\Delta z_{Zoom}(n>1)$ : between subsequent points                                                  | ≤ 1.5 · $\Delta z_{Zoom}(n-1)$ mm          |                                                                |
| 5                                                                                                                                                                                                                                                                                                     | Minimum zoom scan volume                                                    | x, y, z                                                                                             | ≥ 30 mm                                    | 3 – 4 GHz: ≥ 28 mm<br>4 – 5 GHz: ≥ 25 mm<br>5 – 6 GHz: ≥ 22 mm |
| <small>*. The asterisk table-footnote is per KDB Pub. 865664 D01 v01r04.<br/> NOTE For uniformity purposes the integer frequency increments of rows 1 to 3 and 5 apply, rather than the corresponding variable and fixed parameters given in IEC 62209-1:2016 and IEC 62209-2:2010/AMD1:2019.</small> |                                                                             |                                                                                                     |                                            |                                                                |

##### Step 5: Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 2. It was checked that the power drift is within ±5% in the evaluation procedure of SAR testing. The verification of power drift during the SAR test is that DASY system calculates the power drift by measuring the e-field at the same location at beginning and the end of the scan measurement for each test position. The result is shown in SAR plot data of APPENDIX 2.

\*. DASY system calculation Power drift value[dB] = 20log(Ea)/(Eb) (where, Before SAR testing: Eb[V/m] / After SAR testing: Ea[V/m])

Limit of power drift[W] = ±5%; Power drift limit (X) [dB] = 10log(P\_drift)=10log(1.05/1) = 10log(1.05)-10log(1) = 0.21dB

From E-filed relations with power;  $S=E \times H = E^2 / \eta = P / (4 \times \pi \times r^2)$  ( $\eta$ : Space impedance) →  $P = (E^2 \times 4 \times \pi \times r^2) / \eta$

Therefore, The correlation of power and the E-filed

Power drift limit (X) dB=10log(P\_drift) = 10log(E\_drift)^2=20log(E\_drift)

From the above mentioned, **the calculated power drift of DASY system must be the less than (±) 0.21dB.**

##### Step 6: Z-Scan

The Z Scan measures points along a vertical straight line. The line runs along the Z-axis of a one-dimensional grid. In order to get a reasonable extrapolation the extrapolated distance should not be larger than the step size in Z-direction.

\*. The all SAR tests were conservatively performed with test separation distance 0 mm. The phantom bottom thickness is approx. 2mm. Typical distance from probe tip to dipole centers is 1mm. The distance between the SAR probe tip to the surface of test device which is touched the bottom surface of the phantom is approx. 3 mm for 2.4GHz band and 2.4 mm for 5GHz band.

\*1. “Ratio step” method parameters used; the first measurement point: “1.4mm” from the phantom surface, the initial z grid separation: “1.4mm”, subsequent graded grid ratio: “1.4”. These parameters comply with the requirement of KDB 865664 D01 and recommended by Schmid & Partner Engineering AG (DASY5 manual).

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## SECTION 4: Operation of EUT during testing

### 4.1 Operating modes for SAR testing

This EUT has IEEE 802.11b, IEEE 802.11g, IEEE 802.11a, IEEE 802.11n(HT20) and IEEE 802.11n(HT40) continuous transmitting modes. The frequency and the modulation used in the SAR testing are shown as a following.

| Operation mode            | 802.11b           | 802.11g | 802.11n(20HT) | 802.11a | 802.11n(20HT) | 802.11n(40HT) | 802.11a      | 802.11n(20HT) | 802.11n(40HT) |
|---------------------------|-------------------|---------|---------------|---------|---------------|---------------|--------------|---------------|---------------|
| band                      | DTS (2.4GHz band) |         |               |         |               |               | U-NII-1 (*3) |               |               |
| Tx band [MHz]             | 2402~2462         |         |               |         |               |               | 5180~5240    |               |               |
| Antenna#                  | 1                 | 2       | 1             | 2       | 1             | 2             | 1            | 2             | 1             |
| Tune-up limit [dBm]       | 15                | 15      | 15            | 15      | 15            | 15            | 10           | 10            | 10            |
| SAR test considered. (*1) | Back              | ○       | ○             | ×       | ×             | ×             | ×            | ×             | ×             |
| Front                     | ○                 | ○       | ×             | ×       | ×             | ×             | ×            | ×             | ×             |
| Left (ant#1)              | ○*                | ×       | ○             | ×       | ×             | ×             | ○*           | ×             | ×             |
| Bottom (ant#2)            | ×                 | ○*      | ×             | ○       | ×             | ×             | ×            | ○*            | ×             |
| Right                     | ×                 | ×       | ×             | ×       | ×             | ×             | ×            | ×             | ×             |
| Top                       | ○                 | ×       | ×             | ×       | ×             | ×             | ×            | ×             | ×             |
| Frequency tested          | (*)2              | (*)2    | (*)2          | n/a     | n/a           | n/a           | (*)2         | (*)2          | (*)2          |
| Data rate [Mbps]          | 1                 | 1       | 6             | 6       | MCS0          | MCS0          | 6            | 6             | MCS0          |

| Operation mode            | 802.11a   | 802.11n(20HT) | 802.11n(40HT) | 802.11a   | 802.11n(20HT) | 802.11n(40HT) |
|---------------------------|-----------|---------------|---------------|-----------|---------------|---------------|
| band                      | U-NII-2C  |               |               | U-NII-3   |               |               |
| Tx band [MHz]             | 5500~5700 |               |               | 5745~5825 |               |               |
| Antenna#                  | 1         | 2             | 1             | 2         | 1             | 2             |
| Tune-up limit [dBm]       | 10        | 10            | 10            | 10        | 10            | 10            |
| SAR test considered. (*1) | Back      | ×             | ×             | ×         | ×             | ×             |
| Front                     | ×         | ×             | ×             | ×         | ×             | ×             |
| Left (ant#1)              | ○         | ×             | ×             | ×         | ×             | ×             |
| Bottom (ant#2)            | ×         | ○             | ×             | ×         | ×             | ×             |
| Right                     | ×         | ×             | ×             | ×         | ×             | ×             |
| Top                       | ×         | ×             | ×             | ×         | ×             | ×             |
| Frequency tested          | (*)2,3    | (*)2,3        | n/a           | (*)2,3    | (*)2,3        | n/a           |
| Data rate [Mbps]          | 6         | 6             | MCS0          | 6         | 6             | MCS0          |

| Controlled software    | Test name | Software name       | Version      | Released Date | Storage location                              |
|------------------------|-----------|---------------------|--------------|---------------|-----------------------------------------------|
| Power measurement, SAR |           | Panel Firmware      | V4.10R00.001 | 2021/6/8      | EUT memory (*: operated by connected host PC) |
|                        |           | Wlan Auth Tool (*4) | 1.3.0.2      | 2016/5/2      | Connected host PC                             |

\*. Antenna#: 1: Main / 2: Sub / 1+2: MIMO; n/a: not applied.

\*. (KDB 248227 D01) Initial SAR test was applied to the operation mode which has higher bandwidth with the highest tune-up power and lowest data rate (lowest modulation).

\*1. Marks on "SAR test considered" are "○": SAR test was applied. "×": SAR test can be reduced (refer to clause 4.3).

\*2. The tested frequencies refer to SAR test results in Section 6.

\*3. SAR test was also applied to lower and higher channel of each operation frequency band by 20 MHz channel bandwidth mode.

\*4. Setting parameters: the value of "Power" cell of software was adjusted so that measurement power might be satisfied within 2dB of the maximum power. (This power setting value might be different from product specification value. Any conditions under the normal use do not exceed the condition of setting. End user cannot change the power setting of product.)

#### \*. OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

(KDB 248227 D01, SAR Guidance for Wi-Fi Transmitters) The initial test configuration for 2.4 GHz and 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple channel bandwidth configurations in a frequency band have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected.

#### \*. SAR test reduction considerations

(KDB 447498 D01, General RF Exposure Guidance) Testing of other required channels within the operating mode of a frequency band is not required when the reported 1g or 10g SAR for the mid-band or highest output power channel is:

- ≤ 0.8 W/kg or 2.0 W/kg, for 1g or 10g respectively, when the transmission band is ≤ 100 MHz
- ≤ 0.6 W/kg or 1.5 W/kg, for 1g or 10g respectively, when the transmission band is between 100 MHz and 200 MHz
- ≤ 0.4 W/kg or 1.0 W/kg, for 1g or 10g respectively, when the transmission band is ≥ 200 MHz

The SAR has been measured with highest transmission duty factor supported by the test mode tool for WLAN and/or Bluetooth. When the transmission duty factor could not be 100%, the reported SAR will be scaled to 100% transmission duty factor to determine compliance. When SAR is not measured at the maximum power level allowed for production unit, the measured SAR will be scaled to the maximum tune-up tolerance limit to determine compliance.

(KDB 248227 D01, SAR Guidance for Wi-Fi Transmitters) When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until reported SAR is ≤ 1.2 W/kg or all required channels are tested.

For 2.4GHz band, the highest measured maximum output power channel of DSSS was selected for SAR measurement. When the reported SAR is ≤ 0.8 W/kg, no further SAR test is required in this exposure configuration. Otherwise, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel. For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

For 5GHz band, the initial test configuration was selected accordance to the transmission mode with the highest maximum output power. When the reported SAR is > 0.8 W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is ≤ 1.2 W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

For WLAN MIMO mode, the power-based standalone SAR test exclusion or the sum of SAR provision (and SPLSR calculation method) in KDB 447498 to determine simultaneous transmission SAR test exclusion should be applied. Otherwise, SAR for MIMO mode will be measured with all applicable antennas transmitting simultaneously at the specified maximum output power of MIMO operation.

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## 4.2 RF exposure conditions

Antenna separation distances in each test setup plan are shown as follows.

| Setup              | Explanation of EUT setup (*. Refer to Appendix 1 for test setup photographs.)              | Antenna<br>D [mm] | Main (#1)<br>D [mm] | Sub (#2)<br>D [mm] |
|--------------------|--------------------------------------------------------------------------------------------|-------------------|---------------------|--------------------|
| Left (Ant#1)       | The left side surface (antenna #1 (Main) existed) of EUT was touched to the Flat phantom.  |                   | 1.8                 | 310                |
| Bottom (Ant#2)     | The bottom side surface (antenna #2 (Sub) existed) of EUT was touched to the Flat phantom. |                   | 390.5               | 1.8                |
| Rear               | The rear (back) surface of EUT was touched to the Flat phantom.                            |                   | 2.4                 | 2.4                |
| Front              | The front surface of EUT was touched to the Flat phantom.                                  |                   | 3.7                 | 3.7                |
| Top (no antenna)   | The top side surface (no antenna) of EUT was touched to the Flat phantom.                  |                   | 27.5                | ≈458               |
| Right (no antenna) | The right side surface (no antenna) of EUT was touched to the Flat phantom.                |                   | ≈382                | 32                 |

- \*. D: Antenna separation distance. It is the distance from an antenna to the outer surface of the EUT which human may touch.; Ant: Antenna.  
\*. Details of “antenna separation distance” and “Size of EUT” are shown in Appendix 1-1.

## 4.3 SAR test exclusion considerations accordance to KDB 447498 D01

The following is based on KDB447498D01.

Step 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max.power of channel, including tune-up tolerance, mW}) / (\text{min.test separation distance, mm})] \times [\sqrt{f} (\text{GHz})] \leq 3.0 (\text{for SAR(1g)}), 7.5 (\text{for SAR(10g)}) \quad \text{formula (1)}$$

If power is calculated from the upper formula (1);

$$[\text{SAR(1g) test exclusion thresholds, mW}] = 3 \times [\text{test separation distance, mm}] / [\sqrt{f} (\text{GHz})] \quad \text{formula (2)}$$

- The upper frequency of the frequency band was used in order to calculate standalone SAR test exclusion considerations.
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

**When the calculated threshold value by a numerical formula above-mentioned in the following table is 3.0 or less (SAR(1g)), SAR test can be excluded.**

Step 2) At 1500 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following,

$$[\text{test exclusion thresholds, mW}] = [(\text{Power allowed at numeric threshold for 50mm in formula (1)}) + ((\text{test separation distance, mm}) - (50\text{mm})) \times 10] \quad \text{formula (3)}$$

- The upper frequency of the frequency band was used in order to calculate standalone SAR test exclusion considerations.
- Power and distance are rounded to the nearest mW and mm before calculation

When output power is less than the calculated threshold value by a numerical formula above-mentioned in the following table, SAR test is excluded.

[SAR exclusion calculations for step 1) antenna ≤ 50mm from the user, and for step 2) antenna > 50mm from the user.]

| Antenna #:                   |      | Calculated threshold value |                     |                |                                                                                                                                                                                                                                       |                  |             |            |            |                   |             |                        |                                                                                                                         |
|------------------------------|------|----------------------------|---------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|------------|------------|-------------------|-------------|------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Setup:                       |      | Antenna #1 (Main)          |                     |                |                                                                                                                                                                                                                                       | Antenna #2 (Sub) |             |            |            | Antenna #1 (Main) |             | Antenna #2 (Sub)       |                                                                                                                         |
| Antenna separation distance: |      | Left                       | Rear                | Front          | Top                                                                                                                                                                                                                                   | Bottom           | Rear        | Front      | Right      | Right             | Bottom      | Left                   | Top                                                                                                                     |
| Mode (SISO)                  |      | Upper Freq. [MHz]          | Tune-up limit [dBm] | Conducted [mW] | Step 1) SAR exclusion calculations for antenna ≤ 50mm from the user.<br>Judge: Marked with “Exempt” is SAR test is reduced, when value is ≤ 3.0 (SAR(1g)),<br>Mark with “Test” is SAR test is required, when value is > 3.0 (SAR(1g)) |                  |             |            |            |                   |             |                        | Step 2) > 50mm from the user<br>Judge: “Exempt” when Tune-up limit power is less than calculated threshold power value. |
| b,g,n20                      | 2462 | 15                         | 32                  | 10.0, Test     | 10.0, Test                                                                                                                                                                                                                            | 10.0, Test       | 1.8, Exempt | 10.0, Test | 10.0, Test | 10.0, Test        | 1.6, Exempt | Exempt, 2.6 W (@300mm) |                                                                                                                         |
| a,n20                        | 5240 | 10                         | 10                  | 4.6, Test      | 4.6, Test                                                                                                                                                                                                                             | 4.6, Test        | 0.8, Exempt | 4.6, Test  | 4.6, Test  | 4.6, Test         | 0.7, Exempt | Exempt, 2.6 W (@300mm) |                                                                                                                         |
| n40                          | 5230 | 10                         | 10                  | 4.6, Test      | 4.6, Test                                                                                                                                                                                                                             | 4.6, Test        | 0.8, Exempt | 4.6, Test  | 4.6, Test  | 4.6, Test         | 0.7, Exempt | Exempt, 2.6 W (@300mm) |                                                                                                                         |
| a,n20                        | 5320 | 10                         | 10                  | 4.6, Test      | 4.6, Test                                                                                                                                                                                                                             | 4.6, Test        | 0.8, Exempt | 4.6, Test  | 4.6, Test  | 4.6, Test         | 0.7, Exempt | Exempt, 2.6 W (@300mm) |                                                                                                                         |
| n40                          | 5270 | 10                         | 10                  | 4.6, Test      | 4.6, Test                                                                                                                                                                                                                             | 4.6, Test        | 0.8, Exempt | 4.6, Test  | 4.6, Test  | 4.6, Test         | 0.7, Exempt | Exempt, 2.6 W (@300mm) |                                                                                                                         |
| a,n20                        | 5700 | 10                         | 10                  | 4.8, Test      | 4.8, Test                                                                                                                                                                                                                             | 4.8, Test        | 0.9, Exempt | 4.8, Test  | 4.8, Test  | 4.8, Test         | 0.7, Exempt | Exempt, 2.6 W (@300mm) |                                                                                                                         |
| n40                          | 5670 | 10                         | 10                  | 4.8, Test      | 4.8, Test                                                                                                                                                                                                                             | 4.8, Test        | 0.9, Exempt | 4.8, Test  | 4.8, Test  | 4.8, Test         | 0.7, Exempt | Exempt, 2.6 W (@300mm) |                                                                                                                         |
| a,n20                        | 5825 | 10                         | 10                  | 4.8, Test      | 4.8, Test                                                                                                                                                                                                                             | 4.8, Test        | 0.9, Exempt | 4.8, Test  | 4.8, Test  | 4.8, Test         | 0.8, Exempt | Exempt, 2.6 W (@300mm) |                                                                                                                         |
| n40                          | 5795 | 10                         | 10                  | 4.8, Test      | 4.8, Test                                                                                                                                                                                                                             | 4.8, Test        | 0.9, Exempt | 4.8, Test  | 4.8, Test  | 4.8, Test         | 0.8, Exempt | Exempt, 2.6 W (@300mm) |                                                                                                                         |

\*. Freq: Frequency, (mode); b: IEEE 802.11b, g: IEEE 802.11g, a: IEEE 802.11a, n20: IEEE 802.11n(20HT), n40: IEEE 802.11n(40HT).

Notes: 1. Power and distance are rounded to the nearest mW and mm before calculation.

By the determined test setup shown above, the SAR test was applied in the following procedures.

|                    |                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -                  | *. The all SAR tests were conservatively performed with test separation distance 0mm.                                                                                                                                                                                                                                                                                                                       |
| Step 1             | On 2.4GHz band, worst SAR search by DSSS mode with a maximum measured output power channel. Add SAR test for another channel (including lower, middle, upper), if it is required.<br>Add SAR test for OFDM mode, if it is required.                                                                                                                                                                         |
| Step 2<br>~ Step 4 | On U-NII-2A band (and U-NII-1 band, if it is required) band, worst SAR search by largest channel bandwidth mode with a maximum measured output power channel. Add SAR test for another channel (including lower, middle, upper), if it is required.<br>Add test for another bandwidth mode, if it is required.<br>Repeat same test procedure in above for U-NII-2C band (step 3) and U-NII-3 band (step 4). |

\*. During SAR test, the radiated power is always monitored by Spectrum Analyzer.

## SECTION 5: Confirmation before testing

### 5.1 SAR reference power measurement (antenna terminal conducted average power of EUT)

| Mode     | Frequency |     | Data rate | Power spec. on each antenna |       | Duty cycle |               | Antenna power: Main (#1) (Chain 0) |            |        |                |           | Antenna power: Sub (#2) (Chain 1) |            |        |                |           | MIMO power (Ant.#1+Ant.#2) |           |                |        |               | Adjusted power setting? (*1) |       |
|----------|-----------|-----|-----------|-----------------------------|-------|------------|---------------|------------------------------------|------------|--------|----------------|-----------|-----------------------------------|------------|--------|----------------|-----------|----------------------------|-----------|----------------|--------|---------------|------------------------------|-------|
|          |           |     |           | Typical                     | Max.  | duty cycle | scaled factor | Set pwr.                           | Burst Ave. | Δ Max. | Tune-up factor | Time Ave. | Set pwr.                          | Burst Ave. | Δ Max. | Tune-up factor | Time Ave. | MIMO target                | MIMO max. | SUM Burst Ave. | Δ Max. | SUM Time Ave. | Ant#1                        | Ant#2 |
|          | [MHz]     | CH  | [Mbps]    | [dBm]                       | [dBm] | [%]        | [-]           | [-]                                | [dBm]      | [dB]   | [-]            | [dBm]     | [-]                               | [dBm]      | [dB]   | [-]            | [dBm]     | [dBm]                      | [dBm]     | [dBm]          | [dB]   | [dBm]         |                              |       |
| b        | 2412      | 1   | 1         | 12.5                        | 15.0  | 99.7       | 1.00          | 13                                 | 13.87      | -1.13  | 1.30           | 13.86     | 13                                | 13.95      | -1.05  | 1.27           | 13.94     |                            |           |                |        |               | No                           | No    |
|          | 2437      | 6   | 1         | 12.5                        | 15.0  | 99.7       | 1.00          | 13                                 | 13.14      | -1.86  | 1.53           | 13.13     | 13                                | 13.47      | -1.53  | 1.42           | 13.46     |                            |           |                |        |               | No                           | No    |
|          | 2462      | 11  | 1         | 12.5                        | 15.0  | 99.7       | 1.00          | 13                                 | 13.52      | -1.48  | 1.41           | 13.51     | 13                                | 13.45      | -1.55  | 1.43           | 13.44     |                            |           |                |        |               | No                           | No    |
| g        | 2412      | 1   | 6         | 7.5                         | 10.0  | 97.4       | 1.03          | 8                                  | 8.97       | -1.03  | 1.27           | 8.86      | 8                                 | 9.04       | -0.96  | 1.25           | 8.93      |                            |           |                |        |               | No                           | No    |
|          | 2427      | 4   | 6         | 12.5                        | 15.0  | 97.4       | 1.03          | 14                                 | 13.91      | -1.09  | 1.29           | 13.80     | 14                                | 14.48      | -0.52  | 1.13           | 14.37     |                            |           |                |        |               | Yes                          | Yes   |
|          | 2437      | 6   | 6         | 12.5                        | 15.0  | 97.4       | 1.03          | 14                                 | 13.77      | -1.23  | 1.33           | 13.66     | 14                                | 14.23      | -0.77  | 1.19           | 14.12     |                            |           |                |        |               | Yes                          | Yes   |
|          | 2447      | 8   | 6         | 12.5                        | 15.0  | 97.4       | 1.03          | 14                                 | 13.95      | -1.05  | 1.27           | 13.84     | 14                                | 13.93      | -1.07  | 1.28           | 13.82     |                            |           |                |        |               | Yes                          | Yes   |
|          | 2462      | 11  | 6         | 9.0                         | 11.5  | 97.4       | 1.03          | 10                                 | 10.41      | -1.09  | 1.29           | 10.30     | 10                                | 10.55      | -0.95  | 1.24           | 10.44     |                            |           |                |        |               | Yes                          | Yes   |
| n20 SISO | 2412      | 1   | MCS0      | 5.5                         | 8.0   | 97.1       | 1.03          | 6                                  | 6.25       | -1.75  | 1.50           | 6.13      | 6                                 | 7.15       | -0.85  | 1.22           | 7.03      |                            |           |                |        |               | No                           | No    |
|          | 2427      | 4   | MCS0      | 12.5                        | 15.0  | 97.1       | 1.03          | 14                                 | 13.86      | -1.14  | 1.30           | 13.74     | 14                                | 14.34      | -0.66  | 1.16           | 14.22     |                            |           |                |        |               | Yes                          | Yes   |
|          | 2437      | 6   | MCS0      | 12.5                        | 15.0  | 97.1       | 1.03          | 14                                 | 13.68      | -1.32  | 1.36           | 13.56     | 14                                | 14.12      | -0.88  | 1.22           | 14.00     |                            |           |                |        |               | Yes                          | Yes   |
|          | 2447      | 8   | MCS0      | 12.5                        | 15.0  | 97.1       | 1.03          | 14                                 | 13.79      | -1.21  | 1.32           | 13.67     | 14                                | 13.83      | -1.17  | 1.31           | 13.71     |                            |           |                |        |               | Yes                          | Yes   |
|          | 2462      | 11  | MCS0      | 6.0                         | 8.5   | 97.1       | 1.03          | 7                                  | 6.90       | -1.60  | 1.45           | 6.78      | 7                                 | 7.43       | -1.07  | 1.28           | 7.31      |                            |           |                |        |               | Yes                          | Yes   |
| n20 MIMO | 2412      | 1   | MCS8      | 5.5                         | 8.0   | 94.7       | 1.06          | 6                                  | 6.92       | -1.08  | 1.28           | 6.68      |                                   | 7.21       | -0.79  | 1.20           | 6.97      | 8.5                        | 11.0      | 10.08          | -0.92  | 9.84          | No                           | -     |
|          | 2427      | 4   | MCS8      | 12.5                        | 15.0  | 94.7       | 1.06          | 14                                 | 13.91      | -1.09  | 1.29           | 13.67     |                                   | 14.54      | -0.46  | 1.11           | 14.30     | 15.5                       | 18.0      | 17.25          | -0.75  | 17.01         | Yes                          | -     |
|          | 2437      | 6   | MCS8      | 12.5                        | 15.0  | 94.7       | 1.06          | 14                                 | 13.57      | -1.43  | 1.39           | 13.33     |                                   | 14.05      | -0.95  | 1.24           | 13.81     | 15.5                       | 18.0      | 16.83          | -1.17  | 16.59         | Yes                          | -     |
|          | 2447      | 8   | MCS8      | 12.5                        | 15.0  | 94.7       | 1.06          | 14                                 | 13.74      | -1.26  | 1.34           | 13.50     |                                   | 13.80      | -1.20  | 1.32           | 13.56     | 15.5                       | 18.0      | 16.78          | -1.22  | 16.54         | Yes                          | -     |
|          | 2462      | 11  | MCS8      | 6.0                         | 8.5   | 94.7       | 1.06          | 7                                  | 7.45       | -1.05  | 1.27           | 7.21      |                                   | 7.47       | -1.03  | 1.27           | 7.23      | 9.0                        | 11.5      | 10.47          | -1.03  | 10.23         | Yes                          | -     |
| a        | 5180      | 36  | 6         | 7.5                         | 10.0  | 98.4       | 1.02          | 9                                  | 9.58       | -0.42  | 1.10           | 9.51      | 9                                 | 9.96       | -0.04  | 1.01           | 9.89      |                            |           |                |        |               | Yes                          | Yes   |
|          | 5200      | 40  | 6         | 7.5                         | 10.0  | 98.4       | 1.02          | 9                                  | 9.12       | -0.88  | 1.22           | 9.05      | 9                                 | 9.36       | -0.64  | 1.16           | 9.29      |                            |           |                |        |               | Yes                          | Yes   |
|          | 5220      | 44  | 6         | 7.5                         | 10.0  | 98.4       | 1.02          | 9                                  | 9.26       | -0.74  | 1.19           | 9.19      | 9                                 | 9.47       | -0.53  | 1.13           | 9.40      |                            |           |                |        |               | Yes                          | Yes   |
|          | 5240      | 48  | 6         | 7.5                         | 10.0  | 98.4       | 1.02          | 9                                  | 8.29       | -1.71  | 1.48           | 8.22      | 9                                 | 8.38       | -1.62  | 1.45           | 8.31      |                            |           |                |        |               | Yes                          | Yes   |
|          | 5260      | 52  | 6         | 7.5                         | 10.0  | 98.4       | 1.02          | 9                                  | 9.28       | -0.72  | 1.18           | 9.21      | 10                                | 9.10       | -0.90  | 1.23           | 9.03      |                            |           |                |        |               | Yes                          | Yes   |
|          | 5280      | 56  | 6         | 7.5                         | 10.0  | 98.4       | 1.02          | 9                                  | 8.33       | -1.67  | 1.47           | 8.26      | 10                                | 8.35       | -1.65  | 1.46           | 8.28      |                            |           |                |        |               | Yes                          | Yes   |
|          | 5300      | 60  | 6         | 7.5                         | 10.0  | 98.4       | 1.02          | 9                                  | 8.12       | -1.88  | 1.54           | 8.05      | 10                                | 8.35       | -1.65  | 1.46           | 8.28      |                            |           |                |        |               | Yes                          | Yes   |
|          | 5320      | 64  | 6         | 7.5                         | 10.0  | 98.4       | 1.02          | 9                                  | 8.39       | -1.61  | 1.45           | 8.32      | 10                                | 8.28       | -1.72  | 1.49           | 8.21      |                            |           |                |        |               | Yes                          | Yes   |
|          | 5500      | 100 | 6         | 7.5                         | 10.0  | 98.4       | 1.02          | 8                                  | 8.44       | -1.56  | 1.43           | 8.37      | 9                                 | 9.47       | -0.53  | 1.13           | 9.40      |                            |           |                |        |               | No                           | Yes   |
|          | 5580      | 116 | 6         | 7.5                         | 10.0  | 98.4       | 1.02          | 8                                  | 8.92       | -1.08  | 1.28           | 8.85      | 9                                 | 8.64       | -1.36  | 1.37           | 8.57      |                            |           |                |        |               | No                           | Yes   |
|          | 5700      | 140 | 6         | 7.5                         | 10.0  | 98.4       | 1.02          | 8                                  | 9.41       | -0.59  | 1.15           | 9.34      | 9                                 | 8.79       | -1.21  | 1.32           | 8.72      |                            |           |                |        |               | No                           | Yes   |
|          | 5745      | 149 | 6         | 7.5                         | 10.0  | 98.4       | 1.02          | 8                                  | 9.08       | -0.92  | 1.24           | 9.01      | 9                                 | 8.87       | -1.13  | 1.30           | 8.80      |                            |           |                |        |               | No                           | Yes   |
|          | 5785      | 157 | 6         | 7.5                         | 10.0  | 98.4       | 1.02          | 8                                  | 8.96       | -1.04  | 1.27           | 8.89      | 9                                 | 8.52       | -1.48  | 1.41           | 8.45      |                            |           |                |        |               | No                           | Yes   |
|          | 5825      | 165 | 6         | 7.5                         | 10.0  | 98.4       | 1.02          | 8                                  | 8.60       | -1.40  | 1.38           | 8.53      | 9                                 | 8.13       | -0.87  | 1.22           | 8.06      |                            |           |                |        |               | No                           | Yes   |
| n20 SISO | 5180      | 36  | MCS0      | 7.5                         | 10.0  | 98.4       | 1.02          | 8                                  | 9.54       | -0.46  | 1.11           | 9.47      | 9                                 | 9.49       | -0.51  | 1.12           | 9.42      |                            |           |                |        |               | No                           | Yes   |
|          | 5200      | 40  | MCS0      | 7.5                         | 10.0  | 98.4       | 1.02          | 8                                  | 8.95       | -1.05  | 1.27           | 8.88      | 9                                 | 8.80       | -1.20  | 1.32           | 8.73      |                            |           |                |        |               | No                           | Yes   |
|          | 5220      | 44  | MCS0      | 7.5                         | 10.0  | 98.4       | 1.02          | 8                                  | 8.59       | -1.41  | 1.38           | 8.52      | 9                                 | 8.93       | -1.07  | 1.28           | 8.86      |                            |           |                |        |               | No                           | Yes   |
|          | 5240      | 48  | MCS0      | 7.5                         | 10.0  | 98.4       | 1.02          | 8                                  | 8.07       | -1.93  | 1.56           | 8.00      | 9                                 | 8.01       | -1.99  | 1.58           | 7.94      |                            |           |                |        |               | No                           | Yes   |
|          | 5260      | 52  | MCS0      | 7.5                         | 10.0  | 98.4       | 1.02          | 9                                  | 9.43       | -0.57  | 1.14           | 9.36      | 10                                | 8.96       | -1.04  | 1.27           | 8.89      |                            |           |                |        |               | Yes                          | Yes   |
|          | 5280      | 56  | MCS0      | 7.5                         | 10.0  | 98.4       | 1.02          | 9                                  | 8.78       | -1.22  | 1.32           | 8.71      | 10                                | 8.22       | -1.78  | 1.51           | 8.15      |                            |           |                |        |               | Yes                          | Yes   |
|          | 5300      | 60  | MCS0      | 7.5                         | 10.0  | 98.4       | 1.02          | 9                                  | 8.01       | -1.99  | 1.58           | 7.94      | 10                                | 8.27       | -1.73  | 1.49           | 8.20      |                            |           |                |        |               | Yes                          | Yes   |
|          | 5320      | 64  | MCS0      | 7.5                         | 10.0  | 98.4       | 1.02          | 9                                  | 8.10       | -1.90  | 1.55           | 8.03      | 10                                | 8.20       | -1.80  | 1.51           | 8.13      |                            |           |                |        |               | Yes                          | Yes   |
|          | 5500      | 100 | MCS0      | 7.5                         | 10.0  | 98.4       | 1.02          | 8                                  | 9.03       | -0.97  | 1.25           | 8.96      | 9                                 | 9.35       | -0.65  | 1.16           | 9.28      |                            |           |                |        |               | No                           | Yes   |
|          | 5580      | 116 | MCS0      | 7.5                         | 10.0  | 98.4       | 1.02          | 8                                  | 8.69       | -1.31  | 1.35           | 8.62      | 9                                 | 8.48       | -1.52  | 1.42           | 8.41      |                            |           |                |        |               | No                           | Yes   |
|          | 5700      | 140 | MCS0      | 7.5                         | 10.0  | 98.4       | 1.02          | 8                                  | 9.08       | -0.92  | 1.24           | 9.01      | 9                                 | 8.80       | -1.20  | 1.32           | 8.73      |                            |           |                |        |               | No                           | Yes   |
|          | 5745      | 149 | MCS0      | 7.5                         | 10.0  | 98.4       | 1.02          | 8                                  | 8.99       | -1.01  | 1.26           | 8.92      | 9                                 | 8.46       | -1.54  | 1.43           | 8.39      |                            |           |                |        |               | No                           | Yes   |
|          | 5785      | 157 | MCS0      | 7.5                         | 10.0  | 98.4       | 1.02          | 8                                  | 8.83       | -1.17  | 1.31           | 8.76      | 9                                 | 8.42       | -1.58  | 1.44           | 8.35      |                            |           |                |        |               | No                           | Yes   |
|          | 5825      | 165 | MCS0      | 7.5                         | 10.0  | 98.4       | 1.02          | 8                                  | 8.29       | -1.71  | 1.48           | 8.22      | 9                                 | 8.79       | -1.21  | 1.32           | 8.72      |                            |           |                |        |               | No                           | Yes   |
| n40 SISO | 5190      | 38  | MCS0      | 7.0                         | 9.5   | 98.4       | 1.03          | 8                                  | 7.90       | -1.60  | 1.45           | 7.75      | 8                                 | 7.90       | -1.60  | 1.45           | 7.75      |                            |           |                |        |               | Yes                          | Yes   |
|          | 5230      | 46  | MCS0      | 7.5                         | 10.0  | 98.4       | 1.03          | 9                                  | 9.64       | -0.36  | 1.09           | 9.49      | 9                                 | 8.24       | -1.76  | 1.50           | 8.09      |                            |           |                |        |               | Yes                          | Yes   |
|          | 5270      | 54  | MCS0      | 7.5                         | 10.0  | 96.7       | 1.03          | 9                                  | 8.34       | -1.66  | 1.47           | 8.19      | 10                                | 8.68       | -1.32  | 1.36           | 8.53      |                            |           |                |        |               | Yes                          | Yes   |
|          | 5310      | 62  | MCS0      | 7.5                         | 10.0  | 96.7       | 1.03          | 9                                  | 8.55       | -1.45  | 1.40           | 8.40      | 10                                | 8.24       | -1.76  | 1.50           | 8.09      |                            |           |                |        |               | Yes                          | Yes   |
|          | 5510      | 102 | MCS0      | 7.5                         | 10.0  | 96.7       | 1.03          | 8                                  | 8.13       | -1.87  | 1.54           | 7.98      | 9                                 | 9.78       | -0.22  | 1.05           | 9.63      |                            |           |                |        |               | No                           | Yes   |
|          | 5550      | 110 | MCS0      | 7.5                         | 10.0  | 96.7       | 1.03          | 8                                  | 8.42       | -1.58  | 1.44           | 8.27      | 9                                 | 8.79       | -1.21  | 1.32           | 8.64      |                            |           |                |        |               | No                           | Yes   |
|          | 5670      | 134 | MCS0      | 7.5                         | 10.0  | 96.7       | 1.03          | 8                                  | 9.07       | -0.93  | 1.24           | 8.92      | 9                                 | 9.35       | -0.65  | 1.16           | 9.20      |                            |           |                |        |               | No                           | Yes   |
|          | 5755      | 151 | MCS0      | 7.5                         | 10.0  | 96.7       | 1.03          | 8                                  | 9.17       | -0.83  | 1.21           | 9.02      | 9                                 | 8.43       | -1.57  | 1.44           | 8.28      |                            |           |                |        |               | No                           | Yes   |
|          | 5795      | 159 | MCS0      | 7.5                         | 10.0  | 96.7       | 1.03          | 8                                  | 8.77       | -1.23  | 1.33           | 8.62      | 9                                 | 8.71       | -1.29  | 1.35           | 8.56      |                            |           |                |        |               | No                           | Yes   |

\*. ☐: SAR test was applied.

\*. CH: Channel; Power spec.: Power specification; Max.: Maximum; Set pwr.: Setting power by tested software; Burst Ave.: Measured burst average power; Time Ave.: Measured time-based average power; SUM Ave.: Sum of antenna 1 power and antenna 2 power; n/a: Not applied/Not applicable; (mode) b: IEEE 802.11b, g; IEEE 802.11g, n20: IEEE 802.11n(20HT), n40: IEEE 802.11n(40HT).

\*1. "Yes": The power setting was adjusted so that measured average power was not more than 2 dB lower than the maximum tune-up tolerance limit.

(cont'd)

| Mode     | Frequency |     | Data rate | Power spec. on each antenna |       | Duty cycle |               | Antenna power: Main (#1) (Chain 0) |            |        |                |           | Antenna power: Sub (#2) (Chain 1) |            |        |                |           | MIMO power (Ant.#1+Ant.#2) |           |                |        |               | Adjusted power setting? (*1) |  |
|----------|-----------|-----|-----------|-----------------------------|-------|------------|---------------|------------------------------------|------------|--------|----------------|-----------|-----------------------------------|------------|--------|----------------|-----------|----------------------------|-----------|----------------|--------|---------------|------------------------------|--|
|          |           |     |           | Typical                     | Max.  | duty cycle | scaled factor | Set pwr.                           | Burst Ave. | Δ Max. | Tune-up factor | Time Ave. | Set pwr.                          | Burst Ave. | Δ Max. | Tune-up factor | Time Ave. | MIMO target                | MIMO max. | SUM Burst Ave. | Δ Max. | SUM Time Ave. |                              |  |
|          | [MHz]     | CH  | [Mbps]    | [dBm]                       | [dBm] | [%]        | [-]           | [-]                                | [dBm]      | [dB]   | [-]            | [dBm]     | [-]                               | [dBm]      | [dB]   | [-]            | [dBm]     | [dBm]                      | [dBm]     | [dB]           | [dBm]  | Ant#1         | Ant#2                        |  |
| n20 MIMO | 5180      | 36  | MCS8      | 7.5                         | 10.0  | 97.1       | 1.03          | 8                                  | 9.16       | -0.84  | 1.21           | 9.03      | 8.95                              | -1.05      | 1.27   | 8.82           | 10.5      | 13.0                       | 12.07     | -0.93          | 11.94  | No            | -                            |  |
|          | 5200      | 40  | MCS8      | 7.5                         | 10.0  | 97.1       | 1.03          | 8                                  | 8.97       | -1.03  | 1.27           | 8.84      | 8.41                              | -1.59      | 1.44   | 8.28           | 10.5      | 13.0                       | 11.71     | -1.29          | 11.58  | No            | -                            |  |
|          | 5220      | 44  | MCS8      | 7.5                         | 10.0  | 97.1       | 1.03          | 8                                  | 8.69       | -1.31  | 1.35           | 8.56      | 8.27                              | -1.73      | 1.49   | 8.14           | 10.5      | 13.0                       | 11.50     | -1.50          | 11.37  | No            | -                            |  |
|          | 5240      | 48  | MCS8      | 7.5                         | 10.0  | 97.1       | 1.03          | 9                                  | 9.08       | -0.92  | 1.24           | 8.95      | 8.69                              | -1.31      | 1.35   | 8.56           | 10.5      | 13.0                       | 11.90     | -1.10          | 11.77  | Yes           | -                            |  |
|          | 5260      | 52  | MCS8      | 7.5                         | 10.0  | 97.1       | 1.03          | 9                                  | 9.38       | -0.62  | 1.15           | 9.25      | 8.62                              | -1.38      | 1.37   | 8.49           | 10.5      | 13.0                       | 12.03     | -0.97          | 11.90  | Yes           | -                            |  |
|          | 5280      | 56  | MCS8      | 7.5                         | 10.0  | 97.1       | 1.03          | 9                                  | 8.67       | -1.33  | 1.36           | 8.54      | 8.18                              | -1.82      | 1.52   | 8.05           | 10.5      | 13.0                       | 11.44     | -1.56          | 11.31  | Yes           | -                            |  |
|          | 5300      | 60  | MCS8      | 7.5                         | 10.0  | 97.1       | 1.03          | 9                                  | 8.28       | -1.72  | 1.49           | 8.15      | 8.36                              | -1.64      | 1.46   | 8.23           | 10.5      | 13.0                       | 11.33     | -1.67          | 11.20  | Yes           | -                            |  |
|          | 5320      | 64  | MCS8      | 7.5                         | 10.0  | 97.1       | 1.03          | 9                                  | 8.22       | -1.78  | 1.51           | 8.09      | 8.36                              | -1.64      | 1.46   | 8.23           | 10.5      | 13.0                       | 11.30     | -1.70          | 11.17  | Yes           | -                            |  |
|          | 5500      | 100 | MCS8      | 7.5                         | 10.0  | 97.1       | 1.03          | 9                                  | 9.41       | -0.59  | 1.15           | 9.28      | 9.72                              | -0.28      | 1.07   | 9.59           | 10.5      | 13.0                       | 12.58     | -0.42          | 12.45  | Yes           | -                            |  |
|          | 5580      | 116 | MCS8      | 7.5                         | 10.0  | 97.1       | 1.03          | 9                                  | 8.96       | -1.04  | 1.27           | 8.83      | 8.69                              | -1.31      | 1.35   | 8.56           | 10.5      | 13.0                       | 11.84     | -1.16          | 11.71  | Yes           | -                            |  |
|          | 5700      | 140 | MCS8      | 7.5                         | 10.0  | 97.1       | 1.03          | 9                                  | 9.21       | -0.79  | 1.20           | 9.08      | 9.56                              | -0.44      | 1.11   | 9.43           | 10.5      | 13.0                       | 12.40     | -0.60          | 12.27  | Yes           | -                            |  |
|          | 5745      | 149 | MCS8      | 7.5                         | 10.0  | 97.1       | 1.03          | 9                                  | 9.12       | -0.88  | 1.22           | 8.99      | 8.98                              | -1.02      | 1.26   | 8.85           | 10.5      | 13.0                       | 12.06     | -0.94          | 11.93  | Yes           | -                            |  |
|          | 5785      | 157 | MCS8      | 7.5                         | 10.0  | 97.1       | 1.03          | 9                                  | 9.16       | -0.84  | 1.21           | 9.03      | 8.77                              | -1.23      | 1.33   | 8.64           | 10.5      | 13.0                       | 11.98     | -1.02          | 11.85  | Yes           | -                            |  |
|          | 5825      | 165 | MCS8      | 7.5                         | 10.0  | 97.1       | 1.03          | 9                                  | 9.37       | -0.63  | 1.16           | 9.24      | 9.46                              | -0.54      | 1.13   | 9.33           | 10.5      | 13.0                       | 12.43     | -0.57          | 12.30  | Yes           | -                            |  |
| n40 MIMO | 5190      | 38  | MCS8      | 7.0                         | 9.5   | 93.7       | 1.07          | 7                                  | 8.67       | -0.83  | 1.21           | 8.39      | 8.24                              | -1.26      | 1.34   | 7.96           | 10.0      | 12.5                       | 11.47     | -1.03          | 11.19  | No            | -                            |  |
|          | 5230      | 46  | MCS8      | 7.5                         | 10.0  | 93.7       | 1.07          | 8                                  | 9.07       | -0.93  | 1.24           | 8.79      | 8.30                              | -1.70      | 1.48   | 8.02           | 10.5      | 13.0                       | 11.71     | -1.29          | 11.43  | No            | -                            |  |
|          | 5270      | 54  | MCS8      | 7.5                         | 10.0  | 93.7       | 1.07          | 9                                  | 9.08       | -0.92  | 1.24           | 8.80      | 8.55                              | -1.45      | 1.40   | 8.27           | 10.5      | 13.0                       | 11.83     | -1.17          | 11.55  | Yes           | -                            |  |
|          | 5310      | 62  | MCS8      | 7.5                         | 10.0  | 93.7       | 1.07          | 9                                  | 8.44       | -1.56  | 1.43           | 8.16      | 8.23                              | -1.77      | 1.50   | 7.95           | 10.5      | 13.0                       | 11.34     | -1.66          | 11.06  | Yes           | -                            |  |
|          | 5510      | 102 | MCS8      | 7.5                         | 10.0  | 93.7       | 1.07          | 8                                  | 8.45       | -1.55  | 1.43           | 8.17      | 9.11                              | -0.89      | 1.23   | 8.83           | 10.5      | 13.0                       | 11.80     | -1.20          | 11.52  | No            | -                            |  |
|          | 5550      | 110 | MCS8      | 7.5                         | 10.0  | 93.7       | 1.07          | 8                                  | 8.80       | -1.20  | 1.32           | 8.52      | 8.64                              | -1.36      | 1.37   | 8.36           | 10.5      | 13.0                       | 11.73     | -1.27          | 11.45  | No            | -                            |  |
|          | 5670      | 134 | MCS8      | 7.5                         | 10.0  | 93.7       | 1.07          | 8                                  | 8.75       | -1.25  | 1.33           | 8.47      | 8.87                              | -1.13      | 1.30   | 8.59           | 10.5      | 13.0                       | 11.82     | -1.18          | 11.54  | No            | -                            |  |
|          | 5755      | 151 | MCS8      | 7.5                         | 10.0  | 93.7       | 1.07          | 8                                  | 8.67       | -1.33  | 1.36           | 8.39      | 7.67                              | -2.33      | 1.71   | 7.39           | 10.5      | 13.0                       | 11.21     | -1.79          | 10.93  | No            | -                            |  |
|          | 5795      | 159 | MCS8      | 7.5                         | 10.0  | 93.7       | 1.07          | 8                                  | 8.40       | -1.60  | 1.45           | 8.12      | 8.13                              | -1.87      | 1.54   | 7.85           | 10.5      | 13.0                       | 11.28     | -1.72          | 11.00  | No            | -                            |  |

\*.  : SAR test was applied.

\*. CH: Channel; Power spec.: Power specification; Max.: Maximum; Set pwr.: Setting power by tested software; Burst Ave.: Measured burst average power; Time Ave.: Measured time-based average power; SUM Ave.: Sum of antenna 1 power and antenna 2 power; n/a: Not applied/Not applicable; (mode) b: IEEE 802.11b, g; IEEE 802.11g, n20: IEEE 802.11n(20HT), n40: IEEE 802.11n(40HT).

\*1. "Yes": The power setting was adjusted so that measured average power was not more than 2 dB lower than the maximum tune-up tolerance limit.

\*. Calculating formula:

Burst power (dBm) = (P/M Reading, dBm)+(Cable loss, dB)+(Attenuator, dB)+(duty factor, dB), where Duty factor (dBm) =  $10 \times \log(100/(\text{duty cycle, \%}))$

Time-average power (dBm) = (P/M Reading, dBm)+(Cable loss, dB)+(Attenuator, dB)

Duty cycle: (duty cycle, %) = (Tx on time, ms) / (1 cycle time, ms) × 100,

Duty cycle scaled factor: Duty cycle correction factor for obtained final reported SAR value, Duty scaled factor [-] =  $100(\%) / (\text{duty cycle, \%})$

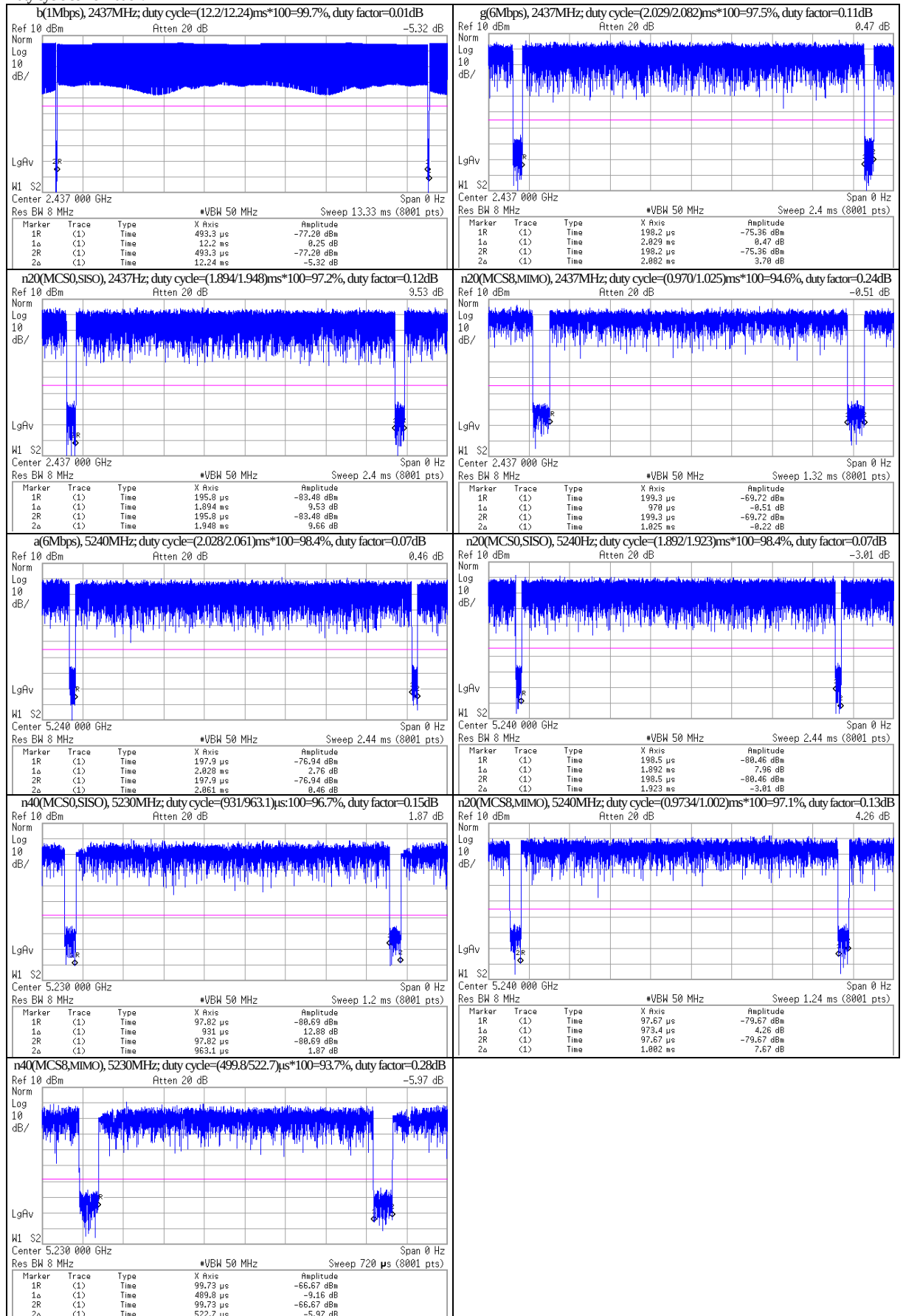
ΔMax. (Deviation from maximum power, dB) = (Burst power measured (average, dBm)) - (Max.tune-up limit power (average, dBm))

Tune-up factor: Power tune-up factor for obtained final reported SAR value, Tune-up factor [-] =  $1 / (10^{(\Delta \text{Max. (dB)} / 10)})$

\*. Date measured: September 28, 2020 / Measured by: H. Naka / Place: preparation room of No. 7 shielded room. (25 deg.C. / 50 ±10 %RH)

\*. Uncertainty of antenna port conducted test; (±) 1.3 dB (Average power), (±) 0.27 % (duty cycle).

\*. Duty cycle conformation.



## SECTION 6: SAR Measurement results

### 6.1 Tissue simulating liquid measurement

#### 6.1.1 Target of tissue simulating liquid

Nominal dielectric values of the tissue simulating liquids in the phantom are listed in the following table. (Appendix A, KDB 865664 v01r04)

| Target Frequency<br>(MHz) | Head         |                | Body         |                |
|---------------------------|--------------|----------------|--------------|----------------|
|                           | $\epsilon_r$ | $\sigma$ (S/m) | $\epsilon_r$ | $\sigma$ (S/m) |
| 1800~2000                 | 40.0         | 1.40           | 53.3         | 1.52           |
| 2450                      | 39.2         | 1.80           | 52.7         | 1.95           |

| Target Frequency<br>(MHz) | Head         |                | Body         |                |
|---------------------------|--------------|----------------|--------------|----------------|
|                           | $\epsilon_r$ | $\sigma$ (S/m) | $\epsilon_r$ | $\sigma$ (S/m) |
| 3000                      | 38.5         | 2.40           | 52.0         | 2.73           |
| 5800                      | 35.3         | 5.27           | 48.2         | 6.00           |

NOTE The italicized values were linearly interpolated between the non-italicized values that are immediately above and below these values, except the values at 6000 MHz which were linearly extrapolated from the values at 3000 MHz and 5800 MHz. Above 5800MHz were obtained using linear extrapolation.

#### 6.1.2 Liquid measurement (Liquid verification)

| Frequency<br>[MHz] | Liquid<br>type | Liquid parameters (*a)      |                                       |                       |          |            |                   |                             |                 |                    |       |           |                             |             |              | ASAR Coefficients(*b)   |                   |               | Date measured    |
|--------------------|----------------|-----------------------------|---------------------------------------|-----------------------|----------|------------|-------------------|-----------------------------|-----------------|--------------------|-------|-----------|-----------------------------|-------------|--------------|-------------------------|-------------------|---------------|------------------|
|                    |                | Liquid<br>Temp.<br>[deg.C.] | Liquid<br>depth of<br>phantom<br>[mm] | Permittivity (εr) [-] |          |            |                   |                             |                 | Conductivity [S/m] |       |           |                             |             |              | ASAR                    |                   |               |                  |
|                    |                |                             |                                       | Target<br>value       | Measured |            |                   | Δend,<br>>48hrs<br>[%] (*1) | Target<br>value | Measured           |       |           | Δend,<br>>48hrs<br>[%] (*1) | (1g)<br>[%] | (10g)<br>[%] | Correction<br>required? |                   |               |                  |
|                    |                |                             |                                       |                       | Value    | Δεr<br>[%] | Interpo-<br>lated |                             |                 | Limit<br>[%]       | Value | Δσ<br>[%] |                             |             |              |                         | Interpo-<br>lated | Limit<br>[%]  |                  |
| 5500               | Head           | 22.5                        | 150                                   | 35.64                 | 34.89    | -2.1       | □                 | 10                          | begin           | 4.963              | 4.783 | -3.6      | □                           | 10          | begin        | 0.6                     | 0.7               | not required. | October 28, 2021 |
| 5510               |                |                             |                                       | 35.63                 | 34.87    | -2.1       | □                 | 10                          | begin           | 4.973              | 4.789 | -3.7      | □                           | 10          | begin        | 0.6                     | 0.7               | not required. |                  |
| 5550               |                |                             |                                       | 35.59                 | 34.77    | -2.3       | □                 | 10                          | begin           | 5.014              | 4.836 | -3.6      | □                           | 10          | begin        | 0.6                     | 0.8               | not required. |                  |
| 5580               |                |                             |                                       | 35.55                 | 34.78    | -2.2       | □                 | 10                          | begin           | 5.045              | 4.877 | -3.3      | □                           | 10          | begin        | 0.6                     | 0.7               | not required. |                  |
| 5670               |                |                             |                                       | 35.45                 | 34.60    | -2.4       | □                 | 10                          | begin           | 5.137              | 4.977 | -3.1      | □                           | 10          | begin        | 0.6                     | 0.7               | not required. |                  |
| 5700               |                |                             |                                       | 35.41                 | 34.57    | -2.4       | □                 | 10                          | begin           | 5.168              | 5.001 | -3.2      | □                           | 10          | begin        | 0.6                     | 0.7               | not required. |                  |
| 5745               |                |                             |                                       | 35.36                 | 34.47    | -2.5       | ☑                 | 10                          | begin           | 5.214              | 5.054 | -3.1      | ☑                           | 10          | begin        | 0.6                     | 0.8               | not required. |                  |
| 5755               |                |                             |                                       | 35.35                 | 34.46    | -2.5       | ☑                 | 10                          | begin           | 5.224              | 5.062 | -3.1      | ☑                           | 10          | begin        | 0.6                     | 0.8               | not required. |                  |
| 5785               |                |                             |                                       | 35.32                 | 34.42    | -2.6       | ☑                 | 10                          | begin           | 5.255              | 5.101 | -2.9      | ☑                           | 10          | begin        | 0.6                     | 0.7               | not required. |                  |
| 5795               |                |                             |                                       | 35.31                 | 34.41    | -2.6       | ☑                 | 10                          | begin           | 5.265              | 5.114 | -2.9      | ☑                           | 10          | begin        | 0.6                     | 0.7               | not required. |                  |
| 5825               |                |                             |                                       | 35.27                 | 34.36    | -2.6       | ☑                 | 10                          | begin           | 5.296              | 5.148 | -2.8      | ☑                           | 10          | begin        | 0.6                     | 0.7               | not required. |                  |
| 2412               | Head           | 22.5                        | 150                                   | 39.27                 | 39.75    | 1.2        | ☑                 | 10                          | begin           | 1.766              | 1.819 | 3.0       | ☑                           | 10          | begin        | 1.2                     | 0.6               | not required. | October 29, 2021 |
| 2437               |                |                             |                                       | 39.22                 | 39.72    | 1.3        | ☑                 | 10                          | begin           | 1.788              | 1.839 | 2.5       | ☑                           | 10          | begin        | 0.9                     | 0.5               | not required. |                  |
| 2462               |                |                             |                                       | 39.18                 | 39.68    | 1.3        | ☑                 | 10                          | begin           | 1.813              | 1.858 | 2.5       | ☑                           | 10          | begin        | 0.9                     | 0.4               | not required. |                  |
| 5180               |                |                             |                                       | 36.01                 | 35.41    | -1.7       | □                 | 10                          | begin           | 4.635              | 4.435 | -4.3      | □                           | 10          | begin        | 0.4                     | 0.7               | not required. |                  |
| 5220               |                |                             |                                       | 35.96                 | 35.35    | -1.7       | □                 | 10                          | begin           | 4.676              | 4.476 | -4.3      | □                           | 10          | begin        | 0.5                     | 0.7               | not required. |                  |
| 5240               |                |                             |                                       | 35.94                 | 35.32    | -1.7       | □                 | 10                          | begin           | 4.696              | 4.505 | -4.1      | □                           | 10          | begin        | 0.5                     | 0.7               | not required. |                  |
| 5260               |                |                             |                                       | 35.92                 | 35.29    | -1.8       | □                 | 10                          | begin           | 4.717              | 4.525 | -4.1      | □                           | 10          | begin        | 0.5                     | 0.7               | not required. |                  |
| 5270               |                |                             |                                       | 35.91                 | 35.24    | -1.9       | □                 | 10                          | begin           | 4.727              | 4.530 | -4.2      | □                           | 10          | begin        | 0.5                     | 0.7               | not required. |                  |
| 5300               |                |                             |                                       | 35.87                 | 35.21    | -1.9       | □                 | 10                          | begin           | 4.758              | 4.569 | -4.0      | □                           | 10          | begin        | 0.5                     | 0.7               | not required. |                  |
| 5310               |                |                             |                                       | 35.86                 | 35.19    | -1.9       | □                 | 10                          | begin           | 4.768              | 4.575 | -4.0      | □                           | 10          | begin        | 0.5                     | 0.7               | not required. |                  |
| 5320               |                |                             |                                       | 35.85                 | 35.18    | -1.9       | □                 | 10                          | begin           | 4.778              | 4.581 | -4.1      | □                           | 10          | begin        | 0.5                     | 0.7               | not required. |                  |
| 2412               | Head           | 22.5                        | 150                                   | 39.27                 | 39.90    | 1.6        | ☑                 | 10                          | begin           | 1.766              | 1.816 | 2.9       | ☑                           | 10          | begin        | 1.0                     | 0.5               | not required. | November 1, 2021 |
| 5755               |                |                             |                                       | 35.35                 | 34.53    | -2.3       | ☑                 | 10                          | begin           | 5.224              | 5.076 | -2.8      | ☑                           | 10          | begin        | 0.6                     | 0.7               | not required. |                  |
| 5795               |                |                             |                                       | 35.31                 | 34.46    | -2.4       | ☑                 | 10                          | begin           | 5.265              | 5.120 | -2.8      | ☑                           | 10          | begin        | 0.6                     | 0.7               | not required. |                  |
| 5180               | Head           | 22.5                        | 150                                   | 36.01                 | 35.48    | -1.5       | □                 | 10                          | begin           | 4.635              | 4.437 | -4.3      | □                           | 10          | begin        | 0.4                     | 0.6               | not required. | November 2, 2021 |
| 5270               |                |                             |                                       | 35.91                 | 35.30    | -1.7       | □                 | 10                          | begin           | 4.727              | 4.534 | -4.1      | □                           | 10          | begin        | 0.5                     | 0.6               | not required. |                  |
| 5310               |                |                             |                                       | 35.86                 | 35.25    | -1.7       | □                 | 10                          | begin           | 4.768              | 4.583 | -3.9      | □                           | 10          | begin        | 0.5                     | 0.6               | not required. |                  |
| 5510               |                |                             |                                       | 35.63                 | 34.93    | -2.0       | □                 | 10                          | begin           | 4.973              | 4.788 | -3.7      | □                           | 10          | begin        | 0.6                     | 0.7               | not required. |                  |
| 5670               |                |                             |                                       | 35.45                 | 34.63    | -2.3       | □                 | 10                          | begin           | 5.137              | 4.977 | -3.1      | □                           | 10          | begin        | 0.6                     | 0.7               | not required. |                  |

\*1. "begin": SAR test has ended within 24 hours from the liquid parameter measurement, "< 48 hrs.": Since SAR test has ended within 48 hours (2 days) from the liquid parameter measurement and a change in the liquid temperature was within 1 degree, liquid parameters measured on first day were used on next day continuously, "value (%)": Since the SAR test series took longer than 48 hours, the liquid parameters were measured on every 48 hours period and on the date which was end of test series. Since the difference of liquid parameters between the beginning and next measurement was smaller than 5%, the liquid parameters measured in beginning were used until end of each test series.  
Calculating formula:  $\Delta\epsilon_r(>48 \text{ hrs.}) (\%) = \{(\text{dielectric properties, end of test series}) / (\text{dielectric properties, beginning of test series}) - 1\} \times 100$

\*a. The target values of (2000, 2450, 3000, 5800) MHz are parameters defined in Appendix A of KDB 865664 D01. For other frequencies, the target nominal dielectric values shall be obtained by linear interpolation between the higher and lower tabulated figures. Above 5800MHz were obtained using linear extrapolation.

\*b. The coefficients in below are parameters defined in IEEE Std.1528-2013.

Calculating formula:  $\text{ASAR}(1g) = C_{\epsilon r} \times \Delta\epsilon_r + C_{\sigma} \times \Delta\sigma$ ,  $C_{\epsilon r} = 7.854E-4 \times f^3 + 9.402E-3 \times f^2 - 2.742E-2 \times f - 0.2026$  /  $C_{\sigma} = 9.804E-3 \times f^3 - 8.661E-2 \times f^2 + 2.981E-2 \times f + 0.7829$

Calculating formula:  $\text{ASAR}(10g) = C_{\epsilon r} \times \Delta\epsilon_r + C_{\sigma} \times \Delta\sigma$ ,  $C_{\epsilon r} = 3.456 \times 10^{-3} \times f^3 - 3.531 \times 10^{-2} \times f^2 + 7.675 \times 10^{-2} \times f - 0.1860$  /  $C_{\sigma} = 4.479 \times 10^{-3} \times f^3 - 1.586 \times 10^{-2} \times f^2 - 0.1972 \times f + 0.7717$

Since the calculated ASAR values of the tested liquid had shown positive correction, the measured SAR was not converted by ASAR correction.

Calculating formula:  $\text{ASAR corrected SAR (W/kg)} = (\text{Measured SAR (W/kg)}) \times (100 - (\text{ASAR}(\%) / 100)$

\*. Calibration frequency of the SAR measurement probe (and used conversion factors for each frequency.)

The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

| Liquid | SAR test frequency                                   | Probe calibration frequency | Validity                                      | Conversion factor | Uncertainty  |
|--------|------------------------------------------------------|-----------------------------|-----------------------------------------------|-------------------|--------------|
| Head   | (2412, 2437, 2462) MHz                               | 2450 MHz                    | within $\pm 50$ MHz of calibration frequency  | 7.35              | $\pm 12.0$ % |
| Head   | (5180, 5220, 5240, 5260, 5270, 5300, 5310, 5320) MHz | 5250 MHz                    | within $\pm 110$ MHz of calibration frequency | 5.14              | $\pm 13.1$ % |
| Head   | (5500, 5510, 5550, 5580, 5670, 5700) MHz             | 5600 MHz                    | within $\pm 110$ MHz of calibration frequency | 4.56              | $\pm 13.1$ % |
| Head   | (5745, 5755, 5785, 5795, 5825) MHz                   | 5800 MHz                    | within $\pm 110$ MHz of calibration frequency | 4.60              | $\pm 13.1$ % |

## 6.2 SAR results

| Test setup                                       |               |                       |          |              | Mode and Frequency (*2)                        |       |     | Duty cycle |                    | Power correction         |                          |                     | SAR results [W/kg]        |          |                |             | SAR type | SAR Limit [W/kg] | SAR plot # in Appx. 2-2 | Setup photo # in Appx. 1-3 | Remarks          |  |
|--------------------------------------------------|---------------|-----------------------|----------|--------------|------------------------------------------------|-------|-----|------------|--------------------|--------------------------|--------------------------|---------------------|---------------------------|----------|----------------|-------------|----------|------------------|-------------------------|----------------------------|------------------|--|
| ANT #                                            | Test position | Antenna distance [mm] | Gap [mm] | Source power | Mode (D/R)                                     | [MHz] | CH  | Duty [%]   | Duty scaled factor | Max. time-up limit [dBm] | Measured conducted [dBm] | Power scaled factor | (Max.value of multi-peak) |          |                |             |          |                  |                         |                            |                  |  |
|                                                  |               |                       |          |              | Mark with "*" is the initial mode & frequency. |       |     |            |                    |                          |                          |                     | Measured                  | ASAR [%] | ASAR corrected | Scaled (*b) |          |                  |                         |                            |                  |  |
|                                                  |               |                       |          |              |                                                |       |     |            |                    |                          |                          |                     |                           |          |                |             |          |                  |                         |                            |                  |  |
| 1) 2.4GHz Band (*1)                              |               |                       |          |              |                                                |       |     |            |                    |                          |                          |                     |                           |          |                |             |          |                  |                         |                            |                  |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | b (1Mbps)*                                     | 2412* | 1   | 99.7       | 1.00               | 15                       | 13.87                    | 1.30                | 0.553                     | Positive | n/a (*a)       | 0.719       | 1g       | 1.6              | 1a-1                    | P1                         | -                |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | b (1Mbps)*                                     | 2462  | 11  | 99.7       | 1.00               | 15                       | 13.52                    | 1.41                | 0.377                     | Positive | n/a (*a)       | 0.532       | 1g       | 1.6              | 1a-2                    | P1                         | -                |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | b (1Mbps)*                                     | 2437  | 6   | 99.7       | 1.00               | 15                       | 13.14                    | 1.53                | 0.447                     | Positive | n/a (*a)       | 0.684       | 1g       | 1.6              | 1a-3                    | P1                         | -                |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | g (6Mbps)                                      | 2437  | 6   | 97.5       | 1.03               | 15                       | 13.77                    | 1.33                | 0.511                     | Positive | n/a (*a)       | 0.700       | 1g       | 1.6              | 1a-4                    | P1                         | -                |  |
| 1                                                | Rear          | 2.4                   | 0        | DC supply    | b (1Mbps)*                                     | 2412* | 11  | 99.7       | 1.00               | 15                       | 13.87                    | 1.30                | 0.105                     | Positive | n/a (*a)       | 0.137       | 1g       | 1.6              | 1a-5                    | P2                         | -                |  |
| 1                                                | Front         | 3.7                   | 0        | DC supply    | b (1Mbps)*                                     | 2412* | 11  | 99.7       | 1.00               | 15                       | 13.87                    | 1.30                | 0.097                     | Positive | n/a (*a)       | 0.126       | 1g       | 1.6              | 1a-6                    | P3                         | -                |  |
| 1                                                | Top           | 27.5                  | 0        | DC supply    | b (1Mbps)*                                     | 2412* | 11  | 99.7       | 1.00               | 15                       | 13.87                    | 1.30                | 0.011                     | Positive | n/a (*a)       | 0.014       | 1g       | 1.6              | 1a-7                    | P4                         | -                |  |
| 1                                                | Right         | 382                   | 0        | DC supply    | b (1Mbps)*                                     | 2412* | 11  | 99.7       | 1.00               | 15                       | 13.87                    | 1.30                | n/a                       | Positive | n/a (*a)       | n/a         | 1g       | 1.6              | -                       | -                          | SAR test: Exempt |  |
| 1                                                | Bottom        | 390.5                 | 0        | DC supply    | b (1Mbps)*                                     | 2412* | 11  | 99.7       | 1.00               | 15                       | 13.87                    | 1.30                | n/a                       | Positive | n/a (*a)       | n/a         | 1g       | 1.6              | -                       | -                          | SAR test: Exempt |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | b (1Mbps)*                                     | 2412* | 1   | 99.7       | 1.00               | 15                       | 13.95                    | 1.27                | 0.445                     | Positive | n/a (*a)       | 0.565       | 1g       | 1.6              | 1b-1                    | P5                         | -                |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | b (1Mbps)*                                     | 2437  | 6   | 99.7       | 1.00               | 15                       | 13.47                    | 1.42                | 0.367                     | Positive | n/a (*a)       | 0.521       | 1g       | 1.6              | 1b-2                    | P5                         | -                |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | b (1Mbps)*                                     | 2462  | 11  | 99.7       | 1.00               | 15                       | 13.45                    | 1.43                | 0.295                     | Positive | n/a (*a)       | 0.422       | 1g       | 1.6              | 1b-3                    | P5                         | -                |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | g (6Mbps)                                      | 2437  | 6   | 97.5       | 1.03               | 15                       | 14.23                    | 1.19                | 0.414                     | Positive | n/a (*a)       | 0.507       | 1g       | 1.6              | 1b-4                    | P5                         | -                |  |
| 2                                                | Rear          | 2.4                   | 0        | DC supply    | b (1Mbps)*                                     | 2412* | 11  | 99.7       | 1.00               | 15                       | 13.95                    | 1.27                | 0.054                     | Positive | n/a (*a)       | 0.069       | 1g       | 1.6              | 1b-5                    | P6                         | -                |  |
| 2                                                | Front         | 3.7                   | 0        | DC supply    | b (1Mbps)*                                     | 2412* | 1   | 99.7       | 1.00               | 15                       | 13.95                    | 1.27                | 0.105                     | Positive | n/a (*a)       | 0.133       | 1g       | 1.6              | 1b-6                    | P7                         | -                |  |
| 2                                                | Right         | 32                    | 0        | DC supply    | b (1Mbps)*                                     | 2412* | 1   | 99.7       | 1.00               | 15                       | 13.95                    | 1.27                | 0.013                     | Positive | n/a (*a)       | 0.017       | 1g       | 1.6              | 1b-7                    | P8                         | -                |  |
| 2                                                | Left          | 310                   | 0        | DC supply    | b (1Mbps)*                                     | 2412* | 1   | 99.7       | 1.00               | 15                       | 13.95                    | 1.27                | n/a                       | Positive | n/a (*a)       | n/a         | 1g       | 1.6              | -                       | -                          | SAR test: Exempt |  |
| 2                                                | Top           | 458                   | 0        | DC supply    | b (1Mbps)*                                     | 2412* | 1   | 99.7       | 1.00               | 15                       | 13.95                    | 1.27                | n/a                       | Positive | n/a (*a)       | n/a         | 1g       | 1.6              | -                       | -                          | SAR test: Exempt |  |
| 2) U-NII-2A (5.3GHz) (and U-NII-1 (5.2GHz)) Band |               |                       |          |              |                                                |       |     |            |                    |                          |                          |                     |                           |          |                |             |          |                  |                         |                            |                  |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | n40(MCS0)*                                     | 5310* | 62  | 96.7       | 1.03               | 10                       | 8.55                     | 1.40                | 0.577                     | Positive | n/a (*a)       | 0.832       | 1g       | 1.6              | 2a-2                    | P1                         | -                |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | n40(MCS0)*                                     | 5270  | 54  | 96.7       | 1.03               | 10                       | 8.34                     | 1.47                | 0.568                     | Positive | n/a (*a)       | 0.860       | 1g       | 1.6              | 2a-3                    | P1                         | -                |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | a (6Mbps)                                      | 5260  | 52  | 98.4       | 1.02               | 10                       | 9.28                     | 1.18                | 0.727                     | Positive | n/a (*a)       | 0.875       | 1g       | 1.6              | 2a-1                    | P1                         | -                |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | a (6Mbps)                                      | 5320  | 64  | 98.4       | 1.02               | 10                       | 8.39                     | 1.45                | 0.584                     | Positive | n/a (*a)       | 0.864       | 1g       | 1.6              | 2a-4                    | P1                         | -                |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | a (6Mbps)                                      | 5300  | 60  | 98.4       | 1.02               | 10                       | 8.12                     | 1.54                | 0.525                     | Positive | n/a (*a)       | 0.825       | 1g       | 1.6              | 2a-5                    | P1                         | -                |  |
| 1                                                | Rear          | 2.4                   | 0        | DC supply    | n40(MCS0)*                                     | 5310* | 62  | 96.7       | 1.03               | 10                       | 8.55                     | 1.40                | 0.152                     | Positive | n/a (*a)       | 0.219       | 1g       | 1.6              | 2a-6                    | P2                         | -                |  |
| 1                                                | Front         | 3.7                   | 0        | DC supply    | n40(MCS0)*                                     | 5310* | 62  | 96.7       | 1.03               | 10                       | 8.55                     | 1.40                | 0.067                     | Positive | n/a (*a)       | 0.097       | 1g       | 1.6              | 2a-7                    | P3                         | -                |  |
| 1                                                | Top           | 27.5                  | 0        | DC supply    | n40(MCS0)*                                     | 5310* | 62  | 96.7       | 1.03               | 10                       | 8.55                     | 1.40                | 0.023                     | Positive | n/a (*a)       | 0.033       | 1g       | 1.6              | 2a-8                    | P4                         | -                |  |
| 1                                                | Right         | 382                   | 0        | DC supply    | n40(MCS0)*                                     | 5310* | 62  | 96.7       | 1.03               | 10                       | 8.55                     | 1.40                | n/a                       | Positive | n/a (*a)       | n/a         | 1g       | 1.6              | -                       | -                          | SAR test: Exempt |  |
| 1                                                | Bottom        | 390.5                 | 0        | DC supply    | n40(MCS0)*                                     | 5310* | 62  | 96.7       | 1.03               | 10                       | 8.55                     | 1.40                | n/a                       | Positive | n/a (*a)       | n/a         | 1g       | 1.6              | -                       | -                          | SAR test: Exempt |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | n40(MCS0)*                                     | 5270* | 54  | 96.7       | 1.03               | 10                       | 8.68                     | 1.36                | 0.397                     | Positive | n/a (*a)       | 0.556       | 1g       | 1.6              | 2b-2                    | P5                         | -                |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | n40(MCS0)*                                     | 5310  | 62  | 96.7       | 1.03               | 10                       | 8.24                     | 1.50                | 0.323                     | Positive | n/a (*a)       | 0.499       | 1g       | 1.6              | 2b-3                    | P5                         | -                |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | a (6Mbps)                                      | 5260  | 52  | 98.4       | 1.02               | 10                       | 9.10                     | 1.23                | 0.460                     | Positive | n/a (*a)       | 0.577       | 1g       | 1.6              | 2b-1                    | P5                         | -                |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | a (6Mbps)                                      | 5300  | 60  | 98.4       | 1.02               | 10                       | 8.35                     | 1.46                | 0.288                     | Positive | n/a (*a)       | 0.429       | 1g       | 1.6              | 2b-4                    | P5                         | -                |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | a (6Mbps)                                      | 5320  | 64  | 98.4       | 1.02               | 10                       | 8.28                     | 1.49                | 0.295                     | Positive | n/a (*a)       | 0.448       | 1g       | 1.6              | 2b-5                    | P5                         | -                |  |
| 2                                                | Rear          | 2.4                   | 0        | DC supply    | n40(MCS0)*                                     | 5270* | 54  | 96.7       | 1.03               | 10                       | 8.68                     | 1.36                | 0.095                     | Positive | n/a (*a)       | 0.133       | 1g       | 1.6              | 2b-6                    | P6                         | -                |  |
| 2                                                | Front         | 3.7                   | 0        | DC supply    | n40(MCS0)*                                     | 5270* | 54  | 96.7       | 1.03               | 10                       | 8.68                     | 1.36                | 0.050                     | Positive | n/a (*a)       | 0.070       | 1g       | 1.6              | 2b-7                    | P7                         | -                |  |
| 2                                                | Right         | 32                    | 0        | DC supply    | n40(MCS0)*                                     | 5270* | 54  | 96.7       | 1.03               | 10                       | 8.68                     | 1.36                | 0.012                     | Positive | n/a (*a)       | 0.017       | 1g       | 1.6              | 2b-8                    | P8                         | -                |  |
| 2                                                | Left          | 310                   | 0        | DC supply    | n40(MCS0)*                                     | 5270* | 54  | 96.7       | 1.03               | 10                       | 8.68                     | 1.36                | n/a                       | Positive | n/a (*a)       | n/a         | 1g       | 1.6              | -                       | -                          | SAR test: Exempt |  |
| 2                                                | Top           | 458                   | 0        | DC supply    | n40(MCS0)*                                     | 5270* | 54  | 96.7       | 1.03               | 10                       | 8.68                     | 1.36                | n/a                       | Positive | n/a (*a)       | n/a         | 1g       | 1.6              | -                       | -                          | SAR test: Exempt |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | a (6Mbps)*                                     | 5180* | 36  | 98.4       | 1.02               | 10                       | 9.58                     | 1.10                | 1.01                      | Positive | n/a (*a)       | 1.133       | 1g       | 1.6              | 2c-2                    | P1                         | -                |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | a (6Mbps)*                                     | 5220  | 44  | 98.4       | 1.02               | 10                       | 9.26                     | 1.19                | 0.948                     | Positive | n/a (*a)       | 1.151       | 1g       | 1.6              | 2c-1                    | P1                         | -                |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | a (6Mbps)*                                     | 5240  | 48  | 98.4       | 1.02               | 10                       | 8.29                     | 1.48                | 0.683                     | Positive | n/a (*a)       | 1.031       | 1g       | 1.6              | 2c-3                    | P1                         | -                |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | a (6Mbps)*                                     | 5180* | 36  | 98.4       | 1.02               | 10                       | 9.96                     | 1.01                | 0.395                     | Positive | n/a (*a)       | 0.407       | 1g       | 1.6              | 2d-2                    | P5                         | -                |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | a (6Mbps)*                                     | 5220  | 44  | 98.4       | 1.02               | 10                       | 9.47                     | 1.13                | 0.465                     | Positive | n/a (*a)       | 0.536       | 1g       | 1.6              | 2d-1                    | P5                         | -                |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | a (6Mbps)*                                     | 5240  | 48  | 98.4       | 1.02               | 10                       | 8.38                     | 1.45                | 0.357                     | Positive | n/a (*a)       | 0.528       | 1g       | 1.6              | 2d-3                    | P5                         | -                |  |
| 3) U-NII-2C (5.6GHz) Band                        |               |                       |          |              |                                                |       |     |            |                    |                          |                          |                     |                           |          |                |             |          |                  |                         |                            |                  |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | n40(MCS0)*                                     | 5670* | 134 | 96.7       | 1.03               | 10                       | 9.07                     | 1.24                | 0.880                     | Positive | n/a (*a)       | 1.124       | 1g       | 1.6              | 3a-1                    | P1                         | -                |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | n40(MCS0)*                                     | 5550  | 110 | 96.7       | 1.03               | 10                       | 8.42                     | 1.44                | 0.483                     | Positive | n/a (*a)       | 0.716       | 1g       | 1.6              | 3a-2                    | P1                         | -                |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | n40(MCS0)*                                     | 5510  | 102 | 96.7       | 1.03               | 10                       | 8.13                     | 1.54                | 0.434                     | Positive | n/a (*a)       | 0.688       | 1g       | 1.6              | 3a-3                    | P1                         | -                |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | a (6Mbps)                                      | 5700  | 140 | 98.4       | 1.02               | 10                       | 9.41                     | 1.15                | 0.917                     | Positive | n/a (*a)       | 1.076       | 1g       | 1.6              | 3a-4                    | P1                         | -                |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | a (6Mbps)                                      | 5580  | 116 | 98.4       | 1.02               | 10                       | 8.92                     | 1.28                | 0.536                     | Positive | n/a (*a)       | 0.700       | 1g       | 1.6              | 3a-5                    | P1                         | -                |  |
| 1                                                | Left          | 1.8                   | 0        | DC supply    | a (6Mbps)                                      | 5500  | 100 | 98.4       | 1.02               | 10                       | 8.44                     | 1.43                | 0.480                     | Positive | n/a (*a)       | 0.700       | 1g       | 1.6              | 3a-6                    | P1                         | -                |  |
| 1                                                | Rear          | 2.4                   | 0        | DC supply    | n40(MCS0)*                                     | 5670* | 134 | 96.7       | 1.03               | 10                       | 9.07                     | 1.24                | 0.245                     | Positive | n/a (*a)       | 0.313       | 1g       | 1.6              | 3a-7                    | P2                         | -                |  |
| 1                                                | Front         | 3.7                   | 0        | DC supply    | n40(MCS0)*                                     | 5670* | 134 | 96.7       | 1.03               | 10                       | 9.07                     | 1.24                | 0.129                     | Positive | n/a (*a)       | 0.165       | 1g       | 1.6              | 3a-8                    | P3                         | -                |  |
| 1                                                | Top           | 27.5                  | 0        | DC supply    | n40(MCS0)*                                     | 5670* | 134 | 96.7       | 1.03               | 10                       | 9.07                     | 1.24                | 0.023                     | Positive | n/a (*a)       | 0.029       | 1g       | 1.6              | 3a-9                    | P4                         | -                |  |
| 1                                                | Right         | 382                   | 0        | DC supply    | n40(MCS0)*                                     | 5670* | 134 | 96.7       | 1.03               | 10                       | 9.07                     | 1.24                | n/a                       | Positive | n/a (*a)       | n/a         | 1g       | 1.6              | -                       | -                          | SAR test: Exempt |  |
| 1                                                | Bottom        | 390.5                 | 0        | DC supply    | n40(MCS0)*                                     | 5670* | 134 | 96.7       | 1.03               | 10                       | 9.07                     | 1.24                | n/a                       | Positive | n/a (*a)       | n/a         | 1g       | 1.6              | -                       | -                          | SAR test: Exempt |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | n40(MCS0)*                                     | 5510* | 102 | 96.7       | 1.03               | 10                       | 9.78                     | 1.05                | 0.590                     | Positive | n/a (*a)       | 0.638       | 1g       | 1.6              | 3b-2                    | P5                         | -                |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | n40(MCS0)*                                     | 5670  | 134 | 96.7       | 1.03               | 10                       | 9.35                     | 1.16                | 0.513                     | Positive | n/a (*a)       | 0.613       | 1g       | 1.6              | 3b-3                    | P5                         | -                |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | n40(MCS0)*                                     | 5550  | 110 | 96.7       | 1.03               | 10                       | 8.79                     | 1.32                | 0.648                     | Positive | n/a (*a)       | 0.881       | 1g       | 1.6              | 3b-1                    | P5                         | -                |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | a (6Mbps)                                      | 5500  | 116 | 98.4       | 1.02               | 10                       | 9.47                     | 1.13                | 0.645                     | Positive | n/a (*a)       | 0.743       | 1g       | 1.6              | 3b-4                    | P5                         | -                |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | a (6Mbps)                                      | 5700  | 140 | 98.4       | 1.02               | 10                       | 8.79                     | 1.32                | 0.627                     | Positive | n/a (*a)       | 0.844       | 1g       | 1.6              | 3b-5                    | P5                         | -                |  |
| 2                                                | Bottom        | 1.8                   | 0        | DC supply    | a (6Mbps)                                      | 5580  | 116 | 98.4       | 1.02               | 10                       | 8.64                     | 1.37                | 0.496                     | Positive | n/a (*a)       | 0.693       | 1g       | 1.6              | 3b-6                    | P5                         | -                |  |
| 2                                                | Rear          | 2.4                   | 0        | DC supply    | n40(MCS0)*                                     | 55    |     |            |                    |                          |                          |                     |                           |          |                |             |          |                  |                         |                            |                  |  |

## 6.2 SAR results (cont'd)

| Test setup               |               |                       |          | Mode and Frequency (*2) |                                                |       | Duty cycle |          | Power correction   |                          |                          | SAR results [W/kg]<br>(Max. value of multi-peak) |          |          |                | SAR type | SAR Limit [W/kg] | SAR plot # in Appx. 2-2 | Setup photo # in Appx. 1-3 | Remarks |                  |
|--------------------------|---------------|-----------------------|----------|-------------------------|------------------------------------------------|-------|------------|----------|--------------------|--------------------------|--------------------------|--------------------------------------------------|----------|----------|----------------|----------|------------------|-------------------------|----------------------------|---------|------------------|
| ANT #                    | Test position | Antenna distance [mm] | Gap [mm] | Source power            | Mode (D/R)                                     | [MHz] | CH         | Duty [%] | Duty scaled factor | Max. tune-up limit [dBm] | Measured conducted [dBm] | Power scaled factor                              |          |          |                |          |                  |                         |                            |         |                  |
|                          | Setup         |                       |          |                         | Mark with “*” is the initial mode & frequency. |       |            |          |                    |                          |                          |                                                  | Measured | ASAR [%] | ASAR corrected |          |                  |                         |                            |         | Scaled (*b)      |
| 4) U-NII-3 (5.8GHz) Band |               |                       |          |                         |                                                |       |            |          |                    |                          |                          |                                                  |          |          |                |          |                  |                         |                            |         |                  |
| 1                        | Left          | 1.8                   | 0        | DC supply               | n40(MCSO)*                                     | 5755* | 151        | 96.7     | 1.03               | 10                       | 9.17                     | 1.21                                             | 0.791    | Positive | n/a (*a)       | 0.986    | 1g               | 1.6                     | 4a-2                       | P1      | -                |
| 1                        | Left          | 1.8                   | 0        | DC supply               | n40(MCSO)*                                     | 5795  | 159        | 96.7     | 1.03               | 10                       | 8.77                     | 1.33                                             | 0.667    | Positive | n/a (*a)       | 0.914    | 1g               | 1.6                     | 4a-3                       | P1      | -                |
| 1                        | Left          | 1.8                   | 0        | DC supply               | a (6Mbps)                                      | 5745  | 149        | 98.4     | 1.02               | 10                       | 9.08                     | 1.24                                             | 0.767    | Positive | n/a (*a)       | 0.970    | 1g               | 1.6                     | 4a-1                       | P1      | -                |
| 1                        | Left          | 1.8                   | 0        | DC supply               | a (6Mbps)                                      | 5785  | 157        | 98.4     | 1.02               | 10                       | 8.96                     | 1.27                                             | 0.679    | Positive | n/a (*a)       | 0.880    | 1g               | 1.6                     | 4a-4                       | P1      | -                |
| 1                        | Left          | 1.8                   | 0        | DC supply               | a (6Mbps)                                      | 5825  | 165        | 98.4     | 1.02               | 10                       | 8.60                     | 1.38                                             | 0.612    | Positive | n/a (*a)       | 0.861    | 1g               | 1.6                     | 4a-5                       | P1      | -                |
| 1                        | Rear          | 2.4                   | 0        | DC supply               | n40(MCSO)*                                     | 5755* | 151        | 96.7     | 1.03               | 10                       | 9.17                     | 1.21                                             | 0.198    | Positive | n/a (*a)       | 0.247    | 1g               | 1.6                     | 4a-6                       | P2      | -                |
| 1                        | Front         | 3.7                   | 0        | DC supply               | n40(MCSO)*                                     | 5755* | 151        | 96.7     | 1.03               | 10                       | 9.17                     | 1.21                                             | 0.127    | Positive | n/a (*a)       | 0.158    | 1g               | 1.6                     | 4a-7                       | P3      | -                |
| 1                        | Top           | 27.5                  | 0        | DC supply               | n40(MCSO)*                                     | 5755* | 151        | 96.7     | 1.03               | 10                       | 9.17                     | 1.21                                             | 0.019    | Positive | n/a (*a)       | 0.024    | 1g               | 1.6                     | 4a-8                       | P4      | -                |
| 1                        | Right         | 382                   | 0        | DC supply               | n40(MCSO)*                                     | 5755* | 151        | 96.7     | 1.03               | 10                       | 9.17                     | 1.21                                             | n/a      | Positive | n/a (*a)       | n/a      | 1g               | 1.6                     | -                          | -       | SAR test: Exempt |
| 1                        | Bottom        | 390.5                 | 0        | DC supply               | n40(MCSO)*                                     | 5755* | 151        | 96.7     | 1.03               | 10                       | 9.17                     | 1.21                                             | n/a      | Positive | n/a (*a)       | n/a      | 1g               | 1.6                     | -                          | -       | SAR test: Exempt |
| 2                        | Bottom        | 1.8                   | 0        | DC supply               | n40(MCSO)*                                     | 5795* | 159        | 96.7     | 1.03               | 10                       | 8.71                     | 1.35                                             | 0.392    | Positive | n/a (*a)       | 0.545    | 1g               | 1.6                     | 4b-2                       | P5      | -                |
| 2                        | Bottom        | 1.8                   | 0        | DC supply               | n40(MCSO)*                                     | 5755  | 151        | 96.7     | 1.03               | 10                       | 8.43                     | 1.44                                             | 0.478    | Positive | n/a (*a)       | 0.709    | 1g               | 1.6                     | 4b-3                       | P5      | -                |
| 2                        | Bottom        | 1.8                   | 0        | DC supply               | a (6Mbps)                                      | 5825  | 165        | 98.4     | 1.02               | 10                       | 9.13                     | 1.22                                             | 0.374    | Positive | n/a (*a)       | 0.465    | 1g               | 1.6                     | 4b-4                       | P5      | -                |
| 2                        | Bottom        | 1.8                   | 0        | DC supply               | a (6Mbps)                                      | 5745  | 149        | 98.4     | 1.02               | 10                       | 8.87                     | 1.30                                             | 0.601    | Positive | n/a (*a)       | 0.797    | 1g               | 1.6                     | 4b-1                       | P5      | -                |
| 2                        | Bottom        | 1.8                   | 0        | DC supply               | a (6Mbps)                                      | 5785  | 157        | 98.4     | 1.02               | 10                       | 8.52                     | 1.41                                             | 0.410    | Positive | n/a (*a)       | 0.590    | 1g               | 1.6                     | 4b-5                       | P5      | -                |
| 2                        | Rear          | 2.4                   | 0        | DC supply               | n40(MCSO)*                                     | 5795* | 159        | 96.7     | 1.03               | 10                       | 8.71                     | 1.35                                             | 0.074    | Positive | n/a (*a)       | 0.103    | 1g               | 1.6                     | 4b-6                       | P6      | -                |
| 2                        | Front         | 3.7                   | 0        | DC supply               | n40(MCSO)*                                     | 5795* | 159        | 96.7     | 1.03               | 10                       | 8.71                     | 1.35                                             | 0.066    | Positive | n/a (*a)       | 0.092    | 1g               | 1.6                     | 4b-7                       | P7      | -                |
| 2                        | Right         | 32                    | 0        | DC supply               | n40(MCSO)*                                     | 5795* | 159        | 96.7     | 1.03               | 10                       | 8.71                     | 1.35                                             | 0.013    | Positive | n/a (*a)       | 0.018    | 1g               | 1.6                     | 4b-8                       | P8      | -                |
| 2                        | Left          | 310                   | 0        | DC supply               | n40(MCSO)*                                     | 5795* | 159        | 96.7     | 1.03               | 10                       | 8.71                     | 1.35                                             | n/a      | Positive | n/a (*a)       | n/a      | 1g               | 1.6                     | -                          | -       | SAR test: Exempt |
| 2                        | Top           | 458                   | 0        | DC supply               | n40(MCSO)*                                     | 5795* | 159        | 96.7     | 1.03               | 10                       | 8.71                     | 1.35                                             | n/a      | Positive | n/a (*a)       | n/a      | 1g               | 1.6                     | -                          | -       | SAR test: Exempt |

- Notes: \*
- The higher scaled (reported) SAR in each operation band is marked (shaded yellow marker).
  - Appx. Appendix, ant: antenna, (mode) b: IEEE 802.11b, g: IEEE 802.11g, a: IEEE 802.11a, n40: IEEE 802.11n(40HT); Max.: maximum.; n/a: not applied. Gap: It is the separation distance between EUT surface and the bottom outer surface of phantom.
  - During test, the EUT was operated with full charged battery and connected an IF cable

- \*a. Since the calculated ASAR values of the tested liquid had shown positive correction, the measured SAR was not converted by ASAR correction.  
Calculating formula: ASAR corrected SAR (W/kg) = (Measured SAR (W/kg)) × (100 - (ASAR(%)) / 100  
\*b. Calculating formula: Scaled SAR (Reported SAR) (W/kg) = (Measured SAR (W/kg)) × (Duty scaled factor) × (Power scaled factor)  
where, Duty scaled factor [-] = 100(%) / (duty cycle, %), Power scaled factor [-] = 10 ^ (((Max.tune-up limit, dBm) - (Measured conducted, dBm)) / 10)

- \*1. (KDB 248227 D01) For 2.4GHz band, When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test of OFDM mode was reduced.

| OFDM mode | Maximum tune-up tolerance limit |          |            |          | OFDM scaled factor [-] (b)/(a)×100 | DSSS worst reported SAR value |        |           |        | Estimated SAR value: OFDM [W/kg] | Exclusion limit [W/kg] | Standalone SAR test of OFDM mode require? |
|-----------|---------------------------------|----------|------------|----------|------------------------------------|-------------------------------|--------|-----------|--------|----------------------------------|------------------------|-------------------------------------------|
|           | DSSS [dBm]                      | [mW] (a) | OFDM [dBm] | [mW] (b) |                                    | SAR type                      | Setup  | Antenna   | [W/kg] |                                  |                        |                                           |
| g         | 15.0                            | 32       | 15.0       | 32       | 1.00                               | 1g                            | Left   | Antenna 1 | 0.719  | <b>0.72</b>                      | ≤ 1.2                  | No                                        |
| n20       | 15.0                            | 32       | 15.0       | 32       | 1.00                               | 1g                            | Left   | Antenna 1 | 0.719  | <b>0.72</b>                      | ≤ 1.2                  | No                                        |
| g         | 15.0                            | 32       | 15.0       | 32       | 1.00                               | 1g                            | Bottom | Antenna 2 | 0.565  | <b>0.57</b>                      | ≤ 1.2                  | No                                        |
| n20       | 15.0                            | 32       | 15.0       | 32       | 1.00                               | 1g                            | Bottom | Antenna 2 | 0.565  | <b>0.57</b>                      | ≤ 1.2                  | No                                        |

- \*. (mode) b: IEEE 802.11b, g: IEEE 802.11g, n20: IEEE 802.11n(20HT).

## 6.3 Simultaneous transmission evaluation

**Result: Co-location SAR test (volume scan post-processing) was not required because of the SPLSR is smaller than 0.04, even if the SAR(1g) values of each antenna 1 and 2 is shown to equal to the SAR (1g) limit = 1.6 W/kg.**

According to KDB447498 D01; Volume scan SAR test exclusion was applied to antenna pair that transmits simultaneously by using SPLAR (SAR Peak Location Separation Ratio) method.

- \*. **On the EUT, since the antenna separation distance is big enough (>300 mm) on each setup direction, SPLSR is smaller than 0.04 even if the standalone SAR(1g) of antenna 1 and antenna 2 is equal to the SAR(1g) limit (≤1.6 W/kg). Therefore SAR test for co-location cannot be required.**

| Setup                         | Antenna separation distance (design based) | Max. Standalone SAR(1g) [W/kg] |               | Σ1g SAR [W/kg] | SPLSR? (Yes/No) | SPLSR (≤0.04) | Volume scan Required (Yes/No) | Remarks |
|-------------------------------|--------------------------------------------|--------------------------------|---------------|----------------|-----------------|---------------|-------------------------------|---------|
|                               |                                            | antenna 1                      | antenna 2     |                |                 |               |                               |         |
| Front (Patient side) and Rear | ≈ 500 mm                                   | 1.6 (*.limit)                  | 1.6 (*.limit) | 3.2            | Yes             | <b>0.01</b>   | No                            | -       |
| Left (antenna 1 side)         | ≈ 390 mm                                   | 1.6 (*.limit)                  | 1.6 (*.limit) | 3.2            | Yes             | <b>0.02</b>   | No                            | -       |
| Bottom (antenna 2 side)       | ≈ 310 mm                                   | 1.6 (*.limit)                  | 1.6 (*.limit) | 3.2            | Yes             | <b>0.02</b>   | No                            | -       |

- \*. (Calculating formula, KDB447498 D01) SPLSR = (SAR1 + SAR2) × 1.5 / R (distance between pair of antennas, mm)  
where SAR1 and SAR2 are the highest reported SAR values for the two sources in the pair.

#### 6.4 SAR Measurement Variability (Repeated measurement requirement)

**Result: Pass** (“Largest to Smallest SAR Ratio” is smaller than KDB 865664 D01 requirement.)

- \*. In accordance with published RF Exposure KDB procedure 865664 D01 (v01r04) SAR measurement 100 MHz to 6 GHz. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.
- 1) Repeated measurement is not required when the original highest measured SAR(1g) is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

| EUT setup |          | Band [GHz] | Mode       | Frequency [MHz] | Measured SAR(1g) [W/kg] |       |                          |        |       |        |                          |       |       |       | SAR plot # in Appendix 2-2 / Setup photo# in Appendix 1-3 |                          |                          |
|-----------|----------|------------|------------|-----------------|-------------------------|-------|--------------------------|--------|-------|--------|--------------------------|-------|-------|-------|-----------------------------------------------------------|--------------------------|--------------------------|
| Antenna   | Position |            |            |                 | Original                |       | 1 <sup>st</sup> Repeated |        |       |        | 2 <sup>nd</sup> Repeated |       |       |       | Original                                                  | 1 <sup>st</sup> Repeated | 2 <sup>nd</sup> Repeated |
|           |          |            |            |                 | Highest                 | Judge | Measured                 | Judge  | Ratio | Judge  | Measured                 | Judge | Ratio | Judge |                                                           |                          |                          |
| Antenna 1 | Left     | 2.4        | b (1Mbps)  | 2412            | 0.553                   | < 0.8 | n/a                      | -      | -     | -      | -                        | -     | -     | -     | -                                                         | -                        | -                        |
| Antenna 1 | Left     | 5.2&5.3    | a (6Mbps)  | 5180            | 1.01                    | ≥ 0.8 | 1.03                     | < 1.45 | 1.02  | < 1.20 | n/a                      | -     | -     | -     | Plot 2c-1<br>Photo. P1                                    | Plot 5a-1<br>Photo. P9   | -                        |
| Antenna 1 | Left     | 5.6        | n40 (MCS0) | 5670            | 0.880                   | ≥ 0.8 | n/a (*1)                 | -      | -     | -      | -                        | -     | -     | -     | -                                                         | -                        | -                        |
| Antenna 1 | Left     | 5.8        | a (6Mbps)  | 5745            | 0.791                   | < 0.8 | n/a                      | -      | -     | -      | -                        | -     | -     | -     | -                                                         | -                        | -                        |
| Antenna 2 | Bottom   | 2.4        | b (1Mbps)  | 2412            | 0.445                   | < 0.8 | n/a                      | -      | -     | -      | -                        | -     | -     | -     | -                                                         | -                        | -                        |
| Antenna 2 | Bottom   | 5.2&5.3    | a (6Mbps)  | 5220            | 0.465                   | < 0.8 | n/a                      | -      | -     | -      | -                        | -     | -     | -     | -                                                         | -                        | -                        |
| Antenna 2 | Bottom   | 5.6        | n40 (MCS0) | 5550            | 0.648                   | < 0.8 | n/a                      | -      | -     | -      | -                        | -     | -     | -     | -                                                         | -                        | -                        |
| Antenna 2 | Bottom   | 5.8        | a (6Mbps)  | 5745            | 0.601                   | < 0.8 | n/a                      | -      | -     | -      | -                        | -     | -     | -     | -                                                         | -                        | -                        |

- \*. Calculating formula: “Ratio”: Largest to Smallest SAR Ratio (%) = (Largest SAR (W/kg)) / Smallest SAR (W/kg)
- \*. Mode; b: IEEE 802.11b, a: IEEE 802.11a, n40 IEEE 802.11n(40HT).
- \*1. Repeated test was only applied to the highest measured SAR (1g) condition representatively.

#### 6.5 Device holder perturbation verification

**Result: Since all the reported (scaled) SAR are less than 1.2 W/kg (SAR(1g)), the additional “device holder perturbation verification” measurement is not considered.**

- \*. When the highest reported SAR of an antenna is > 1.2 W/kg, holder perturbation verification (by Urethane form alone) is required by using the highest SAR configuration among all applicable frequency bands.

## APPENDIX 2: SAR Measurement data

### Appendix 2-1: Worst Scaled (Reported) SAR Plot on each antenna

#### Plot 1a-1: DTS (2.4GHz) band, Antenna 1; Left & touch / 11b (1Mbps) / 2412 MHz

EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008

Mode: 11b(1Mbps, DSSS) (UID: 0, Wi-fi\_2.4GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2412 MHz; Crest Factor: 1.0

Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.819$  S/m;  $\epsilon_r = 39.75$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(7.35, 7.35, 7.35) @ 2412 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0, 161.0$

touch,h24a,right,at1b(chain0)/o24h1,2412,at1,right&d0,b(1m)

Area:70x96,10,12 (8x9x1): Measurement grid:  $dx=10$ mm,  $dy=12$ mm; Maximum value of SAR (measured) = 0.650 W/kg

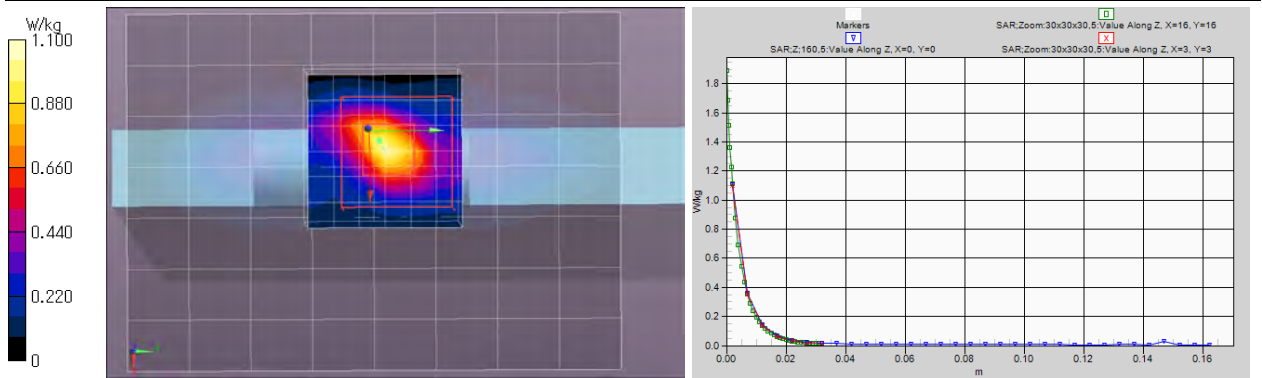
Area:70x96,10,12 (71x81x1): Interpolated grid:  $dx=1.000$  mm,  $dy=1.200$  mm; Maximum value of SAR (interpolated) = 0.828 W/kg

Z;160,5 (1x1x33): Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 1.11 W/kg

Zoom:30x30x30,5 (7x7x7)/Cube 0: Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm;

Reference Value = 24.64 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 1.10 W/kg; Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 0.553 W/kg; SAR(10 g) = 0.187 W/kg (\*Smallest distance from peaks to all points 3 dB below = 5.4 mm; Ratio of SAR at M2 to SAR at M1 = 32%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60)%RH,  
\* liquid temperature: 22.6(start)/22.6(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

#### Plot 1b-1: DTS (2.4GHz) band, Antenna 2; Bottom & touch / 11b (1Mbps) / 2412 MHz

EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008

Mode: 11b(1Mbps, DSSS) (UID: 0, Wi-fi\_2.4GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2412 MHz; Crest Factor: 1.0

Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.819$  S/m;  $\epsilon_r = 39.75$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(7.35, 7.35, 7.35) @ 2412 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0, 161.0$

touch,h24b,btm,sub(chain1)/o24h6,2412,at2,btm&d0,b(1m)

Area:60x108,10,12 (7x10x1): Measurement grid:  $dx=10$ mm,  $dy=12$ mm; Maximum value of SAR (measured) = 0.682 W/kg

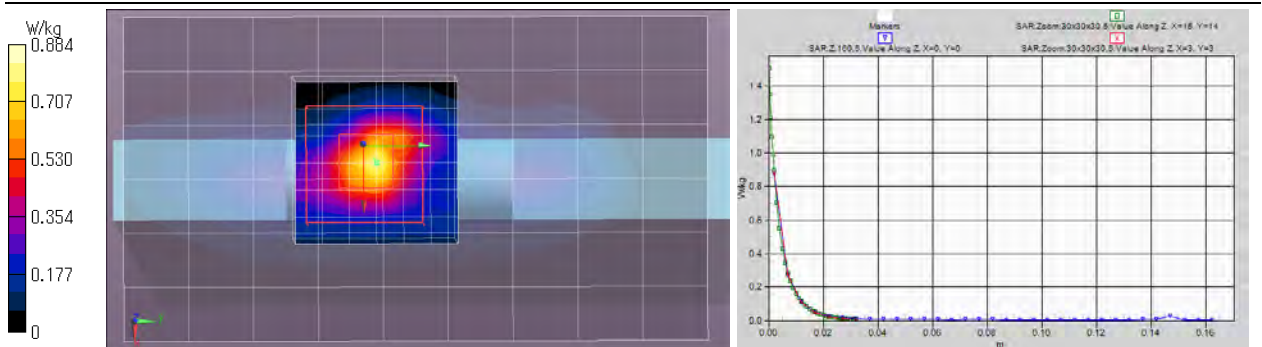
Area:60x108,10,12 (61x91x1): Interpolated grid:  $dx=1.000$  mm,  $dy=1.200$  mm; Maximum value of SAR (interpolated) = 0.738 W/kg

Z;160,5 (1x1x33): Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 0.876 W/kg

Zoom:30x30x30,5 (7x7x7)/Cube 0: Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm;

Reference Value = 22.20 V/m; Power Drift = 0.06 dB; Maximum value of SAR (measured) = 0.884 W/kg; Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.445 W/kg; SAR(10 g) = 0.156 W/kg (\*Smallest distance from peaks to all points 3 dB below = 5.7 mm; Ratio of SAR at M2 to SAR at M1 = 31%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60)%RH,  
\* liquid temperature: 22.5(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**APPENDIX 2: SAR Measurement data / Appendix 2-1: Worst Scaled (Reported) SAR Plot (cont'd)**

**Plot 2a-1: U-NII-2A (5.3GHz) band, Antenna 1; Left & touch / 11a (6Mbps) / 5260 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5260 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.525$  S/m;  $\epsilon_r = 35.29$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5260 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0, 156.0$

**touchp85,h5a,right,atl(chain0)o5h19,53.3,5260,atl,right&d0,a(6m)/**

**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 1.33 W/kg

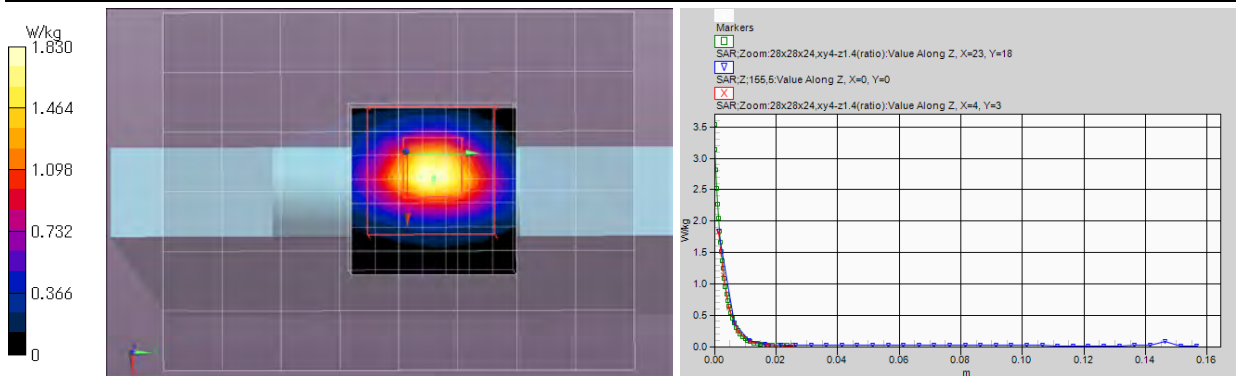
**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 1.87 W/kg

**Z;155.5 (1x1x32):** Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 1.84 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7) Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 22.59 V/m; Power Drift = 0.10 dB; Maximum value of SAR (measured) = 1.83 W/kg; Peak SAR (extrapolated) = 3.53 W/kg

**SAR(1 g) = 0.727 W/kg; SAR(10 g) = 0.192 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.3 mm; Ratio of SAR at M2 to SAR at M1 = 62.7%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.5(start)/22.5(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 2b-1: U-NII-2A (5.3GHz) band, Antenna 2; Bottom & touch / 11a (6Mbps) / 5260 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5260 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.525$  S/m;  $\epsilon_r = 35.29$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5260 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0, 156.0$

**touch,h5c,btm,sub(chain1)o5h40,53.7,ant2,5260,btm&d0,a(6m)/**

**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.767 W/kg

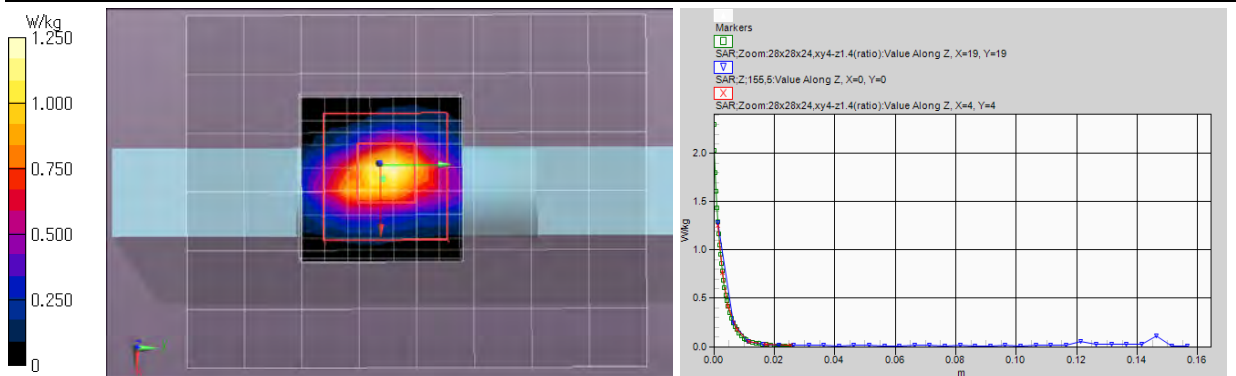
**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 0.910 W/kg

**Z;155.5 (1x1x32):** Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 1.28 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7) Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 17.09 V/m; Power Drift = 0.20 dB; Maximum value of SAR (measured) = 1.25 W/kg; Peak SAR (extrapolated) = 2.30 W/kg

**SAR(1 g) = 0.460 W/kg; SAR(10 g) = 0.124 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.9 mm; Ratio of SAR at M2 to SAR at M1 = 60.8%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**APPENDIX 2: SAR Measurement data / Appendix 2-1: Worst Scaled (Reported) SAR Plot (cont'd)**

**Plot 2c-1: U-NII-1 (5.2GHz) band, Antenna 1; Left & touch / 11a (6Mbps) / 5220 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5220 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5220$  MHz;  $\sigma = 4.476$  S/m;  $\epsilon_r = 35.35$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5220 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0, 156.0$

**touch.p85.h5a.right.at1(chain0)5h10.522.5220.at1.right&d0.a(6m)**

**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 1.63 W/kg

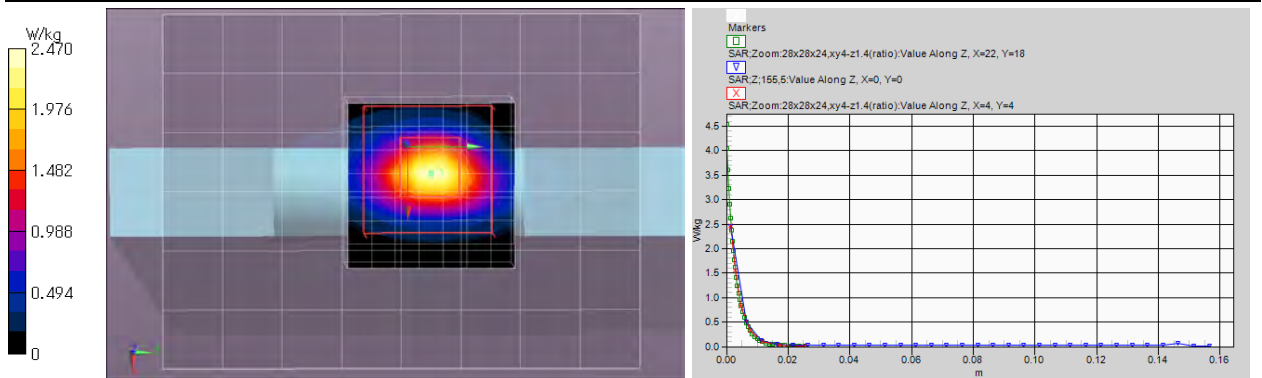
**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 2.41 W/kg

**Z;155.5 (1x1x32):** Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 2.45 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 26.80 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 2.47 W/kg; Peak SAR (extrapolated) = 4.53 W/kg

**SAR(1 g) = 0.948 W/kg; SAR(10 g) = 0.246 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.8 mm; Ratio of SAR at M2 to SAR at M1 = 63%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.4(start)/22.5(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

**Plot 2d-1: U-NII-1 (5.2GHz) band, Antenna 2; Bottom & touch / 11a (6Mbps) / 5220 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5220 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5220$  MHz;  $\sigma = 4.476$  S/m;  $\epsilon_r = 35.35$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5220 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0, 156.0$

**touch.h5c.btm.sub(chain1)/o5h31.52.5.ant2.5220.btm&d0.a(6m)**

**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.896 W/kg

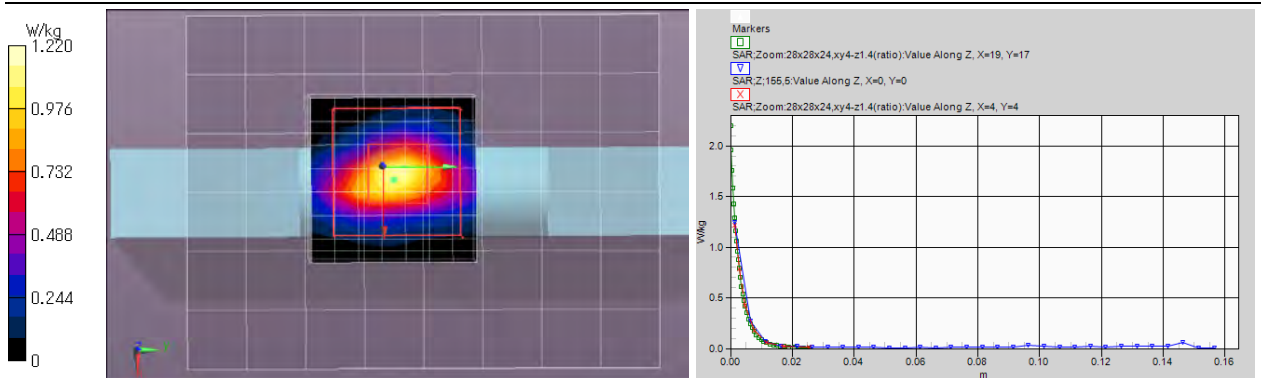
**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 1.17 W/kg

**Z;155.5 (1x1x32):** Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 1.24 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 18.54 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 1.22 W/kg; Peak SAR (extrapolated) = 2.19 W/kg

**SAR(1 g) = 0.465 W/kg; SAR(10 g) = 0.124 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 5.1 mm; Ratio of SAR at M2 to SAR at M1 = 64.5%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

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**APPENDIX 2: SAR Measurement data / Appendix 2-1: Worst Scaled (Reported) SAR Plot (cont'd)**

**Plot 3a-1: U-NII-2C (5.6GHz) band, Antenna 1; Left & touch / 11n(40HT) (MCS0) / 5670 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5670 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5670$  MHz;  $\sigma = 4.977$  S/m;  $\epsilon_r = 34.60$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5670 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0, 156.0$

**touchp85,h5a,right,atl(chain0)/o5h3,56.1,5670,atl,right&d0,n40(m0)/**

**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 1.68 W/kg

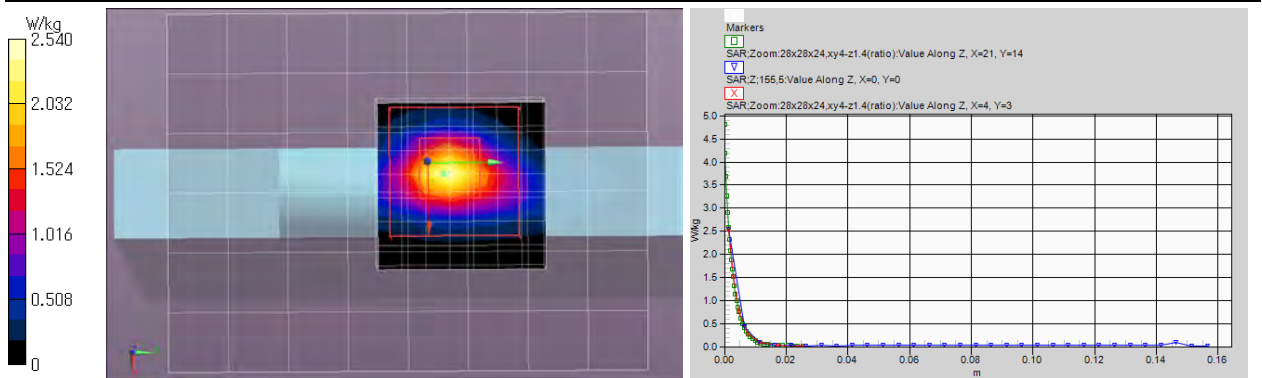
**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 2.25 W/kg

**Z:155.5 (1x1x32):** Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 2.54 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 25.31 V/m; Power Drift = -0.12 dB; Maximum value of SAR (measured) = 2.54 W/kg; Peak SAR (extrapolated) = 4.81 W/kg

**SAR(1 g) = 0.880 W/kg; SAR(10 g) = 0.219 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.8 mm; Ratio of SAR at M2 to SAR at M1 = 59.5%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70) %RH,  
\* liquid temperature: 22.4(start)/22.3(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

**Plot 3b-1: U-NII-2C (5.6GHz) band, Antenna 2; Bottom & touch / 11n(40HT) (MCS0) / 5550 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5550 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5550$  MHz;  $\sigma = 4.836$  S/m;  $\epsilon_r = 34.77$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5550 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0, 156.0$

**touch,h5c,btm,sub(chain1)/o5h26,56.11,ant2,5550,btm&d0,n40(m0)/**

**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 1.30 W/kg

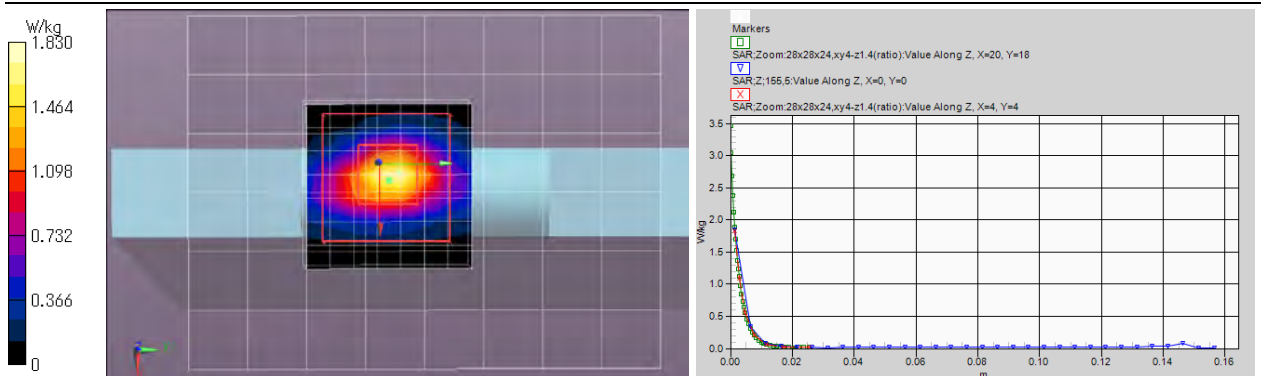
**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 1.50 W/kg

**Z:155.5 (1x1x32):** Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 1.84 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 21.68 V/m; Power Drift = -0.07 dB; Maximum value of SAR (measured) = 1.83 W/kg; Peak SAR (extrapolated) = 3.46 W/kg

**SAR(1 g) = 0.648 W/kg; SAR(10 g) = 0.163 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.9 mm; Ratio of SAR at M2 to SAR at M1 = 59.8%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70) %RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

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**APPENDIX 2: SAR Measurement data / Appendix 2-1: Worst Scaled (Reported) SAR Plot (cont'd)**

**Plot 4a-1: U-NII-3 (5.8GHz) band, Antenna 1; Left & touch / 11n(40HT) (MCS0) / 5755 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5755 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated): f = 5755 MHz;  $\sigma = 5.062$  S/m;  $\epsilon_r = 34.46$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5755 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0, 156.0

**touch,p85,h5a,right,atl(chain0)05h1,58.1,5755,atl,right&d0,n40(m0)**

**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 1.34 W/kg

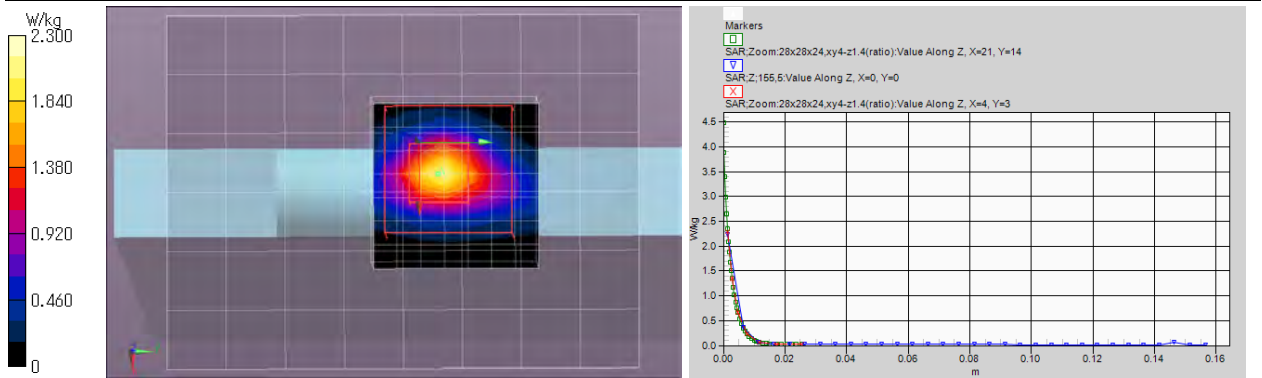
**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.85 W/kg

**Z;155,5 (1x1x32):** Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 2.24 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 23.64 V/m; Power Drift = 0.10 dB; Maximum value of SAR (measured) = 2.30 W/kg; Peak SAR (extrapolated) = 4.48 W/kg

**SAR(1 g) = 0.791 W/kg; SAR(10 g) = 0.199 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.7 mm; Ratio of SAR at M2 to SAR at M1 = 58.4%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70) %RH,  
\* liquid temperature: 22.5(start)/22.4(end)/22.5(in check) deg.C.; \*White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 4b-1: U-NII-3 (5.8GHz) band, Antenna 2; Bottom & touch / 11a (6Mbps) / 5745 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5745 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated): f = 5745 MHz;  $\sigma = 5.054$  S/m;  $\epsilon_r = 34.47$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5745 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0, 156.0

**touch,h5c,btm,sub(chain1)05h38,58.9,ant2,5745,btm&d0,a(6m)**

**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 1.09 W/kg

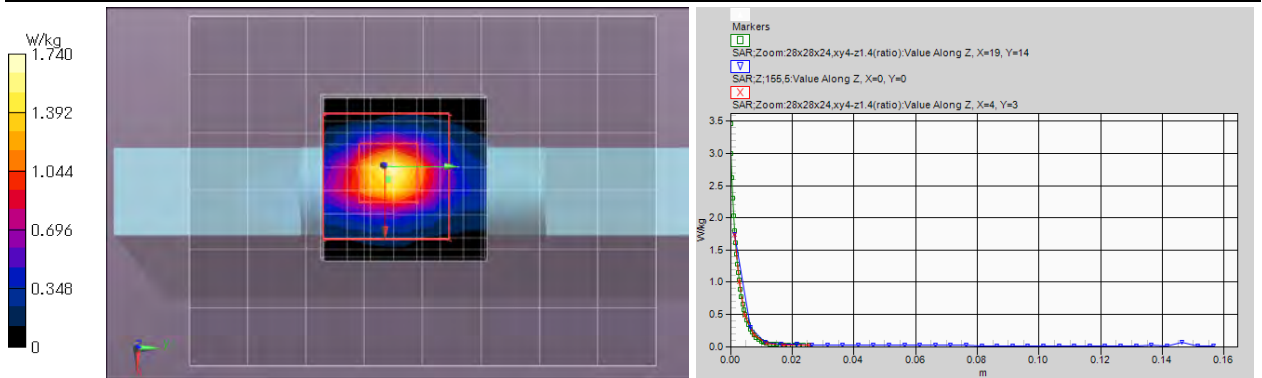
**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.26 W/kg

**Z;155,5 (1x1x32):** Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 1.74 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 20.29 V/m; Power Drift = 0.01 dB; Maximum value of SAR (measured) = 1.74 W/kg; Peak SAR (extrapolated) = 3.46 W/kg

**SAR(1 g) = 0.601 W/kg; SAR(10 g) = 0.148 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.8 mm; Ratio of SAR at M2 to SAR at M1 = 57.8%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70) %RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \*White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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Appendix 2: SAR measurement data (cont'd)

Appendix 2-2: Repeat test plot (SAR measurement variability)

Plot 5a-1: U-NII-2C (5.6GHz) band, Antenna 1; Left & touch / 11a (6Mbps) / 5180 MHz

EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008

Mode: 11a(6Mbps, OFDM) (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 5180 MHz; Crest Factor: 1.0

Medium: HSL5GHz(v6.2111); Medium parameters used: f = 5180 MHz;  $\sigma = 4.437 \text{ S/m}$ ;  $\epsilon_r = 35.48$ ;  $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5180 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0, 156.0

repeat/5h62-5h9re,52.1re,5180,at1,right&d0,a(6m)/

Area:60x80,10 (7x9x1): Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 1.86 W/kg

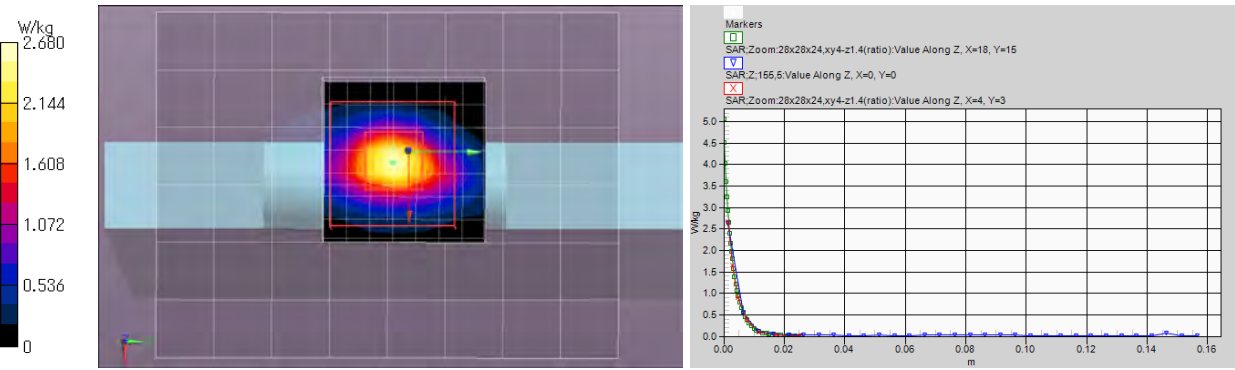
Area:60x80,10 (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 2.59 W/kg

Z;155,5 (1x1x32): Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 2.63 W/kg

Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 27.63 V/m; Power Drift = -0.12 dB; Maximum value of SAR (measured) = 2.68 W/kg; Peak SAR (extrapolated) = 5.06 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.263 W/kg (\*Smallest distance from peaks to all points 3 dB below = 4.8 mm; Ratio of SAR at M2 to SAR at M1 = 62%)



Remarks: \*. Date tested: 2021/11/2; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\*. liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70)%RH,  
\*. liquid temperature: 22.6(start)/22.6(end)/22.5(in check) deg.C.; \*. White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

## Appendix 2: SAR measurement data (cont'd)

### Appendix 2-3: Other SAR Plots

#### Plot 1a-2: DTS (2.4GHz) band, Antenna 1; Left & touch / 11b (1Mbps) / 2462 MHz

EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008

Mode: 11b(1Mbps, DSSS) (UID: 0, Wi-fi\_2.4GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2462 MHz; Crest Factor: 1.0

Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.858$  S/m;  $\epsilon_r = 39.68$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(7.35, 7.35, 7.35) @ 2462 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

touch,h24a,right,at1b(chain0)/24h2,2462,at1,right&d0,b(1m)/

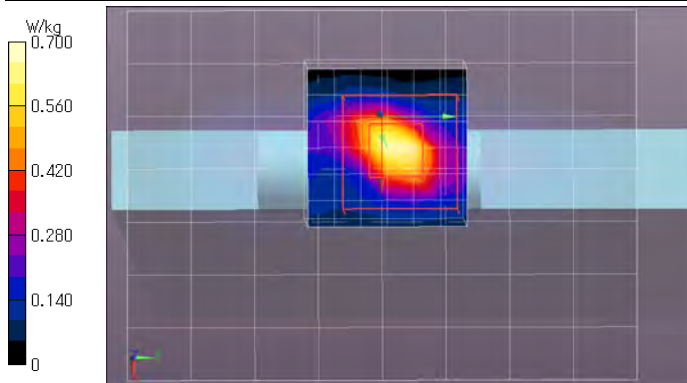
Area:70x96,10,12 (8x9x1): Measurement grid:  $dx=10$ mm,  $dy=12$ mm; Maximum value of SAR (measured) = 0.443 W/kg

Area:70x96,10,12 (71x81x1): Interpolated grid:  $dx=1.000$  mm,  $dy=1.200$  mm; Maximum value of SAR (interpolated) = 0.587 W/kg

Zoom:30x30x30,5 (7x7x7)/Cube 0: Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm;

Reference Value = 19.56 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 0.700 W/kg; Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.377 W/kg; SAR(10 g) = 0.126 W/kg (\*Smallest distance from peaks to all points 3 dB below = 5.4 mm; Ratio of SAR at M2 to SAR at M1 = 31.7%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.6(start)/22.6(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

#### Plot 1a-3: DTS (2.4GHz) band, Antenna 1; Left & touch / 11b (1Mbps) / 2437 MHz

EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008

Mode: 11b(1Mbps, DSSS) (UID: 0, Wi-fi\_2.4GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); Frequency: 2437 MHz; Crest Factor: 1.0

Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.839$  S/m;  $\epsilon_r = 39.72$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(7.35, 7.35, 7.35) @ 2437 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

touch,h24a,right,at1b(chain0)/24h3,2437,at1,right&d0,b(1m)/

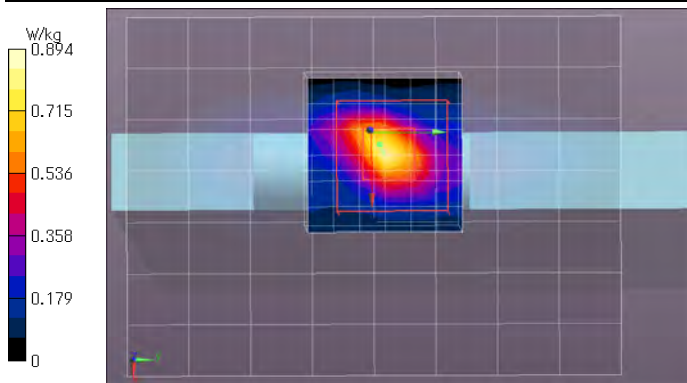
Area:70x96,10,12 (8x9x1): Measurement grid:  $dx=10$ mm,  $dy=12$ mm; Maximum value of SAR (measured) = 0.515 W/kg

Area:70x96,10,12 (71x81x1): Interpolated grid:  $dx=1.000$  mm,  $dy=1.200$  mm; Maximum value of SAR (interpolated) = 0.650 W/kg

Zoom:30x30x30,5 (7x7x7)/Cube 0: Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm;

Reference Value = 22.08 V/m; Power Drift = -0.01 dB; Maximum value of SAR (measured) = 0.894 W/kg; Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 0.447 W/kg; SAR(10 g) = 0.151 W/kg (\*Smallest distance from peaks to all points 3 dB below = 5.4 mm; Ratio of SAR at M2 to SAR at M1 = 31.9%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.6(start)/22.6(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 1a-4: DTS (2.4GHz) band, Antenna 1; Left & touch / 11g (6Mbps) / 2437 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11g(6Mbps, OFDM)** (UID: 0, Wi-fi\_2.4GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2437 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated): f = 2437 MHz;  $\sigma = 1.839$  S/m;  $\epsilon_r = 39.722$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(7.35, 7.35, 7.35) @ 2437 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 31.0

**touch,h24a,right,at1b(chain0)/24h4,2437,at1,right&d0,g(6m)/**

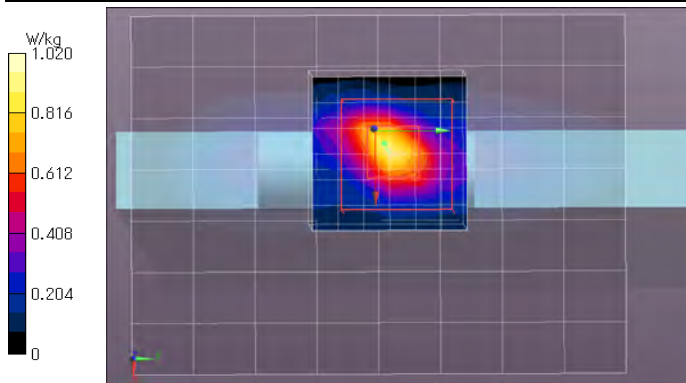
**Area:70x96,10,12 (8x9x1):** Measurement grid: dx=10mm, dy=12mm; Maximum value of SAR (measured) = 0.614 W/kg

**Area:70x96,10,12 (71x81x1):** Interpolated grid: dx=1.000 mm, dy=1.200 mm; Maximum value of SAR (interpolated) = 0.770 W/kg

**Zoom:30x30x30,5 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Reference Value = 23.62 V/m; Power Drift = -0.05 dB; Maximum value of SAR (measured) = 1.02 W/kg; Peak SAR (extrapolated) = 1.76 W/kg

**SAR(1 g) = 0.511 W/kg; SAR(10 g) = 0.172 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 5.4 mm; Ratio of SAR at M2 to SAR at M1 = 31.6%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.6(start)/22.6(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 1a-5: DTS (2.4GHz) band, Antenna 1; Rear & touch / 11b (1Mbps) / 2412 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11b(1Mbps, OFDM)** (UID: 0, Wi-fi\_2.4GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2412 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used (interpolated): f = 2412 MHz;  $\sigma = 1.816$  S/m;  $\epsilon_r = 39.90$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(7.35, 7.35, 7.35) @ 2412 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 31.0

**touch,other2/24h12,2412,at1,rear&d0,b(1m)/**

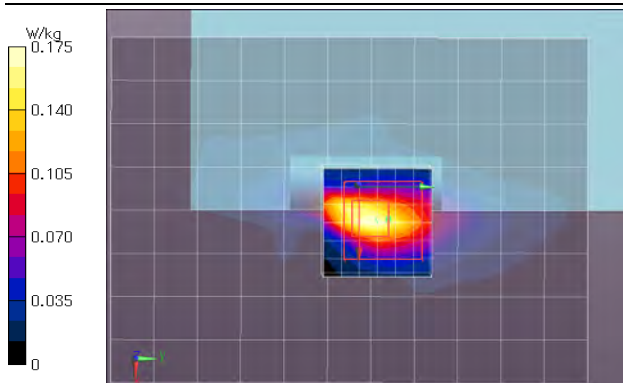
**Area:96x132,12 (9x12x1):** Measurement grid: dx=12mm, dy=12mm; Maximum value of SAR (measured) = 0.166 W/kg

**Area:96x132,12 (81x111x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm; Maximum value of SAR (interpolated) = 0.204 W/kg

**Zoom:30x30x30,5 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Reference Value = 9.574 V/m; Power Drift = 0.05 dB; Maximum value of SAR (measured) = 0.175 W/kg; Peak SAR (extrapolated) = 0.306 W/kg

**SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.044 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 6 mm; Ratio of SAR at M2 to SAR at M1 = 43.3%)



Remarks: \* Date tested: 2021/11/1; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70) %RH,  
\* liquid temperature: 22.5(start)/22.5(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 1a-6: DTS (2.4GHz) band, Antenna 1; Front & touch / 11b (1Mbps) / 2412 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11b(1Mbps, OFDM)** (UID: 0, Wi-fi\_2.4GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2412 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.816$  S/m;  $\epsilon_r = 39.90$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(7.35, 7.35, 7.35) @ 2412 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

**touch,other3/24h14,2412,at1,frt&d0,b(1m)**

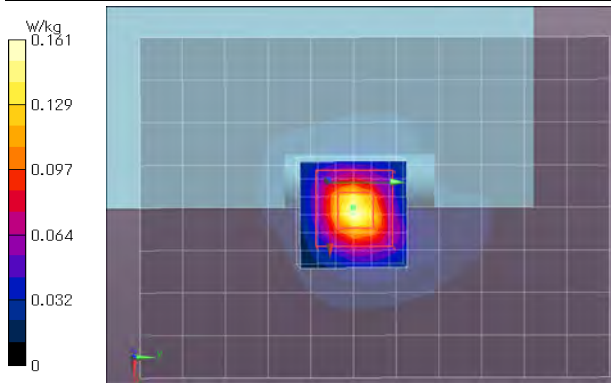
**Area:96x132,12 (9x12x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm; Maximum value of SAR (measured) = 0.162 W/kg

**Area:96x132,12 (81x111x1):** Interpolated grid:  $dx=1.200$  mm,  $dy=1.200$  mm; Maximum value of SAR (interpolated) = 0.162 W/kg

**Zoom:30x30x30,5 (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm;

Reference Value = 9.721 V/m; Power Drift = -0.09 dB; Maximum value of SAR (measured) = 0.161 W/kg; Peak SAR (extrapolated) = 0.233 W/kg

**SAR(1 g) = 0.097 W/kg; SAR(10 g) = 0.041 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 8 mm; Ratio of SAR at M2 to SAR at M1 = 44.3%)



Remarks: \* Date tested: 2021/11/1; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70)%RH,  
\* liquid temperature: 22.5(start)/22.5(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

**Plot 1a-7: DTS (2.4GHz) band, Antenna 1; Front & touch / 11b (1Mbps) / 2412 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11b(1Mbps, OFDM)** (UID: 0, Wi-fi\_2.4GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2412 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used (interpolated):  $f = 2412$  MHz;  $\sigma = 1.816$  S/m;  $\epsilon_r = 39.90$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(7.35, 7.35, 7.35) @ 2412 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0$

**touch,other/24h10,2412,at1,top&d0,b(1m)**

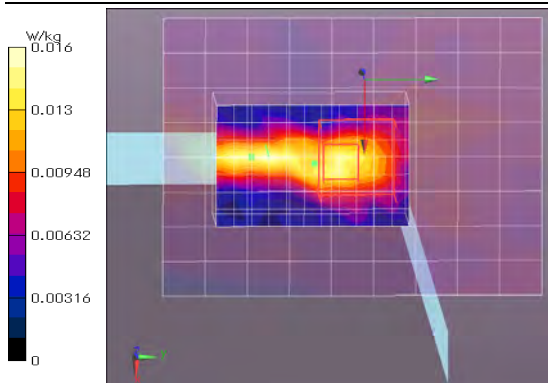
**Area:80x108,10,12 (9x10x1):** Measurement grid:  $dx=10$ mm,  $dy=12$ mm; Maximum value of SAR (measured) = 0.0191 W/kg

**Area:80x108,10,12 (81x91x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.200$  mm; Maximum value of SAR (interpolated) = 0.0191 W/kg

**Zoom:30x30x30,5 2 (8x12x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm;

Reference Value = 2.859 V/m; Power Drift = 0.20 dB; Maximum value of SAR (measured) = 0.0158 W/kg; Peak SAR (extrapolated) = 0.0360 W/kg

**SAR(1 g) = 0.011 W/kg; SAR(10 g) = 0.00499 W/kg** (\*Ratio of SAR at M2 to SAR at M1 = 43.8%)



Remarks: \* Date tested: 2021/11/1; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70)%RH,  
\* liquid temperature: 22.3(start)/22.3(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 1b-2:DTS (2.4GHz) band, Antenna 2; Bottom & touch / 11b (1Mbps) / 2437 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11b(1Mbps, DSSS)** (UID: 0, Wi-fi\_2.4GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2437 MHz; Crest Factor: 1.0**  
**Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated): f = 2437 MHz;  $\sigma = 1.839$  S/m;  $\epsilon_r = 39.72$ ;  $\rho = 1000$  kg/m<sup>3</sup>**  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(7.35, 7.35, 7.35) @ 2437 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 31.0

**touch,h24b,btm,sub(chain1)24h7,2437,at2,btm&d0,b(1m)/**

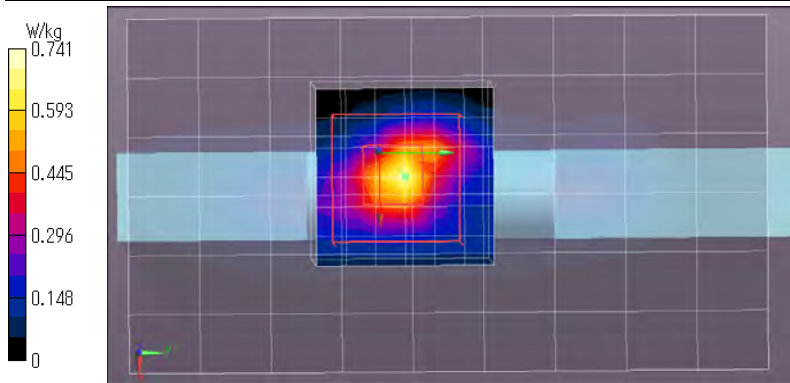
**Area:60x108,10,12 (7x10x1):** Measurement grid: dx=10mm, dy=12mm; Maximum value of SAR (measured) = 0.560 W/kg

**Area:60x108,10,12 (61x91x1):** Interpolated grid: dx=1.000 mm, dy=1.200 mm; Maximum value of SAR (interpolated) = 0.605 W/kg

**Zoom:30x30x30,5 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Reference Value = 20.47 V/m; Power Drift = -0.07 dB; Maximum value of SAR (measured) = 0.741 W/kg; Peak SAR (extrapolated) = 1.27 W/kg

**SAR(1 g) = 0.367 W/kg; SAR(10 g) = 0.128 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 5.4 mm; Ratio of SAR at M2 to SAR at M1 = 30.4%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

**Plot 1b-3: DTS (2.4GHz) band, Antenna 2; Bottom & touch / 11b (1Mbps) / 2462 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11b(1Mbps, DSSS)** (UID: 0, Wi-fi\_2.4GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2462 MHz; Crest Factor: 1.0**  
**Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated): f = 2462 MHz;  $\sigma = 1.858$  S/m;  $\epsilon_r = 39.68$ ;  $\rho = 1000$  kg/m<sup>3</sup>**  
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(7.35, 7.35, 7.35) @ 2462 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 31.0

**touch,h24b,btm,sub(chain1)24h8,2462,at2,btm&d0,b(1m)/**

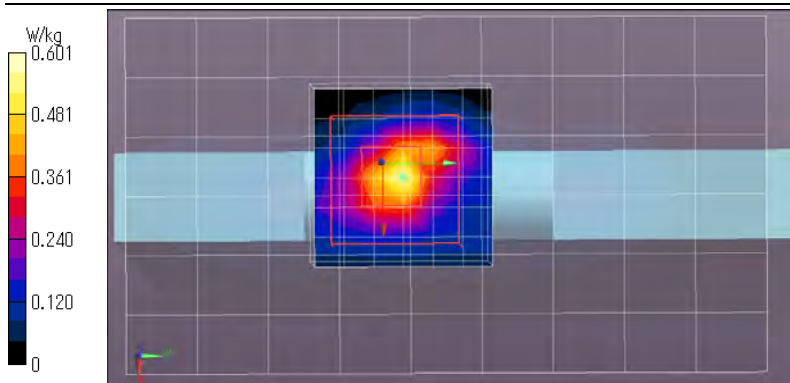
**Area:60x108,10,12 (7x10x1):** Measurement grid: dx=10mm, dy=12mm; Maximum value of SAR (measured) = 0.442 W/kg

**Area:60x108,10,12 (61x91x1):** Interpolated grid: dx=1.000 mm, dy=1.200 mm; Maximum value of SAR (interpolated) = 0.480 W/kg

**Zoom:30x30x30,5 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Reference Value = 18.25 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 0.601 W/kg; Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.103 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 5 mm; Ratio of SAR at M2 to SAR at M1 = 30.3%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.4(start)/22.3(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 1b-4:DTS (2.4GHz) band, Antenna 2; Bottom & touch / 11g (6Mbps) / 2437 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11g(6Mbps, OFDM)** (UID: 0, Wi-fi\_2.4GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2437 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated): f = 2437 MHz;  $\sigma = 1.839$  S/m;  $\epsilon_r = 39.72$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(7.35, 7.35, 7.35) @ 2437 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 31.0

**touch,h24b,btm,sub(chain1)24h9,2437,at2,btm&d0,g(6m)/**

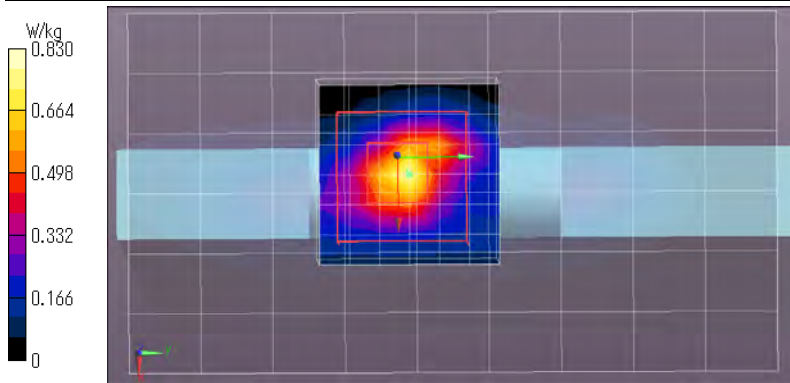
**Area:60x108,10,12 (7x10x1):** Measurement grid: dx=10mm, dy=12mm; Maximum value of SAR (measured) = 0.626 W/kg

**Area:60x108,10,12 (61x91x1):** Interpolated grid: dx=1.000 mm, dy=1.200 mm; Maximum value of SAR (interpolated) = 0.670 W/kg

**Zoom:30x30x30,5 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Reference Value = 21.80 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 0.830 W/kg; Peak SAR (extrapolated) = 1.41 W/kg

**SAR(1 g) = 0.414 W/kg; SAR(10 g) = 0.144 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 5.4 mm; Ratio of SAR at M2 to SAR at M1 = 30.7%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60)%RH,  
\* liquid temperature: 22.3(start)/22.3(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 1b-5: DTS (2.4GHz) band, Antenna 2; Rear & touch / 11b (1Mbps) / 2412 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11b(1Mbps, OFDM)** (UID: 0, Wi-fi\_2.4GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2412 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used (interpolated): f = 2412 MHz;  $\sigma = 1.816$  S/m;  $\epsilon_r = 39.90$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(7.35, 7.35, 7.35) @ 2412 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 31.0

**touch,other2/24h13,2412,at2,rear&d0,b(1m)/**

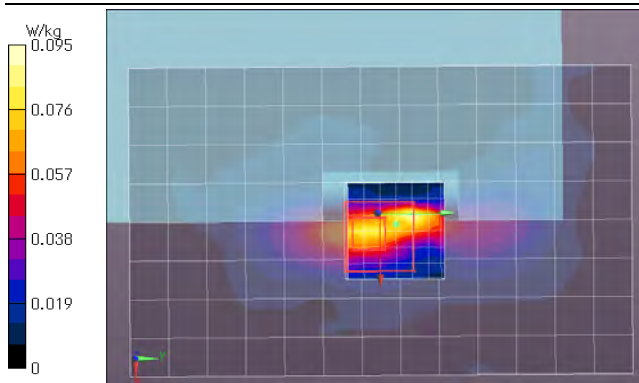
**Area:96x156,12 (9x14x1):** Measurement grid: dx=12mm, dy=12mm; Maximum value of SAR (measured) = 0.0924 W/kg

**Area:96x156,12 (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm; Maximum value of SAR (interpolated) = 0.0977 W/kg

**Zoom:30x30x30,5 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Reference Value = 7.231 V/m; Power Drift = -0.10 dB; Maximum value of SAR (measured) = 0.0951 W/kg; Peak SAR (extrapolated) = 0.137 W/kg

**SAR(1 g) = 0.054 W/kg; SAR(10 g) = 0.021 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 3 mm; Ratio of SAR at M2 to SAR at M1 = 27.6%)



Remarks: \* Date tested: 2021/11/1; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70)%RH,  
\* liquid temperature: 22.5(start)/22.5(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 1b-6: DTS (2.4GHz) band, Antenna 2; Front & touch / 11b (1Mbps) / 2412 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11b(1Mbps, OFDM)** (UID: 0, Wi-fi\_2.4GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2412 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used (interpolated): f = 2412 MHz;  $\sigma = 1.816$  S/m;  $\epsilon_r = 39.90$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(7.35, 7.35, 7.35) @ 2412 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 31.0

**touch,other3/24h15,2412,at2,frt&d0,b(1m)**

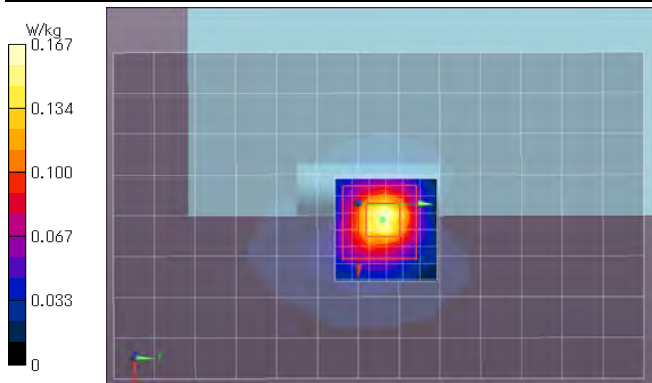
**Area:96x156,12 (9x14x1):** Measurement grid: dx=12mm, dy=12mm; Maximum value of SAR (measured) = 0.139 W/kg

**Area:96x156,12 (81x131x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm; Maximum value of SAR (interpolated) = 0.169 W/kg

**Zoom:30x30x30,5 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Reference Value = 9.941 V/m; Power Drift = -0.09 dB; Maximum value of SAR (measured) = 0.167 W/kg; Peak SAR (extrapolated) = 0.245 W/kg

**SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.045 W/kg** (\*.Smallest distance from peaks to all points 3 dB below = 8.6 mm; Ratio of SAR at M2 to SAR at M1 = 46%)



Remarks: \*. Date tested: 2021/11/1; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\*. liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70)%RH,  
\*. liquid temperature: 22.5(start)/22.5(end)/22.5(in check) deg.C.; \*. White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

**Plot 1b-7: DTS (2.4GHz) band, Antenna 2; Right & touch / 11b (1Mbps) / 2412 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11b(1Mbps, OFDM)** (UID: 0, Wi-fi\_2.4GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 2412 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used (interpolated): f = 2412 MHz;  $\sigma = 1.816$  S/m;  $\epsilon_r = 39.90$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(7.35, 7.35, 7.35) @ 2412 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 31.0

**touch,other24h11,2412,at2,left&d0,b(1m)**

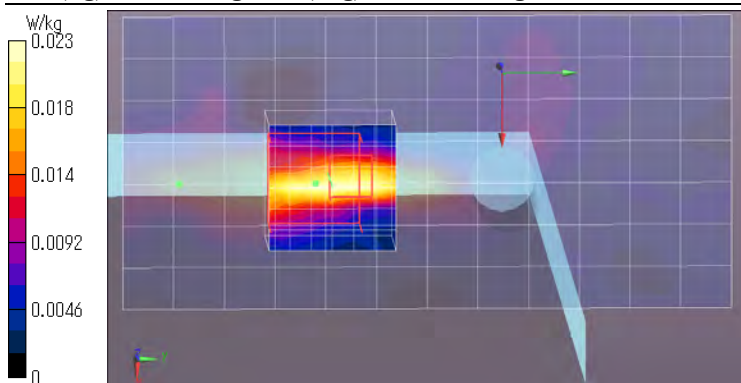
**Area:70x144,10,12 (8x13x1):** Measurement grid: dx=10mm, dy=12mm; Maximum value of SAR (measured) = 0.0248 W/kg

**Area:70x144,10,12 (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.200 mm; Maximum value of SAR (interpolated) = 0.0250 W/kg

**Zoom:30x30x30,5 (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm;

Reference Value = 3.677 V/m; Power Drift = -0.20 dB; Maximum value of SAR (measured) = 0.0230 W/kg; Peak SAR (extrapolated) = 0.0390 W/kg

**SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.00579 W/kg** (\*.Ratio of SAR at M2 to SAR at M1 = 32.5%)



Remarks: \*. Date tested: 2021/11/1; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\*. liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70)%RH,  
\*. liquid temperature: 22.3(start)/22.3(end)/22.5(in check) deg.C.; \*. White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 2a-2: U-NII-2A (5.3GHz) band, Antenna 1; Left & touch / 11n(40HT) (MCS0) / 5310 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5310 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5310$  MHz;  $\sigma = 4.575$  S/m;  $\epsilon_r = 35.19$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5310 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,p85,h5a,right,atl(chain0)5h7,531,5310,atl,right&d0,n40(m0)/**

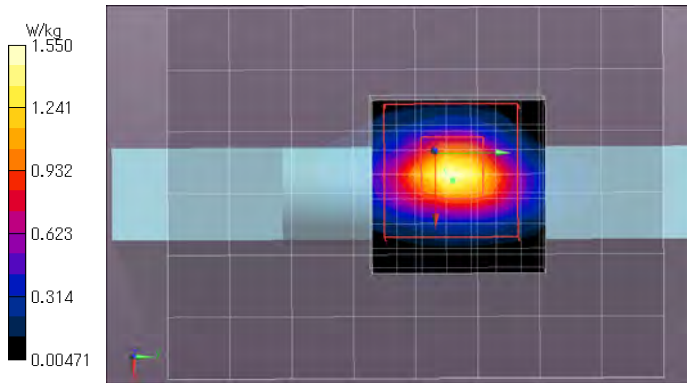
**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 1.13 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.50 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 20.07 V/m; Power Drift = 0.06 dB; Maximum value of SAR (measured) = 1.55 W/kg; Peak SAR (extrapolated) = 2.82 W/kg

**SAR(1 g) = 0.577 W/kg; SAR(10 g) = 0.156 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4 mm; Ratio of SAR at M2 to SAR at M1 = 61%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.3(start)/22.3(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 2a-3: U-NII-2A (5.3GHz) band, Antenna 1; Left & touch / 11n(40HT) (MCS0) / 5270 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5270 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5270$  MHz;  $\sigma = 4.53$  S/m;  $\epsilon_r = 35.24$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5270 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0, 156.0

**touch,p85,h5a,right,atl(chain0)65h8,532,5270,atl,right&d0,n40(m0)/**

**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 1.07 W/kg

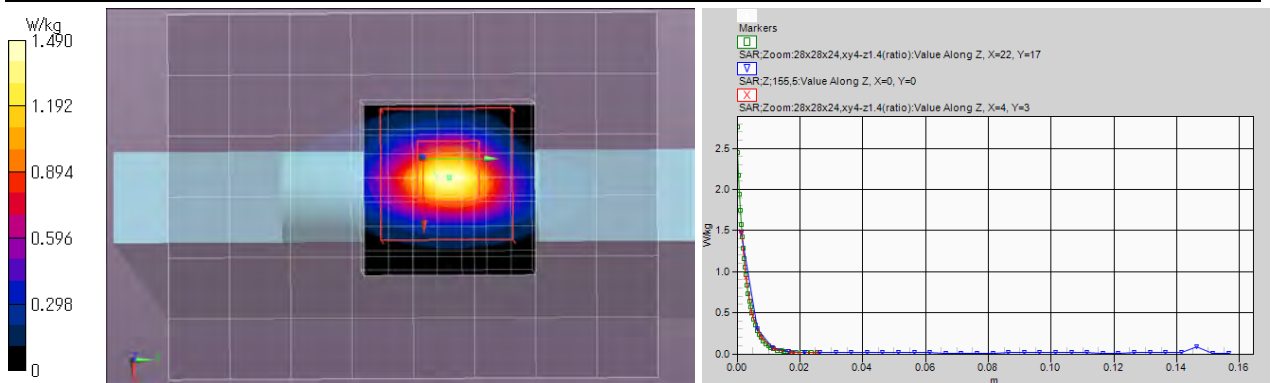
**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.49 W/kg

**Z:155.5 (1x1x32):** Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 1.47 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 20.31 V/m; Power Drift = -0.05 dB; Maximum value of SAR (measured) = 1.49 W/kg; Peak SAR (extrapolated) = 2.76 W/kg

**SAR(1 g) = 0.568 W/kg; SAR(10 g) = 0.150 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.8 mm; Ratio of SAR at M2 to SAR at M1 = 62.5%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.3(start)/22.3(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 2a-4: U-NII-2A (5.3GHz) band, Antenna 1; Left & touch / 11a (6Mbps) / 5320 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5320 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5320$  MHz;  $\sigma = 4.581$  S/m;  $\epsilon_r = 35.18$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5320 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,p85,h5a,right,atl(chain0)5h20,53.4,5320,atl,right&d0,a(6m)/**

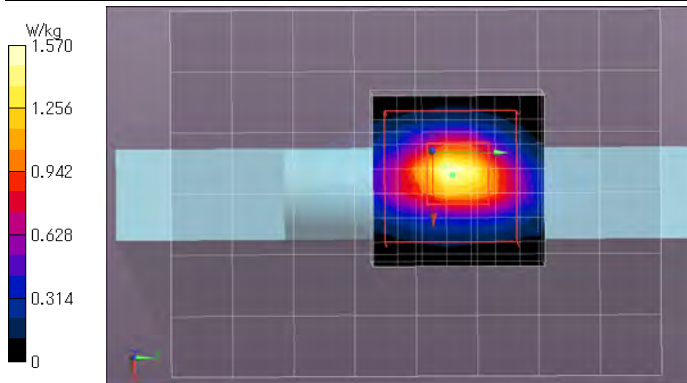
**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 1.15 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.58 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 20.38 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 1.57 W/kg; Peak SAR (extrapolated) = 2.82 W/kg

**SAR(1 g) = 0.584 W/kg; SAR(10 g) = 0.155 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.8 mm; Ratio of SAR at M2 to SAR at M1 = 61.2%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60)%RH,  
\* liquid temperature: 22.5(start)/22.5(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 2a-5: U-NII-2A (5.3GHz) band, Antenna 1; Left & touch / 11a (6Mbps) / 5300 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5300 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5300$  MHz;  $\sigma = 4.569$  S/m;  $\epsilon_r = 35.21$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5300 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,p85,h5a,right,atl(chain0)5h21,53.5,5300,atl,right&d0,a(6m)/**

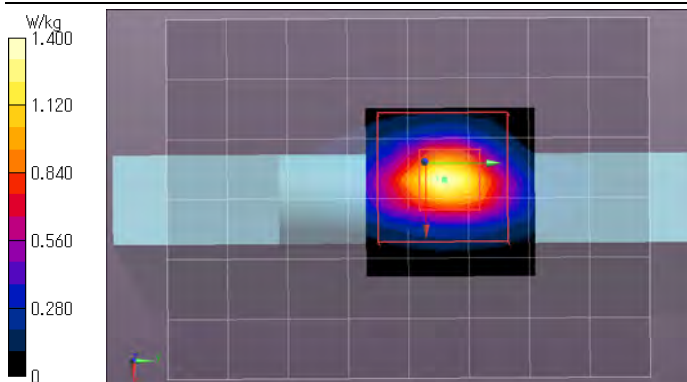
**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 1.04 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.41 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 19.49 V/m; Power Drift = -0.06 dB; Maximum value of SAR (measured) = 1.40 W/kg; Peak SAR (extrapolated) = 2.55 W/kg

**SAR(1 g) = 0.525 W/kg; SAR(10 g) = 0.140 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.8 mm; Ratio of SAR at M2 to SAR at M1 = 61.4%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60)%RH,  
\* liquid temperature: 22.5(start)/22.6(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 2a-6: U-NII-2A (5.3GHz) band, Antenna 1; Rear & touch / 11n(40HT) (MCS0) / 5310 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5310 MHz; Crest Factor: 1.0**  
**Medium: HSL5GHz(v6.2111); Medium parameters used:  $f = 5310$  MHz;  $\sigma = 4.583$  S/m;  $\epsilon_r = 35.25$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5270 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,other25h49,53.12,5310,at1,rear&d0,n40(m0)**

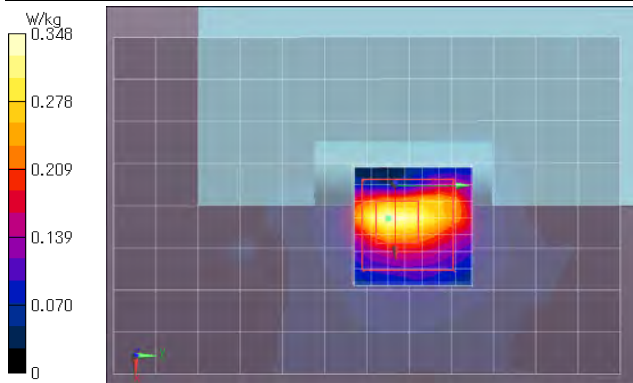
**Area:80x120,10 (9x13x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.300 W/kg

**Area:80x120,10 (81x121x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 0.360 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 9.617 V/m; Power Drift = 0.03 dB; Maximum value of SAR (measured) = 0.348 W/kg; Peak SAR (extrapolated) = 0.609 W/kg

**SAR(1 g) = 0.152 W/kg; SAR(10 g) = 0.061 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.8 mm; Ratio of SAR at M2 to SAR at M1 = 67.5%)



Remarks: \* Date tested: 2021/11/2; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70) %RH,  
\* liquid temperature: 22.4(start)/22.5(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

**Plot 2a-7: U-NII-2A (5.3GHz) band, Antenna 1; Front & touch / 11n(40HT) (MCS0) / 5310 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5310 MHz; Crest Factor: 1.0**  
**Medium: HSL5GHz(v6.2111); Medium parameters used:  $f = 5310$  MHz;  $\sigma = 4.583$  S/m;  $\epsilon_r = 35.25$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5310 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,other35h55,53.14,5310,at1,frt&d0,n40(m0)**

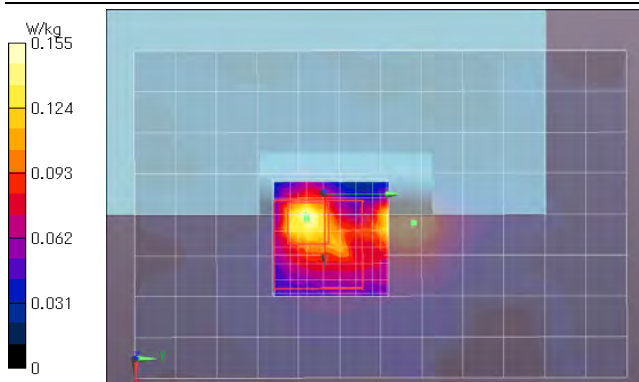
**Area:80x120,10 (9x13x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.149 W/kg

**Area:80x120,10 (81x121x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 0.161 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 6.398 V/m; Power Drift = 0.17 dB; Maximum value of SAR (measured) = 0.155 W/kg; Peak SAR (extrapolated) = 0.256 W/kg

**SAR(1 g) = 0.067 W/kg; SAR(10 g) = 0.031 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 6.1 mm; Ratio of SAR at M2 to SAR at M1 = 67.7%)



Remarks: \* Date tested: 2021/11/2; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70) %RH,  
\* liquid temperature: 22.5(start)/22.5(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 2a-8: U-NII-2A (5.3GHz) band, Antenna 1; Top & touch / 11n(40HT) (MCS0) / 5310 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5310 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used:  $f = 5310$  MHz;  $\sigma = 4.583$  S/m;  $\epsilon_r = 35.25$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5310 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,other/5h43,53.10,5310,at1,top&d0,n40(m0)**

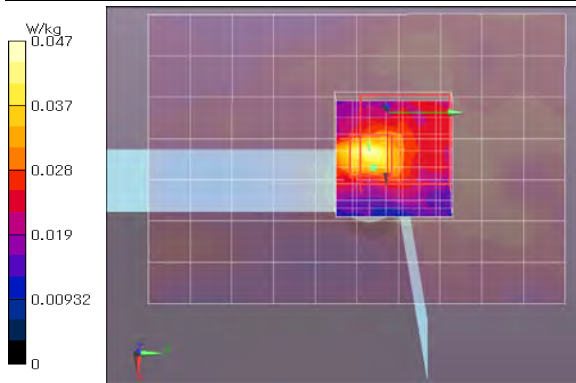
**Area:70x100,10 (8x11x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.0371 W/kg

**Area:70x100,10 (71x101x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 0.0399 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 2.708 V/m; Power Drift = -0.20 dB; Maximum value of SAR (measured) = 0.0466 W/kg; Peak SAR (extrapolated) = 0.0840 W/kg;

**SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.013 W/kg** (\*, Ratio of SAR at M2 to SAR at M1 = 62.4%)



Remarks: \*. Date tested: 2021/11/2; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,

\*. liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70)%RH,

\*. liquid temperature: 22.3(start)/22.3(end)/22.5(in check) deg.C.; \*. White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

**Plot 2b-2: U-NII-2A (5.3GHz) band, Antenna 2; Bottom & touch / 11n(40HT) (MCS0) / 5270 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5270 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5270$  MHz;  $\sigma = 4.53$  S/m;  $\epsilon_r = 35.24$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5270 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0, 156.0$

**touch,h5c,btm,sub(chain1)/o5h28,53.6,ant2,5270,btm&d0,n40(m0)**

**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.817 W/kg

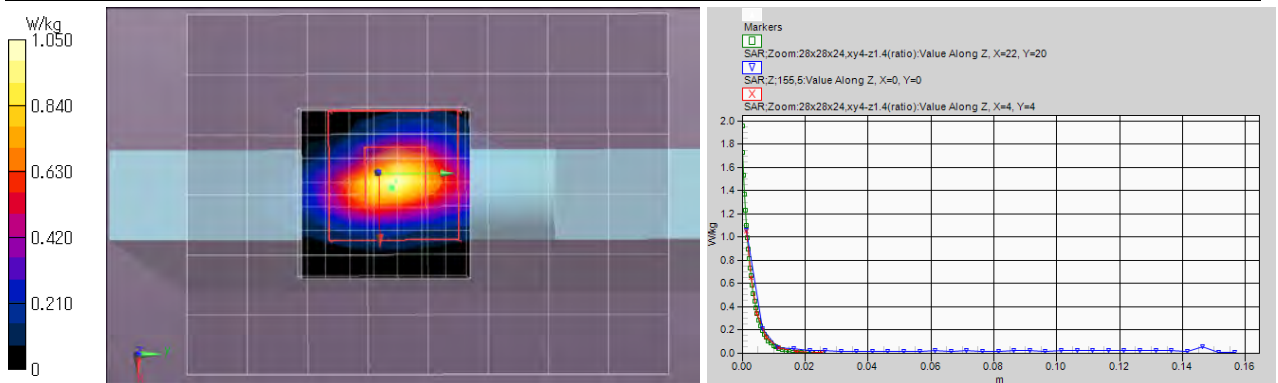
**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 0.968 W/kg

**Z;155,5 (1x1x32):** Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 1.06 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 16.37 V/m; Power Drift = 0.00 dB; Maximum value of SAR (measured) = 1.05 W/kg; Peak SAR (extrapolated) = 1.96 W/kg

**SAR(1 g) = 0.397 W/kg; SAR(10 g) = 0.109 W/kg** (\*, Smallest distance from peaks to all points 3 dB below = 4.7 mm; Ratio of SAR at M2 to SAR at M1 = 61.6%)



Remarks: \*. Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,

\*. liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60)%RH,

\*. liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \*. White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 2b-3: U-NII-2A (5.3GHz) band, Antenna 2; Bottom & touch / 11n(40HT) (MCS0) / 5310 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5310 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5310$  MHz;  $\sigma = 4.575$  S/m;  $\epsilon_r = 35.19$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5310 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,h5c,btm,sub(chain1)/5h29.53.7,ant2,5310,btm&d0,n40(m0)/**

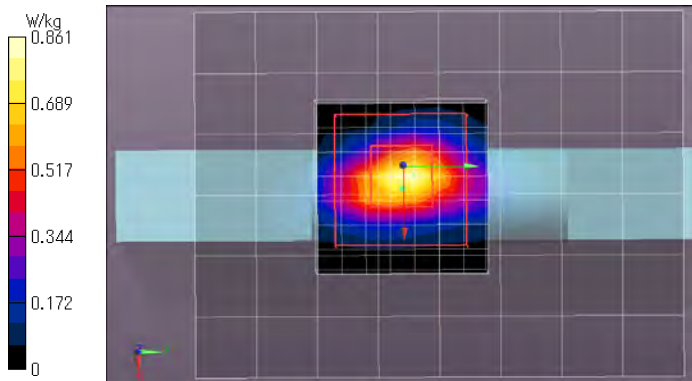
**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.666 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 0.772 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 14.55 V/m; Power Drift = 0.06 dB; Maximum value of SAR (measured) = 0.861 W/kg; Peak SAR (extrapolated) = 1.54 W/kg

**SAR(1 g) = 0.323 W/kg; SAR(10 g) = 0.086 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 5.1 mm; Ratio of SAR at M2 to SAR at M1 = 61.9%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

**Plot 2b-4: U-NII-2A (5.3GHz) band, Antenna 2; Bottom & touch / 11a (6Mbps) / 5300 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5300 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5300$  MHz;  $\sigma = 4.569$  S/m;  $\epsilon_r = 35.21$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5300 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,h5c,btm,sub(chain1)/5h41.53.8,ant2,5300,btm&d0,a(6m)/**

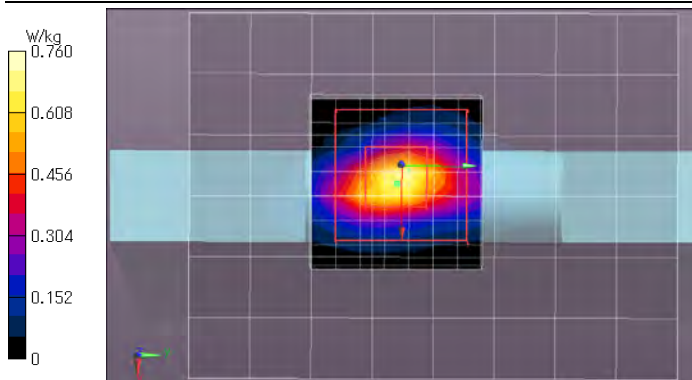
**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.578 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 0.688 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 14.33 V/m; Power Drift = 0.05 dB; Maximum value of SAR (measured) = 0.760 W/kg; Peak SAR (extrapolated) = 1.40 W/kg

**SAR(1 g) = 0.288 W/kg; SAR(10 g) = 0.077 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.8 mm; Ratio of SAR at M2 to SAR at M1 = 62.9%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 2b-5: U-NII-2A (5.3GHz) band, Antenna 2; Bottom & touch / 11a (6Mbps) / 5320 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5320 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5320$  MHz;  $\sigma = 4.581$  S/m;  $\epsilon_r = 35.18$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5320 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,h5c,btm,sub(chain1)5h42.53.9,ant2,5320,btm&d0,a(6m)/**

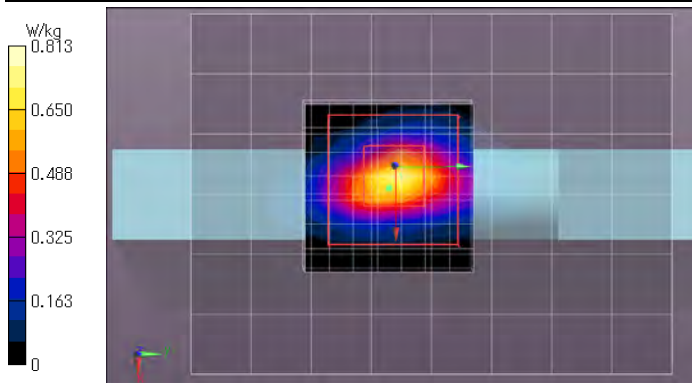
**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.608 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 0.688 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 13.88 V/m; Power Drift = 0.02 dB; Maximum value of SAR (measured) = 0.813 W/kg; Peak SAR (extrapolated) = 1.42 W/kg

**SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.078 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 5.1 mm; Ratio of SAR at M2 to SAR at M1 = 61.5%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

**Plot 2b-6: U-NII-2A (5.3GHz) band, Antenna 2; Rear & touch / 11n(40HT) (MCS0) / 5270 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5270 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used:  $f = 5270$  MHz;  $\sigma = 4.534$  S/m;  $\epsilon_r = 35.30$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5270 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,other35h52.53.13,ant2,5270,rear&d0,n40(m0)/**

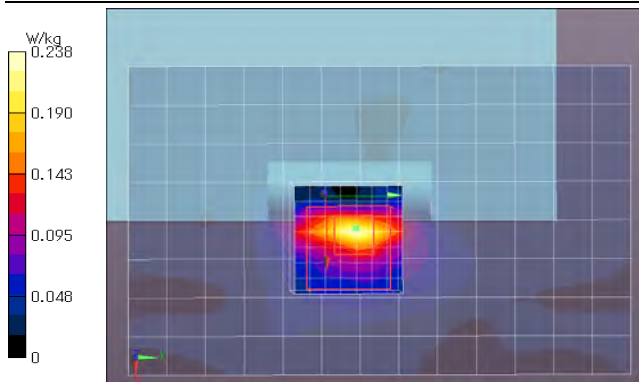
**Area:80x130,10 (9x14x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.207 W/kg

**Area:80x130,10 (81x131x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 0.239 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 8.310 V/m; Power Drift = -0.16 dB; Maximum value of SAR (measured) = 0.238 W/kg; Peak SAR (extrapolated) = 0.439 W/kg

**SAR(1 g) = 0.095 W/kg; SAR(10 g) = 0.038 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4 mm; Ratio of SAR at M2 to SAR at M1 = 67%)



Remarks: \* Date tested: 2021/11/2; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70) %RH,  
\* liquid temperature: 22.5(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 2b-7: U-NII-2A (5.3GHz) band, Antenna 2; Front & touch / 11n(40HT) (MCS0) / 5270 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5270 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used:  $f = 5270$  MHz;  $\sigma = 4.534$  S/m;  $\epsilon_r = 35.30$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5270 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,other3/5h58.53.13,ant2,5270,frt&d0,n40(m0)/**

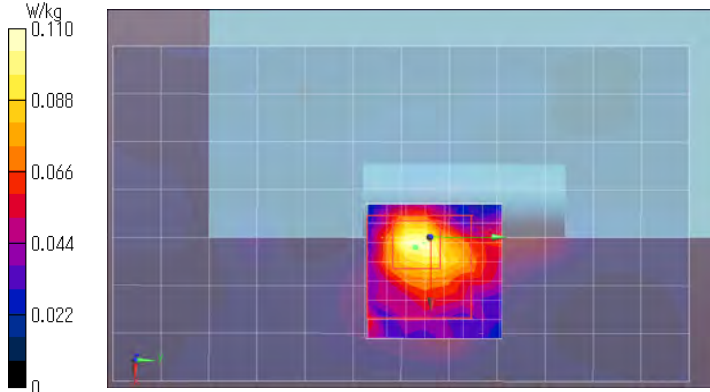
**Area:70x120,10 (8x13x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.0909 W/kg

**Area:70x120,10 (71x121x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 0.108 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 5.433 V/m; Power Drift = 0.20 dB; Maximum value of SAR (measured) = 0.110 W/kg; Peak SAR (extrapolated) = 0.175 W/kg

**SAR(1 g) = 0.050 W/kg; SAR(10 g) = 0.025 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 6.2 mm; Ratio of SAR at M2 to SAR at M1 = 67.6%)



Remarks: \* Date tested: 2021/11/2; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70) %RH,  
\* liquid temperature: 22.5(start)/22.6(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 2b-8: U-NII-2A (5.3GHz) band, Antenna 2; Right & touch / 11n(40HT) (MCS0) / 5270 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5270 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used:  $f = 5270$  MHz;  $\sigma = 4.534$  S/m;  $\epsilon_r = 35.30$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5270 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,other/5h46.53.11,ant2,5270,left&d0,n40(m0)/**

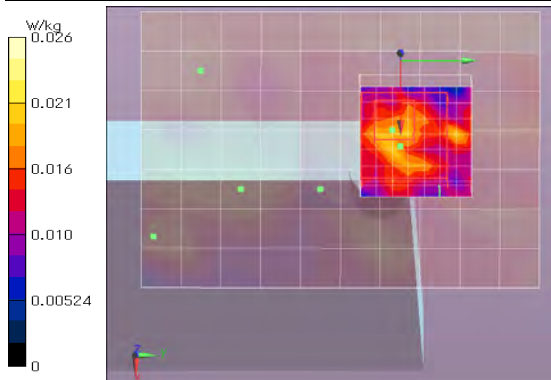
**Area:70x100,10 (8x11x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.0181 W/kg

**Area:70x100,10 (71x101x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 0.0270 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 2.000 V/m; Power Drift = -0.20 dB; Maximum value of SAR (measured) = 0.0262 W/kg; Peak SAR (extrapolated) = 0.0550 W/kg

**SAR(1 g) = 0.012 W/kg; SAR(10 g) = 0.00862 W/kg** (\*Ratio of SAR at M2 to SAR at M1 = 43.3%)



Remarks: \* Date tested: 2021/11/2; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70) %RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 2c-2: U-NII-1 (5.2GHz) band, Antenna 1; Left & touch / 11a (6Mbps) / 5180 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5180 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5180$  MHz;  $\sigma = 4.435$  S/m;  $\epsilon_r = 35.41$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5180 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0, 156.0

**touch.p85.h5a.right.at1(chain0)/o5h9.52.1.5180.at1.right&d0,a(6m)/**

**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 1.69 W/kg

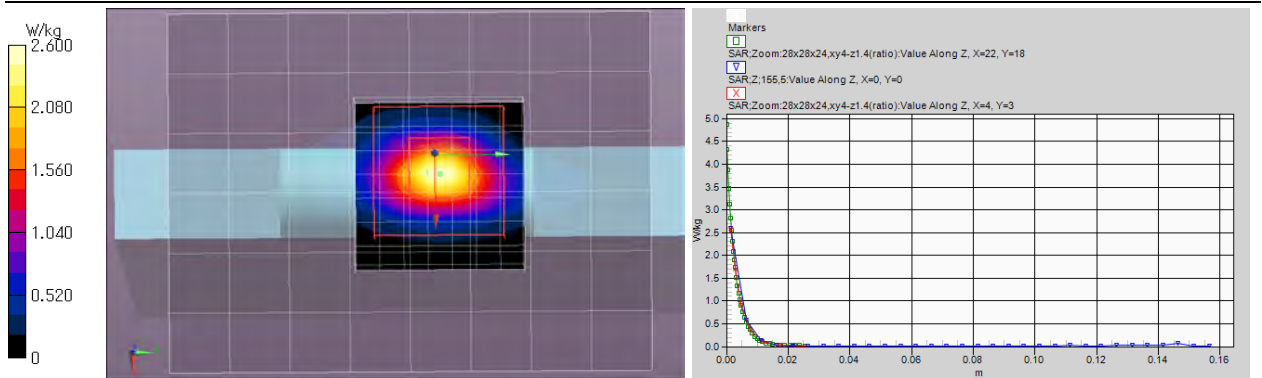
**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 2.59 W/kg

**Z;155.5 (1x1x32):** Measurement grid: dx=20mm, dy=20mm, dz=5mm; Maximum value of SAR (measured) = 2.59 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 27.65 V/m; Power Drift = -0.03 dB; Maximum value of SAR (measured) = 2.60 W/kg; Peak SAR (extrapolated) = 4.87 W/kg

**SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.261 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4 mm; Ratio of SAR at M2 to SAR at M1 = 65.1%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.3(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 2c-3: U-NII-1 (5.2GHz) band, Antenna 1; Left & touch / 11a (6Mbps) / 5240 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5240 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5240$  MHz;  $\sigma = 4.505$  S/m;  $\epsilon_r = 35.32$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5240 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch.p85.h5a.right.at1(chain0)/5h11.52.3.5240.at1.right&d0,a(6m)/**

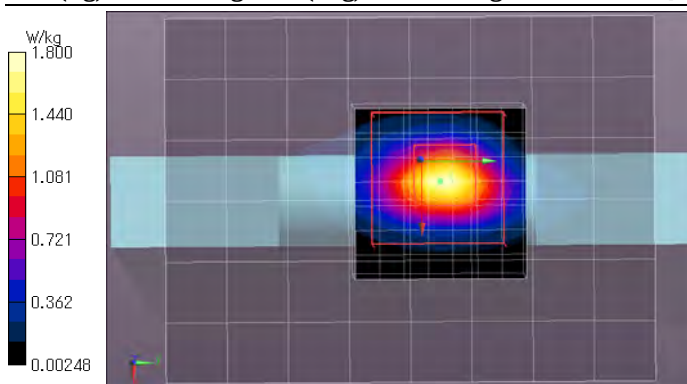
**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 1.19 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.75 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 22.40 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 1.80 W/kg; Peak SAR (extrapolated) = 3.28 W/kg

**SAR(1 g) = 0.683 W/kg; SAR(10 g) = 0.179 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.8 mm; Ratio of SAR at M2 to SAR at M1 = 62.6%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.5(start)/22.5(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 2d-2: U-NII-1 (5.2GHz) band, Antenna 2; Bottom & touch / 11a (6Mbps) / 5180 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5180 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5180 \text{ MHz}$ ;  $\sigma = 4.435 \text{ S/m}$ ;  $\epsilon_r = 35.41$ ;  $\rho = 1000 \text{ kg/m}^3$**

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5180 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,h5c,btm,sub(chain1)/5h30.52.4,ant2,5180,btm&d0,a(6m)/**

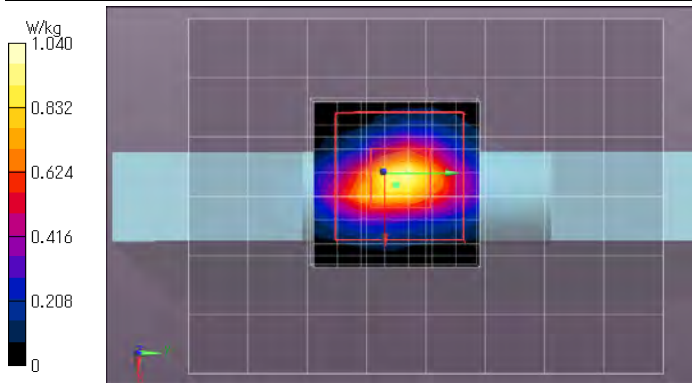
**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$ ; Maximum value of SAR (measured) = 0.734 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$ ; Maximum value of SAR (interpolated) = 0.955 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ ;

Reference Value = 16.91 V/m; Power Drift = 0.01 dB; Maximum value of SAR (measured) = 1.04 W/kg; Peak SAR (extrapolated) = 1.85 W/kg

**SAR(1 g) = 0.395 W/kg; SAR(10 g) = 0.106 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 5.4 mm; Ratio of SAR at M2 to SAR at M1 = 64.6%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 2d-3: U-NII-1 (5.2GHz) band, Antenna 2; Bottom & touch / 11a (6Mbps) / 5240 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5240 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5240 \text{ MHz}$ ;  $\sigma = 4.505 \text{ S/m}$ ;  $\epsilon_r = 35.32$ ;  $\rho = 1000 \text{ kg/m}^3$**

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5240 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,h5c,btm,sub(chain1)/5h32.52.6,ant2,5240,btm&d0,a(6m)/**

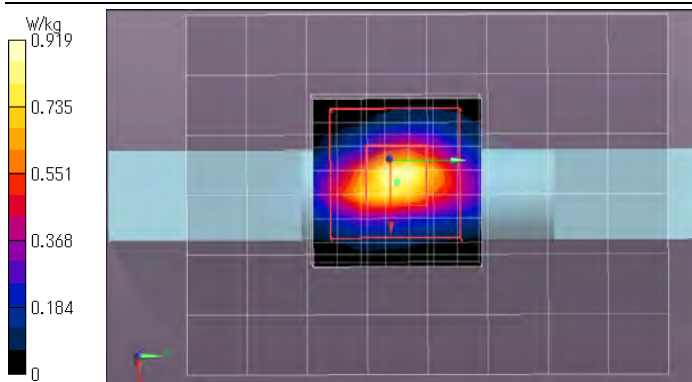
**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$ ; Maximum value of SAR (measured) = 0.693 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$ ; Maximum value of SAR (interpolated) = 0.890 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ ;

Reference Value = 16.16 V/m; Power Drift = -0.01 dB; Maximum value of SAR (measured) = 0.919 W/kg; Peak SAR (extrapolated) = 1.70 W/kg

**SAR(1 g) = 0.357 W/kg; SAR(10 g) = 0.098 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 5.1 mm; Ratio of SAR at M2 to SAR at M1 = 63.8%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~25) deg.C. / (50~60) %RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 3a-2: U-NII-2C (5.6GHz) band, Antenna 1; Left & touch / 11n(40HT) (MCS0) / 5550 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5550 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5550$  MHz;  $\sigma = 4.836$  S/m;  $\epsilon_r = 34.77$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5550 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch.p85.h5a.right.at1(chain0)5h5.56.2.5550.at1.right&d0,n40(m0)**

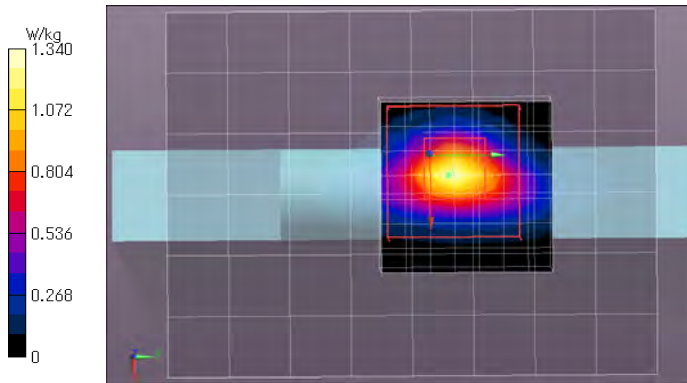
**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.896 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.21 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 18.52 V/m; Power Drift = 0.04 dB; Maximum value of SAR (measured) = 1.34 W/kg; Peak SAR (extrapolated) = 2.48 W/kg

**SAR(1 g) = 0.483 W/kg; SAR(10 g) = 0.126 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.9 mm; Ratio of SAR at M2 to SAR at M1 = 60.6%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70)%RH,  
\* liquid temperature: 22.3(start)/22.3(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 3a-3: U-NII-2C (5.6GHz) band, Antenna 1; Left & touch / 11n(40HT) (MCS0) / 5510 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5510 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5510$  MHz;  $\sigma = 4.789$  S/m;  $\epsilon_r = 34.87$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5510 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch.p85.h5a.right.at1(chain0)5h5.56.3.5510.at1.right&d0,n40(m0)**

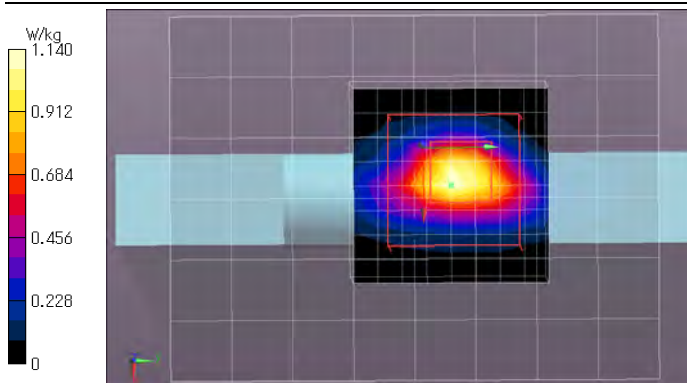
**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.875 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.16 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (9x9x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 17.27 V/m; Power Drift = -0.00 dB; Maximum value of SAR (measured) = 1.14 W/kg; Peak SAR (extrapolated) = 2.25 W/kg

**SAR(1 g) = 0.434 W/kg; SAR(10 g) = 0.115 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.3 mm; Ratio of SAR at M2 to SAR at M1 = 59.7%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70)%RH,  
\* liquid temperature: 22.3(start)/22.3(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 3a-4: U-NII-2C (5.6GHz) band, Antenna 1; Left & touch / 11a (6Mbps) / 5700 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5700 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5700$  MHz;  $\sigma = 5.001$  S/m;  $\epsilon_r = 34.57$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5700 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,p85,h5a,right,atl(chain0)5h12,56.5,5700,atl,right&d0,a(6m)/**

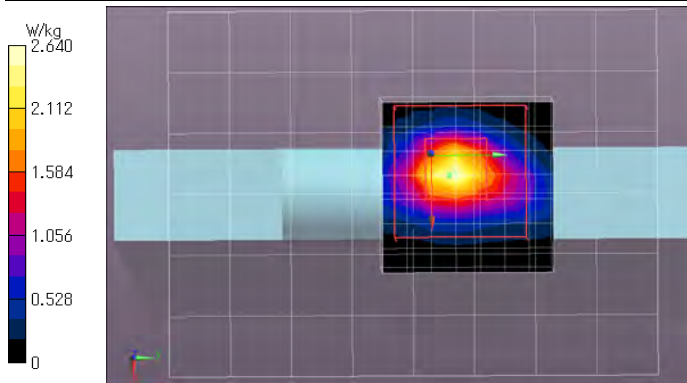
**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10$  mm,  $dy=10$  mm; Maximum value of SAR (measured) = 1.68 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 2.25 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$  mm,  $dy=4$  mm,  $dz=1.4$  mm;

Reference Value = 25.52 V/m; Power Drift = -0.03 dB; Maximum value of SAR (measured) = 2.64 W/kg; Peak SAR (extrapolated) = 5.05 W/kg

**SAR(1 g) = 0.917 W/kg; SAR(10 g) = 0.228 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.8 mm; Ratio of SAR at M2 to SAR at M1 = 59.4%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70) %RH,  
\* liquid temperature: 22.5(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 3a-5: U-NII-2C (5.6GHz) band, Antenna 1; Left & touch / 11a (6Mbps) / 5580 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5580 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5580$  MHz;  $\sigma = 4.877$  S/m;  $\epsilon_r = 34.78$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5580 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,p85,h5a,right,atl(chain0)5h13,56.6,5580,atl,right&d0,a(6m)/**

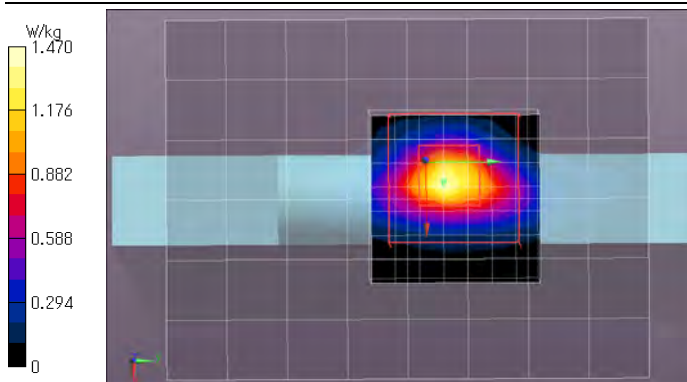
**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10$  mm,  $dy=10$  mm; Maximum value of SAR (measured) = 1.02 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 1.36 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$  mm,  $dy=4$  mm,  $dz=1.4$  mm;

Reference Value = 19.52 V/m; Power Drift = -0.02 dB; Maximum value of SAR (measured) = 1.47 W/kg; Peak SAR (extrapolated) = 2.87 W/kg

**SAR(1 g) = 0.536 W/kg; SAR(10 g) = 0.138 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 5.1 mm; Ratio of SAR at M2 to SAR at M1 = 59%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70) %RH,  
\* liquid temperature: 22.5(start)/22.6(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 3a-6: U-NII-2C (5.6GHz) band, Antenna 1; Left & touch / 11a (6Mbps) / 5500 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5500 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.783$  S/m;  $\epsilon_r = 34.89$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5500 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,p85,h5a,right,atl(chain0)5h14,56,7,5500,atl,right&d0,a(6m)**

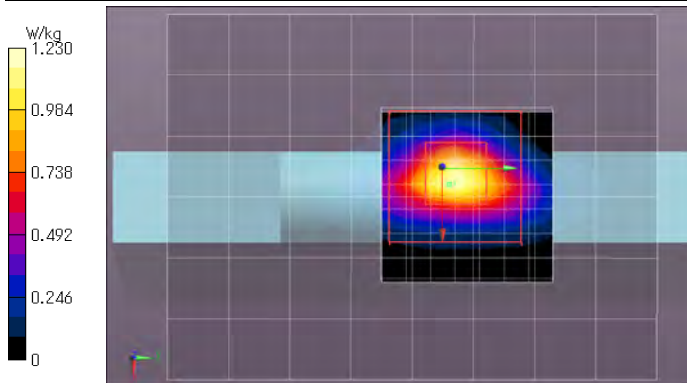
**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.916 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.14 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 17.90 V/m; Power Drift = 0.03 dB; Maximum value of SAR (measured) = 1.23 W/kg; Peak SAR (extrapolated) = 2.48 W/kg

**SAR(1 g) = 0.480 W/kg; SAR(10 g) = 0.127 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.3 mm; Ratio of SAR at M2 to SAR at M1 = 61.4%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70)%RH,  
\* liquid temperature: 22.6(start)/22.6(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 3a-7: U-NII-2C (5.6GHz) band, Antenna 1; Rear & touch / 11n(40HT) (MCS0) / 5670 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5670 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used:  $f = 5670$  MHz;  $\sigma = 4.977$  S/m;  $\epsilon_r = 34.63$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5670 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,other2/5h50,56,19,5670,atl,rear&d0,n40(m0)**

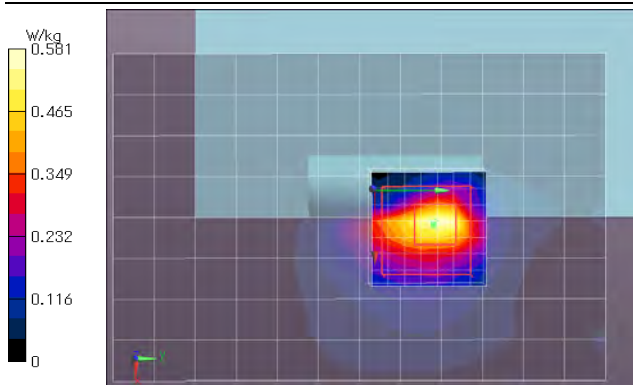
**Area:80x120,10 (9x13x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.529 W/kg

**Area:80x120,10 (81x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.607 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 11.64 V/m; Power Drift = 0.03 dB; Maximum value of SAR (measured) = 0.581 W/kg; Peak SAR (extrapolated) = 0.968 W/kg

**SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.090 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 5.7 mm; Ratio of SAR at M2 to SAR at M1 = 65%)



Remarks: \* Date tested: 2021/11/2; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70)%RH,  
\* liquid temperature: 22.5(start)/22.5(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 3a-8: U-NII-2C (5.6GHz) band, Antenna 1; Front & touch / 11n(40HT) (MCS0) / 5670 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5670 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used:  $f = 5670$  MHz;  $\sigma = 4.977$  S/m;  $\epsilon_r = 34.63$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5670 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,other3/5h56,56.21,5670,at1,frt&d0,n40(m0)**

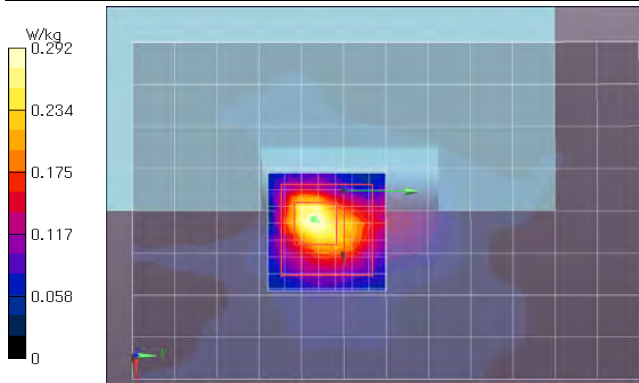
**Area:80x120,10 (9x13x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.256 W/kg

**Area:80x120,10 (81x121x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 0.307 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 8.680 V/m; Power Drift = 0.07 dB; Maximum value of SAR (measured) = 0.292 W/kg; Peak SAR (extrapolated) = 0.545 W/kg

**SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.053 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 5.8 mm; Ratio of SAR at M2 to SAR at M1 = 62.8%)



Remarks: \* Date tested: 2021/11/2; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70)%RH,  
\* liquid temperature: 22.5(start)/22.5(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 3a-9: U-NII-2C (5.6GHz) band, Antenna 1; Top & touch / 11n(40HT) (MCS0) / 5670 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5670 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used:  $f = 5670$  MHz;  $\sigma = 4.977$  S/m;  $\epsilon_r = 34.63$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5670 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,other5/h44,56.17,5670,at1,top&d0,n40(m0)**

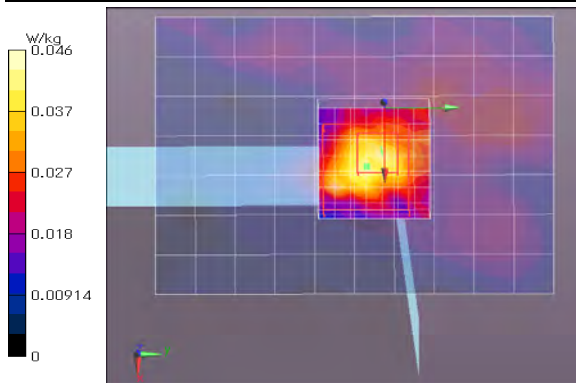
**Area:70x100,10 (8x11x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.0400 W/kg

**Area:70x100,10 (71x101x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 0.0449 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 3.038 V/m; Power Drift = -0.07 dB; Maximum value of SAR (measured) = 0.0457 W/kg; Peak SAR (extrapolated) = 0.0760 W/kg

**SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.015 W/kg** (\*Ratio of SAR at M2 to SAR at M1 = 54.5%)



Remarks: \* Date tested: 2021/11/2; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70)%RH,  
\* liquid temperature: 22.3(start)/22.3(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 3b-2: U-NII-2C (5.6GHz) band, Antenna 2; Bottom & touch / 11n(40HT) (MCS0) / 5510 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5510 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5510$  MHz;  $\sigma = 4.789$  S/m;  $\epsilon_r = 34.87$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5510 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,h5c,btm,sub(chain1)/5h24.56.9,ant2,5510,btm&d0,n40(m0)**

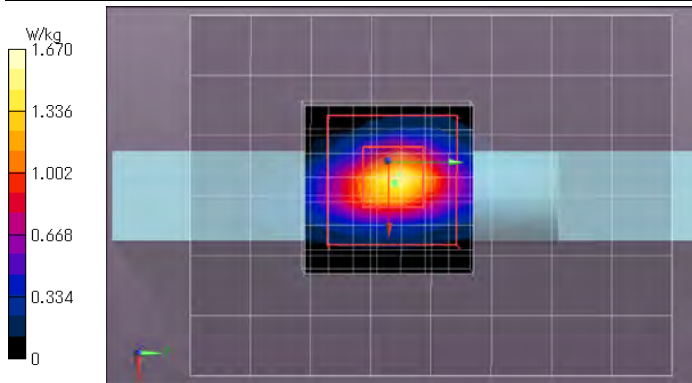
**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10$  mm,  $dy=10$  mm; Maximum value of SAR (measured) = 1.19 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 1.37 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$  mm,  $dy=4$  mm,  $dz=1.4$  mm;

Reference Value = 20.62 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 1.67 W/kg; Peak SAR (extrapolated) = 3.04 W/kg

**SAR(1 g) = 0.590 W/kg; SAR(10 g) = 0.152 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.9 mm; Ratio of SAR at M2 to SAR at M1 = 60.2%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70)%RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 3b-3: U-NII-2C (5.6GHz) band, Antenna 2; Bottom & touch / 11n(40HT) (MCS0) / 5670 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5670 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5670$  MHz;  $\sigma = 4.977$  S/m;  $\epsilon_r = 34.60$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5670 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,h5c,btm,sub(chain1)/5h25.56.10,ant2,5670,btm&d0,n40(m0)**

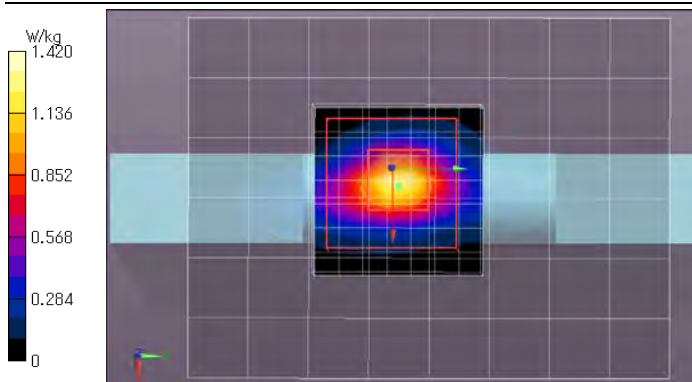
**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10$  mm,  $dy=10$  mm; Maximum value of SAR (measured) = 0.947 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 1.12 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$  mm,  $dy=4$  mm,  $dz=1.4$  mm;

Reference Value = 19.00 V/m; Power Drift = 0.12 dB; Maximum value of SAR (measured) = 1.42 W/kg; Peak SAR (extrapolated) = 2.86 W/kg

**SAR(1 g) = 0.513 W/kg; SAR(10 g) = 0.129 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 5.1 mm; Ratio of SAR at M2 to SAR at M1 = 59.2%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70)%RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 3b-4: U-NII-2C (5.6GHz) band, Antenna 2; Bottom & touch / 11a (6Mbps) / 5500 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5500 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.783$  S/m;  $\epsilon_r = 34.89$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5500 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,h5c,btm,sub(chain1)/5h33.56.13,ant2,5500,btm&d0,a(6m)/**

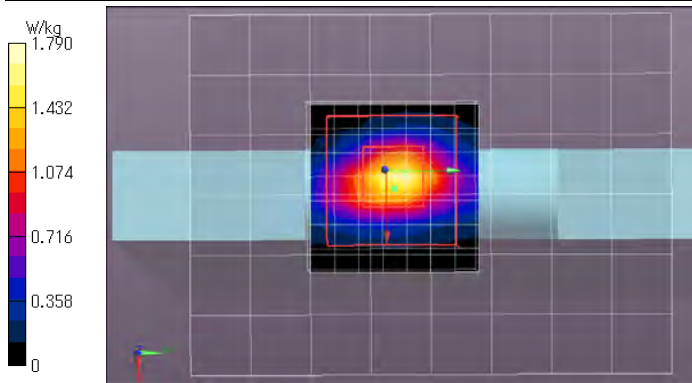
**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10$  mm,  $dy=10$  mm; Maximum value of SAR (measured) = 1.25 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 1.43 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$  mm,  $dy=4$  mm,  $dz=1.4$  mm;

Reference Value = 20.51 V/m; Power Drift = 0.09 dB; Maximum value of SAR (measured) = 1.79 W/kg; Peak SAR (extrapolated) = 3.34 W/kg

**SAR(1 g) = 0.645 W/kg; SAR(10 g) = 0.167 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.9 mm; Ratio of SAR at M2 to SAR at M1 = 60.3%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70)%RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 3b-5: U-NII-2C (5.6GHz) band, Antenna 2; Bottom & touch / 11a (6Mbps) / 5700 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5700 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5700$  MHz;  $\sigma = 5.001$  S/m;  $\epsilon_r = 34.57$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5700 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,h5c,btm,sub(chain1)/5h34.56.14,ant2,5700,btm&d0,a(6m)/**

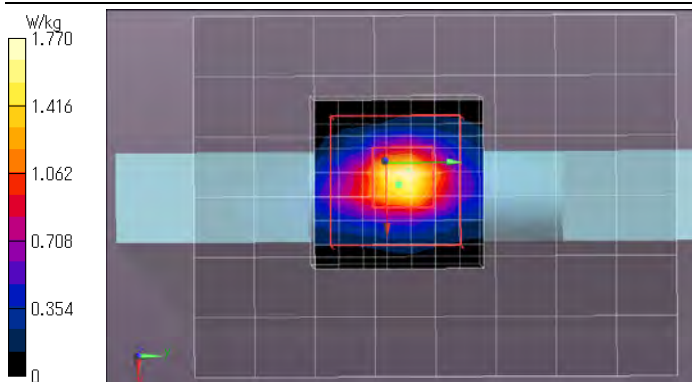
**Area:60x80,10 (7x9x1):** Measurement grid:  $dx=10$  mm,  $dy=10$  mm; Maximum value of SAR (measured) = 1.14 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 1.35 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$  mm,  $dy=4$  mm,  $dz=1.4$  mm;

Reference Value = 20.89 V/m; Power Drift = -0.04 dB; Maximum value of SAR (measured) = 1.77 W/kg; Peak SAR (extrapolated) = 3.60 W/kg

**SAR(1 g) = 0.627 W/kg; SAR(10 g) = 0.154 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.8 mm; Ratio of SAR at M2 to SAR at M1 = 58.8%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70)%RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 3b-6: U-NII-2C (5.6GHz) band, Antenna 2; Bottom & touch / 11a (6Mbps) / 5580 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5580 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5580$  MHz;  $\sigma = 4.877$  S/m;  $\epsilon_r = 34.78$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5580 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,h5c,btm,sub(chain1)/5h35.56.15,ant2,5580,btm&d0,a(6m)/**

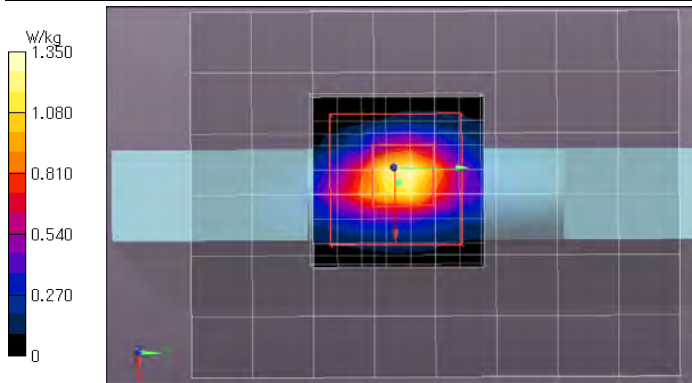
**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.930 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.09 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 18.64 V/m; Power Drift = -0.01 dB; Maximum value of SAR (measured) = 1.35 W/kg; Peak SAR (extrapolated) = 2.67 W/kg

**SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.128 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.8 mm; Ratio of SAR at M2 to SAR at M1 = 60.3%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70)%RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 3b-7: U-NII-2C (5.6GHz) band, Antenna 2; Rear & touch / 11n(40HT) (MCS0) / 5510 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5510 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used:  $f = 5510$  MHz;  $\sigma = 4.788$  S/m;  $\epsilon_r = 34.93$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5510 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,other3/5h53.56.20,ant2,5510,rear&d0,n40(m0)/**

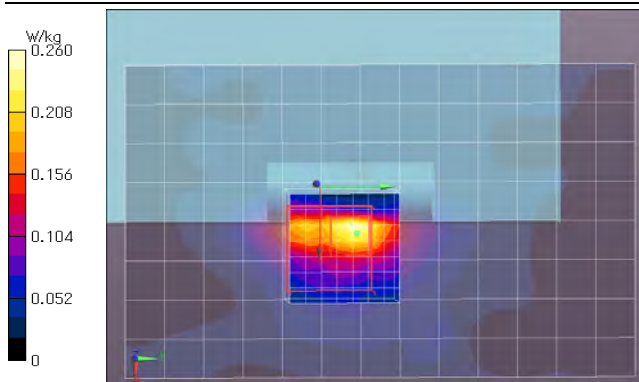
**Area:80x130,10 (9x14x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.224 W/kg

**Area:80x130,10 (81x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.270 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 8.092 V/m; Power Drift = -0.11 dB; Maximum value of SAR (measured) = 0.260 W/kg; Peak SAR (extrapolated) = 0.568 W/kg

**SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.045 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4 mm; Ratio of SAR at M2 to SAR at M1 = 60.2%)



Remarks: \* Date tested: 2021/11/2; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70)%RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 3b-8: U-NII-2C (5.6GHz) band, Antenna 2; Front & touch / 11n(40HT) (MCS0) / 5510 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5510 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used:  $f = 5510$  MHz;  $\sigma = 4.788$  S/m;  $\epsilon_r = 34.93$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5510 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,other/5h59.56.57,ant2,5510,frt&d0,n40(m0)/**

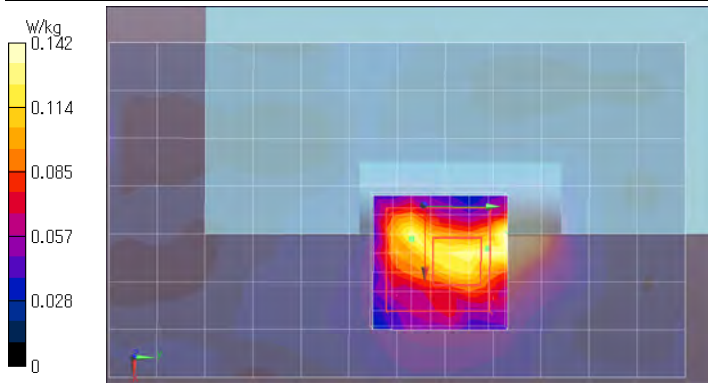
**Area:70x120,10 (8x13x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.124 W/kg

**Area:70x120,10 (71x121x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 0.132 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 5.785 V/m; Power Drift = 0.03 dB; Maximum value of SAR (measured) = 0.142 W/kg; Peak SAR (extrapolated) = 0.248 W/kg

**SAR(1 g) = 0.062 W/kg; SAR(10 g) = 0.029 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 5.1 mm; Ratio of SAR at M2 to SAR at M1 = 65%)



Remarks: \* Date tested: 2021/11/2; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70)%RH,  
\* liquid temperature: 22.6(start)/22.6(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 3b-9: U-NII-2C (5.6GHz) band, Antenna 2; Right & touch / 11n(40HT) (MCS0) / 5510 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5510 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used:  $f = 5510$  MHz;  $\sigma = 4.788$  S/m;  $\epsilon_r = 34.93$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5510 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch,other/5h47.56.18,ant2,5510,Left&d0,n40(m0)/**

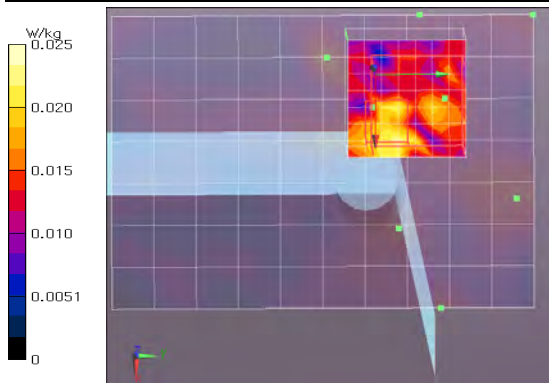
**Area:70x100,10 (8x11x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.0171 W/kg

**Area:70x100,10 (71x101x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 0.0174 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 1.097 V/m; Power Drift = 0.20 dB; Maximum value of SAR (measured) = 0.0255 W/kg; Peak SAR (extrapolated) = 0.0860 W/kg

**SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.0089 W/kg** (\*Ratio of SAR at M2 to SAR at M1 = 47.6%)



Remarks: \* Date tested: 2021/11/2; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70)%RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 4a-2: U-NII-3 (5.8GHz) band, Antenna 1; Left & touch / 11n(40HT) (MCS0) / 5795 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5795 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated): f = 5795 MHz;  $\sigma = 5.114$  S/m;  $\epsilon_r = 34.41$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5795 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,p85,h5a,right,at1(chain0)5h2,58.2,5795,at1,right&d0,n40(m0)/**

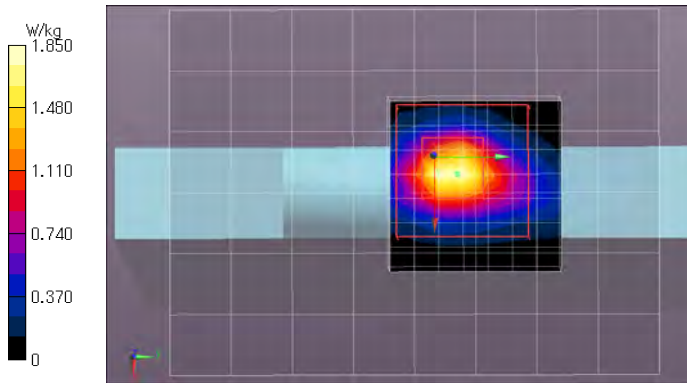
**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 1.23 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.59 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 21.63 V/m; Power Drift = -0.03 dB; Maximum value of SAR (measured) = 1.85 W/kg; Peak SAR (extrapolated) = 3.87 W/kg

**SAR(1 g) = 0.667 W/kg; SAR(10 g) = 0.168 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.7 mm; Ratio of SAR at M2 to SAR at M1 = 57.9%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70)%RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

**Plot 4a-3: U-NII-3 (5.8GHz) band, Antenna 1; Left & touch / 11a (6Mbps) / 5745 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5745 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated): f = 5745 MHz;  $\sigma = 5.054$  S/m;  $\epsilon_r = 34.47$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5745 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,p85,h5a,right,at1(chain0)5h16,58.3,5745,at1,right&d0,a(6m)/**

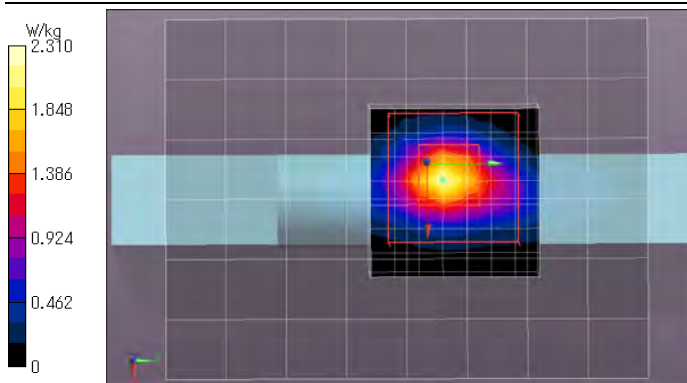
**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 1.42 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.84 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 23.46 V/m; Power Drift = -0.05 dB; Maximum value of SAR (measured) = 2.31 W/kg; Peak SAR (extrapolated) = 4.37 W/kg

**SAR(1 g) = 0.767 W/kg; SAR(10 g) = 0.189 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.8 mm; Ratio of SAR at M2 to SAR at M1 = 58.3%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70)%RH,  
\* liquid temperature: 22.6(start)/22.6(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 4a-4: U-NII-3 (5.8GHz) band, Antenna 1; Left & touch / 11a (6Mbps) / 5785 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5785 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated): f = 5785 MHz;  $\sigma = 5.101$  S/m;  $\epsilon_r = 34.42$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5785 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,p85,h5a,right,atl(chain0)5h17,58.4,5785,atl,right&d0,a(6m)/**

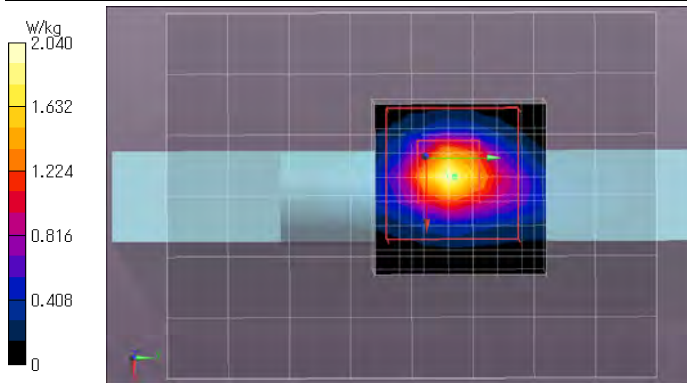
**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 1.24 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.56 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 21.92 V/m; Power Drift = 0.01 dB; Maximum value of SAR (measured) = 2.04 W/kg; Peak SAR (extrapolated) = 3.85 W/kg

**SAR(1 g) = 0.679 W/kg; SAR(10 g) = 0.154 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.7 mm; Ratio of SAR at M2 to SAR at M1 = 57.8%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70) %RH,  
\* liquid temperature: 22.6(start)/22.6(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 4a-5: U-NII-3 (5.8GHz) band, Antenna 1; Left & touch / 11a (6Mbps) / 5825 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5825 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated): f = 5825 MHz;  $\sigma = 5.148$  S/m;  $\epsilon_r = 34.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5825 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,p85,h5a,right,atl(chain0)5h18,58.5,5825,atl,right&d0,a(6m)/**

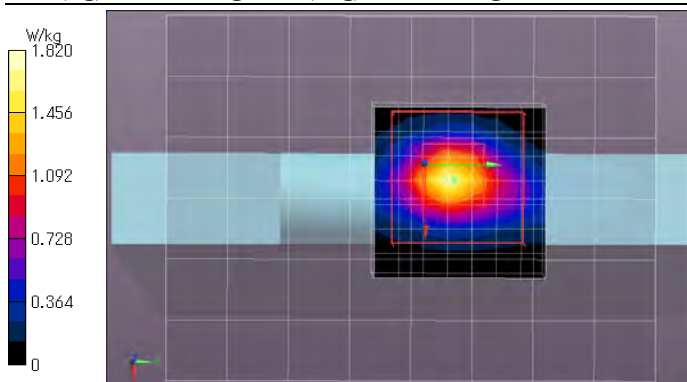
**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 1.12 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 1.42 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 20.67 V/m; Power Drift = -0.00 dB; Maximum value of SAR (measured) = 1.82 W/kg; Peak SAR (extrapolated) = 3.52 W/kg

**SAR(1 g) = 0.612 W/kg; SAR(10 g) = 0.152 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.8 mm; Ratio of SAR at M2 to SAR at M1 = 57.6%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70) %RH,  
\* liquid temperature: 22.6(start)/22.6(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 4a-6: U-NII-3 (5.8GHz) band, Antenna 1; Rear & touch / 11n(40HT) (MCS0) / 5755 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5755 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used (interpolated): f = 5755 MHz;  $\sigma = 5.076$  S/m;  $\epsilon_r = 34.53$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5755 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,other2/5h51,58.13,5755,at1,rear&d0,n40(m0)**

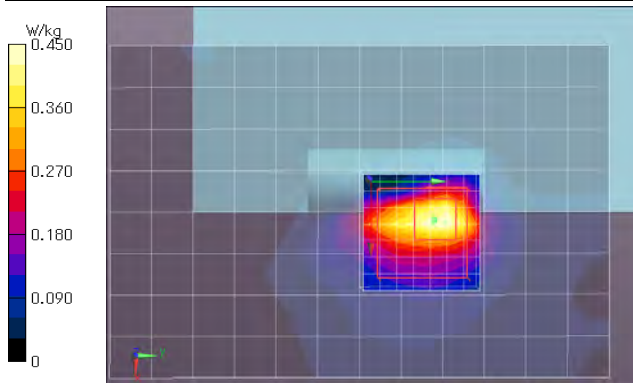
**Area:80x120,10 (9x13x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.438 W/kg

**Area:80x120,10 (81x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.504 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 10.61 V/m; Power Drift = -0.19 dB; Maximum value of SAR (measured) = 0.450 W/kg; Peak SAR (extrapolated) = 0.775 W/kg

**SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.075 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 6.4 mm; Ratio of SAR at M2 to SAR at M1 = 67.6%)



Remarks: \* Date tested: 2021/11/1; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70) %RH,  
\* liquid temperature: 22.5(start)/22.5(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 4a-7: U-NII-3 (5.8GHz) band, Antenna 1; Front & touch / 11n(40HT) (MCS0) / 5755 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5755 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used (interpolated): f = 5755 MHz;  $\sigma = 5.076$  S/m;  $\epsilon_r = 34.53$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5755 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,other3/5h57,58.15,5755,at1,frt&d0,n40(m0)**

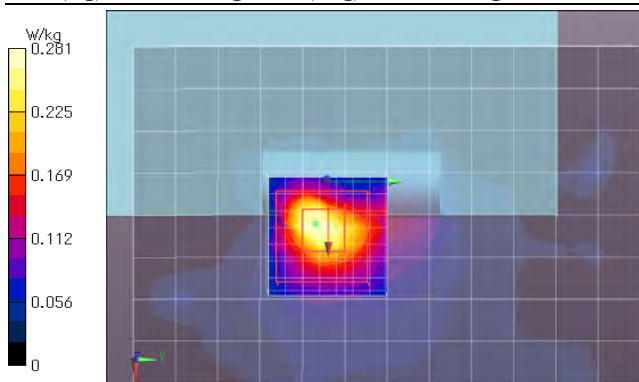
**Area:80x120,10 (9x13x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.268 W/kg

**Area:80x120,10 (81x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.320 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 8.419 V/m; Power Drift = -0.06 dB; Maximum value of SAR (measured) = 0.281 W/kg; Peak SAR (extrapolated) = 0.486 W/kg

**SAR(1 g) = 0.127 W/kg; SAR(10 g) = 0.053 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 6.4 mm; Ratio of SAR at M2 to SAR at M1 = 62.9%)



Remarks: \* Date tested: 2021/11/1; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70) %RH,  
\* liquid temperature: 22.5(start)/22.5(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 4a-8: U-NII-3 (5.8GHz) band, Antenna 1; Top & touch / 11n(40HT) (MCS0) / 5755 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5755 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used (interpolated): f = 5755 MHz;  $\sigma = 5.076$  S/m;  $\epsilon_r = 34.53$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5755 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,other/5h45,58.11,5755,at1,top&d0,n40(m0)**

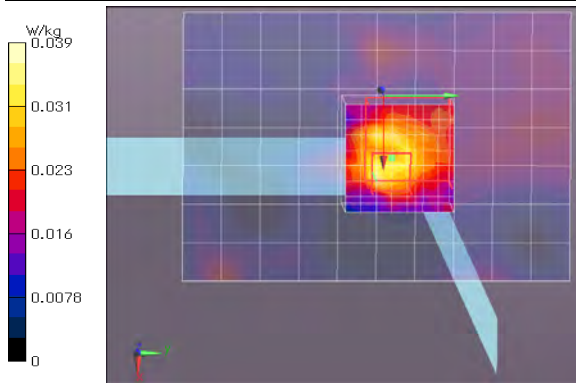
**Area:70x100,10 (8x11x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.0335 W/kg

**Area:70x100,10 (71x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.0389 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 2.827 V/m; Power Drift = -0.20 dB; Maximum value of SAR (measured) = 0.0390 W/kg; Peak SAR (extrapolated) = 0.0950 W/kg

**SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.012 W/kg** (\*.Ratio of SAR at M2 to SAR at M1 = 55.6%)



Remarks: \*. Date tested: 2021/11/1; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\*. liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70) %RH,  
\*. liquid temperature: 22.3(start)/22.3(end)/22.5(in check) deg.C.; \*.White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 4b-2: U-NII-3 (5.8GHz) band, Antenna 2; Bottom & touch / 11n(40HT) (MCS0) / 5795 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5795 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated): f = 5795 MHz;  $\sigma = 5.114$  S/m;  $\epsilon_r = 34.41$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5795 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,h5c,btm,sub(chain1)/5h22,58.6,ant2,5795,btm&d0,n40(m0)**

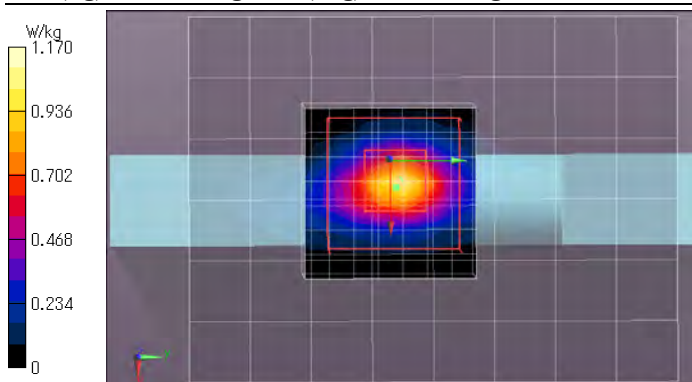
**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.726 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.853 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 16.59 V/m; Power Drift = -0.12 dB; Maximum value of SAR (measured) = 1.17 W/kg; Peak SAR (extrapolated) = 2.26 W/kg

**SAR(1 g) = 0.392 W/kg; SAR(10 g) = 0.098 W/kg** (\*.Smallest distance from peaks to all points 3 dB below = 4.9 mm; Ratio of SAR at M2 to SAR at M1 = 57.2%)



Remarks: \*. Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\*. liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70) %RH,  
\*. liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \*.White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 4b-3: U-NII-3 (5.8GHz) band, Antenna 2; Bottom & touch / 11n(40HT) (MCS0) / 5755 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5755 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated):  $f = 5755$  MHz;  $\sigma = 5.062$  S/m;  $\epsilon_r = 34.46$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5755 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0, 156.0$

**touch, h5c, btm, sub(chain1)/o5h23.58.7, ant2, 5755, btm&d0, n40(m0)/**

**Area: 60x80, 10 (7x9x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.912 W/kg

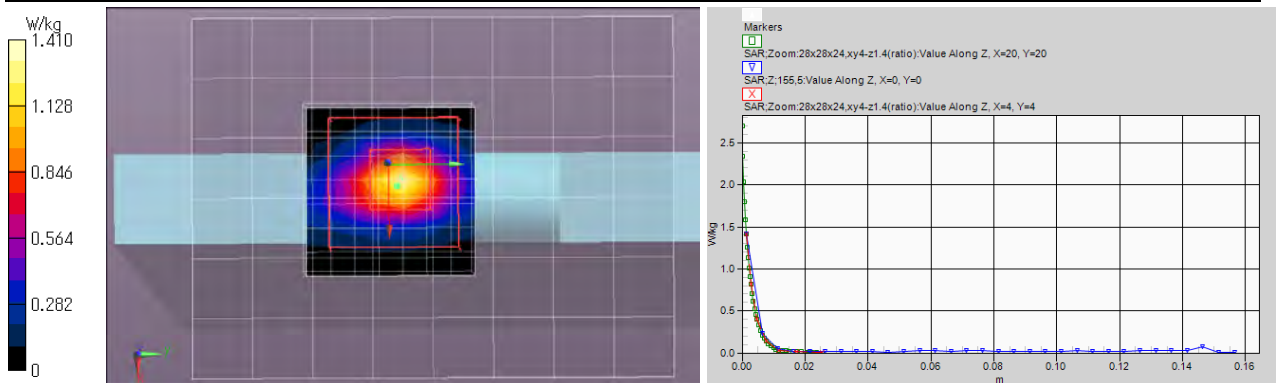
**Area: 60x80, 10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 1.07 W/kg

**Z; 155.5 (1x1x32):** Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 1.42 W/kg

**Zoom: 28x28x24, xy4-z1.4(ratio) (8x8x7) Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 18.30 V/m; Power Drift = -0.08 dB; Maximum value of SAR (measured) = 1.41 W/kg; Peak SAR (extrapolated) = 2.70 W/kg

**SAR(1 g) = 0.478 W/kg; SAR(10 g) = 0.117 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.9 mm; Ratio of SAR at M2 to SAR at M1 = 57.9%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70)%RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 4b-4: U-NII-3 (5.8GHz) band, Antenna 2; Bottom & touch / 11a (6Mbps) / 5825 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-Fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5825 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated):  $f = 5825$  MHz;  $\sigma = 5.148$  S/m;  $\epsilon_r = 34.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5825 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$

**touch, h5c, btm, sub(chain1)/5h37.58.8, ant2, 5825, btm&d0, a(6m)/**

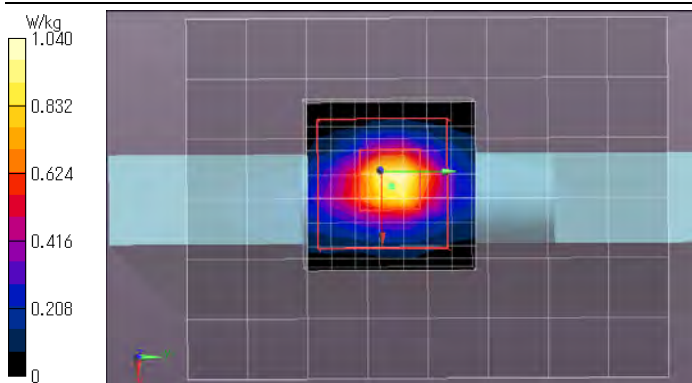
**Area: 60x80, 10 (7x9x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 0.693 W/kg

**Area: 60x80, 10 (61x81x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 0.804 W/kg

**Zoom: 28x28x24, xy4-z1.4(ratio) (8x8x7) Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 15.98 V/m; Power Drift = -0.08 dB; Maximum value of SAR (measured) = 1.04 W/kg; Peak SAR (extrapolated) = 2.19 W/kg

**SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.094 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.8 mm; Ratio of SAR at M2 to SAR at M1 = 58%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70)%RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 4b-5: U-NII-3 (5.8GHz) band, Antenna 2; Bottom & touch / 11a (6Mbps) / 5785 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: 11a(6Mbps, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5785 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used (interpolated): f = 5785 MHz;  $\sigma = 5.101$  S/m;  $\epsilon_r = 34.42$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5785 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,h5c,btm,sub(chain1)/5h39.58.10,ant2,5785,btm&d0,a(6m)**

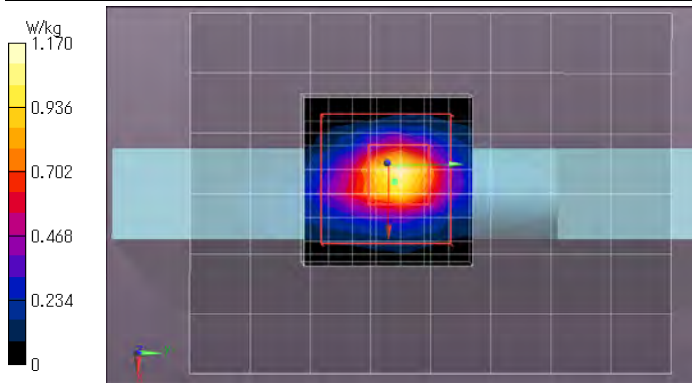
**Area:60x80,10 (7x9x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.736 W/kg

**Area:60x80,10 (61x81x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.849 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 16.93 V/m; Power Drift = -0.00 dB; Maximum value of SAR (measured) = 1.17 W/kg; Peak SAR (extrapolated) = 2.38 W/kg

**SAR(1 g) = 0.410 W/kg; SAR(10 g) = 0.101 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 4.8 mm; Ratio of SAR at M2 to SAR at M1 = 57.2%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (50~70) %RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**Plot 4b-6: U-NII-3 (5.8GHz) band, Antenna 2; Rear & touch / 11n(40HT) (MCS0) / 5795 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5795 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used (interpolated): f = 5795 MHz;  $\sigma = 5.12$  S/m;  $\epsilon_r = 34.46$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5795 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,other3/5h54.58.14,ant2,5795,rear&d0,n40(m0)**

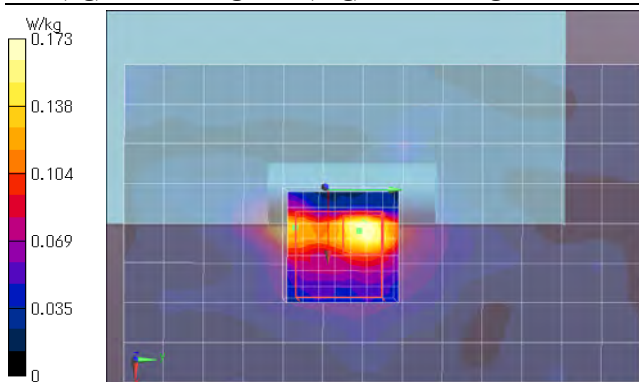
**Area:80x130,10 (9x14x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.185 W/kg

**Area:80x130,10 (81x131x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.206 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 6.784 V/m; Power Drift = 0.20 dB; Maximum value of SAR (measured) = 0.173 W/kg; Peak SAR (extrapolated) = 0.425 W/kg

**SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.031 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 3.3 mm; Ratio of SAR at M2 to SAR at M1 = 56.6%)



Remarks: \* Date tested: 2021/11/1; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70) %RH,  
\* liquid temperature: 22.5(start)/22.5(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

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**Appendix 2: SAR measurement data / Appendix 2-3: Other SAR Plots (cont'd)**

**Plot 4b-7: U-NII-3 (5.8GHz) band, Antenna 2; Front & touch / 11n(40HT) (MCS0) / 5795 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5795 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used (interpolated): f = 5795 MHz;  $\sigma = 5.12$  S/m;  $\epsilon_r = 34.46$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5795 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,other3/5h60.58.16,ant2,5795,frt&d0,n40(m0)/**

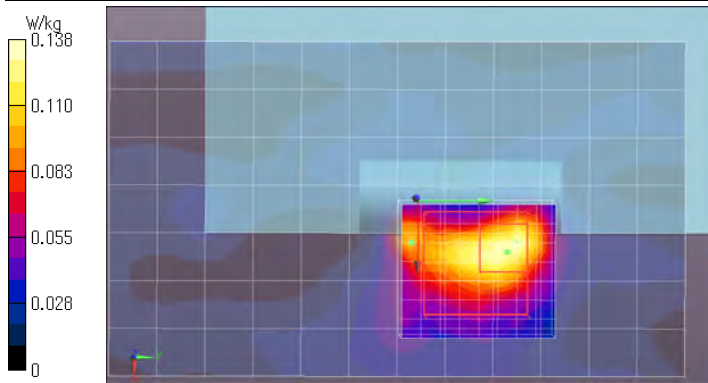
**Area:70x120,10 (8x13x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.103 W/kg

**Area:70x120,10 (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.136 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x9x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 5.690 V/m; Power Drift = -0.20 dB; Maximum value of SAR (measured) = 0.138 W/kg; Peak SAR (extrapolated) = 0.274 W/kg

**SAR(1 g) = 0.066 W/kg; SAR(10 g) = 0.034 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 5.8 mm; Ratio of SAR at M2 to SAR at M1 = 69.2%)



Remarks: \* Date tested: 2021/11/1; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70) %RH,  
\* liquid temperature: 22.5(start)/22.5(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

**Plot 4b-8: U-NII-3 (5.8GHz) band, Antenna 2; Right & touch / 11n(40HT) (MCS0) / 5795 MHz**

**EUT: SKR 3000; Type: P-85; Serial: ADU0-S0008**

**Mode: n40(MCS0, OFDM)** (UID: 0, Wi-fi\_5GHz (0), Frame Length in ms: 0; PAR: 0; PMF: 1); **Frequency: 5795 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2111); Medium parameters used (interpolated): f = 5795 MHz;  $\sigma = 5.12$  S/m;  $\epsilon_r = 34.46$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5795 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 25.0

**touch,other/5h48.58.12,ant2,5795,left&d0,n40(m0)/**

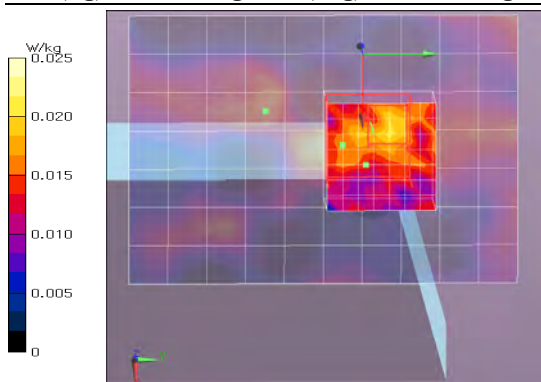
**Area:70x100,10 (8x11x1):** Measurement grid: dx=10mm, dy=10mm; Maximum value of SAR (measured) = 0.0188 W/kg

**Area:70x100,10 (71x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm; Maximum value of SAR (interpolated) = 0.0244 W/kg

**Zoom:28x28x24,xy4-z1.4(ratio) (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm;

Reference Value = 1.390 V/m; Power Drift = -0.16 dB; Maximum value of SAR (measured) = 0.0296 W/kg; Peak SAR (extrapolated) = 0.0730 W/kg

**SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.0078 W/kg** (\*Ratio of SAR at M2 to SAR at M1 = 36%)



Remarks: \* Date tested: 2021/11/1; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of EUT to phantom: 0 mm (2 mm to liquid); ambient: (23~24) deg.C. / (60~70) %RH,  
\* liquid temperature: 22.4(start)/22.5(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

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## APPENDIX 3: Test instruments

### Appendix 3-1: Equipment used

| Test Name | Local ID    | LIMS ID | Description        | Manufacturer                      | Model     | Serial     | Calibration Last Date | Interval (Months) |
|-----------|-------------|---------|--------------------|-----------------------------------|-----------|------------|-----------------------|-------------------|
| AT        | KAT10-S3    | 144893  | Attenuator         | Keysight Technologies Inc         | 8490D 010 | 50924      | 2020/12/11            | 12                |
| AT        | SAT10-SARP1 | 160520  | Attenuator         | Weinschel - API Technologies Corp | 4M-10     | -          | 2020/12/11            | 12                |
| AT        | SOS-26      | 191844  | Humidity Indicator | CUSTOM, Inc                       | CTH-201   | -          | 2021/08/02            | 12                |
| AT        | SPM-13      | 169910  | Power Meter        | Keysight Technologies Inc         | 8990B     | MY51000448 | 2021/01/25            | 12                |
| AT        | SPSS-06     | 169911  | Power sensor       | Keysight Technologies Inc         | N1923A    | MY57270004 | 2021/01/25            | 12                |
| AT        | SPSS-07     | 169912  | Power sensor       | Keysight Technologies Inc         | N1923A    | MY57290005 | 2021/01/25            | 12                |
| AT        | SRENT-15    | 160899  | Spectrum Analyzer  | Keysight Technologies Inc         | E4440A    | MY46185516 | 2021/01/26            | 12                |

\*. AT (antenna terminal conducted power measurement) was measured September 28. (Refer to Section 5 in this report.)

| Test Name | Local ID     | LIMS ID | Description                    | Manufacturer                      | Model                           | Serial             | Calibration Last Date | Interval (Months) |
|-----------|--------------|---------|--------------------------------|-----------------------------------|---------------------------------|--------------------|-----------------------|-------------------|
| SAR       | COTS-SSAR-02 | 144885  | DASY52 software                | Schmid&Partner Engineering AG     | DASY5 PRO                       | Ver.52.10.3.1513   | -                     | -                 |
| SAR       | COTS-SSEP-02 | 144886  | Dielectric assessment software | Schmid&Partner Engineering AG     | DAK                             | Ver.DAK1.10.317.11 | -                     | -                 |
| SAR       | KAT10-P1     | 144882  | Attenuator                     | Weinschel - API Technologies Corp | 24-10-34                        | BY5927             | 2020/12/11            | 12                |
| SAR       | KCPL-07      | 146100  | Directional Coupler            | Pulsar Microwave Corp.            | CCS30-B26                       | 621                | -                     | -                 |
| SAR       | KDAE-01      | 144944  | Data Acquisition Electronics   | Schmid&Partner Engineering AG     | DAE4                            | 626                | 2020/11/17            | 12                |
| SAR       | KIU-08       | 145059  | Power sensor                   | Rohde & Schwarz                   | NRV-Z4                          | 100372             | 2021/09/18            | 12                |
| SAR       | KIU-09       | 145099  | Power sensor                   | Rohde & Schwarz                   | NRV-Z4                          | 100371             | 2021/09/18            | 12                |
| SAR       | KOS-14       | 144986  | Thermo-Hygrometer data logger  | SATO KEIRYOKI                     | SK-L200THIIa/SK-LTHIIa-2        | 015246/08169       | 2021/10/13            | 12                |
| SAR       | KPA-12       | 145359  | RF Power Amplifier             | Milmega                           | AS2560-50                       | 1018582            | -                     | -                 |
| SAR       | KPFL-01      | 145560  | Flat Phantom                   | Schmid&Partner Engineering AG     | Oval flat phantom ELI 4.0       | 1059               | 2021/08/18            | 12                |
| SAR       | KPM-05       | 144988  | Power meter                    | Keysight Technologies Inc         | E4417A                          | GB41290718         | 2021/04/09            | 12                |
| SAR       | KPM-06       | 144989  | Power Meter                    | Rohde & Schwarz                   | NRVD                            | 101599             | 2021/09/18            | 12                |
| SAR       | KPSS-01      | 144990  | Power sensor                   | Keysight Technologies Inc         | E9327A                          | US40440544         | 2021/04/09            | 12                |
| SAR       | KRU-03       | 145107  | Ruler(150mm,caliper)           | Niuga Seiki                       | SK-M150                         | 806164             | 2021/03/31            | 12                |
| SAR       | KRU-04       | 145086  | Ruler(300mm)                   | SHINWA                            | 13134                           | -                  | 2021/02/10            | 12                |
| SAR       | KSDA-01      | 145090  | Dipole Antenna                 | Schmid&Partner Engineering AG     | D2450V2                         | 822                | 2020/11/10            | 12                |
| SAR       | KSDA-02      | 145091  | Dipole Antenna                 | Schmid&Partner Engineering AG     | D5GHzV2                         | 1070               | 2021/04/20            | 12                |
| SAR       | KSDH-01      | 145596  | Device holder                  | Schmid&Partner Engineering AG     | Mounting device for transmitter | -                  | 2021/09/14            | 12                |
| SAR       | KSG-08       | 145109  | Signal Generator               | Rohde & Schwarz                   | SMT06                           | 100763             | 2021/09/19            | 12                |
| SAR       | SALC-01      | 146112  | Primepure Ethanol              | Kanto Chemical Co., Inc.          | 14032-79                        | -                  | -                     | -                 |
| SAR       | SAT20-SARP1  | 160521  | Attenuator                     | Weinschel - API Technologies Corp | 4M-20                           | -                  | 2020/12/11            | 12                |
| SAR       | SAT6-SAR1    | 145160  | Attenuator                     | Huber+Suhner                      | 6806.17.A                       | 766429-1           | 2020/12/11            | 12                |
| SAR       | SCC-SAR2     | 145405  | Coaxial Cable                  | Huber+Suhner                      | SF104A/11PC3542/11N451/4M       | MY699/4A           | 2020/12/11            | 12                |
| SAR       | SEPP-02      | 145500  | Dielectric probe               | Schmid&Partner Engineering AG     | DAK3.5                          | 1129               | 2021/04/14            | 12                |
| SAR       | SOS-26       | 191844  | Humidity Indicator             | CUSTOM, Inc                       | CTH-201                         | -                  | 2021/08/02            | 12                |
| SAR       | SOS-SAR2     | 201967  | Digital thermomoter            | HANNA                             | Checktemp-4                     | A01440226111       | 2021/10/13            | 12                |
| SAR       | SOS-SAR3     | 201968  | Digital thermomoter            | HANNA                             | Checktemp-4                     | A01310946111       | 2021/10/13            | 12                |
| SAR       | SPB-02       | 146235  | Dosimetric E-Field Probe       | Schmid&Partner Engineering AG     | EX3DV4                          | 3907               | 2021/04/21            | 12                |
| SAR       | SRU-06       | 150560  | Measuring Tool, Ruler          | SHINWA                            | 14001                           | -                  | 2021/02/10            | 12                |
| SAR       | SSA-04       | 146176  | Spectrum Analyzer              | ADVANTEST                         | R3272                           | 101100994          | -                     | -                 |
| SAR       | SSAR-02      | 146177  | SAR measurement system         | Schmid&Partner Engineering AG     | DASY5                           | 1324               | -                     | -                 |
| SAR       | SSDH-02      | 145723  | Laptop holder                  | Schmid&Partner Engineering AG     | SM LH1 001 C                    | -                  | -                     | -                 |
| SAR       | SSLHV6-01    | 207714  | Head Tissue Simulating Liquid  | Schmid&Partner Engineering AG     | HBBL600-10000V6                 | SL AAH U16 BC      | -                     | -                 |
| SAR       | SSNA-01      | 146258  | Network Analyzer               | Keysight Technologies Inc         | 8753ES                          | US39171777         | 2020/11/09            | 12                |
| SAR       | SSRBT-02     | 145621  | SAR robot                      | Schmid&Partner Engineering AG     | TX60 Lspeag                     | F12/SL2QA1/A/01    | 2021/09/14            | 12                |
| SAR       | SWTR-03      | 146185  | DI water                       | MonotaRo                          | 34557433                        | -                  | -                     | -                 |

\*. Local ID: SALC-01, the parameters of primepure Ethanol (as reference liquid) used for the simulated tissue parameter confirmation was defined the NPL Report MAT23 (<http://www.npl.co.uk/content/conpublication/4295>)

The expiration date of calibration is the end of the expired month.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chain of calibrations. All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

\*. Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.

[Test Item] SAR: Specific Absorption Rate, AT: Antenna terminal conducted power

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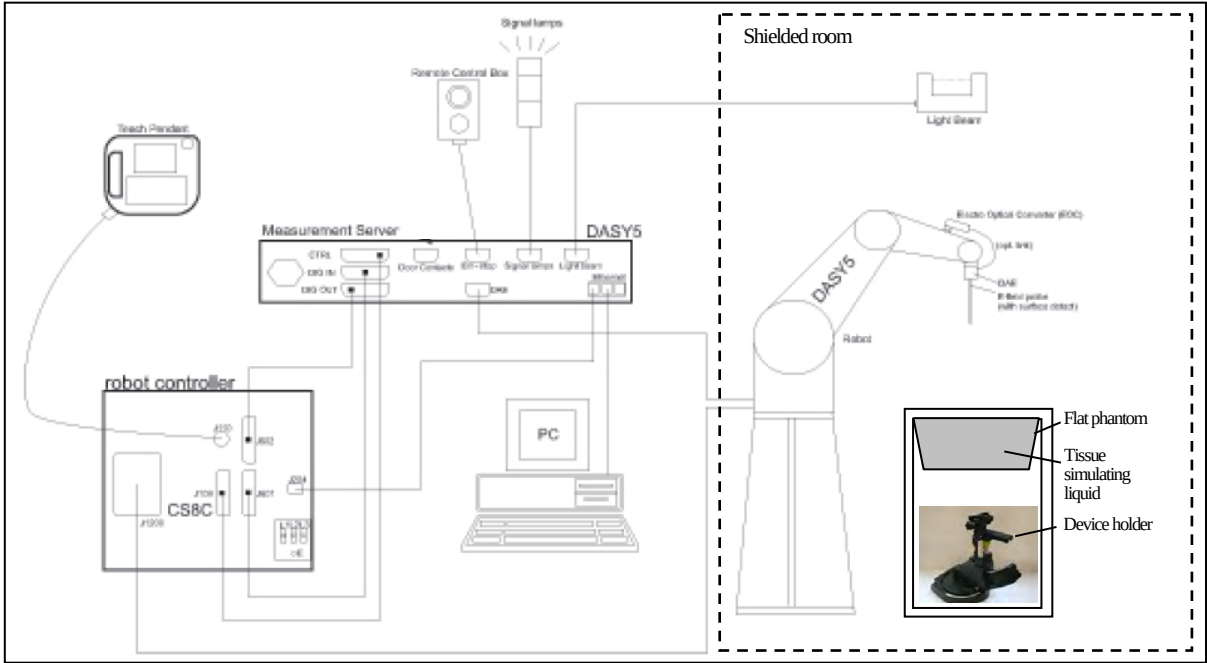
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Appendix 3-2: Configuration and peripherals

These measurements were performed with the automated near-field scanning system DASY5 from Schmid & Partner Engineering AG (SPEAG). The system is based on a high precision robot, which positions the probes with a positional repeatability of better than  $\pm 0.02$  mm. Special E- and H-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines to the data acquisition unit. The SAR measurements were conducted with the dosimetry probes EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.



The DASY5 system for performing compliance tests consist of the following items:

|    |                                                                                                                                                                                                                                                                                                                     |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | A standard high precision 6-axis robot (Stäubli TX/RX family) with controller, teach pendant and software.<br>An arm extension for accommodating the data acquisition electronics (DAE).                                                                                                                            |
| 2  | An isotropic field probe optimized and calibrated for the targeted measurement.                                                                                                                                                                                                                                     |
| 3  | A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC. |
| 4  | The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.                                       |
| 5  | The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.                                                                                                                                                 |
| 6  | The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.                                                                                                                                                                                                         |
| 7  | A computer running Win7 professional operating system and the DASY5 software.                                                                                                                                                                                                                                       |
| 8  | R Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.                                                                                                                                                                                                     |
| 9  | The phantom.                                                                                                                                                                                                                                                                                                        |
| 10 | The device holder for EUT. (low-loss dielectric palette) (*. when it was used.)                                                                                                                                                                                                                                     |
| 11 | Tissue simulating liquid mixed according to the given recipes.                                                                                                                                                                                                                                                      |
| 12 | Validation dipole kits allowing to validate the proper functioning of the system.                                                                                                                                                                                                                                   |

### Appendix 3-3: Test system specification

#### TX60 Lsepag robot/CS8Csepag-TX60 robot controller

- Number of Axes : 6
- Repeatability :  $\pm 0.02$  mm
- Manufacture : Stäubli Unimation Corp.

#### DASY5 Measurement server

- Features : The DASY5 measurement server is based on a PC/104 CPU board with a 400MHz intel ULV Celeron, 128MB chip-disk and 128MB RAM. The necessary circuits for communication with the DAE4 electronics box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY5 I/O board, which is directly connected to the PC/104 bus of the CPU board.
- Calibration : No calibration required.
- Manufacture : Schmid & Partner Engineering AG

#### Data Acquisition Electronic (DAE)

- Features : Signal amplifier, multiplexer, A/D converter and control logic.  
Serial optical link for communication with DASY5 embedded system (fully remote controlled). 2 step probe touch detector for mechanical surface detection and emergency robot stop (not in -R version)
- Measurement Range : 1  $\mu$ V to > 200 mV (16bit resolution and 2 range settings: 4 mV, 400 mV)
- Input Offset voltage : < 1  $\mu$ V (with auto zero)
- Input Resistance : 200 M $\Omega$
- Battery Power : > 10 hrs. of operation (with two 9 V battery)
- Manufacture : Schmid & Partner Engineering AG

#### Electro-Optical Converter (EOC61)

- Manufacture : Schmid & Partner Engineering AG

#### Light Beam Switch (LB5/80)

- Manufacture : Schmid & Partner Engineering AG

#### SAR measurement software

- Item : Dosimetric Assessment System DASY5
- Software version : Refer to Appendix 3-1 (Equipment used)
- Manufacture : Schmid & Partner Engineering AG

#### E-Field Probe

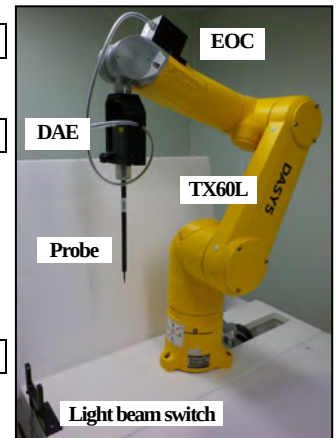
- Model : EX3DV4 (serial number: 3907)
- Construction : Symmetrical design with triangular core.  
Built-in shielding against static charges.  
PEEK enclosure material (resistant to organic solvents, e.g., DGBE).
- Frequency : 10MHz to 6GHz, Linearity:  $\pm 0.2$  dB (30MHz to 6GHz)
- Conversion Factors (CF) : Head: (2.45, 5.25, 5.6, 5.8) GHz  
Body: (2.45, 5.25, 5.6, 5.75) GHz
- Directivity :  $\pm 0.3$  dB in HSL (rotation around probe axis)  
 $\pm 0.5$  dB in tissue material (rotation normal to probe axis)
- Dynamic Range : 10 $\mu$ W/g to > 100 mW/g; Linearity:  $\pm 0.2$  dB (noise: typically < 1  $\mu$ W/g)
- Dimension : Overall length: 330 mm (Tip: 20 mm)  
Tip diameter: 2.5 mm (Body: 12 mm)  
Typical distance from probe tip to dipole centers: 1mm
- Application : High precision dosimetric measurement in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6GHz with precision of better 30%.
- Manufacture : Schmid & Partner Engineering AG

#### Phantom

- Model Number : **ELI 4.0 oval flat phantom**
- Shell Material : Fiberglass
- Shell Thickness : Bottom plate:  $2 \pm 0.2$  mm
- Dimensions : Bottom elliptical: 600 $\times$ 400 mm, Depth: 190 mm (Volume: Approx. 30 liters)
- Manufacture : Schmid & Partner Engineering AG

#### Device Holder

- ☒ Urethane foam
- ☒ KSDH-01: In combination with the ELI4, the Mounting Device enables the rotation of the mounted transmitter device in spherical coordinates. Transmitter devices can be easily and accurately positioned. The low-loss dielectric urethane foam was used for the mounting section of device holder.
  - Material : Polyoxymethylene (POM)
  - Manufacture : Schmid & Partner Engineering AG
- ☒ SSDH-02: A simple but effective and easy-to-use extension for the Mounting Device; facilitates testing of larger devices (e.g., laptops, cameras, etc.) according to IEC 62209-2.
  - Material : Polyoxymethylene (POM), PET-G, Foam
  - Manufacture : Schmid & Partner Engineering AG



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### Data storage and evaluation (postprocessing)

The DASY5 software stores the measured voltage acquired by the Data Acquisition Electronics (DAE) as raw data together with all the necessary software parameters for the data evaluation (probe calibration data, liquid parameters and communication system parameters) in measurement files with the extension “.da5x”. The postprocessing software evaluates the data every time the data is visualized or exported.

The fields and SAR are calculated from the measured voltage (probe voltage acquired by the DAE) and the following parameters:

|                    |                                     |                         |
|--------------------|-------------------------------------|-------------------------|
| Probe parameters:  | - Sensitivity                       | $norm_i, ai0, ai1, ai2$ |
|                    | - Conversion Factor                 | $convFi$                |
|                    | - Diode Compression Point           | $dcp_i$                 |
|                    | - Probe Modulation Response Factors | $ai, bi, ci, d$         |
| Device parameters: | - Frequency                         | $f$                     |
|                    | - Crest factor                      | $cf$                    |
| Media parameters:  | - Conductivity                      | $\sigma$                |
|                    | - Relative Permittivity             | $\rho$                  |

This parameters are stored in the DASY5 V52 measurement file.

These parameters must be correctly set in the DASY5 V52 software setup. They are available as configuration file and can be imported into the measurement file. The values displayed in the multimeter window are assessed using the parameters of the actual system setup. In the scan visualization and export modes, the parameters stored in the measurement file are used.

The measured voltage is not proportional to the exciting. It must be first linearized.

Approximated Probe Response Linearization using Crest Factor;

This linearization method is enabled when a custom defined communication system is measured. The compensation applied is a function of the measured voltage, the detector diode compression point and the crest factor of the measured signal.

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

|            |                                                   |                              |
|------------|---------------------------------------------------|------------------------------|
| with $V_i$ | = linearized voltage of channel i in $\mu V$      | (i = x,y,z)                  |
| $U_i$      | = measured voltage of channel i in $\mu V$        | (i = x,y,z)                  |
| $cf$       | = crest factor of exciting field                  | (DASY parameter)             |
| $dcp_i$    | = diode compression point of channel i in $\mu V$ | (Probe parameter, i = x,y,z) |

The resulting linearized voltage is only approximated because the probe is not calibrated to this specific signal.

Field and SAR Calculation

The primary field data for each channel are calculated using the linearized voltage:

$$E - \text{fieldprobes} : E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}}$$

|            |                                                                         |             |
|------------|-------------------------------------------------------------------------|-------------|
| with $V_i$ | = linearized voltage of channel i in $\mu V$                            | (i = x,y,z) |
| $Norm_i$   | = sensor sensitivity of channel i in $\mu V/(V/m)^2$ for E-field Probes | (i = x,y,z) |
| $ConvF$    | = sensitivity enhancement in solution                                   |             |
| $E_i$      | = electric field strength of channel i in V/m                           | (i = x,y,z) |

The RMS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The primary field data are used to calculate the derived field units.

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1'000}$$

|           |                                                  |
|-----------|--------------------------------------------------|
| with SAR  | = local specific absorption rate in mW/g         |
| $E_{tot}$ | = total field strength in V/m                    |
| $\sigma$  | = conductivity in [mho/m] or [Siemens/m]         |
| $\rho$    | = equivalent tissue density in g/cm <sup>3</sup> |

### Appendix 3-4: Simulated tissue composition and parameter confirmation

| Liquid type                       | Head                                                                                                                                 | Control No. | SSLHV6-01                                                                        | Model No. / Product No. | HBBL600-10000V6 / SL AAH U16 BC |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------|-------------------------|---------------------------------|
| Ingredient: Mixture [%]           | Water: >77, Ethanediol: <5.2, Sodium petroleum sulfonate: <2.9, Hexylene Glycol: <2.9, alkoxylated alcohol (>C <sub>16</sub> ): <2.0 |             |                                                                                  |                         |                                 |
| Tolerance specification           | ± 10%                                                                                                                                |             |                                                                                  |                         |                                 |
| Temperature gradients [% / deg.C] | permittivity: -0.19 / conductivity: -0.57 (at 2.6 GHz), permittivity: +0.31 / conductivity: -1.43 (at 5.5 GHz) (*1)                  |             |                                                                                  |                         |                                 |
| Manufacture                       | Schmid & Partner Engineering AG                                                                                                      |             | Note: *1. speag_920-SLAAxy-E_1.12.15CL (Maintenance of tissue simulating liquid) |                         |                                 |

\*. The dielectric parameters were checked prior to assessment using the DAK3.5 dielectric probe kit.

| Date measured    | Frequency [MHz] | Liquid type | Ambient/ |       | Liquid temp. [deg.C] | Liquid depth of phantom [mm] | Liquid parameters <sup>(*a)</sup>  |       |                     |       |              |                    |       |        |       |              | ASAR <sup>(*b)</sup> |         |
|------------------|-----------------|-------------|----------|-------|----------------------|------------------------------|------------------------------------|-------|---------------------|-------|--------------|--------------------|-------|--------|-------|--------------|----------------------|---------|
|                  |                 |             |          |       |                      |                              | Permittivity (ε <sub>r</sub> ) [-] |       |                     |       |              | Conductivity [S/m] |       |        |       |              |                      |         |
|                  |                 |             | [deg.C]  | [%RH] |                      |                              | Target                             | Meas. | Δε <sub>r</sub> [%] | Limit | Δend, >48hrs | Target             | Meas. | Δσ [%] | Limit | Δend, >48hrs | 1g [%]               | 10g [%] |
| October 28, 2021 | 5600            | Head        | 24       | 40~50 | 22.5                 | 150                          | 35.53                              | 34.70 | -2.3                | 10 %  | -            | 5.065              | 4.895 | -3.4   | 10 %  | -            | 0.6                  | 0.7     |
| October 28, 2021 | 5800            | Head        | 24       | 40~50 | 22.5                 | 150                          | 35.30                              | 34.40 | -2.5                | 10 %  | -            | 5.270              | 5.122 | -2.8   | 10 %  | -            | 0.6                  | 0.7     |
| October 29, 2021 | 5250            | Head        | 24       | 40~50 | 22.5                 | 150                          | 35.93                              | 35.30 | -1.8                | 10 %  | -            | 4.706              | 4.514 | -4.1   | 10 %  | -            | 0.5                  | 0.7     |
| October 29, 2021 | 2450            | Head        | 24       | 40~50 | 22.5                 | 150                          | 39.2                               | 39.69 | 1.2                 | 10 %  | -            | 1.8                | 1.849 | 2.8    | 10 %  | -            | 1.1                  | 0.5     |
| November 1, 2021 | 2450            | Head        | 24       | 45~55 | 22.5                 | 150                          | 39.2                               | 39.83 | 1.6                 | 10 %  | -            | 1.8                | 1.839 | 2.2    | 10 %  | -            | 0.7                  | 0.3     |
| November 1, 2021 | 5800            | Head        | 24       | 45~55 | 22.5                 | 150                          | 35.30                              | 34.45 | -2.4                | 10 %  | -            | 5.270              | 5.130 | -2.7   | 10 %  | -            | 0.6                  | 0.7     |
| November 2, 2021 | 5600            | Head        | 24       | 45~55 | 22.5                 | 150                          | 35.53                              | 34.77 | -2.1                | 10 %  | -            | 5.065              | 4.896 | -3.3   | 10 %  | -            | 0.6                  | 0.7     |
| November 2, 2021 | 5250            | Head        | 24       | 45~55 | 22.5                 | 150                          | 35.93                              | 35.38 | -1.5                | 10 %  | -            | 4.706              | 4.516 | -4.0   | 10 %  | -            | 0.4                  | 0.6     |

\*. Calculating formula: Δend(>48 hrs.) (%) = {(dielectric properties, end of test series) / (dielectric properties, beginning of test series) - 1} × 100

\*a. The target values of (2000, 2450, 3000 and 5800) MHz are parameters defined in Appendix A of KDB 865664 D01. For other frequencies, the target nominal dielectric values shall be obtained by linear interpolation between the higher and lower tabulated figures.

| Standard    |                |         |             |         |                | Interpolated & Extrapolated |             |         |                |         |             |
|-------------|----------------|---------|-------------|---------|----------------|-----------------------------|-------------|---------|----------------|---------|-------------|
| f (MHz)     | ε <sub>r</sub> | σ [S/m] | Body Tissue | f (MHz) | ε <sub>r</sub> | σ [S/m]                     | Body Tissue | f (MHz) | ε <sub>r</sub> | σ [S/m] | Body Tissue |
| (1800)-2000 | 40.0           | 1.40    | 53.3        | 3000    | 38.5           | 2.40                        | 52.0        | 5250    | 35.93          | 4.706   | 48.95       |
| 2450        | 39.2           | 1.80    | 52.7        | 5800    | 35.3           | 5.27                        | 48.2        | 5600    | 35.53          | 5.065   | 48.47       |

\*b. The coefficients are parameters defined in IEEE Std. 1528-2013.

ASAR(1g) = C<sub>εr</sub> × Δε<sub>r</sub> + C<sub>σ</sub> × Δσ, C<sub>εr</sub> = 7.854E-4 × f<sup>3</sup> + 9.402E-3 × f<sup>2</sup> - 2.742E-2 × f + 0.2026 / C<sub>σ</sub> = 9.804E-3 × f<sup>3</sup> - 8.661E-2 × f<sup>2</sup> + 2.981E-2 × f + 0.7829

ASAR(10g) = C<sub>εr</sub> × Δε<sub>r</sub> + C<sub>σ</sub> × Δσ, C<sub>εr</sub> = 3.456 × 10<sup>-3</sup> × f<sup>3</sup> - 3.531 × 10<sup>-2</sup> × f<sup>2</sup> + 7.675 × 10<sup>-2</sup> × f - 0.1860 / C<sub>σ</sub> = 4.479 × 10<sup>-3</sup> × f<sup>3</sup> - 1.586 × 10<sup>-2</sup> × f<sup>2</sup> - 0.1972 × f + 0.7717

### Appendix 3-5: Daily check results

\*. Prior to the SAR assessment of EUT, the Daily check was performed to test whether the SAR system was operating within its target of ±10%. The Daily check results are in the table below.

| Date             | Frequency<br>[MHz] | ASAR           |           | Daily check results (*. Meas.: Measured, Cal.: Calibration value, STD: Standard value) |               |                  |              |              |             |             |            |              |                       |               |                  |              |              |             |             |            |              |           |
|------------------|--------------------|----------------|-----------|----------------------------------------------------------------------------------------|---------------|------------------|--------------|--------------|-------------|-------------|------------|--------------|-----------------------|---------------|------------------|--------------|--------------|-------------|-------------|------------|--------------|-----------|
|                  |                    |                |           | SAR (1g) [W/kg] (*d)                                                                   |               |                  |              |              |             |             |            |              | SAR (10g) [W/kg] (*d) |               |                  |              |              |             |             |            |              |           |
|                  |                    | Liquid<br>Type | 1g<br>[%] | 10g<br>[%]                                                                             | Meas.<br>(*c) | ASAR-<br>correct | 1W<br>scaled | Target       |             | Deviation   |            | Limit<br>[%] | Pass<br>?             | Meas.<br>(*c) | ASAR-<br>correct | 1W<br>scaled | Target       |             | Deviation   |            | Limit<br>[%] | Pass<br>? |
|                  |                    |                |           |                                                                                        |               |                  |              | Cal.<br>(*e) | STD<br>(*f) | Cal.<br>[%] | STD<br>[%] |              |                       |               |                  |              | Cal.<br>(*e) | STD<br>(*f) | Cal.<br>[%] | STD<br>[%] |              |           |
| October 28, 2021 | 5600               | Head           | 0.6       | 0.7                                                                                    | 8.42          | 8.37             | 83.7         | 82.4         | n/a         | 1.6         | -          | 10           | Pass                  | 2.42          | 2.4              | 24           | 23.4         | n/a         | 2.6         | -          | 10           | Pass      |
| October 28, 2021 | 5800               | Head           | 0.6       | 0.7                                                                                    | 8.08          | 8.03             | 80.3         | 80.1         | 78          | 0.2         | 2.9        | 10           | Pass                  | 2.31          | 2.29             | 22.9         | 22.5         | 21.9        | 1.8         | 4.6        | 10           | Pass      |
| October 29, 2021 | 5250               | Head           | 0.5       | 0.7                                                                                    | 7.79          | 7.75             | 77.5         | 78.8         | n/a         | -1.6        | -          | 10           | Pass                  | 2.27          | 2.25             | 22.5         | 22.6         | n/a         | -0.4        | -          | 10           | Pass      |
| October 29, 2021 | 2450               | Head           | 1.1       | 0.5                                                                                    | 13.3          | 13.15            | 52.6         | 53.6         | 52.4        | -1.9        | 0.4        | 10           | Pass                  | 6.22          | 6.19             | 24.76        | 24.9         | 24          | -0.6        | 3.2        | 10           | Pass      |
| November 1, 2021 | 2450               | Head           | 0.7       | 0.3                                                                                    | 13.3          | 13.21            | 52.84        | 53.6         | 52.4        | -1.4        | 0.8        | 10           | Pass                  | 6.23          | 6.21             | 24.84        | 24.9         | 24          | -0.2        | 3.5        | 10           | Pass      |
| November 1, 2021 | 5800               | Head           | 0.6       | 0.7                                                                                    | 8.01          | 7.96             | 79.6         | 80.1         | 78          | -0.6        | 2.1        | 10           | Pass                  | 2.3           | 2.28             | 22.8         | 22.5         | 21.9        | 1.3         | 4.1        | 10           | Pass      |
| November 2, 2021 | 5600               | Head           | 0.6       | 0.7                                                                                    | 8.52          | 8.47             | 84.7         | 82.4         | n/a         | 2.8         | -          | 10           | Pass                  | 2.44          | 2.42             | 24.2         | 23.4         | n/a         | 3.4         | -          | 10           | Pass      |
| November 2, 2021 | 5250               | Head           | 0.4       | 0.6                                                                                    | 8.01          | 7.98             | 79.8         | 78.8         | n/a         | 1.3         | -          | 10           | Pass                  | 2.33          | 2.32             | 23.2         | 22.6         | n/a         | 2.7         | -          | 10           | Pass      |

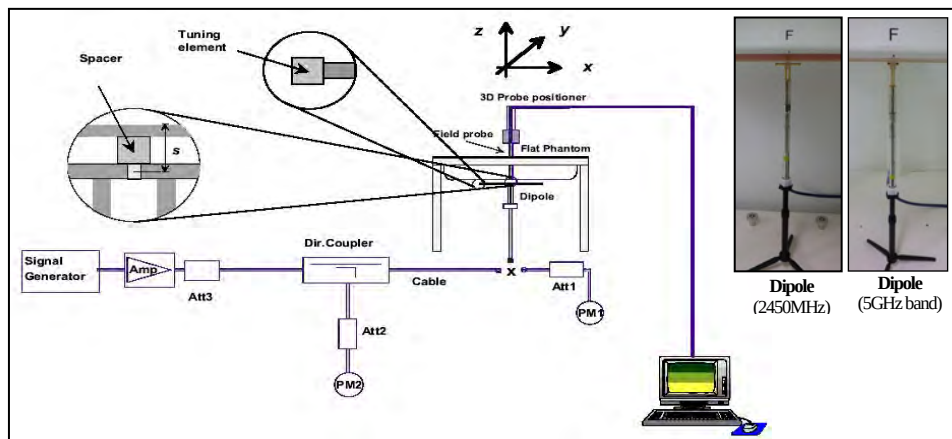
\*. Calculating formula: ASAR corrected SAR (1g,10g) (W/kg) = (Measured SAR(1g,10g) (W/kg)) × (100 - (ASAR(%))) / 100

\*c. The "Meas. (Measured)" SAR value is obtained at 250 mW for 2450MHz, 100 mW for (5250, 5600, 5800) MHz

\*d. The measured SAR value of Daily check was compensated for tissue dielectric deviations (ASAR) and scaled to 1W of output power in order to compare with the manufacture's calibration target value which was normalized.

\*e. The target value is a parameter defined in the calibration data sheet of D2450V2 (sn:822) and D5GHZV2 (sn:1070) dipole calibrated by Schmid & Partner Engineering AG (Certification No. D2450V2-822\_Nov20 and D5GHZV2-1070\_Apr21, the data sheet was filed in this report).

\*f. The target value (normalized to 1W) is defined in IEEE Std.1528.



Test setup for the system performance check

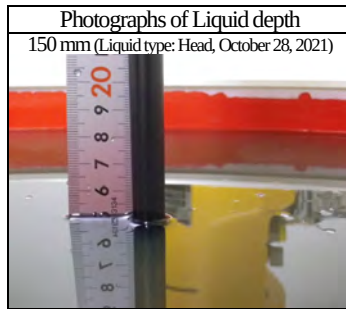
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### Appendix 3-6: Daily check measurement data



**EUT: Dipole(5GHz); Type: D5GHzV2; Serial: 1070; Forward conducted power: 100 mW**

**Communication System: CW** (UID 0, Frame Length in ms: 0; Communication System PAR: 0; PMF: 1); **Frequency: 5600 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5600$  MHz;  $\sigma = 4.895$  S/m;  $\epsilon_r = 34.70$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5600 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0, 156.0$

**Area:60x60,10 (7x7x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 21.9 W/kg

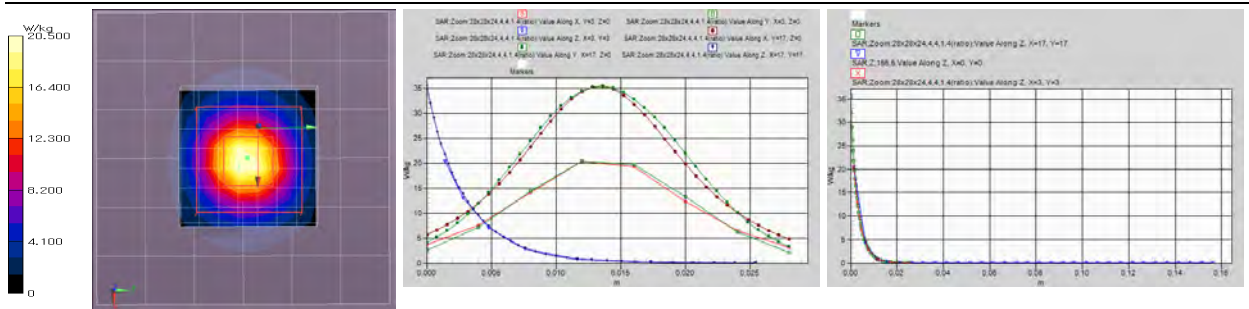
**Area:60x60,10 (61x61x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 21.9 W/kg

**Z;155,5 (1x1x32):** Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 20.4 W/kg

**Zoom:28x28x24,4,1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 72.96 V/m; Power Drift = -0.01 dB; Maximum value of SAR (measured) = 20.5 W/kg; Peak SAR (extrapolated) = 35.5 W/kg

**SAR(1 g) = 8.42 W/kg; SAR(10 g) = 2.42 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 7.5 mm; Ratio of SAR at M2 to SAR at M1 = 63.4%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 24 deg.C. / (50~60) %RH,  
\* liquid temperature: 22.3(start)22.4(end)22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

**EUT: Dipole(5GHz); Type: D5GHzV2; Serial: 1070; Forward conducted power: 100 mW**

**Communication System: CW** (UID 0, Frame Length in ms: 0; Communication System PAR: 0; PMF: 1); **Frequency: 5800 MHz; Crest Factor: 1.0**

**Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.122$  S/m;  $\epsilon_r = 34.40$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section

-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5800 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0, 156.0$

**Area:60x60,10 (7x7x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 20.8 W/kg

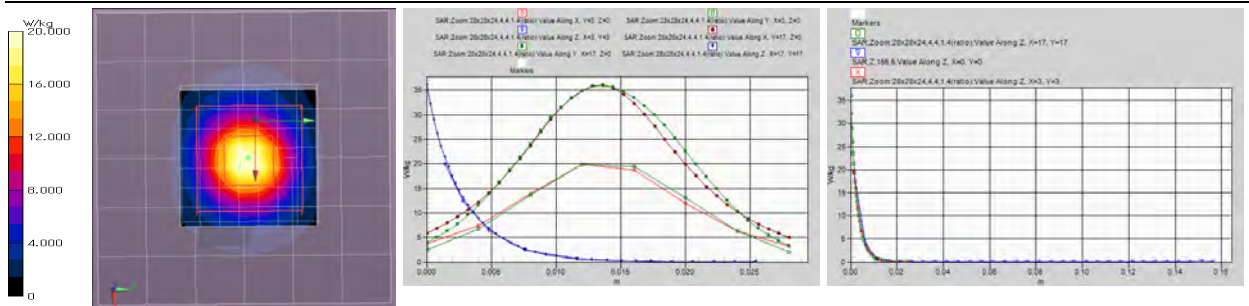
**Area:60x60,10 (61x61x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 20.9 W/kg

**Z;155,5 (1x1x32):** Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 19.6 W/kg

**Zoom:28x28x24,4,1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 71.01 V/m; Power Drift = -0.01 dB; Maximum value of SAR (measured) = 20.0 W/kg; Peak SAR (extrapolated) = 36.0 W/kg

**SAR(1 g) = 8.08 W/kg; SAR(10 g) = 2.31 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 7.5 mm; Ratio of SAR at M2 to SAR at M1 = 61.8%)



Remarks: \* Date tested: 2021/10/28; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 24 deg.C. / (50~60) %RH,  
\* liquid temperature: 22.4(start)22.4(end)22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g) / small=SAR(1g)

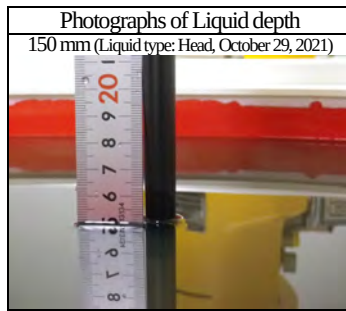
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Appendix 3-6: Daily check measurement data (cont'd)



EUT: Dipole(5GHz); Type: D5GHZV2; Serial: 1070; Forward conducted power: 100 mW

Communication System: CW (UID 0, Frame Length in ms: 0; Communication System PAR: 0; PMF: 1); Frequency: 5250 MHz; Crest Factor: 1.0

Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.514$  S/m;  $\epsilon_r = 35.30$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5250 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0, 156.0$

Area:60x60,10 (7x7x1): Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 19.2 W/kg

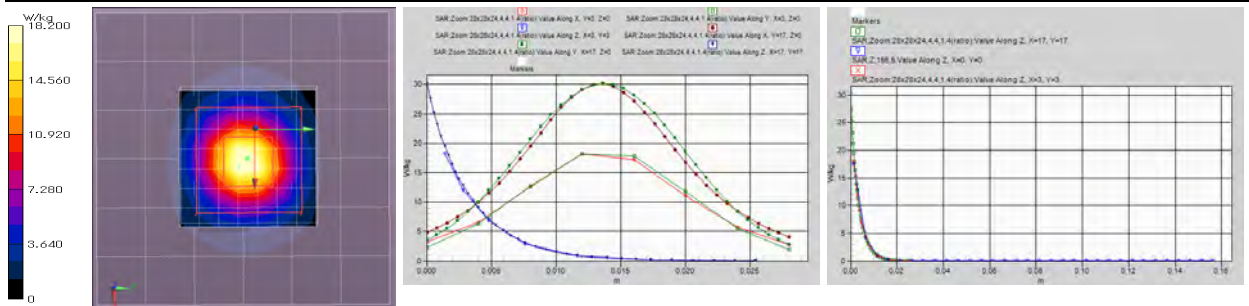
Area:60x60,10 (61x61x1): Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 19.3 W/kg

Z;155,5 (1x1x32): Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 17.4 W/kg

Zoom:28x28x24,4,1.4(ratio) (8x8x7)Cube 0: Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 71.73 V/m; Power Drift = 0.01 dB; Maximum value of SAR (measured) = 18.2 W/kg; Peak SAR (extrapolated) = 30.2 W/kg

SAR(1 g) = 7.79 W/kg; SAR(10 g) = 2.27 W/kg (\*:Smallest distance from peaks to all points 3 dB below = 7.5 mm; Ratio of SAR at M2 to SAR at M1 = 66.2%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 24 deg.C. / (50~60) %RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

EUT: Dipole(245GHz); Type: D2450V2; Serial: SN822; Forward conducted power: 250 mW

Communication System: CW (UID 0, Frame Length in ms: 0; Communication System PAR: 0; PMF: 1); Frequency: 2450 MHz; Crest Factor: 1.0

Medium: HSL5GHz(v6.2110); Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.849$  S/m;  $\epsilon_r = 39.69$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration: -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section -DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(7.35, 7.35, 7.35) @ 2450 MHz; Calibrated: 2021/04/21

-Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0, 161.0$

Area:60x60,15 (5x5x1): Measurement grid:  $dx=15$ mm,  $dy=15$ mm; Maximum value of SAR (measured) = 20.1 W/kg

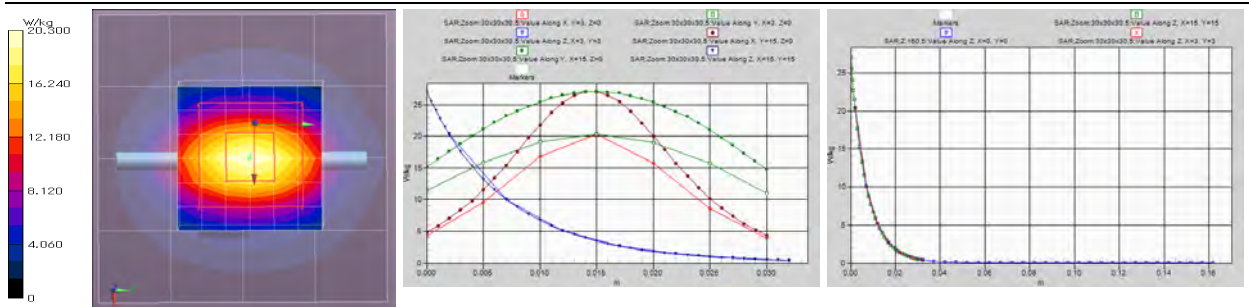
Area:60x60,15 (41x41x1): Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm; Maximum value of SAR (interpolated) = 20.1 W/kg

Z;160,5 (1x1x33): Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 20.4 W/kg

Zoom:30x30x30,5 (7x7x7)Cube 0: Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm;

Reference Value = 106.1 V/m; Power Drift = 0.05 dB; Maximum value of SAR (measured) = 20.3 W/kg; Peak SAR (extrapolated) = 27.1 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.22 W/kg (\*:Smallest distance from peaks to all points 3 dB below = 9 mm; Ratio of SAR at M2 to SAR at M1 = 49.6%)



Remarks: \* Date tested: 2021/10/29; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\* liquid depth: 150 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 24 deg.C. / (50~60) %RH,  
\* liquid temperature: 22.4(start)/22.4(end)/22.5(in check) deg.C.; \* White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

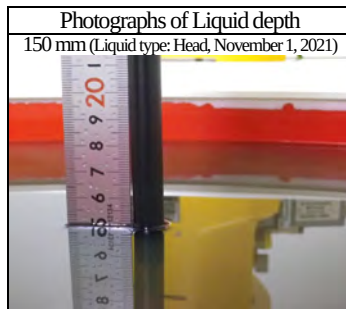
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Appendix 3-6: Daily check measurement data (cont'd)



**EUT: Dipole(245GHz); Type: D2450V2; Serial: SN822; Forward conducted power: 250 mW**

**Communication System: CW** (UID 0, Frame Length in ms: 0; Communication System PAR: 0; PMF: 1); **Frequency: 2450 MHz; Crest Factor: 1.0**  
**Medium: HSL5GHz(v6.2111); Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.839$  S/m;  $\epsilon_r = 39.83$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(7.35, 7.35, 7.35) @ 2450 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 2mm (Mechanical Surface Detection),  $z = 1.0, 31.0, 161.0$

**Area:60x60,15 (5x5x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm; Maximum value of SAR (measured) = 19.9 W/kg

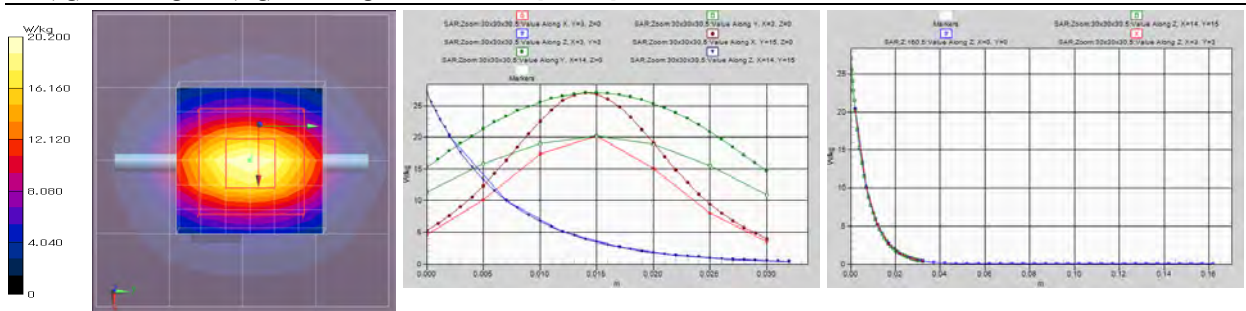
**Area:60x60,15 (41x41x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm; Maximum value of SAR (interpolated) = 19.9 W/kg

**Z;160,5 (1x1x33):** Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 20.4 W/kg

**Zoom:30x30x30,5 (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm;

Reference Value = 105.9 V/m; Power Drift = 0.09 dB; Maximum value of SAR (measured) = 20.2 W/kg; Peak SAR (extrapolated) = 27.1 W/kg

**SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.23 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 9.1 mm; Ratio of SAR at M2 to SAR at M1 = 49.8%)



Remarks: \*. Date tested: 2021/11/1; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\*. liquid depth: 150 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 24 deg.C. / (55~65) %RH,  
\*. liquid temperature: 22.3(start)/22.3(end)/22.5(in check) deg.C.; \*. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

**EUT: Dipole(5GHz); Type: D5GHzV2; Serial: 1070; Forward conducted power: 100 mW**

**Communication System: CW** (UID 0, Frame Length in ms: 0; Communication System PAR: 0; PMF: 1); **Frequency: 5800 MHz; Crest Factor: 1.0**  
**Medium: HSL5GHz(v6.2111); Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.13$  S/m;  $\epsilon_r = 34.45$ ;  $\rho = 1000$  kg/m<sup>3</sup>**

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.6, 4.6, 4.6) @ 5800 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0, 156.0$

**Area:60x60,10 (7x7x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 20.9 W/kg

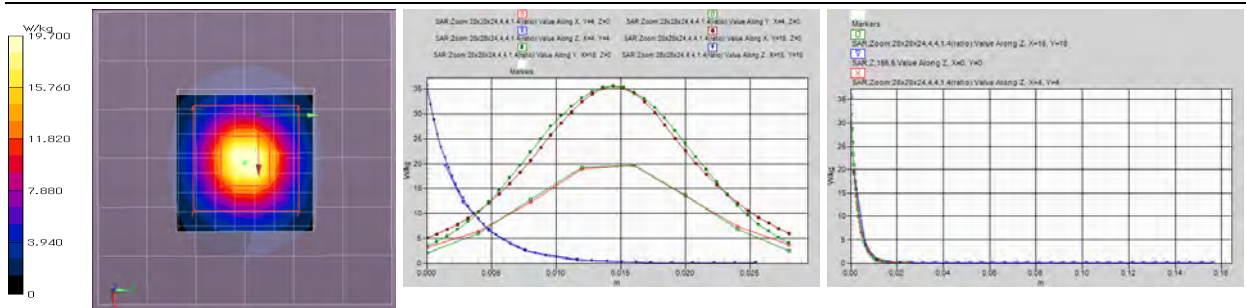
**Area:60x60,10 (61x61x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 20.9 W/kg

**Z;155,5 (1x1x32):** Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 19.6 W/kg

**Zoom:28x28x24,4,1.4(ratio) (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;

Reference Value = 70.26 V/m; Power Drift = -0.05 dB; Maximum value of SAR (measured) = 19.7 W/kg; Peak SAR (extrapolated) = 35.6 W/kg

**SAR(1 g) = 8.01 W/kg; SAR(10 g) = 2.3 W/kg** (\*Smallest distance from peaks to all points 3 dB below = 7.5 mm; Ratio of SAR at M2 to SAR at M1 = 62.1%)



Remarks: \*. Date tested: 2021/11/1; Tested by: Hiroshi Naka; Tested place: No.7 shielded room,  
\*. liquid depth: 150 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 24 deg.C. / (55~65) %RH,  
\*. liquid temperature: 22.3(start)/22.3(end)/22.5(in check) deg.C.; \*. White cubic: zoom scan area, Red cubic: big=SAR(10g)/small=SAR(1g)

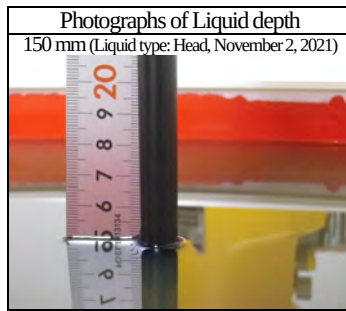
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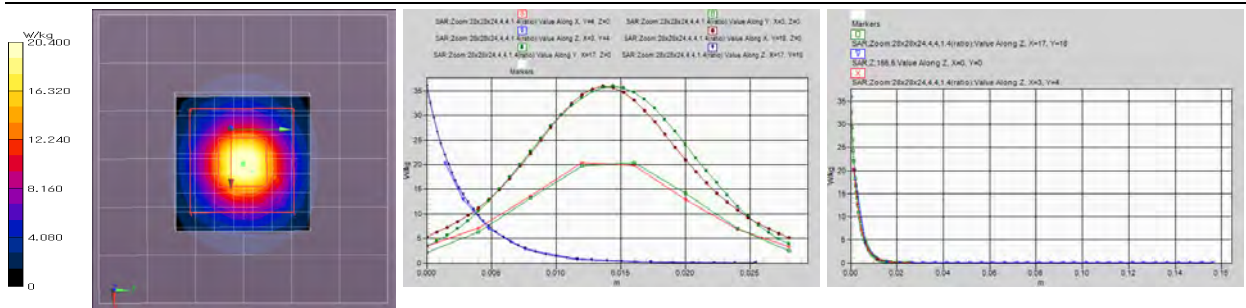
Appendix 3-6: Daily check measurement data (cont'd)



**EUT: Dipole(5GHz); Type: D5GHzV2; Serial: 1070; Forward conducted power: 100 mW**  
**Communication System: CW** (UID 0, Frame Length in ms: 0; Communication System PAR: 0; PMF: 1); **Frequency: 5600 MHz; Crest Factor: 1.0**  
**Medium: HSL5GHz(v6.2111); Medium parameters used:  $f = 5600$  MHz;  $\sigma = 4.896$  S/m;  $\epsilon_r = 34.77$ ;  $\rho = 1000$  kg/m<sup>3</sup>**  
Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(4.56, 4.56, 4.56) @ 5600 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0, 156.0$

**Area:60x60,10 (7x7x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 21.1 W/kg  
**Area:60x60,10 (61x61x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 21.3 W/kg  
**Z;155,5 (1x1x32):** Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 20.1 W/kg  
**Zoom:28x28x24,4,1,4(ratio) (8x8x7)Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;  
Reference Value = 73.44 V/m; Power Drift = -0.09 dB; Maximum value of SAR (measured) = 20.4 W/kg; Peak SAR (extrapolated) = 36.0 W/kg  
**SAR(1 g) = 8.52 W/kg; SAR(10 g) = 2.44 W/kg** (\*:Smallest distance from peaks to all points 3 dB below = 7.2 mm; Ratio of SAR at M2 to SAR at M1 = 63.8%)

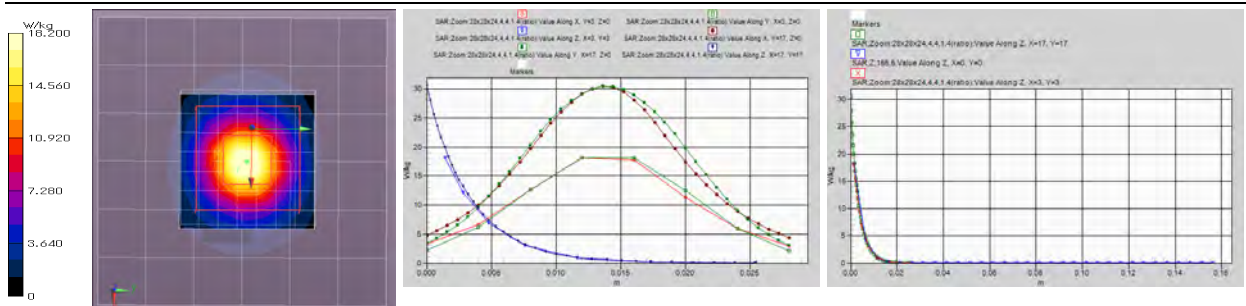


Remarks: \*. Date tested: 2021/11/2; Tested by: Hiroshi Naka; Tested place:No.7 shielded room,  
\*. liquid depth: 150 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 24 deg.C. / (55~65) %RH,  
\*. liquid temperature: 22.4(start)/22.3(end)/22.5(in check) deg.C.; \*.White cubic: zoom scan area, Red cubic: big=SAR(10g )small=SAR(1g)

**EUT: Dipole(5GHz); Type: D5GHzV2; Serial: 1070; Forward conducted power: 100 mW**  
**Communication System: CW** (UID 0, Frame Length in ms: 0; Communication System PAR: 0; PMF: 1); **Frequency: 5250 MHz; Crest Factor: 1.0**  
**Medium: HSL5GHz(v6.2111); Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.516$  S/m;  $\epsilon_r = 35.38$ ;  $\rho = 1000$  kg/m<sup>3</sup>**  
Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:** -Electronics: DAE4 Sn626; Calibrated: 2020/11/17 / -Phantom: ELI v4.0; Type: QDOVA001BA; Serial: 1059; Phantom section: Flat Section  
-DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474) / -Probe: EX3DV4 - SN3907; ConvF(5.14, 5.14, 5.14) @ 5250 MHz; Calibrated: 2021/04/21  
-Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0, 156.0$

**Area:60x60,10 (7x7x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm; Maximum value of SAR (measured) = 19.2 W/kg  
**Area:60x60,10 (61x61x1):** Interpolated grid:  $dx=1.000$  mm,  $dy=1.000$  mm; Maximum value of SAR (interpolated) = 19.3 W/kg  
**Z;155,5 (1x1x32):** Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=5$ mm; Maximum value of SAR (measured) = 18.0 W/kg  
**Zoom:28x28x24,4,1,4(ratio) (8x8x7)Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm;  
Reference Value = 72.15 V/m; Power Drift = 0.07 dB; Maximum value of SAR (measured) = 18.2 W/kg; Peak SAR (extrapolated) = 30.5 W/kg  
**SAR(1 g) = 8.01 W/kg; SAR(10 g) = 2.33 W/kg** (\*:Smallest distance from peaks to all points 3 dB below = 7.4 mm; Ratio of SAR at M2 to SAR at M1 = 66.8%)



Remarks: \*. Date tested: 2021/11/2; Tested by: Hiroshi Naka; Tested place:No.7 shielded room,  
\*. liquid depth: 150 mm; Position: distance of dipole to phantom: 8mm (10mm to liquid); ambient: 24 deg.C. / (55~65) %RH,  
\*. liquid temperature: 22.3(start)/22.3(end)/22.5(in check) deg.C.; \*.White cubic: zoom scan area, Red cubic: big=SAR(10g )small=SAR(1g)

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### Appendix 3-7: Uncertainty Assessment (SAR measurement/Daily check)

\*. Although this standard determines only the limit value of uncertainty, there is no applicable rule of uncertainty in this. Therefore, the following results are derived depending on whether or not laboratory uncertainty is applied.

| Uncertainty of SAR measurement (2.4GHz~6GHz) (*.v6h,ε&σ: 10%, DAK3.5, Tx: ≈100% duty cycle) (v09r02) |                                                    |                   |                          |         |         |          | 1g SAR             | 10g SAR            |          |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------|--------------------------|---------|---------|----------|--------------------|--------------------|----------|
| Combined measurement uncertainty of the measurement system (k=1)                                     |                                                    |                   |                          |         |         |          | ± 13.2 %           | ± 13.1 %           |          |
| Expanded uncertainty (k=2)                                                                           |                                                    |                   |                          |         |         |          | ± 26.4 %           | ± 26.2 %           |          |
|                                                                                                      | Error Description (2.4-6GHz)                       | Uncertainty Value | Probability distribution | Divisor | ci (1g) | ci (10g) | ui (1g)            | ui (10g)           | Vi, veff |
| A                                                                                                    | Measurement System (DASY5)                         |                   |                          |         |         |          | (std. uncertainty) | (std. uncertainty) |          |
| 1                                                                                                    | Probe Calibration Error                            | ±7.0 %            | Normal                   | 1       | 1       | 1        | ±7.0 %             | ±7.0 %             | ∞        |
| 2                                                                                                    | Axial isotropy Error                               | ±4.7 %            | Rectangular              | √3      | 0.71    | 0.71     | ±1.9 %             | ±1.9 %             | ∞        |
| 3                                                                                                    | Hemispherical isotropy Error                       | ±9.6 %            | Rectangular              | √3      | 0.71    | 0.71     | ±3.9 %             | ±3.9 %             | ∞        |
| 4                                                                                                    | Linearity Error                                    | ±4.7 %            | Rectangular              | √3      | 1       | 1        | ±2.7 %             | ±2.7 %             | ∞        |
| 5                                                                                                    | Probe modulation response (v09)                    | ±5.5 %            | Rectangular              | √3      | 1       | 1        | ±3.2 %             | ±3.2 %             | ∞        |
| 6                                                                                                    | Sensitivity Error (detection limit)                | ±1.0 %            | Rectangular              | √3      | 1       | 1        | ±0.6 %             | ±0.6 %             | ∞        |
| 7                                                                                                    | Boundary effects Error                             | ±4.3 %            | Rectangular              | √3      | 1       | 1        | ±2.5 %             | ±2.5 %             | ∞        |
| 8                                                                                                    | Readout Electronics Error(DAE)                     | ±0.3 %            | Rectangular              | √3      | 1       | 1        | ±0.3 %             | ±0.3 %             | ∞        |
| 9                                                                                                    | Response Time Error                                | ±0.8 %            | Normal                   | 1       | 1       | 1        | ±0.5 %             | ±0.5 %             | ∞        |
| 10                                                                                                   | Integration Time Error (≈100% duty cycle)          | ±0 %              | Rectangular              | √3      | 1       | 1        | 0 %                | 0 %                | ∞        |
| 11                                                                                                   | RF ambient conditions-noise (v09)                  | ±1.0 %            | Rectangular              | √3      | 1       | 1        | ±0.6 %             | ±0.6 %             | ∞        |
| 12                                                                                                   | RF ambient conditions-reflections                  | ±3.0 %            | Rectangular              | √3      | 1       | 1        | ±1.7 %             | ±1.7 %             | ∞        |
| 13                                                                                                   | Probe positioner mechanical tolerance              | ±3.3 %            | Rectangular              | √3      | 1       | 1        | ±1.9 %             | ±1.9 %             | ∞        |
| 14                                                                                                   | Probe Positioning with respect to phantom shell    | ±6.7 %            | Rectangular              | √3      | 1       | 1        | ±3.9 %             | ±3.9 %             | ∞        |
| 15                                                                                                   | Max. SAR evaluation (Post-processing)              | ±4.0 %            | Rectangular              | √3      | 1       | 1        | ±2.3 %             | ±2.3 %             | ∞        |
| B                                                                                                    | Test Sample Related                                |                   |                          |         |         |          |                    |                    |          |
| 16                                                                                                   | Device Holder or Positioner Tolerance (v09)        | ±3.2 %            | Normal                   | 1       | 1       | 1        | ±3.2 %             | ±3.2 %             | 5        |
| 17                                                                                                   | Test Sample Positioning Error (v09)                | ±2.1 %            | Normal                   | 1       | 1       | 1        | ±2.1 %             | ±2.1 %             | 10       |
| 18                                                                                                   | Power scaling                                      | ±0 %              | Rectangular              | √3      | 1       | 1        | ±0 %               | ±0 %               | ∞        |
| 19                                                                                                   | Drift of output power (measured, <0.2dB)           | ±5.0 %            | Rectangular              | √3      | 1       | 1        | ±2.9 %             | ±2.9 %             | ∞        |
| C                                                                                                    | Phantom and Setup                                  |                   |                          |         |         |          |                    |                    |          |
| 20                                                                                                   | Phantom uncertainty (shape, thickness tolerances)  | ±7.5 %            | Rectangular              | √3      | 1       | 1        | ±4.3 %             | ±4.3 %             | ∞        |
| 21                                                                                                   | Algorithm for correcting SAR (ε',σ: 10%)           | ±1.9 %            | Normal                   | 1       | 1       | 0.84     | ±1.9 %             | ±1.6 %             | ∞        |
| 22                                                                                                   | Measurement Liquid Conductivity Error (DAK3.5)     | ±3.0 %            | Normal                   | 1       | 0.78    | 0.71     | ±2.3 %             | ±2.1 %             | 7        |
| 23                                                                                                   | Measurement Liquid Permittivity Error (DAK3.5)     | ±3.1 %            | Normal                   | 1       | 0.23    | 0.26     | ±0.7 %             | ±0.8 %             | 7        |
| 24                                                                                                   | Liquid Conductivity-temp.uncertainty (≤2deg.C.v6h) | ±3.0 %            | Rectangular              | √3      | 0.78    | 0.71     | ±1.4 %             | ±1.2 %             | ∞        |
| 25                                                                                                   | Liquid Permittivity-temp.uncertainty (≤2deg.C.v6h) | ±1.0 %            | Rectangular              | √3      | 0.23    | 0.26     | ±0.1 %             | ±0.2 %             | ∞        |
| Combined Standard Uncertainty (v09r02)                                                               |                                                    |                   |                          |         |         |          | ± 13.2 %           | ± 13.1 %           | 945      |
| Expanded Uncertainty (k=2) (v09r02)                                                                  |                                                    |                   |                          |         |         |          | ± 26.4 %           | ± 26.2 %           |          |

\*. This measurement uncertainty budget is suggested by IEEE Std.1528(2013) and determined by Schmid & Partner Engineering AG (DASY5 Uncertainty Budget). Per KDB 865664 D01 (v01r04) SAR Measurement 100 MHz to 6 GHz, Section 2.8.1., when the highest measured SAR(1g) within a frequency band is < 1.5W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std.1528 (2013) is not required in SAR reports submitted for equipment approval.

| Uncertainty of daily check (2.4~6GHz) (*,v6h,ε&σ tolerance: 10%, DAK3.5, CW) (v09r02) |                                                    |                   |                          |         |         |          | 1g SAR            | 10g SAR           |          |
|---------------------------------------------------------------------------------------|----------------------------------------------------|-------------------|--------------------------|---------|---------|----------|-------------------|-------------------|----------|
| Combined measurement uncertainty of the measurement system (k=1)                      |                                                    |                   |                          |         |         |          | ± 10.8 %          | ± 10.7 %          |          |
| Expanded uncertainty (k=2)                                                            |                                                    |                   |                          |         |         |          | ± 21.6 %          | ± 21.4 %          |          |
| Error Description (2.4-6GHz)                                                          |                                                    | Uncertainty Value | Probability distribution | Divisor | ci (1g) | ci (10g) | ui (1g)           | ui (10g)          | Vi, veff |
| A                                                                                     | Measurement System (DASY5)                         |                   |                          |         |         |          | (std.uncertainty) | (std.uncertainty) |          |
| 1                                                                                     | Probe Calibration Error                            | ±7.0 %            | Normal                   | 1       | 1       | 1        | ±7.0 %            | ±7.0 %            | ∞        |
| 2                                                                                     | Axial isotropy error                               | ±4.7 %            | Rectangular              | √3      | 0.71    | 0.71     | ±1.9 %            | ±1.9 %            | ∞        |
| 3                                                                                     | Hemispherical isotropy error                       | ±9.6 %            | Rectangular              | √3      | 0       | 0        | 0 %               | 0 %               | ∞        |
| 4                                                                                     | Probe linearity                                    | ±4.7 %            | Rectangular              | √3      | 1       | 1        | ±2.7 %            | ±2.7 %            | ∞        |
| 5                                                                                     | Probe modulation response (CW)                     | ±0.0 %            | Rectangular              | √3      | 1       | 1        | 0 %               | 0 %               | ∞        |
| 6                                                                                     | System detection limit                             | ±1.0 %            | Rectangular              | √3      | 1       | 1        | ±0.6 %            | ±0.6 %            | ∞        |
| 7                                                                                     | Boundary effects                                   | ±4.3 %            | Rectangular              | √3      | 1       | 1        | ±2.5 %            | ±2.5 %            | ∞        |
| 8                                                                                     | System readout electronics (DAE)                   | ±0.3 %            | Normal                   | 1       | 1       | 1        | ±0.3 %            | ±0.3 %            | ∞        |
| 9                                                                                     | Response Time Error (<5ms/100ms wait)              | ±0.0 %            | Rectangular              | √3      | 1       | 1        | 0 %               | 0 %               | ∞        |
| 10                                                                                    | Integration Time Error (CW)                        | ±0.0 %            | Rectangular              | √3      | 1       | 1        | 0 %               | 0 %               | ∞        |
| 11                                                                                    | RF ambient conditions-noise                        | ±3.0 %            | Rectangular              | √3      | 1       | 1        | ±1.7 %            | ±1.7 %            | ∞        |
| 12                                                                                    | RF ambient conditions-reflections                  | ±3.0 %            | Rectangular              | √3      | 1       | 1        | ±1.7 %            | ±1.7 %            | ∞        |
| 13                                                                                    | Probe positioner mechanical tolerance              | ±3.3 %            | Rectangular              | √3      | 1       | 1        | ±1.9 %            | ±1.9 %            | ∞        |
| 14                                                                                    | Probe positioning with respect to phantom shell    | ±6.7 %            | Rectangular              | √3      | 1       | 1        | ±3.9 %            | ±3.9 %            | ∞        |
| 15                                                                                    | Max. SAR evaluation (Post-processing)              | ±4.0 %            | Rectangular              | √3      | 1       | 1        | ±2.3 %            | ±2.3 %            | ∞        |
| B                                                                                     | Test Sample Related                                |                   |                          |         |         |          |                   |                   |          |
| 16                                                                                    | Deviation of the experimental source               | ±1.9 %            | Normal                   | 1       | 1       | 1        | ±1.9 %            | ±1.9 %            | ∞        |
| 17                                                                                    | Dipole to liquid distance (10mm±0.2mm,<2deg.)      | ±2.0 %            | Rectangular              | √3      | 1       | 1        | ±1.2 %            | ±1.2 %            | ∞        |
| 18                                                                                    | Drift of output power (measured, <0.1dB)           | ±2.3 %            | Rectangular              | √3      | 1       | 1        | ±1.3 %            | ±1.3 %            | ∞        |
| C                                                                                     | Phantom and Setup                                  |                   |                          |         |         |          |                   |                   |          |
| 19                                                                                    | Phantom uncertainty                                | ±2.0 %            | Rectangular              | √3      | 1       | 1        | ±1.2 %            | ±1.2%             | ∞        |
| 20                                                                                    | Algorithm for correcting SAR (e',σ: 10%)           | ±1.9 %            | Normal                   | 1       | 1       | 0.84     | ±1.9 %            | ±1.6 %            | ∞        |
| 21                                                                                    | Liquid conductivity (meas.)(DAK3.5)                | ±3.0 %            | Normal                   | 1       | 0.78    | 0.71     | ±2.3 %            | ±2.1 %            | ∞        |
| 22                                                                                    | Liquid permittivity (meas.)(DAK3.5)                | ±3.1 %            | Normal                   | 1       | 0.23    | 0.26     | ±0.7 %            | ±0.8 %            | ∞        |
| 23                                                                                    | Liquid Conductivity-temp.uncertainty (≤2deg.C.v6h) | ±3.0 %            | Rectangular              | √3      | 0.78    | 0.71     | ±1.4 %            | ±1.2 %            | ∞        |
| 24                                                                                    | Liquid Permittivity-temp.uncertainty (≤2deg.C.v6h) | ±1.0 %            | Rectangular              | √3      | 0.23    | 0.26     | ±0.1 %            | ±0.2 %            | ∞        |
| Combined Standard Uncertainty (v09r02)                                                |                                                    |                   |                          |         |         |          | ±10.8 %           | ±10.7 %           |          |
| Expanded Uncertainty (k=2) (v09r02)                                                   |                                                    |                   |                          |         |         |          | ±21.6 %           | ±21.4 %           |          |

\*. This measurement uncertainty budget is suggested by IEEE Std. 1528(2013) and determined by Schmid & Partner Engineering AG (DASY5 Uncertainty Budget).

\*. Table of uncertainties are listed for ISO/IEC 17025.

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