

ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST)

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RF EXPOSURE REPORT

Applicant Name:

Apple, Inc.
One Apple Park Way
Cupertino, CA 95014 USA

Date of Testing:

06/05/2025 – 08/01/2025

Test Report Issue Date:

08/22/2025

Test Site/Location:

Element, Morgan Hill, CA, USA

Document Serial No.:

1C2503270029-28.BCG-R1

FCC ID:

BCG-A3281

APPLICANT:

APPLE, INC.

DUT Type:

Watch

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model:

A3281, A3282

Experiment	Band & Mode	Tx Frequency	Gain	70 dB Emission
PCV	1.1E Band 1	693.5 - 693.5 MHz	<-7	0.88
PCV	1.1E Band 2	700.5 - 700.5 MHz	<-7	0.88
PCV	1.1E Band 17	707.5 - 713.5 MHz	<-7	0.88
PCV	1.1E Band 18	714.5 - 720.5 MHz	<-7	0.88
PCV	1.1E Band 19	721.5 - 727.5 MHz	<-7	0.88
PCV	1.1E Band 20	728.5 - 734.5 MHz	<-7	0.88
PCV	1.1E Band 21	735.5 - 741.5 MHz	<-7	0.88
PCV	1.1E Band 22	742.5 - 748.5 MHz	<-7	0.88
PCV	1.1E Band 23	749.5 - 755.5 MHz	<-7	0.88
PCV	1.1E Band 24	756.5 - 762.5 MHz	<-7	0.88
PCV	1.1E Band 25	763.5 - 769.5 MHz	<-7	0.88
PCV	1.1E Band 26	770.5 - 776.5 MHz	<-7	0.88
PCV	1.1E Band 27	777.5 - 783.5 MHz	<-7	0.88
PCV	1.1E Band 28	784.5 - 790.5 MHz	<-7	0.88
PCV	1.1E Band 29	791.5 - 797.5 MHz	<-7	0.88
PCV	1.1E Band 30	798.5 - 804.5 MHz	<-7	0.88
PCV	1.1E Band 31	805.5 - 811.5 MHz	<-7	0.88
PCV	1.1E Band 32	812.5 - 818.5 MHz	<-7	0.88
PCV	1.1E Band 33	819.5 - 825.5 MHz	<-7	0.88
PCV	1.1E Band 34	826.5 - 832.5 MHz	<-7	0.88
PCV	1.1E Band 35	833.5 - 839.5 MHz	<-7	0.88
PCV	1.1E Band 36	840.5 - 846.5 MHz	<-7	0.88
PCV	1.1E Band 37	847.5 - 853.5 MHz	<-7	0.88
PCV	1.1E Band 38	854.5 - 860.5 MHz	<-7	0.88
PCV	1.1E Band 39	861.5 - 867.5 MHz	<-7	0.88
PCV	1.1E Band 40	868.5 - 874.5 MHz	<-7	0.88
PCV	1.1E Band 41	875.5 - 881.5 MHz	<-7	0.88
PCV	1.1E Band 42	882.5 - 888.5 MHz	<-7	0.88
PCV	1.1E Band 43	889.5 - 895.5 MHz	<-7	0.88
PCV	1.1E Band 44	896.5 - 902.5 MHz	<-7	0.88
PCV	1.1E Band 45	903.5 - 909.5 MHz	<-7	0.88
PCV	1.1E Band 46	910.5 - 916.5 MHz	<-7	0.88
PCV	1.1E Band 47	917.5 - 923.5 MHz	<-7	0.88
PCV	1.1E Band 48	924.5 - 930.5 MHz	<-7	0.88
PCV	1.1E Band 49	931.5 - 937.5 MHz	<-7	0.88
PCV	1.1E Band 50	938.5 - 944.5 MHz	<-7	0.88
PCV	1.1E Band 51	945.5 - 951.5 MHz	<-7	0.88
PCV	1.1E Band 52	952.5 - 958.5 MHz	<-7	0.88
PCV	1.1E Band 53	959.5 - 965.5 MHz	<-7	0.88
PCV	1.1E Band 54	966.5 - 972.5 MHz	<-7	0.88
PCV	1.1E Band 55	973.5 - 979.5 MHz	<-7	0.88
PCV	1.1E Band 56	980.5 - 986.5 MHz	<-7	0.88
PCV	1.1E Band 57	987.5 - 993.5 MHz	<-7	0.88
PCV	1.1E Band 58	994.5 - 1000.5 MHz	<-7	0.88
PCV	1.1E Band 59	1001.5 - 1007.5 MHz	<-7	0.88
PCV	1.1E Band 60	1008.5 - 1014.5 MHz	<-7	0.88
PCV	1.1E Band 61	1015.5 - 1021.5 MHz	<-7	0.88
PCV	1.1E Band 62	1022.5 - 1028.5 MHz	<-7	0.88
PCV	1.1E Band 63	1029.5 - 1035.5 MHz	<-7	0.88
PCV	1.1E Band 64	1036.5 - 1042.5 MHz	<-7	0.88
PCV	1.1E Band 65	1043.5 - 1049.5 MHz	<-7	0.88
PCV	1.1E Band 66	1050.5 - 1056.5 MHz	<-7	0.88
PCV	1.1E Band 67	1057.5 - 1063.5 MHz	<-7	0.88
PCV	1.1E Band 68	1064.5 - 1070.5 MHz	<-7	0.88
PCV	1.1E Band 69	1071.5 - 1077.5 MHz	<-7	0.88
PCV	1.1E Band 70	1078.5 - 1084.5 MHz	<-7	0.88
PCV	1.1E Band 71	1085.5 - 1091.5 MHz	<-7	0.88
PCV	1.1E Band 72	1092.5 - 1098.5 MHz	<-7	0.88
PCV	1.1E Band 73	1099.5 - 1105.5 MHz	<-7	0.88
PCV	1.1E Band 74	1106.5 - 1112.5 MHz	<-7	0.88
PCV	1.1E Band 75	1113.5 - 1119.5 MHz	<-7	0.88
PCV	1.1E Band 76	1120.5 - 1126.5 MHz	<-7	0.88
PCV	1.1E Band 77	1127.5 - 1133.5 MHz	<-7	0.88
PCV	1.1E Band 78	1134.5 - 1140.5 MHz	<-7	0.88
PCV	1.1E Band 79	1141.5 - 1147.5 MHz	<-7	0.88
PCV	1.1E Band 80	1148.5 - 1154.5 MHz	<-7	0.88
PCV	1.1E Band 81	1155.5 - 1161.5 MHz	<-7	0.88
PCV	1.1E Band 82	1162.5 - 1168.5 MHz	<-7	0.88
PCV	1.1E Band 83	1169.5 - 1175.5 MHz	<-7	0.88
PCV	1.1E Band 84	1176.5 - 1182.5 MHz	<-7	0.88
PCV	1.1E Band 85	1183.5 - 1189.5 MHz	<-7	0.88
PCV	1.1E Band 86	1190.5 - 1196.5 MHz	<-7	0.88
PCV	1.1E Band 87	1197.5 - 1203.5 MHz	<-7	0.88
PCV	1.1E Band 88	1204.5 - 1210.5 MHz	<-7	0.88
PCV	1.1E Band 89	1211.5 - 1217.5 MHz	<-7	0.88
PCV	1.1E Band 90	1218.5 - 1224.5 MHz	<-7	0.88
PCV	1.1E Band 91	1225.5 - 1231.5 MHz	<-7	0.88
PCV	1.1E Band 92	1232.5 - 1238.5 MHz	<-7	0.88
PCV	1.1E Band 93	1239.5 - 1245.5 MHz	<-7	0.88
PCV	1.1E Band 94	1246.5 - 1252.5 MHz	<-7	0.88
PCV	1.1E Band 95	1253.5 - 1259.5 MHz	<-7	0.88
PCV	1.1E Band 96	1260.5 - 1266.5 MHz	<-7	0.88
PCV	1.1E Band 97	1267.5 - 1273.5 MHz	<-7	0.88
PCV	1.1E Band 98	1274.5 - 1280.5 MHz	<-7	0.88
PCV	1.1E Band 99	1281.5 - 1287.5 MHz	<-7	0.88
PCV	1.1E Band 100	1288.5 - 1294.5 MHz	<-7	0.88
PCV	1.1E Band 101	1295.5 - 1301.5 MHz	<-7	0.88
PCV	1.1E Band 102	1302.5 - 1308.5 MHz	<-7	0.88
PCV	1.1E Band 103	1309.5 - 1315.5 MHz	<-7	0.88
PCV	1.1E Band 104	1316.5 - 1322.5 MHz	<-7	0.88
PCV	1.1E Band 105	1323.5 - 1329.5 MHz	<-7	0.88
PCV	1.1E Band 106	1330.5 - 1336.5 MHz	<-7	0.88
PCV	1.1E Band 107	1337.5 - 1343.5 MHz	<-7	0.88
PCV	1.1E Band 108	1344.5 - 1350.5 MHz	<-7	0.88
PCV	1.1E Band 109	1351.5 - 1357.5 MHz	<-7	0.88
PCV	1.1E Band 110	1358.5 - 1364.5 MHz	<-7	0.88
PCV	1.1E Band 111	1365.5 - 1371.5 MHz	<-7	0.88
PCV	1.1E Band 112	1372.5 - 1378.5 MHz	<-7	0.88
PCV	1.1E Band 113	1379.5 - 1385.5 MHz	<-7	0.88
PCV	1.1E Band 114	1386.5 - 1392.5 MHz	<-7	0.88
PCV	1.1E Band 115	1393.5 - 1399.5 MHz	<-7	0.88
PCV	1.1E Band 116	1400.5 - 1406.5 MHz	<-7	0.88
PCV	1.1E Band 117	1407.5 - 1413.5 MHz	<-7	0.88
PCV	1.1E Band 118	1414.5 - 1420.5 MHz	<-7	0.88
PCV	1.1E Band 119	1421.5 - 1427.5 MHz	<-7	0.88
PCV	1.1E Band 120	1428.5 - 1434.5 MHz	<-7	0.88
PCV	1.1E Band 121	1435.5 - 1441.5 MHz	<-7	0.88
PCV	1.1E Band 122	1442.5 - 1448.5 MHz	<-7	0.88
PCV	1.1E Band 123	1449.5 - 1455.5 MHz	<-7	0.88
PCV	1.1E Band 124	1456.5 - 1462.5 MHz	<-7	0.88
PCV	1.1E Band 125	1463.5 - 1469.5 MHz	<-7	0.88
PCV	1.1E Band 126	1470.5 - 1476.5 MHz	<-7	0.88
PCV	1.1E Band 127	1477.5 - 1483.5 MHz	<-7	0.88
PCV	1.1E Band 128	1484.5 - 1490.5 MHz	<-7	0.88
PCV	1.1E Band 129	1491.5 - 1497.5 MHz	<-7	0.88
PCV	1.1E Band 130	1498.5 - 1504.5 MHz	<-7	0.88
PCV	1.1E Band 131	1505.5 - 1511.5 MHz	<-7	0.88
PCV	1.1E Band 132	1512.5 - 1518.5 MHz	<-7	0.88
PCV	1.1E Band 133	1519.5 - 1525.5 MHz	<-7	0.88
PCV	1.1E Band 134	1526.5 - 1532.5 MHz	<-7	0.88
PCV	1.1E Band 135	1533.5 - 1539.5 MHz	<-7	0.88
PCV	1.1E Band 136	1540.5 - 1546.5 MHz	<-7	0.88
PCV	1.1E Band 137	1547.5 - 1553.5 MHz	<-7	0.88
PCV	1.1E Band 138	1554.5 - 1560.5 MHz	<-7	0.88
PCV	1.1E Band 139	1561.5 - 1567.5 MHz	<-7	0.88
PCV	1.1E Band 140	1568.5 - 1574.5 MHz	<-7	0.88
PCV	1.1E Band 141	1575.5 - 1581.5 MHz	<-7	0.88
PCV	1.1E Band 142	1582.5 - 1588.5 MHz	<-7	0.88
PCV	1.1E Band 143	1589.5 - 1595.5 MHz	<-7	0.88
PCV	1.1E Band 144	1596.5 - 1602.5 MHz	<-7	0.88
PCV	1.1E Band 145	1603.5 - 1609.5 MHz	<-7	0.88
PCV	1.1E Band 146	1610.5 - 1616.5 MHz	<-7	0.88
PCV	1.1E Band 147	1617.5 - 1623.5 MHz	<-7	0.88
PCV	1.1E Band 148	1624.5 - 1630.5 MHz	<-7	0.88
PCV	1.1E Band 149	1631.5 - 1637.5 MHz	<-7	0.88
PCV	1.1E Band 150	1638.5 - 1644.5 MHz	<-7	0.88
PCV	1.1E Band 151	1645.5 - 1651.5 MHz	<-7	0.88
PCV	1.1E Band 152	1652.5 - 1658.5 MHz	<-7	0.88
PCV	1.1E Band 153	1659.5 - 1665.5 MHz	<-7	0.88
PCV	1.1E Band 154	1666.5 - 1672.5 MHz	<-7	0.88
PCV	1.1E Band 155	1673.5 - 1679.5 MHz	<-7	0.88
PCV	1.1E Band 156	1680.5 - 1686.5 MHz	<-7	0.88
PCV	1.1E Band 157	1687.5 - 1693.5 MHz	<-7	0.88
PCV	1.1E Band 158	1694.5 - 1700.5 MHz	<-7	0.88
PCV	1.1E Band 159	1701.5 - 1707.5 MHz	<-7	0.88
PCV	1.1E Band 160	1708.5 - 1714.5 MHz	<-7	0.88
PCV	1.1E Band 161	1715.5 - 1721.5 MHz	<-7	0.88
PCV	1.1E Band 162	1722.5 - 1728.5 MHz	<-7	0.88
PCV	1.1E Band 163	1729.5 - 1735.5 MHz	<-7	0.88
PCV	1.1E Band 164	1736.5 - 1742.5 MHz	<-7	0.88
PCV	1.1E Band 165	1743.5 - 1749.5 MHz	<-7	0.88
PCV	1.1E Band 166	1750.5 - 1756.5 MHz	<-7	0.88
PCV	1.1E Band 167	1757.5 - 1763.5 MHz	<-7	0.88
PCV	1.1E Band 168	1764.5 - 1770.5 MHz	<-7	0.88
PCV	1.1E Band 169	1771.5 - 1777.5 MHz	<-7	0.88
PCV	1.1E Band 170	1778.5 - 1784.5 MHz	<-7	0.88
PCV	1.1E Band 171	1785.5 - 1791.5 MHz	<-7	0.88
PCV	1.1E Band 172	1792.5 - 1798.5 MHz	<-7	0.88
PCV	1.1E Band 173	1799.5 - 1805.5 MHz	<-7	0.88
PCV	1.1E Band 174	1806.5 - 1812.5 MHz	<-7	0.88
PCV	1.1E Band 175	1813.5 - 1819.5 MHz	<-7	0.88
PCV	1.1E Band 176	1820.5 - 1826.5 MHz	<-7	0.88
PCV	1.1E Band 177	1827.5 - 1833.5 MHz	<-7	0.88
PCV	1.1E Band 178	1834.5 - 1840.5 MHz	<-7	0.88
PCV	1.1E Band 179	1841.5 - 1847.5 MHz	<-7	0.88
PCV	1.1E Band 180	1848.5 - 1854.5 MHz	<-7	0.88
PCV	1.1E Band 181	1855.5 - 1861.5 MHz	<-7	0.88
PCV	1.1E Band 182	1862.5 - 1868.5 MHz	<-7	0.88
PCV	1.1E Band 183	1869.5 - 1875.5 MHz	<-7	0.88
PCV	1.1E Band 184	1876.5 - 1882.5 MHz	<-7	0.88
PCV	1.1E Band 185	1883.5 - 1889.5 MHz	<-7	0.88
PCV	1.1E Band 186	1890.5 - 1896.5 MHz	<-7	0.88
PCV	1.1E Band 187	1897.5 - 1903.5 MHz	<-7	0.88
PCV	1.1E Band 188	1904.5 - 1910.5 MHz	<-7	0.88
PCV	1.1E Band 189	1911.5 - 1917.5 MHz	<-7	0.88
PCV	1.1E Band 190	1918.5 - 1924.5 MHz	<-7	0.88
PCV	1.1E Band 191	1925.5 - 1931.5 MHz	<-7	0.88
PCV	1.1E Band 192	1932.5 - 1938.5 MHz	<-7	0.88
PCV	1.1E Band 193	1939.5 - 1945.5 MHz	<-7	0.88
PCV	1.1E Band 194	1946.5 - 1952.5 MHz	<-7	0.88
PCV	1.1E Band 195	1953.5 - 1959.5 MHz	<-7	0.88
PCV	1.1E Band 196	1960.5 - 1966.5 MHz	<-7	0.88
PCV	1.1E Band 197	1967.5 - 1973.5 MHz	<-7	0.88
PCV	1.1E Band 198	1974.5 - 1980.5 MHz	<-7	0.88
PCV	1.1E Band 199	1981.5 - 1987.5 MHz	<-7	0.88
PCV	1.1E Band 200	1988.5 - 1994.5 MHz	<-7	0.88
PCV	1.1E Band 201	1995.5 - 2001.5 MHz	<-7	0.88
PCV	1.1E Band 202	2002.5 - 2008.5 MHz	<-7	0.88
PCV	1.1E Band 203	2009.5 - 2015.5 MHz	<-7	0.88
PCV	1.1E Band 204	2016.5 - 2022.5 MHz	<-7	0.88
PCV	1.1E Band 205	2023.5 - 2029.5 MHz	<-7	0.88
PCV	1.1E Band 206	2030.5 - 2036.5 MHz	<-7	0.88
PCV	1.1E Band 207	2037.5 - 2043.5 MHz	<-7	0.88
PCV	1.1E Band 208	2044.5 - 2050.5 MHz	<-7	0.88
PCV	1.1E Band 209	2051.5 - 2057.5 MHz	<-7	0.88
PCV	1.1E Band 210	2058.5 - 2064.5 MHz	<-7	0.88
PCV	1.1E Band 211	2065.5 - 2071.5 MHz	<-7	0.88
PCV	1.1E Band 212	2072.5 - 2078.5 MHz	<-7	0.88
PCV	1.1E Band 213	2079.5 - 2085.5 MHz	<-7	0.88
PCV	1.1E Band 214	2086.5 - 2092.5 MHz	<-7	0.88
PCV	1.1E Band 215	2093.5 - 2099.5 MHz	<-7	0.88
PCV	1.1E Band 216	2100.5 - 2106.5 MHz	<-7	

Note: This revised Test Report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

This watch has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.9 of this report; for North American frequency bands only.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.

[Signature]

RJ Ortanez
Executive Vice President



The SAR Tick is an initiative of the Mobile & Wireless Forum (MWF). While a product may be considered eligible, use of the SAR Tick logo requires an agreement with the MWF. Further details can be obtained by emailing: sartick@mwfai.info.

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DUT Type: Watch		Page 1 of 75

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 17	Voice/Data	706.5 - 713.5 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Voice/Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 53	Voice/Data	2488.5 - 2490 MHz
NR Band n71	Voice/Data	665.5 - 695.5 MHz
NR Band n12	Voice/Data	701.5 - 713.5 MHz
NR Band n14	Voice/Data	790.5 - 795.5 MHz
NR Band n26 (Cell)	Voice/Data	816.5 - 846.5 MHz
NR Band n5 (Cell)	Voice/Data	826.5 - 846.5 MHz
NR Band n66 (AWS)	Voice/Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Voice/Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Voice/Data	1852.5 - 1907.5 MHz
NR Band n7	Voice/Data	2502.5 - 2567.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685.0 MHz
NR Band n53	Voice/Data	2488.5 - 2490MHz
NTN Band 254	Data	1610.2 - 1626 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz
802.15.4 ab-NB	Data	5728.75 - 5846.25 MHz
NFC	Data	13.56 MHz
UWB	Data	6489.6 - 7987.2 MHz

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

This Device is enabled with MediaTek TAS algorithm feature for WWAN modes technologies. These features perform time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to the technical description document for detailed description of MediaTek TAS algorithm feature.

Note that WLAN, Bluetooth, 802.15.4 ab-NB, UWB, NFC and NTN Band 254 operations are not enabled with TAS.

The TAS algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR design_target, below the predefined time-averaged power limit (i.e., Plimit for sub-6 radio), for each characterized technology and band. SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer.

TAS allows the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit. Below table shows Final Plimit settings and maximum tune up output power Pmax configured for this EUT for various transmit conditions (Exposure Condition Index ECI for MediaTek). Note that the device uncertainty for sub-6GHz WWAN is shown below:

Table 1-1

SAR_design_target Calculations						
Mode/Band	1g SAR [W/kg]			10g SAR [W/kg]		
	Smart Tx Uncertainty	SAR_design_target	SAR_regulatory_limit	Smart Tx Uncertainty	SAR_design_target	SAR_regulatory_limit
LTE FDD Band 7	2.00	0.75	1.6 W/kg	1.20	2.27	4 W/kg
LTE TDD Band 41	2.00	0.75		1.20	2.27	
NR FDD Band n7	2.00	0.75		1.20	2.27	
NR FDD Band n41	2.00	0.75		1.20	2.27	
All other modes/bands	1.20	0.91		1.20	2.27	

The maximum time-averaged output power (dBm) for any WWAN sub-6 technology, band, and ECI is the minimum of ("Plimit " and "Maximum tune up output power Pmax") + corresponding device uncertainty on the table above. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.

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Exposure Scenario:	Maximum Tune-up Output Power*	Head	Extremity
Averaging Volume:		1g	10g
Spacing:		10 mm	0 mm
ECI:		1	0
Technology/Band	Pmax		
LTE Band 71	24.50	50.10	31.50
LTE Band 12	24.50	46.20	30.30
LTE Band 17	24.50	N/A	N/A
LTE Band 13	24.50	48.90	30.90
LTE Band 14	24.50	50.10	30.50
LTE Band 26	24.50	54.20	32.60
LTE Band 5	24.50	52.10	32.80
LTE Band 4	24.00	N/A	N/A
LTE Band 66	24.00	28.90	37.00
LTE Band 2	24.00	N/A	N/A
LTE Band 25	24.00	27.90	35.30
LTE Band 7	24.00	18.40	36.50
LTE Band 41	22.00	19.20	36.40
LTE Band 53	20.00	41.90	29.00
NR Band n71	24.50	47.90	31.30
NR Band n12	24.50	48.30	30.10
NR Band n14	24.50	46.30	30.20
NR Band n26	24.50	50.70	32.10
NR Band n5	24.50	53.80	32.10
NR Band n66	24.00	29.30	37.70
NR Band n2	24.00	N/A	N/A
NR Band n25	24.00	26.90	38.30
NR Band n7	24.00	18.40	37.40
NR Band n41	24.00	18.60	37.90
NR Band n53	20.00	40.50	26.30

This device supports a different Exposure Condition Index (ECI) to configure different time-averaged power levels based on certain exposure conditions. When the speaker is active, ECI = 1 represents the case where the device will be near the mouth of the user (in-front-of the face). ECI=0 represents the case when the speaker is inactive, and the device operates in close proximity to the user's body.

Plimit is calculated by linearly scaling with the measured SAR at the Part0/Part 1 to correspond to the SAR_design_target. When Plimit < Pmax, Part 1 SAR was used as Plimit in the TAS. When Plimit > Pmax and Part0/Part 1=Pmax, calculated Plimit was used in the TAS. All reported SAR obtained from the Part0/Part 1 SAR tests was less than SAR_Design_target + corresponding device uncertainty. The SAR measured in Part 0 at a fixed power level was also used for Part 1 report. The final Plimit determination for each exposure scenario corresponding to SAR_design_target are shown in the table above.

All Plimit and maximum tune up output power Pmax levels entered in the above table correspond to average power levels after accounting for duty cycle in the case of LTE TDD modulation schemes.

When Pmax < Plimit, the DUT will operate at a power level up to Pmax

The SAR design limit is determined by accounting for device uncertainty, and the Psub6 limit is defined as the time-averaged power corresponding to the SAR design limit.

Maximum tune up output power Pmax is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1.20 dB device design uncertainty.

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1.3 Power Reduction for SAR

This device uses an independent fixed level power reduction mechanism for LTE Band 7, NR Band n7, LTE Band 41 and NR Band n41 during next to mouth scenarios. When the speaker is on, the output power of LTE Band 7, NR Band n7, LTE Band 41 and NR Band n41 is reduced.

This device also utilizes a power reduction mechanism for Bluetooth operations. When Bluetooth is operating simultaneously with the cellular antenna, the output power is permanently reduced. SAR evaluations were additionally performed at the maximum allowed output power for these scenarios to evaluate simultaneous transmission compliance.

This device additionally uses an independent duty cycle reduction mechanism for WLAN operations while licensed band operations are active. When the cellular antenna is transmitting, the duty cycle of WLAN operation reduces to a maximum of 30%.

Detailed descriptions of the power reduction mechanism are included in the operational description. The power reduction mechanisms were confirmed during SAR evaluation.

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1.4 Nominal and Maximum Output Power Specifications

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D04v01.

1.4.1 Maximum Output Power – LTE Mode

Mode / Band		Modulated Average Output Power (in dBm)
LTE FDD Band 71	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 12	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 17	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 13	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 14	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 26	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 5	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 4	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 66	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 2	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 25	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 7	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 7 Reduced*	Max allowed power	20.40
	Nominal	18.40
LTE TDD Band 41	Max allowed power	25.20
	Nominal	24.00
LTE TDD Band 41 Reduced*	Max allowed power	23.20
	Nominal	21.20
LTE Band 53	Max allowed power	21.20
	Nominal	20.00

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1.4.2 Maximum Output Power – NR Mode

Mode / Band		Modulated Average Output Power (in dBm)
NR FDD Band n71	Max allowed power	25.70
	Nominal	24.50
NR FDD Band n12	Max allowed power	25.70
	Nominal	24.50
NR FDD Band n14	Max allowed power	25.70
	Nominal	24.50
NR FDD Band n26	Max allowed power	25.70
	Nominal	24.50
NR FDD Band n5	Max allowed power	25.70
	Nominal	24.50
NR FDD Band n66	Max allowed power	25.20
	Nominal	24.00
NR FDD Band n2	Max allowed power	25.20
	Nominal	24.00
NR FDD Band n25	Max allowed power	25.20
	Nominal	24.00
NR FDD Band n7	Max allowed power	25.20
	Nominal	24.00
NR FDD Band n7 Reduced*	Max allowed power	20.40
	Nominal	18.40
NR TDD Band n41	Max allowed power	25.20
	Nominal	24.00
NR TDD Band n41 Reduced*	Max allowed power	20.60
	Nominal	18.60
NR FDD Band n53	Max allowed power	21.20
	Nominal	20.00

1.4.3 Maximum Output Power – NTN Mode

Mode / Band		Modulated Average Output Power (in dBm)
NTN Band 254	Max allowed power	27.20
	Nominal	26.00

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1.4.4

Maximum Output Power – WiFi Mode

Mode/ Band		Channel	IEEE 802.11b (2.4 GHz)		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm)	20 MHz Bandwidth	1	19.00	18.00	14.50	13.50	14.50	13.50
		2	19.00	18.00	18.00	17.00	18.00	17.00
		3	19.00	18.00	18.50	17.50	18.50	17.50
		4	19.00	18.00	18.50	17.50	18.50	17.50
		5	19.00	18.00	18.50	17.50	18.50	17.50
		6	19.00	18.00	18.50	17.50	18.50	17.50
		7	19.00	18.00	18.50	17.50	18.50	17.50
		8	19.00	18.00	18.50	17.50	18.50	17.50
		9	19.00	18.00	17.50	16.50	17.50	16.50
		10	19.00	18.00	17.00	16.00	17.00	16.00
		11	19.00	18.00	13.00	12.00	13.00	12.00
		12	18.00	17.00	12.50	11.50	12.50	11.50
		13	12.50	11.50	N/S	N/S	N/S	N/S

Mode/ Band		Channel	IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)	
			Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm)	20 MHz Bandwidth	36	17.00	16.00	17.00	16.00
		40	17.00	16.00	17.00	16.00
		44	17.00	16.00	17.00	16.00
		48	17.00	16.00	17.00	16.00
		52	17.00	16.00	17.00	16.00
		56	17.00	16.00	17.00	16.00
		60	17.00	16.00	17.00	16.00
		64	17.00	16.00	17.00	16.00
		100	17.00	16.00	17.00	16.00
		104	17.00	16.00	17.00	16.00
		108	17.00	16.00	17.00	16.00
		112	17.00	16.00	17.00	16.00
		116	17.00	16.00	17.00	16.00
		120	17.00	16.00	17.00	16.00
		124	17.00	16.00	17.00	16.00
		128	17.00	16.00	17.00	16.00
		132	17.00	16.00	17.00	16.00
		136	17.00	16.00	17.00	16.00
		140	14.50	13.50	14.50	13.50
		144	17.00	16.00	17.00	16.00
		149	17.00	16.00	17.00	16.00
		153	17.00	16.00	17.00	16.00
		157	17.00	16.00	17.00	16.00
		161	17.00	16.00	17.00	16.00
		165	17.00	16.00	17.00	16.00

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1.4.5 Maximum Output Power – Bluetooth Mode

Mode / Band		Modulated Average - Single Tx Chain (dBm)
Bluetooth BDR/LE	Maximum	17.50
	Nominal	16.50
Bluetooth EDR	Maximum	12.50
	Nominal	11.50
Bluetooth HDR	Maximum	12.50
	Nominal	11.50

1.4.6 Maximum Output Power – 802.15.4 ab-NB

Mode / Band		Modulated Average - Single Tx Chain (dBm)
802.15.4 ab-NB	Maximum	16.00
	Nominal	14.00

1.4.7 Reduced Output Power – Bluetooth Mode

The reduced table below is applicable in the following scenarios:

- Simultaneous conditions with Cellular Bands

Mode / Band		Modulated Average - Single Tx Chain (dBm)
Bluetooth BDR/LE	Maximum	13.00
	Nominal	12.00
Bluetooth EDR	Maximum	12.50
	Nominal	11.50
Bluetooth HDR	Maximum	12.50
	Nominal	11.50

1.5 DUT Antenna Locations

A diagram showing the location of the device antennas can be found in the DUT Antenna Diagram & SAR Test Setup Photographs Appendix.

1.6 Near Field Communications (NFC) Antenna

This DUT has NFC operations. The NFC antenna is integrated into the device for this model. Therefore, all SAR tests were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the NFC antenna can be found in the DUT Antenna Diagram & SAR Test Setup Photographs Appendix.

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1.7 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D04v01, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D04v01 4.3.2 procedures.

Table 1-2
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Head	Extremity
1	Cellular + 2.4 GHz WI-FI + NFC*	Yes*	Yes
2	Cellular+ 5 GHz WI-FI + NFC*	Yes*	Yes
3	Cellular + 2.4 GHz Bluetooth + NFC*	Yes*	Yes
4	Cellular+ 802.15.4 ab-NB + NFC*	Yes*	Yes
5	Cellular + UWB + NFC*	Yes*	Yes
6	Cellular + 2.4 GHz WIFI + 802.15.4 ab-NB + NFC*	Yes*	Yes
7	Cellular + 2.4 GHz WIFI + UWB + NFC*	Yes*	Yes
8	Cellular + 2.4 GHz Bluetooth + 5 GHz WI-FI + NFC*	Yes*	Yes
9	Cellular + 2.4 GHz Bluetooth + 802.15.4 ab-NB + NFC*	Yes*	Yes
10	Cellular + 2.4 GHz Bluetooth + UWB + NFC*	Yes*	Yes
11	2.4 GHz WI-FI + 802.15.4 ab-NB + NFC*	Yes*	Yes
12	2.4 GHz WIFI + UWB + NFC*	Yes*	Yes
13	2.4 GHz Bluetooth + 5 GHz WI-FI + NFC*	Yes*	Yes
14	2.4 GHz Bluetooth + 802.15.4 ab-NB + NFC*	Yes*	Yes
15	2.4 GHz Bluetooth + UWB + NFC*	Yes*	Yes
16	NTN Band 254* + 2.4 GHz Bluetooth + NFC*	Yes*	Yes
17	NTN Band 254* + UWB + NFC*	Yes*	Yes
18	NTN Band 254* + 802.15.4 ab-NB + NFC*	Yes*	Yes

1. 2.4 GHz WLAN and 2.4 GHz Bluetooth cannot transmit simultaneously.
2. 2.4 GHz WLAN and 5 GHz WLAN cannot transmit simultaneously.
3. 802.15.4 ab-NB, 5 GHz WLAN and UWB cannot transmit simultaneously.
4. Licensed modes cannot transmit simultaneously.
5. This device supports VOLTE.
6. This device supports VOWIFI.
7. *NFC and NTN Band 254 were evaluated for extremity based on expected usage conditions.

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1.8 Miscellaneous SAR Test Considerations

In some cases, SAR evaluations at the maximum output power level were used as the most conservative evaluation for simultaneous transmission analysis.

(A) WIFI/BT/UWB

This device supports channel 1-13 for 2.4 GHz WLAN. However, due to the reduced output power for channels 12 and 13, channels 1, 6, and 11 were considered for SAR testing per KDB 248227 D01v02r02.

Since U-NII-1 and U-NII-2A bands have the same maximum output power and the highest reported SAR for U-NII-2A is less than 1.2 W/kg, SAR is not required for U-NII-1 band according to FCC KDB Publication 248227 D01v02r02.

Per October 2022 TCB Workshop, the 1 mW test exemption is allowed for 6-8.5 GHz UWB in multi-transmitter end products. No further evaluation for UWB is required.

(B) Licensed Transmitter(s)

LTE SAR for the higher modulations and lower bandwidths were not tested since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth; and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg for all configurations according to FCC KDB 941225 D05v02r05.

This device supports LTE/NR capabilities with overlapping transmission frequency ranges. When the supported frequency range of an LTE/NR Band falls completely within an LTE/NR band with a larger transmission frequency range, both LTE/NR bands have the same target power (or the band with the larger transmission frequency range has a higher target power), and both LTE/NR bands share the same transmission path and signal characteristics, SAR was only assessed for the band with the larger transmission frequency range.

This device is limited to 27 RB on the uplink for 16QAM modulation for LTE. Additional measurements were evaluated to support SAR test exclusion for 16 QAM as described in Section 7.2.4.

1.9 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r05 (3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (General SAR Guidance, Wrist-worn Device Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- IEEE 1528-2013
- November 2017, October 2018, April 2019, November 2019, October 2020 TCBC Workshop Notes
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- IEC 62479:2010

1.10 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 10.

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1.11 Device Housing Types and Wrist Band Types

This device has one housing type that was evaluated independently for SAR: Titanium. The device can also be used with different wristband accessories. The non-metallic wrist accessories, sport band and fabric band, were evaluated for all exposure conditions. The available metallic wrist accessory, metal loop band, was additionally evaluated.

1.12 Bibliography

Report Type	Report Serial Number
RF Exposure Part 0 Test Report	1C2503270029-27.BCG
RF Exposure Part 2 Test Report	1C2503270029-29.BCG
RF Exposure Compliance Summary Report	1C2503270029-30.BCG

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2 LTE AND NR INFORMATION

LTE Information					
Form Factor	Watch				
Frequency Range of each LTE transmission	LTE Band 71 (665.5 - 695.5 MHz)				
	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 17 (706.5 - 713.5 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 14 (790.5 - 795.5 MHz)				
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)				
	LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)				
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)				
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)				
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)				
	LTE Band 7 (2502.5 - 2567.5 MHz)				
	LTE Band 41 (2498.5 - 2687.5 MHz)				
	LTE Band 53 (2488.5 - 2490 MHz)				
	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
Channel Bandwidths	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 14: 5 MHz, 10 MHz				
	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 53: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 71: 5 MHz	665.5 (133147)		680.5 (133297)	695.5 (133447)	
LTE Band 71: 10 MHz	668 (133172)		680.5 (133297)	693 (133422)	
LTE Band 71: 15 MHz	670.5 (133197)		680.5 (133297)	690.5 (133397)	
LTE Band 71: 20 MHz	673 (133222)		680.5 (133297)	688 (133372)	
LTE Band 12: 1.4 MHz	699.7 (23017)		707.5 (23095)	715.3 (23173)	
LTE Band 12: 3 MHz	700.5 (23025)		707.5 (23095)	714.5 (23165)	
LTE Band 12: 5 MHz	701.5 (23035)		707.5 (23095)	713.5 (23155)	
LTE Band 12: 10 MHz	704 (23060)		707.5 (23095)	711 (23130)	
LTE Band 17: 5 MHz	706.5 (23755)		710 (23790)	713.5 (23825)	
LTE Band 17: 10 MHz	709 (23780)		710 (23790)	711 (23800)	
LTE Band 13: 5 MHz	779.5 (23205)		782 (23230)	784.5 (23255)	
LTE Band 13: 10 MHz	N/A		782 (23230)	N/A	
LTE Band 14: 5 MHz	790.5 (23305)		793 (23330)	795.5 (23355)	
LTE Band 14: 10 MHz	N/A		793 (23330)	N/A	
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)		831.5 (26865)	848.3 (27033)	
LTE Band 26 (Cell): 3 MHz	815.5 (26705)		831.5 (26865)	847.5 (27025)	
LTE Band 26 (Cell): 5 MHz	816.5 (26715)		831.5 (26865)	846.5 (27015)	
LTE Band 26 (Cell): 10 MHz	819 (26740)		831.5 (26865)	844 (26990)	
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)		836.5 (20525)	848.3 (20643)	
LTE Band 5 (Cell): 3 MHz	825.5 (20415)		836.5 (20525)	847.5 (20635)	
LTE Band 5 (Cell): 5 MHz	826.5 (20425)		836.5 (20525)	846.5 (20625)	
LTE Band 5 (Cell): 10 MHz	829 (20450)		836.5 (20525)	844 (20600)	
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)		1745 (132322)	1779.3 (132665)	
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)		1745 (132322)	1778.5 (132657)	
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)		1745 (132322)	1777.5 (132647)	
LTE Band 66 (AWS): 10 MHz	1715 (132022)		1745 (132322)	1775 (132622)	
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)		1745 (132322)	1772.5 (132597)	
LTE Band 66 (AWS): 20 MHz	1720 (132072)		1745 (132322)	1770 (132572)	
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)		1732.5 (20175)	1754.3 (20393)	
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)		1732.5 (20175)	1753.5 (20385)	
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)		1732.5 (20175)	1752.5 (20375)	
LTE Band 4 (AWS): 10 MHz	1715 (20000)		1732.5 (20175)	1750 (20350)	
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)		1732.5 (20175)	1747.5 (20325)	
LTE Band 4 (AWS): 20 MHz	1720 (20050)		1732.5 (20175)	1745 (20300)	
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)		1882.5 (26365)	1914.3 (26683)	
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)		1882.5 (26365)	1913.5 (26675)	
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)		1882.5 (26365)	1912.5 (26665)	
LTE Band 25 (PCS): 10 MHz	1855 (26090)		1882.5 (26365)	1910 (26640)	
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)		1882.5 (26365)	1907.5 (26615)	
LTE Band 25 (PCS): 20 MHz	1860 (26140)		1882.5 (26365)	1905 (26590)	
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)		1880 (18900)	1909.3 (19193)	
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)		1880 (18900)	1908.5 (19185)	
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)		1880 (18900)	1907.5 (19175)	
LTE Band 2 (PCS): 10 MHz	1855 (18650)		1880 (18900)	1905 (19150)	
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)		1880 (18900)	1902.5 (19125)	
LTE Band 2 (PCS): 20 MHz	1860 (18700)		1880 (18900)	1900 (19100)	
LTE Band 7: 5 MHz	2502.5 (20775)		2535 (21100)	2567.5 (21425)	
LTE Band 7: 10 MHz	2505 (20800)		2535 (21100)	2565 (21400)	
LTE Band 7: 15 MHz	2507.5 (20825)		2535 (21100)	2562.5 (21375)	
LTE Band 7: 20 MHz	2510 (20850)		2535 (21100)	2560 (21350)	
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 53: 1.4 MHz	2484.2 (60147)		2489.2 (60197)	2494.3 (60248)	
LTE Band 53: 3 MHz	2485 (60155)		2489.2 (60197)	2493.5 (60240)	
LTE Band 53: 5 MHz	2486 (60165)		2489.2 (60197)	2492.5 (60230)	
LTE Band 53: 10 MHz	2488.5 (60190)		2489.2 (60197)	2490 (60205)	
UE Category	1				
Modulations Supported in UL	QPSK, 16QAM				
LTE MPR Permanently Implemented per	YES				
A-MPR (Additional MPR) disabled for SAR	YES				
LTE Additional Information	This device does not support full CA features on 3GPP Release 17. All uplink communications are identical to the Release 17 Specifications. The following LTE Release 17 Features are not supported: Carrier Aggregation, Relay, HetNet, Enhanced MIMO, eICIC, WiFi Offloading, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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NR Information					
Form Factor	Watch				
Frequency Range of each NR transmission band	NR Band n71 (665.5 - 695.5 MHz)				
	NR Band n12 (701.5 - 713.5 MHz)				
	NR Band n14 (790.5 - 795.5 MHz)				
	NR Band n26 (Cell) (816.5 - 846.5 MHz)				
	NR Band n5 (Cell) (826.5 - 846.5 MHz)				
	NR Band n66 (AWS) (1712.5 - 1777.5 MHz)				
	NR Band n25 (PCS) (1852.5 - 1912.5 MHz)				
	NR Band n2 (PCS) (1852.5 - 1907.5 MHz)				
	NR Band n7 (2502.5 - 2567.5 MHz)				
	NR Band n41 (2501.01 - 2685 MHz)				
	NR Band n53 (2488.5 - 2490MHz)				
	NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Bandwidths	NR Band n12: 5 MHz, 10 MHz, 15 MHz				
	NR Band n14: 5 MHz, 10 MHz				
	NR Band n26 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n5 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n66 (AWS): 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n25 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n2 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n41: 10 MHz, 15 MHz, 20 MHz				
	NR Band n53: 10 MHz				
	NR Band n53: 10 MHz				
	NR Band n53: 10 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
NR Band n71: 5 MHz	665.5 (133100)		680.5 (136100)		695.5 (139100)
NR Band n71: 10 MHz	668 (133600)		680.5 (136100)		693 (138600)
NR Band n71: 15 MHz	670.5 (134100)		680.5 (136100)		690.5 (138100)
NR Band n71: 20 MHz	673 (134600)		680.5 (136100)		688 (137600)
NR Band n12: 5 MHz	701.5 (140300)		707.5 (141500)		713.5 (142700)
NR Band n12: 10 MHz	704 (140800)		707.5 (141500)		711 (142200)
NR Band n12: 15 MHz	706.5 (141300)		707.5 (141500)		708.5 (141700)
NR Band n14: 5 MHz	790.5 (158100)		793 (158600)		795.5 (159100)
NR Band n14: 10 MHz	N/A		793 (158600)		N/A
NR Band n26 (Cell): 5 MHz	816.5 (163300)		831.5 (166300)		846.5 (169300)
NR Band n26 (Cell): 10 MHz	819 (163800)		831.5 (166300)		844 (168800)
NR Band n26 (Cell): 15 MHz	821.5 (164300)		831.5 (166300)		841.5 (168300)
NR Band n26 (Cell): 20 MHz	824 (164800)		831.5 (166300)		839 (167800)
NR Band n5 (Cell): 5 MHz	826.5 (165300)		836.5 (167300)		846.5 (169300)
NR Band n5 (Cell): 10 MHz	829 (165800)		836.5 (167300)		844 (168800)
NR Band n5 (Cell): 15 MHz	831.5 (166300)		836.5 (167300)		841.5 (168300)
NR Band n5 (Cell): 20 MHz	834 (166800)		836.5 (167300)		839 (167800)
NR Band n66 (AWS): 5 MHz	1712.5 (342500)		1745 (349000)		1777.5 (355500)
NR Band n66 (AWS): 10 MHz	1715 (343000)		1745 (349000)		1775 (355000)
NR Band n66 (AWS): 15 MHz	1717.5 (343500)		1745 (349000)		1772.5 (354500)
NR Band n66 (AWS): 20 MHz	1720 (344000)		1745 (349000)		1770 (354000)
NR Band n25 (PCS): 5 MHz	1852.5 (370500)		1882.5 (376500)		1912.5 (382500)
NR Band n25 (PCS): 10 MHz	1855 (371000)		1882.5 (376500)		1910 (382000)
NR Band n25 (PCS): 15 MHz	1857.5 (371500)		1882.5 (376500)		1907.5 (381500)
NR Band n25 (PCS): 20 MHz	1860 (372000)		1882.5 (376500)		1905 (381000)
NR Band n2 (PCS): 5 MHz	1852.5 (370500)		1880 (376000)		1907.5 (381500)
NR Band n2 (PCS): 10 MHz	1855 (371000)		1880 (376000)		1905 (381000)
NR Band n2 (PCS): 15 MHz	1857.5 (371500)		1880 (376000)		1902.5 (380500)
NR Band n2 (PCS): 20 MHz	1860 (372000)		1880 (376000)		1900 (380000)
NR Band n7: 5 MHz	2502.5 (500500)		2535 (507000)		2567.5 (513500)
NR Band n7: 10 MHz	2505 (501000)		2535 (507000)		2565 (513000)
NR Band n7: 15 MHz	2507.5 (501500)		2535 (507000)		2562.5 (512500)
NR Band n7: 20 MHz	2510 (502000)		2535 (507000)		2560 (512000)
NR Band n41: 10 MHz	2501.01 (500202)	2547 (509400)	2592.99 (518598)	2639.01 (527802)	2685 (537000)
NR Band n41: 15 MHz	2503.5 (500700)	2548.26 (509652)	2592.99 (518598)	2637.75 (527550)	2682.48 (536496)
NR Band n41: 20 MHz	2506.02 (501204)	2549.49 (509898)	2592.99 (518598)	2636.49 (527298)	2679.99 (535998)
NR Band n53: 10 MHz	2488.5 (497700)		2489.3 (497860)		2490 (498000)
SCS for NR Band n71/n12/n14/n26/n5/n66/n25/n2/n7	15 kHz				
SCS for NR Band n41/n53	30 kHz				
Modulations Supported in UL	DFT-s-OFDM: $\pi/2$ BPSK, QPSK, 16QAM, 64QAM CP-OFDM: QPSK, 16QAM, 64QAM				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				

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3 INTRODUCTION

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996, and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

3.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 3-1).

Equation 3-1
SAR Mathematical Equation

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right) = \frac{d}{dt} \left(\frac{dU}{\rho dv} \right)$$

SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

- σ = conductivity of the tissue-simulating material (S/m)
- ρ = mass density of the tissue-simulating material (kg/m³)
- E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

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4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and:

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface, and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 4-1).
2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.
3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 4-1). On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 4-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

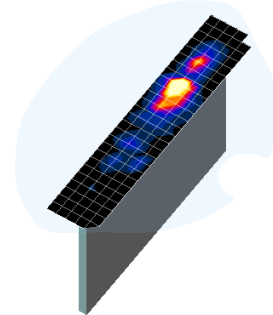


Figure 4-1
Sample SAR Area Scan

Table 4-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{\text{area}}, \Delta y_{\text{area}}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{\text{zoomTV}}, \Delta y_{\text{zoom}}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid $\Delta z_{\text{zoom}}(n)$	Graded Grid		
				$\Delta z_{\text{zoom}}(1)^*$	$\Delta z_{\text{zoom}}(n>1)^*$	
≤2 GHz	≤15	≤8	≤5	≤4	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥30
2-3 GHz	≤12	≤5	≤5	≤4	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥30
3-4 GHz	≤12	≤5	≤4	≤3	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥28
4-5 GHz	≤10	≤4	≤3	≤2.5	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥25
5-6 GHz	≤10	≤4	≤2	≤2	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥22

*Also compliant to IEEE 1528-2013 Table 6

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5 TEST CONFIGURATION POSITIONS

5.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$. Additionally, a manufacturer provided low-loss foam was used to position the device for head SAR evaluations.

5.2 Positioning for Head

Devices that are designed to be worn on the wrist may operate in speaker mode for voice communication, with the device worn on the wrist and positioned next to the mouth. When next-to-mouth SAR evaluation is required, the device is positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium. The device is evaluated with wrist bands strapped together to represent normal use conditions.

5.3 Extremity Exposure Configurations

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions: i.e., hands, wrists, feet, and ankles may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. When extremity SAR evaluation is required, the device is evaluated with the back of the device touching the flat phantom, which is filled with head tissue-equivalent medium. The device was evaluated with Sport wristband unstrapped and touching the phantom. For Fabric and Metal Loop wristbands, the device was evaluated with wristbands strapped and the distance between wristbands and the phantom was minimized to represent the spacing created by actual use conditions.

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6 RF EXPOSURE LIMITS

6.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

6.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e., as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

6.3 RF Exposure Limits for Frequencies Below 6 GHz

Table 6-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g)
Peak Spatial Average SAR Head	1.6	8.0
Whole Body SAR	0.08	0.4
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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6.4 RF Exposure Limits for Frequencies Above 6 GHz

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is expressed in units of W/m² or mW/cm².

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes.

Table 6-2
Human Exposure Limits Specified in FCC 47 CFR §1.1310

Human Exposure to Radiofrequency (RF) Radiation Limits		
Frequency Range [MHz]	Power Density [mW/cm ²]	Average Time [Minutes]
(A) Limits For Occupational / Controlled Environments		
1,500 – 100,000	5.0	6
(B) Limits For General Population / Uncontrolled Environments		
1,500 – 100,000	1.0	30

Note: 1.0 mW/cm² is 10 W/m²

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7 FCC MEASUREMENT PROCEDURES

Power measurements for licensed transmitters are performed using a base station simulator under digital average power.

7.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D04v01, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

7.2 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r05 publication. Establishing connections with base station simulators ensures a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

7.2.1 Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

7.2.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

7.2.3 A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

7.2.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r05:

- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with the highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.

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- b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
- c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.
- d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to ½ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is <1.45 W/kg.
- e. This device can only operate with 16QAM on the uplink with less than or equal to 27 RB. For 16QAM configurations with 10 MHz, 15 MHz and 20 MHz bandwidths, LTE powers for RB size of 15 ("50% RB") and 27 ("100% RB") with offsets to upper edge, middle, and lower edge of the channel are additionally measured for both QPSK and 16QAM modulations to support comparison and SAR test exclusion per Section 5.2.4 and 5.3.

7.2.5 TDD

LTE TDD testing is performed using the SAR test guidance provided in FCC KDB 941225 D05v02r05. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05v02r05. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211 Section 4.

7.3 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset-based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

7.3.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to a 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

7.3.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted

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by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.3.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled, SAR must be considered for these channels. Each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

7.3.4 2.4 GHz SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel, i.e., all channels require testing.

2.4 GHz 802.11 g/n OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.3.5 OFDM Transmission Mode and SAR Test Channel Selection

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, and 802.11n or 802.11g and 802.11n with the same channel bandwidth, modulation, and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n or 802.11g then 802.11n, is used for SAR measurement. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

7.3.6 Initial Test Configuration Procedure

For OFDM, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order IEEE 802.11 mode.

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The channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 7.3.5). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.3.7 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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8 RF CONDUCTED POWERS

8.1 LTE Conducted Powers

Per FCC KDB Publication 941225 D05v02r05, LTE SAR for the lower bandwidths was not required for testing since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg. Lower bandwidth conducted powers for all LTE bands can be found in the LTE Lower Bandwidth RF Conducted Powers Appendix.

Some bands do not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

8.1.1 LTE Band 71

Table 8-1
LTE Band 71 Conducted Powers – 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.35	0	0
	1	50	25.30		0
	1	99	25.37		0
	50	0	24.34	0-1	1
	50	25	24.40		1
	50	50	24.44		1
	100	0	24.37	0-1	1
	15	0	25.34		0
	15	42	25.39		0
	15	85	25.33	0-2	0
	27	0	24.38		1
	27	37	24.40		1
16QAM	27	73	24.35	0-2	1
	1	0	24.47		1
	1	50	24.50		1
	1	99	24.39	0-3	1
	15	0	24.68		1
	15	42	24.69		1
	15	85	24.65	0-5	1
	27	0	23.65		2
	27	37	23.66		2
	27	73	23.61		2

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8.1.2

LTE Band 12

Table 8-2
LTE Band 12 Conducted Powers – 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.40	0	0
	1	25	25.34		0
	1	49	25.44		0
	25	0	24.37	0-1	1
	25	12	24.39		1
	25	25	24.42		1
	50	0	24.38		1
	15	0	24.42	0-1	1
	15	17	24.41		1
	15	35	24.39		1
	27	0	24.42	0-2	1
	27	12	24.40		1
	27	23	24.38		1
16QAM	1	0	24.69	0-2	1
	1	25	24.66		1
	1	49	24.62		1
	25	0	23.70	0-3	2
	25	12	23.69		2
	25	25	23.65		2
	15	0	23.68	0-5	2
	15	17	23.67		2
	15	35	23.68		2
	27	0	23.69		2
	27	12	23.67		2
	27	23	23.65		2

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8.1.3

LTE Band 13

Table 8-3
LTE Band 13 Conducted Powers – 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.33	0	0
	1	25	25.31		0
	1	49	25.34		0
	25	0	24.39	0-1	1
	25	12	24.40		1
	25	25	24.43		1
	50	0	24.32		1
	15	0	24.43	0-1	1
	15	17	24.40		1
	15	35	24.44		1
	27	0	24.36	0-2	1
	27	12	24.38		1
	27	23	24.40		1
16QAM	1	0	24.65	0-2	1
	1	25	24.55		1
	1	49	24.62		1
	25	0	23.57	0-3	2
	25	12	23.61		2
	25	25	23.62		2
	15	0	23.63	0-5	2
	15	17	23.60		2
	15	35	23.62		2
	27	0	23.59		2
	27	12	23.62		2
	27	23	23.63		2

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8.1.4

LTE Band 14

Table 8-4
LTE Band 14 Conducted Powers – 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.33	0	0
	1	25	25.31		0
	1	49	25.34		0
	25	0	24.44	0-1	1
	25	12	24.40		1
	25	25	24.43		1
	50	0	24.41		1
	15	0	24.43	0-1	1
	15	17	24.44		1
	15	35	24.40		1
	27	0	24.42	0-2	1
	27	12	24.39		1
	27	23	24.43		1
16QAM	1	0	24.62	0-2	1
	1	25	24.61		1
	1	49	24.60		1
	25	0	23.65	0-3	2
	25	12	23.63		2
	25	25	23.64		2
	15	0	23.61	0-5	2
	15	17	23.60		2
	15	35	23.63		2
	27	0	23.64		2
	27	12	23.63		2
	27	23	23.62		2

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8.1.5

LTE Band 26

Table 8-5
LTE Band 26 Conducted Powers – 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26740 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.55	25.66	25.56	0	0
	1	25	25.48	25.62	25.51		0
	1	49	25.44	25.59	25.55		0
	25	0	24.61	24.67	24.62	0-1	1
	25	12	24.58	24.66	24.58		1
	25	25	24.59	24.68	24.64		1
	50	0	24.61	24.56	24.55	0-1	1
	15	0	24.68	24.61	24.61		1
	15	17	24.69	24.66	24.56		1
	15	35	24.62	24.65	24.55	0-2	1
	27	0	24.65	24.64	24.61		1
	27	12	24.66	24.61	24.55		1
27	23	24.67	24.62	24.54		1	
16QAM	1	0	24.67	24.63	24.64	0-2	1
	1	25	24.68	24.60	24.67		1
	1	49	24.65	24.61	24.67		1
	25	0	23.66	23.62	23.67	0-3	2
	25	12	23.65	23.69	23.61		2
	25	25	23.66	23.69	23.69		2
	15	0	23.62	23.68	23.60	0-5	2
	15	17	23.65	23.64	23.66		2
	15	35	23.70	23.67	23.68		2
	27	0	23.61	23.67	23.63		2
	27	12	23.67	23.65	23.63		2
	27	23	23.65	23.66	23.62		2

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8.1.6

LTE Band 5

Table 8-6
LTE Band 5 Conducted Powers – 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.60	0	0
	1	25	25.58		0
	1	49	25.59		0
	25	0	24.63	0-1	1
	25	12	24.60		1
	25	25	24.66		1
	50	0	24.64		1
	15	0	24.62	0-1	1
	15	17	24.65		1
	15	35	24.61		1
	27	0	24.62	0-2	1
	27	12	24.60		1
	27	23	24.59		1
16QAM	1	0	24.67	0-2	1
	1	25	24.61		1
	1	49	24.63		1
	25	0	23.60	0-3	2
	25	12	23.66		2
	25	25	23.67		2
	15	0	23.62	0-5	2
	15	17	23.64		2
	15	35	23.65		2
	27	0	23.64		2
	27	12	23.65		2
	27	23	23.62		2

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8.1.7

LTE Band 66

Table 8-7
LTE Band 66 Conducted Powers – 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.20	24.19	23.79	0	0
	1	50	24.23	23.97	23.83		0
	1	99	24.17	23.92	23.77		0
	50	0	23.27	23.08	22.78	0-1	1
	50	25	23.21	23.05	22.74		1
	50	50	23.15	22.97	22.72		1
	100	0	23.21	23.03	22.76	1	
	15	0	24.23	24.08	23.76	0-1	0
	15	42	24.21	24.02	23.80		0
	15	85	24.13	23.90	23.74		0
	27	0	23.21	23.02	22.70	0-2	1
	27	37	23.16	22.97	22.74		1
27	73	23.09	22.85	22.69	1		
16QAM	1	0	23.54	23.79	23.18	0-2	1
	1	50	23.49	23.76	23.17		1
	1	99	23.55	23.62	23.13		1
	15	0	23.32	23.31	22.97	0-3	1
	15	42	23.31	23.27	23.02		1
	15	85	23.28	23.13	22.93		1
	27	0	22.42	22.22	22.05	0-5	2
	27	37	22.42	22.16	22.08		2
27	73	22.39	22.06	22.00	2		

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8.1.8

LTE Band 25

Table 8-8
LTE Band 25 Conducted Powers – 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.20	24.16	23.79	0	0
	1	50	24.35	24.13	23.97		0
	1	99	24.32	24.04	24.02		0
	50	0	23.25	23.14	23.01	0-1	1
	50	25	23.28	23.17	23.02		1
	50	50	23.25	23.12	23.00		1
	100	0	23.25	23.15	22.98	0-1	1
	15	0	23.97	24.04	23.89		0
	15	42	24.09	24.06	24.00		0
	15	85	24.08	23.99	23.94	0-2	0
	27	0	22.94	22.99	22.91		1
	27	37	23.01	23.03	22.96		1
27	73	22.99	22.97	22.99	1		
16QAM	1	0	23.18	23.56	23.05	0-2	1
	1	50	23.29	23.61	23.12		1
	1	99	23.32	23.52	23.02		1
	15	0	22.95	23.08	22.85	0-3	1
	15	42	23.08	23.10	22.99		1
	15	85	23.05	23.02	22.96		1
	27	0	22.04	21.98	22.01	0-5	2
	27	37	22.09	22.06	22.06		2
	27	73	22.10	21.93	22.07		2

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8.1.9

LTE Band 7

Table 8-9
LTE Band 7 Maximum Conducted Powers – 20 MHz

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.98	24.56	24.07	0	0
	1	50	24.00	24.62	24.36		0
	1	99	23.93	24.51	24.23		0
	50	0	23.65	23.51	23.65	0-1	1
	50	25	23.67	23.70	23.66		1
	50	50	23.65	23.63	23.65		1
	100	0	23.64	23.67	23.60	1	
	15	0	24.68	24.53	24.61	0-1	0
	15	42	24.73	24.53	24.73		0
	15	85	24.72	24.49	24.70		0
	27	0	23.71	23.47	23.65	0-2	1
	27	37	23.68	23.48	23.68		1
27	73	23.64	23.46	23.66	1		
16QAM	1	0	23.32	23.54	23.53	0-2	1
	1	50	23.17	23.54	23.56		1
	1	99	22.92	23.43	23.49		1
	15	0	23.08	23.14	23.14	0-3	1
	15	42	23.11	23.19	23.26		1
	15	85	22.98	23.09	23.15		1
	27	0	22.25	22.04	22.09	0-5	2
	27	37	22.29	22.03	22.16		2
27	73	22.13	21.98	22.06	2		

Table 8-10
LTE Band 7 Reduced Conducted Powers – 20 MHz

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.97	19.06	18.99	0	0
	1	50	18.96	19.07	19.09		0
	1	99	18.94	18.91	19.04		0
	50	0	19.10	18.93	19.12	0-1	0
	50	25	18.99	18.95	19.11		0
	50	50	18.96	18.94	19.06		0
	100	0	18.74	18.74	18.76	0	
	15	0	19.35	19.09	19.13	0-1	0
	15	42	19.29	19.14	19.22		0
	15	85	19.24	19.12	19.18		0
	27	0	19.34	19.08	19.14	0-2	0
	27	37	19.29	19.16	19.21		0
27	73	19.23	19.50	19.15	0		
16QAM	1	0	19.49	19.17	19.20	0-2	0
	1	50	19.17	19.14	19.14		0
	1	99	19.12	19.26	19.16		0
	15	0	19.41	19.13	19.13	0-3	0
	15	42	19.19	19.12	19.18		0
	15	85	19.17	19.17	19.18		0
	27	0	19.13	19.11	19.12	0-5	0
	27	37	19.19	19.12	19.14		0
27	73	19.18	19.16	19.13	0		

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8.1.10

LTE Band 41

Table 8-11

LTE Band 41 Maximum Conducted Powers – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	24.51	24.36	24.23	23.70	24.00	0	0
	1	50	24.60	24.42	24.30	23.72	24.08		0
	1	99	24.40	24.40	24.16	23.71	24.06		0
	50	0	23.54	23.22	23.18	22.74	22.84	0-1	1
	50	25	23.50	23.28	23.19	22.69	22.89		1
	50	50	23.48	23.24	23.15	22.72	22.87		1
	100	0	23.53	23.30	23.20	22.70	22.88	0-1	1
	15	0	24.53	24.25	24.22	23.73	23.84		0
	15	42	24.59	24.33	24.25	23.74	23.94		0
	15	85	24.43	24.28	24.15	23.69	23.90	0-2	0
	27	0	23.45	23.22	23.17	22.67	22.78		1
	27	37	23.49	23.27	23.19	22.69	22.86		1
16QAM	27	73	23.31	23.25	23.11	22.65	22.82	0-2	1
	1	0	23.08	23.04	22.99	22.83	22.10		1
	1	50	23.02	23.12	23.01	22.80	22.20		1
	1	99	22.78	23.03	22.88	22.74	22.18	0-3	1
	15	0	23.46	22.96	22.88	22.60	22.41		1
	15	42	23.44	23.01	22.93	22.57	22.47		1
	15	85	23.17	22.95	22.78	22.51	22.44	0-5	1
	27	0	22.39	22.04	21.97	21.55	21.37		2
	27	37	22.32	22.09	22.01	21.51	21.45		2
	27	73	22.13	22.06	21.91	21.44	21.42		2

Table 8-12

LTE Band 41 Reduced Conducted Powers – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	22.12	21.80	21.86	21.50	21.41	0	0
	1	50	22.17	21.98	21.89	21.65	21.52		0
	1	99	22.07	21.96	21.85	21.49	21.49		0
	50	0	22.19	21.90	21.91	21.53	21.51	0-1	0
	50	25	22.14	21.96	21.95	21.63	21.55		0
	50	50	22.11	21.94	21.94	21.52	21.54		0
	100	0	22.13	21.93	21.87	21.61	21.50	0-1	0
	15	0	22.19	21.87	21.92	21.54	21.50		0
	15	42	22.18	21.90	21.90	21.56	21.48		0
	15	85	22.12	21.98	21.91	21.62	21.53	0-2	0
	27	0	22.11	21.87	21.87	21.60	21.47		0
	27	37	22.08	21.89	21.88	21.52	21.46		0
16QAM	27	73	22.07	21.95	21.89	21.58	21.49	0-2	0
	1	0	21.90	21.88	21.75	21.95	22.00		0
	1	50	21.89	22.04	21.86	21.98	21.99		0
	1	99	21.88	22.01	21.80	22.17	22.07	0-3	0
	15	0	21.86	21.92	22.18	21.85	21.87		0
	15	42	21.86	21.96	22.20	21.88	21.94		0
	15	85	21.92	21.96	22.19	21.86	21.94	0-5	0
	27	0	21.88	21.91	22.15	21.95	22.00		0
	27	37	21.87	21.93	22.17	21.97	22.03		0
	27	73	21.85	21.87	22.19	21.94	22.04		0

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8.1.11

LTE Band 53

Table 8-13
LTE Band 53 Conducted Powers – 10 MHz Bandwidth

LTE Band 53 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			60197 (2489.2 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.96	0	0
	1	25	19.98		0
	1	49	20.01		0
	25	0	19.67	0-1	1
	25	12	19.64		1
	25	25	19.73		1
	50	0	19.69		1
	15	0	19.71	0-1	1
	15	17	19.72		1
	15	35	19.74		1
	27	0	19.73	0-2	1
	27	12	19.67		1
	27	23	19.72		1
16QAM	1	0	19.20	0-2	1
	1	25	19.55		1
	1	49	19.10		1
	25	0	18.64	0-3	2
	25	12	18.54		2
	25	25	18.05		2
	15	0	18.59	0-5	2
	15	17	18.67		2
	15	35	18.55		2
	27	0	18.03		2
	27	12	18.30		2
	27	23	18.23		2



Figure 8-1
Power Measurement Setup

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8.2 NR Conducted Powers

Note: Per October 2020 TCB Workshop Guidance, NR FR1 SAR evaluations are being generally based on adapting the existing LTE SAR procedures (FCC KDB Publication 941225 D05v02r05). Therefore, NR SAR for the lower bandwidths was not required for testing based on the measured output power and the reported NR SAR for the highest bandwidth. Lower bandwidth conducted powers for all NR bands can be found in the LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Some bands do not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel for the group of overlapping channels should be selected for testing.

8.2.1 NR Band n71

Table 8-14
NR Band n71 Conducted Powers – 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.57	0	0.0
	1	53	24.51		0.0
	1	104	24.25		0.0
	50	0	23.46	0-1	1.0
	50	28	24.40	0	0.0
	50	56	23.47	0-1	1.0
	100	0	23.41		1.0
DFT-s-OFDM 16QAM	1	1	23.27	0-1	1.0
CP-OFDM QPSK	1	1	23.11	0-1.5	1.5

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8.2.2

NR Band n12

Table 8-15

NR Band n12 Conducted Powers – 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.65	0	0.0
	1	40	24.69		0.0
	1	77	24.62		0.0
	36	0	23.56	0-1	1.0
	36	22	24.75	0	0.0
	36	43	23.57	0-1	1.0
	75	0	23.46		1.0
DFT-s-OFDM 16QAM	1	1	23.50	0-1	1.0
CP-OFDM QPSK	1	1	23.35	0-1.5	1.5

8.2.3

NR Band n14

Table 8-16

NR Band n14 Conducted Powers – 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.64	0	0.0
	1	26	24.56		0.0
	1	50	24.59		0.0
	25	0	23.67	0-1	1.0
	25	14	24.57	0	0.0
	25	27	23.59	0-1	1.0
	50	0	23.60		1.0
DFT-s-OFDM 16QAM	1	1	23.35	0-1	1.0
CP-OFDM QPSK	1	1	23.20	0-1.5	1.5

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8.2.4

NR Band n26

Table 8-17

NR Band n26 Conducted Powers – 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.08	0	0.0
	1	53	24.14		0.0
	1	104	23.95		0.0
	50	0	23.59	0-1	1.0
	50	28	24.08	0	0.0
	50	56	23.54	0-1	1.0
	100	0	23.58		1.0
DFT-s-OFDM 16QAM	1	1	23.35	0-1	1.0
CP-OFDM QPSK	1	1	22.98	0-1.5	1.5

8.2.5

NR Band n5

Table 8-18

NR Band n5 Conducted Powers – 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.40	0	0.0
	1	53	24.25		0.0
	1	104	24.27		0.0
	50	0	23.36	0-1	1.0
	50	28	24.27	0	0.0
	50	56	23.27	0-1	1.0
	100	0	23.28		1.0
DFT-s-OFDM 16QAM	1	1	23.41	0-1	1.0
CP-OFDM QPSK	1	1	23.02	0-1.5	1.5

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8.2.6

NR Band n66

Table 8-19

NR Band n66 Conducted Powers – 20 MHz Bandwidth

NR Band n66 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	344000 (1720 MHz)	349000 (1745 MHz)	354000 (1770 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	24.17	24.12	24.05	0	0.0
	1	53	24.24	24.20	23.93		0.0
	1	104	24.03	24.16	23.95		0.0
	50	0	23.19	23.27	23.07	0-1	1.0
	50	28	24.25	24.23	24.07	0	0.0
	50	56	23.27	23.17	23.00	0-1	1.0
	100	0	23.30	23.21	23.04		1.0
DFT-s-OFDM 16QAM	1	1	23.09	23.00	23.13	0-1	1.0
CP-OFDM QPSK	1	1	22.75	22.70	22.57	0-1.5	1.5

8.2.7

NR Band n25

Table 8-20

NR Band n25 Conducted Powers – 20 MHz Bandwidth

NR Band n25 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	372000 (1860 MHz)	376500 (1882.5 MHz)	381000 (1905 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	24.25	24.09	24.01	0	0.0
	1	53	24.35	24.03	23.77		0.0
	1	104	24.29	23.94	23.97		0.0
	50	0	23.35	23.04	23.02	0-1	1.0
	50	28	24.24	24.01	23.90	0	0.0
	50	56	23.20	23.07	23.01	0-1	1.0
	100	0	23.33	23.01	22.92		1.0
DFT-s-OFDM 16QAM	1	1	23.16	23.07	22.72	0-1	1.0
CP-OFDM QPSK	1	1	22.89	22.71	22.53	0-1.5	1.5

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8.2.8

NR Band n7

Table 8-21

NR Band n7 Maximum Conducted Powers – 20 MHz Bandwidth

NR Band n7 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	502000 (2510 MHz)	507000 (2535 MHz)	512000 (2560 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	24.03	23.94	23.84	0	0.0
	1	53	23.93	23.87	23.90		0.0
	1	104	23.90	23.81	23.85		0.0
	50	0	22.91	22.90	22.90	0-1	1.0
	50	28	23.96	23.90	23.83	0	0.0
	50	56	22.97	22.82	22.82	0-1	1.0
	100	0	22.93	22.87	22.82		1.0
DFT-s-OFDM 16QAM	1	1	22.79	22.61	22.53	0-1	1.0
CP-OFDM QPSK	1	1	22.35	22.47	22.23	0-1.5	1.5

Table 8-22

NR Band n7 Reduced Conducted Powers – 20 MHz Bandwidth

NR Band n7 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	502000 (2510 MHz)	507000 (2535 MHz)	512000 (2560 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	19.61	19.56	19.51	0	0.0
	1	53	19.52	19.44	19.47		0.0
	1	104	19.43	19.53	19.60		0.0
	50	0	19.62	19.55	19.57	0-1	0.0
	50	28	19.57	19.56	19.55	0	0.0
	50	56	19.57	19.58	19.61	0-1	0.0
	100	0	19.56	19.55	19.53		0.0
DFT-s-OFDM 16QAM	1	1	19.98	19.79	19.58	0-1	0.0
CP-OFDM QPSK	1	1	19.37	19.35	19.29	0-1.5	0.0

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8.2.9

NR Band n41

Table 8-23

NR Band n41 Maximum Conducted Powers – 20 MHz Bandwidth

NR Band n41 20 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	501204 (2506.02 MHz)	509898 (2549.49 MHz)	518598 (2592.99 MHz)	527298 (2636.49 MHz)	535998 (2679.99 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM QPSK	1	1	24.02	23.85	23.95	23.91	23.73	0	0.0
	1	26	24.17	23.99	24.11	23.75	23.78		0.0
	1	49	24.00	23.92	23.98	23.90	23.75		0.0
	25	0	23.12	22.91	22.85	22.83	22.70	0-1	1.0
	25	13	24.22	24.00	24.01	23.89	23.71	0	0.0
	25	26	23.63	23.59	23.55	23.38	23.39	0-1	1.0
	50	0	23.02	22.96	22.86	22.77	22.74		1.0
DFT-s-OFDM 16QAM	1	1	23.01	22.92	22.79	22.64	22.59	0-1	1.0
CP-OFDM QPSK	1	1	22.57	22.41	22.36	22.21	22.22	0-1.5	1.5

Table 8-24

NR Band n41 Reduced Conducted Powers – 20 MHz Bandwidth

NR Band n41 20 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	501204 (2506.02 MHz)	509898 (2549.49 MHz)	518598 (2592.99 MHz)	527298 (2636.49 MHz)	535998 (2679.99 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM QPSK	1	1	19.75	19.58	19.74	19.43	19.28	0	0.0
	1	26	19.70	19.62	19.63	19.40	19.43		0.0
	1	49	19.44	19.68	19.72	19.42	19.51		0.0
	25	0	19.79	19.65	19.74	19.54	19.49	0-1	0.0
	25	13	19.71	19.66	19.72	19.47	19.52	0	0.0
	25	26	19.66	19.65	19.72	19.43	19.36	0-1	0.0
	50	0	19.66	19.56	19.61	19.38	19.46		0.0
DFT-s-OFDM 16QAM	1	1	19.92	19.50	19.72	19.57	19.55	0-1	0.0
CP-OFDM QPSK	1	1	19.89	19.42	19.70	19.46	19.48	0-1.5	0.0

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8.2.10

NR Band n53

Table 8-25

NR Band n53 Conducted Powers – 10 MHz Bandwidth

NR Band n53 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			497860 (2489.3 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.92	0	0.0
	1	12	19.91		0.0
	1	22	19.95		0.0
	12	0	19.65	0-1	1.0
	12	6	19.85	0	0.0
	12	12	19.70	0-1	1.0
	24	0	19.67		1.0
DFT-s-OFDM 16QAM	1	1	19.38	0-1	1.0
CP-OFDM QPSK	1	1	18.92	0-1.5	1.5

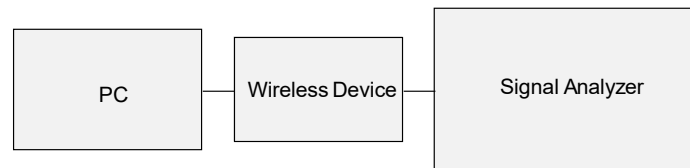


Figure 8-2
Power Measurement Setup

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8.3 NTN Conducted Powers

Table 8-26
NTN Band 254 Conducted Powers

Channel	Frequency [MHz]	BPSK
Low	1610.2	26.03
Mid	1618.0	26.01
High	1626.0	26.04

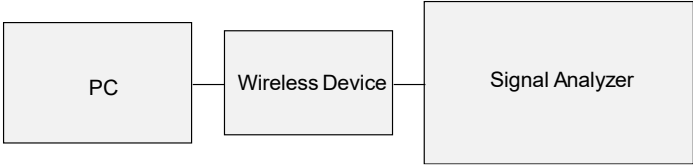


Figure 8-3
Power Measurement Setup

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8.4 WLAN Conducted Powers

Table 8-27
2.4 GHz WLAN Maximum Average RF Power

2.4GHz WIFI (20MHz 802.11b SISO)			2.4GHz WIFI (20MHz 802.11g SISO)			2.4GHz WIFI (20MHz 802.11n SISO)		
Freq. [MHz]	Channel	Conducted Power [dBm]	Freq. [MHz]	Channel	Conducted Power [dBm]	Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	17.54	2412	1	12.95	2412	1	12.71
2437	6	17.75	2437	6	16.94	2437	6	16.85
2462	11	17.65	2462	11	12.55	2462	11	12.38

Table 8-28
5 GHz WLAN Maximum Average RF Power

5GHz WIFI (20MHz 802.11a SISO)				5GHz WIFI (20MHz 802.11n SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	15.98	UNII-1	5180	36	16.21
	5200	40	15.91		5200	40	16.10
	5220	44	15.93		5220	44	16.22
	5240	48	15.84		5240	48	16.10
UNII-2A	5260	52	16.05	UNII-2A	5260	52	16.23
	5280	56	16.10		5280	56	16.24
	5300	60	16.16		5300	60	16.37
	5320	64	16.18		5320	64	16.40
UNII-2C	5500	100	16.04	UNII-2C	5500	100	16.08
	5600	120	16.18		5600	120	16.09
	5620	124	16.23		5620	124	16.19
	5720	144	15.95		5720	144	15.93
UNII-3	5745	149	15.51	UNII-3	5745	149	15.80
	5785	157	15.50		5785	157	15.73
	5825	165	15.67		5825	165	15.85

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.

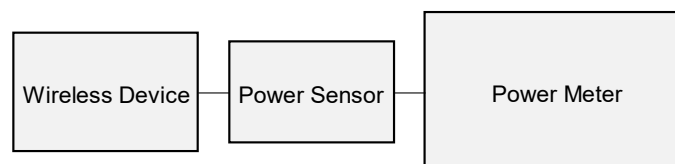


Figure 8-4
Power Measurement Setup

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8.5 Bluetooth Maximum Conducted Powers

Table 8-29
Bluetooth Average RF Power

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	15.69	37.068
2441	GFSK	1.0	39	15.77	37.757
2480	GFSK	1.0	78	15.62	36.475

Note: Bluetooth was evaluated with a test mode with 100% transmission duty factor.

Table 8-30
Bluetooth Average Reduced RF Power

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.36	13.677
2441	GFSK	1.0	39	11.20	13.183
2480	GFSK	1.0	78	11.11	12.912

Note: Bluetooth was evaluated with a test mode with 100% transmission duty factor.

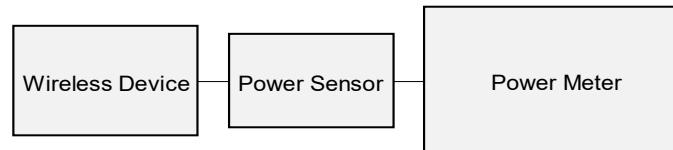


Figure 8-5
Power Measurement Setup

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8.6 802.15.4 ab-NB Conducted Powers

Table 8-31
802.15.4 ab-NB Average RF Power

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel	Avg Conducted Power	
				[dBm]	[mW]
5728.75	O-QPSK	1.0	Low	15.36	34.356
5786.25	O-QPSK	1.0	Middle	15.38	34.514
5846.25	O-QPSK	1.0	High	15.48	35.318

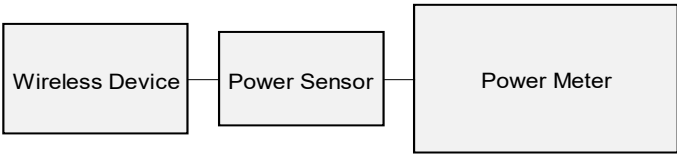
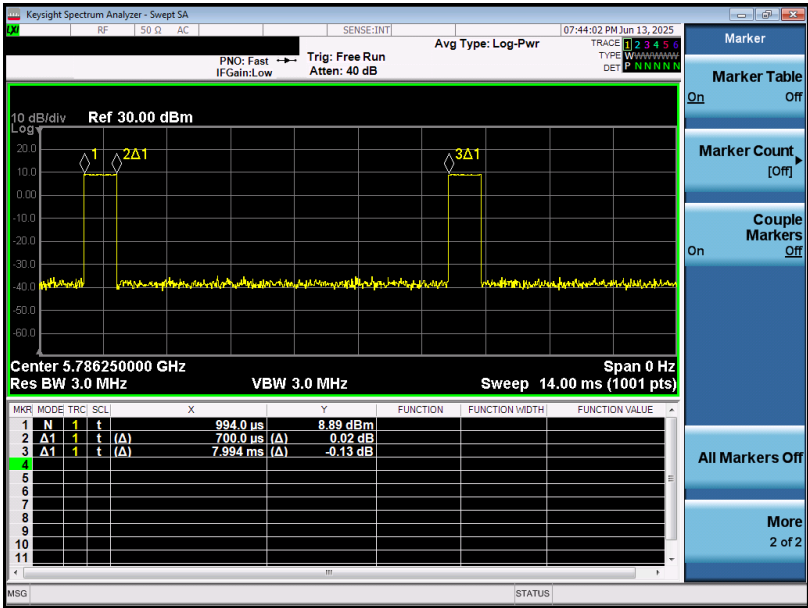


Figure 8-6
Power Measurement Setup

8.7 802.15.4 ab-NB Duty Cycle

Figure 8-7
802.15.4 ab-NB Transmission Plot



Equation 8-1
802.15.4 ab-NB Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{0.700\ ms}{7.994\ ms} * 100\% = 8.75\%$$

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
7/7/2025	30 Head	24.5	4	0.743	54.453	0.750	55.000	-0.93%	-0.99%
			6	0.743	53.919	0.750	55.000	-0.93%	-1.97%
			12	0.744	52.683	0.750	55.000	-0.80%	-4.21%
			13	0.744	52.592	0.750	55.000	-0.80%	-4.38%
			14	0.744	52.524	0.750	55.000	-0.80%	-4.50%
6/11/2025	750 Head	21.0	680	0.868	41.154	0.888	42.305	-2.25%	-2.72%
			695	0.873	41.106	0.889	42.227	-1.80%	-2.65%
			700	0.875	41.095	0.889	42.201	-1.57%	-2.62%
			710	0.878	41.069	0.890	42.149	-1.35%	-2.56%
			725	0.884	41.012	0.891	42.071	-0.79%	-2.52%
			750	0.892	40.919	0.894	41.942	-0.22%	-2.44%
			770	0.899	40.852	0.895	41.838	0.45%	-2.36%
			785	0.905	40.813	0.896	41.760	1.00%	-2.27%
			800	0.911	40.777	0.897	41.682	1.56%	-2.17%
6/13/2025	750 Head	20.9	680	0.860	42.137	0.888	42.305	-3.15%	-0.40%
			695	0.865	42.102	0.889	42.227	-2.70%	-0.30%
			700	0.867	42.090	0.889	42.201	-2.47%	-0.26%
			710	0.871	42.062	0.890	42.149	-2.13%	-0.21%
			725	0.877	42.021	0.891	42.071	-1.57%	-0.12%
			750	0.885	41.945	0.894	41.942	-1.01%	0.01%
			770	0.891	41.871	0.895	41.838	-0.45%	0.08%
			785	0.896	41.829	0.896	41.760	0.00%	0.17%
			800	0.902	41.798	0.897	41.682	0.56%	0.28%
6/15/2025	750 Head	21.0	680	0.857	42.433	0.888	42.305	-3.49%	0.30%
			695	0.863	42.392	0.889	42.227	-2.92%	0.39%
			700	0.865	42.379	0.889	42.201	-2.70%	0.42%
			710	0.869	42.362	0.890	42.149	-2.36%	0.51%
			725	0.875	42.329	0.891	42.071	-1.80%	0.61%
			750	0.882	42.249	0.894	41.942	-1.34%	0.73%
			770	0.889	42.160	0.895	41.838	-0.67%	0.77%
			785	0.894	42.102	0.896	41.760	-0.22%	0.82%
			800	0.900	42.057	0.897	41.682	0.33%	0.90%
6/28/2025	750 Head	21.0	700	0.893	41.285	0.887	42.167	0.68%	-2.09%
			680	0.885	41.360	0.888	42.305	-0.34%	-2.23%
			695	0.891	41.304	0.889	42.227	0.22%	-2.19%
			700	0.893	41.285	0.889	42.201	0.45%	-2.17%
			710	0.896	41.254	0.890	42.149	0.67%	-2.12%
			725	0.902	41.216	0.891	42.071	1.23%	-2.03%
			750	0.909	41.160	0.894	41.942	1.68%	-1.86%
			770	0.915	41.082	0.895	41.838	2.23%	-1.81%
			785	0.920	41.029	0.896	41.760	2.68%	-1.75%
7/9/2025	750 Head	21.0	800	0.926	40.970	0.897	41.682	3.23%	-1.71%
			680	0.863	43.237	0.888	42.305	-2.82%	2.20%
			695	0.869	43.194	0.889	42.227	-2.25%	2.29%
			700	0.871	43.180	0.889	42.201	-2.02%	2.32%
			710	0.875	43.149	0.890	42.149	-1.69%	2.37%
			725	0.880	43.094	0.891	42.071	-1.23%	2.43%
			750	0.889	42.999	0.894	41.942	-0.56%	2.52%
			770	0.895	42.934	0.895	41.838	0.00%	2.62%
			785	0.901	42.897	0.896	41.760	0.56%	2.72%
			800	0.907	42.853	0.897	41.682	1.11%	2.81%

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6/11/2025	835 Head	20.4	815	0.882	41.305	0.898	41.594	-1.78%	-0.69%
			820	0.887	41.242	0.899	41.578	-1.33%	-0.81%
			835	0.901	41.047	0.900	41.500	0.11%	-1.09%
			850	0.916	40.855	0.916	41.500	0.00%	-1.55%
6/16/2025	835 Head	20.5	815	0.906	42.159	0.898	41.594	0.89%	1.36%
			820	0.911	42.088	0.899	41.578	1.33%	1.23%
			835	0.927	41.881	0.900	41.500	3.00%	0.92%
			850	0.942	41.682	0.916	41.500	2.84%	0.44%
6/22/2025	835 Head	21.0	815	0.868	40.683	0.898	41.594	-3.34%	-2.19%
			820	0.873	40.616	0.899	41.578	-2.89%	-2.31%
			835	0.887	40.419	0.900	41.500	-1.44%	-2.60%
			850	0.901	40.232	0.916	41.500	-1.64%	-3.06%
6/24/2025	835 Head	20.7	815	0.881	42.531	0.898	41.594	-1.89%	2.25%
			820	0.886	42.462	0.899	41.578	-1.45%	2.13%
			835	0.900	42.258	0.900	41.500	0.00%	1.83%
			850	0.915	42.067	0.916	41.500	-0.11%	1.37%
7/10/2025	1640 Head	19.0	1610	1.228	42.039	1.290	40.300	-4.81%	4.32%
			1620	1.239	41.986	1.296	40.284	-4.40%	4.23%
			1640	1.260	41.887	1.307	40.253	-3.60%	4.06%
			1650	1.270	41.837	1.313	40.237	-3.27%	3.98%
6/25/2025	1750 Head	20.0	1700	1.359	39.632	1.343	40.145	1.19%	-1.28%
			1705	1.365	39.613	1.345	40.141	1.49%	-1.32%
			1710	1.370	39.589	1.348	40.136	1.63%	-1.36%
			1720	1.379	39.547	1.354	40.126	1.85%	-1.44%
			1745	1.405	39.430	1.368	40.087	2.70%	-1.64%
			1750	1.410	39.406	1.371	40.079	2.84%	-1.68%
			1770	1.431	39.313	1.383	40.047	3.47%	-1.83%
6/18/2025	1900 Head	20.5	1790	1.450	39.229	1.394	40.016	4.02%	-1.97%
			1850	1.378	39.109	1.400	40.000	-1.57%	-2.23%
			1860	1.389	39.063	1.400	40.000	-0.79%	-2.34%
			1880	1.412	38.962	1.400	40.000	0.86%	-2.59%
			1900	1.433	38.868	1.400	40.000	2.36%	-2.83%
			1905	1.438	38.847	1.400	40.000	2.71%	-2.88%
			1910	1.443	38.826	1.400	40.000	3.07%	-2.93%
6/20/2025	1900 Head	20.5	1920	1.454	38.789	1.400	40.000	3.86%	-3.03%
			1850	1.383	40.264	1.400	40.000	-1.21%	0.66%
			1860	1.394	40.220	1.400	40.000	-0.43%	0.55%
			1880	1.415	40.134	1.400	40.000	1.07%	0.34%
			1900	1.435	40.042	1.400	40.000	2.50%	0.11%
			1905	1.440	40.020	1.400	40.000	2.86%	0.05%
			1910	1.444	39.997	1.400	40.000	3.14%	-0.01%
6/5/2025	2450 Head	23.8	1920	1.455	39.951	1.400	40.000	3.93%	-0.12%
			2300	1.680	39.567	1.670	39.500	0.60%	0.17%
			2310	1.691	39.535	1.679	39.480	0.71%	0.14%
			2320	1.702	39.500	1.687	39.460	0.89%	0.10%
			2400	1.794	39.181	1.756	39.289	2.16%	-0.27%
			2450	1.848	39.007	1.800	39.200	2.67%	-0.49%
			2480	1.884	38.873	1.833	39.162	2.78%	-0.74%
			2500	1.908	38.793	1.855	39.136	2.86%	-0.88%
			2510	1.921	38.760	1.866	39.123	2.95%	-0.93%
			2535	1.950	38.681	1.893	39.092	3.01%	-1.05%
			2550	1.967	38.634	1.909	39.073	3.04%	-1.12%
			2560	1.979	38.593	1.920	39.060	3.07%	-1.20%
			2600	2.028	38.407	1.964	39.009	3.26%	-1.54%
			2650	2.090	38.232	2.018	38.945	3.57%	-1.83%
			2680	2.124	38.100	2.051	38.907	3.56%	-2.07%
			2700	2.148	38.006	2.073	38.882	3.62%	-2.25%

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6/9/2025	2450 Head	24.7	2300	1.708	39.485	1.670	39.500	2.28%	-0.04%
			2310	1.719	39.445	1.679	39.480	2.38%	-0.09%
			2320	1.731	39.406	1.687	39.460	2.61%	-0.14%
			2400	1.821	39.077	1.756	39.289	3.70%	-0.54%
			2450	1.878	38.881	1.800	39.200	4.33%	-0.81%
			2480	1.912	38.758	1.833	39.162	4.31%	-1.03%
			2500	1.936	38.676	1.855	39.136	4.37%	-1.18%
			2510	1.948	38.636	1.866	39.123	4.39%	-1.24%
			2535	1.977	38.538	1.893	39.092	4.44%	-1.42%
			2550	1.994	38.482	1.909	39.073	4.45%	-1.51%
			2560	2.006	38.442	1.920	39.060	4.48%	-1.58%
			2600	2.054	38.278	1.964	39.009	4.58%	-1.87%
			2650	2.114	38.070	2.018	38.945	4.76%	-2.25%
			2680	2.148	37.946	2.051	38.907	4.73%	-2.47%
			2700	2.171	37.863	2.073	38.882	4.73%	-2.62%
6/12/2025	2450 Head	24.6	2300	1.672	39.002	1.670	39.500	0.12%	-1.26%
			2310	1.683	38.962	1.679	39.480	0.24%	-1.31%
			2320	1.694	38.922	1.687	39.460	0.41%	-1.36%
			2400	1.785	38.602	1.756	39.289	1.65%	-1.75%
			2450	1.842	38.417	1.800	39.200	2.33%	-2.00%
			2480	1.878	38.299	1.833	39.162	2.45%	-2.20%
			2500	1.902	38.223	1.855	39.136	2.53%	-2.33%
			2510	1.913	38.186	1.866	39.123	2.52%	-2.40%
			2535	1.943	38.087	1.893	39.092	2.64%	-2.57%
			2550	1.961	38.025	1.909	39.073	2.72%	-2.68%
			2560	1.973	37.983	1.920	39.060	2.76%	-2.76%
			2600	2.023	37.822	1.964	39.009	3.00%	-3.04%
			2650	2.082	37.623	2.018	38.945	3.17%	-3.39%
			2680	2.117	37.494	2.051	38.907	3.22%	-3.63%
			2700	2.142	37.412	2.073	38.882	3.33%	-3.78%
6/15/2025	2450 Head	24.7	2300	1.681	39.334	1.670	39.500	0.66%	-0.42%
			2310	1.693	39.299	1.679	39.480	0.83%	-0.46%
			2320	1.705	39.263	1.687	39.460	1.07%	-0.50%
			2400	1.796	38.940	1.756	39.289	2.28%	-0.89%
			2450	1.854	38.745	1.800	39.200	3.00%	-1.16%
			2480	1.889	38.617	1.833	39.162	3.06%	-1.39%
			2500	1.913	38.536	1.855	39.136	3.13%	-1.53%
			2510	1.924	38.494	1.866	39.123	3.11%	-1.61%
			2535	1.953	38.405	1.893	39.092	3.17%	-1.76%
			2550	1.970	38.349	1.909	39.073	3.20%	-1.85%
			2560	1.981	38.306	1.920	39.060	3.18%	-1.93%
			2600	2.028	38.123	1.964	39.009	3.26%	-2.27%
			2650	2.087	37.926	2.018	38.945	3.42%	-2.62%
			2680	2.121	37.782	2.051	38.907	3.41%	-2.89%
			2700	2.146	37.698	2.073	38.882	3.52%	-3.05%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
6/16/2025	2450 Head	24.7	2300	1.688	38.692	1.670	39.500	1.08%	-2.05%
			2310	1.701	38.663	1.679	39.480	1.31%	-2.07%
			2320	1.713	38.639	1.687	39.460	1.54%	-2.08%
			2400	1.796	38.349	1.756	39.289	2.28%	-2.39%
			2450	1.857	38.165	1.800	39.200	3.17%	-2.64%
			2480	1.883	38.031	1.833	39.162	2.73%	-2.89%
			2500	1.907	37.937	1.855	39.136	2.80%	-3.06%
			2510	1.921	37.895	1.866	39.123	2.95%	-3.14%
			2535	1.957	37.805	1.893	39.092	3.38%	-3.29%
			2550	1.974	37.755	1.909	39.073	3.40%	-3.37%
			2560	1.984	37.730	1.920	39.060	3.33%	-3.41%
			2600	2.021	37.574	1.964	39.009	2.90%	-3.68%
			2650	2.087	37.339	2.018	38.945	3.42%	-4.12%
			2680	2.118	37.238	2.051	38.907	3.27%	-4.29%
			2700	2.135	37.161	2.073	38.882	2.99%	-4.43%
6/17/2025	2450 Head	24.6	2300	1.701	39.824	1.670	39.500	1.86%	0.82%
			2310	1.715	39.792	1.679	39.480	2.14%	0.79%
			2320	1.728	39.773	1.687	39.460	2.43%	0.79%
			2400	1.806	39.488	1.756	39.289	2.85%	0.51%
			2450	1.873	39.325	1.800	39.200	4.06%	0.32%
			2480	1.901	39.232	1.833	39.162	3.71%	0.18%
			2500	1.923	39.131	1.855	39.136	3.67%	-0.01%
			2510	1.936	39.074	1.866	39.123	3.75%	-0.13%
			2535	1.971	38.954	1.893	39.092	4.12%	-0.35%
			2550	1.989	38.903	1.909	39.073	4.19%	-0.44%
			2560	2.001	38.874	1.920	39.060	4.22%	-0.48%
			2600	2.042	38.739	1.964	39.009	3.97%	-0.69%
			2650	2.108	38.502	2.018	38.945	4.46%	-1.14%
			2680	2.141	38.407	2.051	38.907	4.39%	-1.29%
			2700	2.160	38.339	2.073	38.882	4.20%	-1.40%
7/8/2025	2450 Head	20.0	2300	1.670	40.829	1.670	39.500	0.00%	3.36%
			2310	1.677	40.794	1.679	39.480	-0.12%	3.33%
			2320	1.685	40.764	1.687	39.460	-0.12%	3.30%
			2400	1.752	40.718	1.756	39.289	-0.23%	3.64%
			2450	1.791	40.578	1.800	39.200	-0.50%	3.52%
			2480	1.822	40.571	1.833	39.162	-0.60%	3.60%
			2500	1.836	40.563	1.855	39.136	-1.02%	3.65%
			2510	1.841	40.545	1.866	39.123	-1.34%	3.63%
			2535	1.855	40.468	1.893	39.092	-2.01%	3.52%
			2550	1.868	40.423	1.909	39.073	-2.15%	3.46%
			2560	1.879	40.402	1.920	39.060	-2.14%	3.44%
			2600	1.920	40.391	1.964	39.009	-2.24%	3.54%
			2650	1.948	40.276	2.018	38.945	-3.47%	3.42%
			2680	1.980	40.192	2.051	38.907	-3.46%	3.30%
			2700	2.002	40.188	2.073	38.882	-3.42%	3.36%
7/9/2025	2450 Head	24.7	2300	1.677	38.716	1.670	39.500	0.42%	-1.98%
			2310	1.688	38.685	1.679	39.480	0.54%	-2.01%
			2320	1.699	38.653	1.687	39.460	0.71%	-2.05%
			2400	1.792	38.293	1.756	39.289	2.05%	-2.54%
			2450	1.848	38.120	1.800	39.200	2.67%	-2.76%
			2480	1.882	37.963	1.833	39.162	2.67%	-3.06%
			2500	1.905	37.880	1.855	39.136	2.70%	-3.21%
			2510	1.917	37.848	1.866	39.123	2.73%	-3.26%
			2535	1.947	37.779	1.893	39.092	2.85%	-3.36%
			2550	1.964	37.725	1.909	39.073	2.88%	-3.45%
			2560	1.975	37.680	1.920	39.060	2.86%	-3.53%
			2600	2.019	37.484	1.964	39.009	2.80%	-3.91%
			2650	2.083	37.319	2.018	38.945	3.22%	-4.18%
			2680	2.115	37.190	2.051	38.907	3.12%	-4.41%
			2700	2.137	37.088	2.073	38.882	3.09%	-4.61%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
7/16/2025	2450 Head	24.7	2300	1.675	38.808	1.670	39.500	0.30%	-1.75%
			2310	1.687	38.769	1.679	39.480	0.48%	-1.80%
			2320	1.699	38.733	1.687	39.460	0.71%	-1.84%
			2400	1.788	38.407	1.756	39.289	1.82%	-2.24%
			2450	1.847	38.212	1.800	39.200	2.61%	-2.52%
			2480	1.878	38.088	1.833	39.162	2.45%	-2.74%
			2500	1.901	37.997	1.855	39.136	2.48%	-2.91%
			2510	1.914	37.951	1.866	39.123	2.57%	-3.00%
			2535	1.945	37.844	1.893	39.092	2.75%	-3.19%
			2550	1.962	37.786	1.909	39.073	2.78%	-3.29%
			2560	1.974	37.749	1.920	39.060	2.81%	-3.36%
			2600	2.017	37.597	1.964	39.009	2.70%	-3.62%
			2650	2.077	37.369	2.018	38.945	2.92%	-4.05%
			2680	2.112	37.257	2.051	38.907	2.97%	-4.24%
			2700	2.133	37.185	2.073	38.882	2.89%	-4.36%
07/30/2025	2450 Head	24.7	2300	1.688	41.255	1.670	39.500	1.08%	4.44%
			2310	1.699	41.224	1.679	39.480	1.19%	4.42%
			2320	1.710	41.193	1.687	39.460	1.36%	4.39%
			2400	1.802	40.838	1.756	39.289	2.62%	3.94%
			2450	1.857	40.666	1.800	39.200	3.17%	3.74%
			2480	1.892	40.496	1.833	39.162	3.22%	3.41%
			2500	1.917	40.412	1.855	39.136	3.34%	3.26%
			2510	1.930	40.380	1.866	39.123	3.43%	3.21%
			2535	1.959	40.305	1.893	39.092	3.49%	3.10%
			2550	1.975	40.242	1.909	39.073	3.46%	2.99%
			2560	1.985	40.191	1.920	39.060	3.39%	2.90%
			2600	2.033	39.974	1.964	39.009	3.51%	2.47%
			2650	2.094	39.826	2.018	38.945	3.77%	2.26%
			2680	2.122	39.672	2.051	38.907	3.46%	1.97%
			2700	2.146	39.561	2.073	38.882	3.52%	1.75%
08/01/2025	2450 Head	24.5	2300	1.663	39.534	1.670	39.500	-0.42%	0.09%
			2310	1.675	39.498	1.679	39.480	-0.24%	0.05%
			2320	1.687	39.461	1.687	39.460	0.00%	0.00%
			2400	1.777	39.153	1.756	39.289	1.20%	-0.35%
			2450	1.835	38.975	1.800	39.200	1.94%	-0.57%
			2480	1.867	38.857	1.833	39.162	1.85%	-0.78%
			2500	1.889	38.768	1.855	39.136	1.83%	-0.94%
			2510	1.901	38.723	1.866	39.123	1.88%	-1.02%
			2535	1.932	38.629	1.893	39.092	2.06%	-1.18%
			2550	1.950	38.581	1.909	39.073	2.15%	-1.26%
			2560	1.961	38.547	1.920	39.060	2.14%	-1.31%
			2600	2.007	38.380	1.964	39.009	2.19%	-1.61%
			2650	2.068	38.177	2.018	38.945	2.48%	-1.97%
			2680	2.102	38.067	2.051	38.907	2.49%	-2.16%
			2700	2.124	37.974	2.073	38.882	2.46%	-2.34%
08/01/2025	2450 Head	25.0	2300	1.686	39.617	1.670	39.500	0.96%	0.30%
			2310	1.697	39.582	1.679	39.480	1.07%	0.26%
			2320	1.709	39.547	1.687	39.460	1.30%	0.22%
			2400	1.799	39.226	1.756	39.289	2.45%	-0.16%
			2450	1.855	39.041	1.800	39.200	3.06%	-0.41%
			2480	1.889	38.905	1.833	39.162	3.06%	-0.66%
			2500	1.913	38.825	1.855	39.136	3.13%	-0.79%
			2510	1.926	38.787	1.866	39.123	3.22%	-0.86%
			2535	1.956	38.702	1.893	39.092	3.33%	-1.00%
			2550	1.974	38.646	1.909	39.073	3.40%	-1.09%
			2560	1.986	38.605	1.920	39.060	3.44%	-1.16%
			2600	2.034	38.417	1.964	39.009	3.56%	-1.52%
			2650	2.094	38.230	2.018	38.945	3.77%	-1.84%
			2680	2.127	38.099	2.051	38.907	3.71%	-2.08%
			2700	2.150	38.003	2.073	38.882	3.71%	-2.26%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
6/22/2025	5200-5850 Head	20.0	5150	4.464	35.260	4.608	36.050	-3.12%	-2.19%
			5160	4.479	35.257	4.618	36.040	-3.01%	-2.17%
			5170	4.487	35.237	4.629	36.030	-3.07%	-2.20%
			5180	4.495	35.206	4.635	36.009	-3.02%	-2.23%
			5190	4.505	35.186	4.645	35.998	-3.01%	-2.26%
			5200	4.516	35.171	4.655	35.986	-2.99%	-2.26%
			5210	4.527	35.161	4.666	35.975	-2.98%	-2.26%
			5220	4.538	35.146	4.676	35.963	-2.95%	-2.27%
			5240	4.569	35.095	4.696	35.940	-2.70%	-2.35%
			5250	4.579	35.078	4.706	35.929	-2.70%	-2.37%
			5260	4.587	35.075	4.717	35.917	-2.76%	-2.34%
			5270	4.593	35.065	4.727	35.906	-2.83%	-2.34%
			5280	4.604	35.047	4.737	35.894	-2.81%	-2.36%
			5290	4.614	35.025	4.748	35.883	-2.82%	-2.39%
			5300	4.629	34.994	4.758	35.871	-2.71%	-2.44%
			5310	4.640	34.971	4.768	35.860	-2.68%	-2.48%
			5320	4.651	34.950	4.778	35.849	-2.66%	-2.51%
			5500	4.849	34.633	4.963	35.643	-2.30%	-2.83%
			5510	4.859	34.627	4.973	35.632	-2.29%	-2.82%
			5520	4.871	34.627	4.983	35.620	-2.25%	-2.79%
			5530	4.880	34.592	4.994	35.609	-2.28%	-2.86%
			5540	4.893	34.551	5.004	35.597	-2.22%	-2.94%
			5550	4.905	34.520	5.014	35.586	-2.17%	-3.00%
			5560	4.920	34.514	5.024	35.574	-2.07%	-2.98%
			5580	4.939	34.502	5.045	35.551	-2.10%	-2.95%
			5600	4.959	34.437	5.065	35.529	-2.09%	-3.07%
			5610	4.971	34.423	5.076	35.518	-2.07%	-3.08%
			5620	4.982	34.422	5.086	35.506	-2.04%	-3.05%
			5640	5.008	34.388	5.106	35.483	-1.92%	-3.09%
			5660	5.039	34.322	5.127	35.460	-1.72%	-3.21%
			5670	5.049	34.303	5.137	35.449	-1.71%	-3.23%
			5680	5.056	34.299	5.147	35.437	-1.77%	-3.21%
			5690	5.061	34.289	5.158	35.426	-1.88%	-3.21%
			5700	5.076	34.278	5.168	35.414	-1.78%	-3.21%
			5710	5.089	34.260	5.178	35.403	-1.72%	-3.23%
			5720	5.099	34.247	5.188	35.391	-1.72%	-3.23%
			5745	5.128	34.190	5.214	35.363	-1.65%	-3.32%
			5750	5.137	34.179	5.219	35.357	-1.57%	-3.33%
			5755	5.143	34.164	5.224	35.351	-1.55%	-3.36%
			5765	5.155	34.144	5.234	35.340	-1.51%	-3.38%
			5775	5.165	34.133	5.245	35.329	-1.53%	-3.39%
			5785	5.177	34.124	5.255	35.317	-1.48%	-3.38%
			5795	5.189	34.105	5.265	35.305	-1.44%	-3.40%
			5800	5.195	34.092	5.270	35.300	-1.42%	-3.42%
			5805	5.200	34.082	5.275	35.294	-1.42%	-3.43%
			5825	5.217	34.067	5.296	35.271	-1.49%	-3.41%
			5835	5.227	34.051	5.305	35.230	-1.47%	-3.35%
			5845	5.237	34.027	5.315	35.210	-1.47%	-3.36%
			5850	5.243	34.014	5.320	35.200	-1.45%	-3.37%
			5855	5.247	34.004	5.325	35.197	-1.46%	-3.39%
			5865	5.261	33.982	5.336	35.190	-1.41%	-3.43%
			5875	5.280	33.959	5.347	35.183	-1.25%	-3.48%
			5885	5.298	33.941	5.357	35.177	-1.10%	-3.51%
			5905	5.311	33.913	5.379	35.163	-1.26%	-3.55%

The above measured tissue parameters were used in DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

Per April 2019 TCB Workshop Notes, single head-tissue simulating liquid specified in IEC 62209-1 is permitted to use for all SAR tests.

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9.2 Test System Verification

Prior to SAR assessment, the system is verified to $\pm 10\%$ of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in the SAR System Validation Appendix.

Table 9-2
System Verification Results – 1g

SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)
AM1	750	HEAD	06/13/2025	21.9	21.0	0.20	1057	7357	1582	1.660	8.800	8.300	-5.68%
AM1	750	HEAD	06/15/2025	22.6	20.9	0.20	1097	7357	1582	1.750	8.270	8.750	5.80%
AM1	750	HEAD	06/28/2025	22.6	21.0	0.20	1097	7357	1582	1.760	8.270	8.800	6.41%
AM1	750	HEAD	07/09/2025	22.1	21.0	0.20	1097	7357	1582	1.690	8.270	8.450	2.18%
AM12	835	HEAD	06/16/2025	21.8	20.9	0.20	4d108	7427	1408	2.070	9.800	10.350	5.61%
AM12	835	HEAD	06/22/2025	22.0	20.9	0.20	4d108	7427	1408	1.970	9.800	9.850	0.51%
AM12	1750	HEAD	06/25/2025	23.2	20.2	0.10	1040	7427	1408	3.570	36.400	35.700	-1.92%
AM15	1900	HEAD	06/20/2025	22.0	20.6	0.10	5d180	7638	467	3.740	39.200	37.400	-4.59%
AM14	2450	HEAD	06/05/2025	22.5	24.0	0.10	750	3746	1237	5.170	53.300	51.700	-3.00%
AM16	2450	HEAD	06/12/2025	21.5	23.3	0.10	750	7532	501	5.380	53.300	53.800	0.94%
AM14	2450	HEAD	06/15/2025	24.7	22.7	0.10	750	3746	1237	5.130	53.300	51.300	-3.75%
AM14	2450	HEAD	06/17/2025	22.3	24.7	0.10	750	3746	1237	4.980	53.300	49.800	-6.57%
AM11	2450	HEAD	07/08/2025	21.5	19.1	0.10	750	7551	1323	4.950	53.300	49.500	-7.13%
AM16	2450	HEAD	07/09/2025	22.6	23.4	0.10	750	7532	501	5.260	53.300	52.600	-1.31%
AM16	2450	HEAD	07/16/2025	22.6	23.4	0.10	855	7532	501	5.310	52.400	53.100	1.34%
AM14	2450	HEAD	08/01/2025	22.8	24.2	0.10	855	3746	1237	5.480	52.400	54.800	4.58%
AM14	2600	HEAD	06/05/2025	22.5	24.0	0.10	1042	3746	1237	5.730	54.900	57.300	4.37%
AM14	2600	HEAD	06/15/2025	24.7	22.7	0.10	1042	3746	1237	5.360	54.900	53.600	-2.37%
AM14	2600	HEAD	06/17/2025	22.3	24.7	0.10	1042	3746	1237	5.610	54.900	56.100	2.19%
AM14	2600	HEAD	08/01/2025	22.8	24.2	0.10	1068	3746	1237	5.700	56.500	57.000	0.88%
AM8	5250	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	4.160	77.900	83.200	6.80%
AM8	5600	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	4.290	81.800	85.800	4.89%
AM8	5750	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	4.170	80.700	83.400	3.35%
AM8	5850	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	4.040	77.400	80.800	4.39%

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Table 9-3
System Verification Results – 10g

System Verification TARGET & MEASURED													
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)
AM14	30	HEAD	07/07/2025	21.6	23.2	1.00	1004	3746	1237	0.373	0.355	0.373	5.07%
AM1	750	HEAD	06/11/2025	22.0	20.8	0.20	1057	7357	1582	1.150	5.730	5.750	0.35%
AM1	750	HEAD	06/15/2025	22.6	20.9	0.20	1097	7357	1582	1.160	5.380	5.800	7.81%
AM1	750	HEAD	06/28/2025	22.6	21.0	0.20	1097	7357	1582	1.170	5.380	5.850	8.74%
AM12	835	HEAD	06/16/2025	21.8	20.9	0.20	4d108	7427	1408	1.360	6.340	6.800	7.26%
AM12	835	HEAD	06/22/2025	22.0	20.9	0.20	4d108	7427	1408	1.230	6.340	6.150	-3.00%
AM12	835	HEAD	06/24/2025	22.7	21.0	0.20	4d108	7427	1408	1.310	6.340	6.550	3.31%
AM12	1640	HEAD	07/10/2025	23.2	20.5	0.10	321	7427	1408	1.830	18.500	18.300	-1.08%
AM12	1750	HEAD	06/25/2025	23.2	20.2	0.10	1040	7427	1408	1.890	19.100	18.900	-1.05%
AM15	1900	HEAD	06/18/2025	22.3	20.7	0.10	5d180	7638	467	2.090	20.600	20.900	1.46%
AM15	1900	HEAD	06/20/2025	22.0	20.6	0.10	5d180	7638	467	1.940	20.600	19.400	-5.83%
AM14	2450	HEAD	06/09/2025	21.9	23.7	0.10	921	3746	1237	2.400	24.300	24.000	-1.23%
AM16	2450	HEAD	06/12/2025	21.5	23.3	0.10	750	7532	501	2.430	25.100	24.300	-3.19%
AM16	2450	HEAD	06/16/2025	22.0	23.4	0.10	750	7532	501	2.480	25.100	24.800	-1.20%
AM14	2450	HEAD	06/17/2025	22.3	24.7	0.10	750	3746	1237	2.310	25.100	23.100	-7.97%
AM16	2450	HEAD	07/30/2025	22.0	23.5	0.10	855	7532	501	2.280	24.600	22.800	-7.32%
AM16	2450	HEAD	08/01/2025	23.9	22.8	0.10	855	7532	501	2.430	24.600	24.300	-1.22%
AM14	2600	HEAD	06/09/2025	21.9	23.7	0.10	1069	3746	1237	2.520	25.500	25.200	-1.18%
AM14	2600	HEAD	06/17/2025	22.3	24.7	0.10	1042	3746	1237	2.480	24.500	24.800	1.22%
AM8	5250	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	1.180	22.500	23.600	4.89%
AM8	5600	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	1.210	23.700	24.200	2.11%
AM8	5750	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	1.180	23.200	23.600	1.72%
AM8	5850	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	1.140	22.200	22.800	2.70%

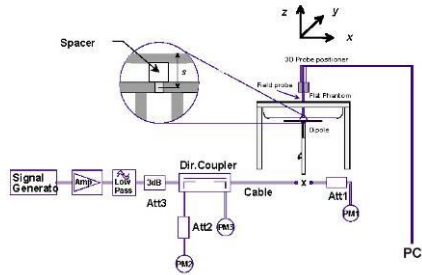


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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10 SAR DATA SUMMARY

10.1 LTE Band 71 Standalone Head SAR

Table 10-1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Head	LTE Band 71	20	QPSK	Titanium	Sport	KCWGL	1:1	0.01	680.50	133297	0.0	25.70	25.37	1	99	Front	10	0.003	1.079	0.003	0.002	A1	50.1	50.1	
Head	LTE Band 71	20	QPSK	Titanium	Sport	KCWGL	1:1	0.01	680.50	133297	1.0	24.70	24.44	50	50	Front	10	0.001	1.062	0.001	0.001		54.0		
Head	LTE Band 71	20	QPSK	Titanium	Metal Loop	KCWGL	1:1	0.09	680.50	133297	0.0	25.70	25.37	1	99	Front	10	0.002	1.079	0.002	0.001		51.9		
Head	LTE Band 71	20	QPSK	Titanium	Metal Loop	KCWGL	1:1	0.09	680.50	133297	1.0	24.70	24.44	50	50	Front	10	0.000	1.062	0.000	0.000		64.0		
Head	LTE Band 71	20	QPSK	Titanium	Fabric	KCWGL	1:1	0.06	680.50	133297	0.0	25.70	25.37	1	99	Front	10	0.002	1.079	0.002	0.001		51.9		
Head	LTE Band 71	20	QPSK	Titanium	Fabric	KCWGL	1:1	0.02	680.50	133297	1.0	24.70	24.44	50	50	Front	10	0.001	1.062	0.001	0.001		54.0		
ANSI/IEEE C63.1992 - SAFETY LIMIT																		Head							
Spatial Peak																		1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		averaged over 1 gram							

10.2 LTE Band 71 Standalone Extremity SAR

Table 10-2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Extremity	LTE Band 71	20	QPSK	Titanium	Sport	KCWGL	1:1	-0.06	680.50	133297	0.0	25.70	25.37	1	99	Back	0	0.511	1.079	0.554	0.139		31.8	31.5	
Extremity	LTE Band 71	20	QPSK	Titanium	Sport	KCWGL	1:1	-0.03	680.50	133297	1.0	24.70	24.44	50	50	Back	0	0.376	1.062	0.399	0.109		32.2		
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Loop	KCWGL	1:1	-0.03	680.50	133297	0.0	25.70	25.37	1	99	Back	0	0.526	1.079	0.568	0.142		31.7		
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Loop	KCWGL	1:1	-0.07	680.50	133297	1.0	24.70	24.44	50	50	Back	0	0.388	1.062	0.412	0.103		32.1		
Extremity	LTE Band 71	20	QPSK	Titanium	Fabric	KCWGL	1:1	-0.03	680.50	133297	0.0	25.70	25.37	1	99	Back	0	0.541	1.079	0.584	0.146	A2	31.5		
Extremity	LTE Band 71	20	QPSK	Titanium	Fabric	KCWGL	1:1	-0.02	680.50	133297	1.0	24.70	24.44	50	50	Back	0	0.411	1.062	0.436	0.109		31.8		
ANSI/IEEE C63.1992 - SAFETY LIMIT																							Extremity		
Spatial Peak																							4.0 W/kg (mW/g)		
Uncontrolled Exposure/General Population																							averaged over 10 grams		

10.1 LTE Band 12 Standalone Head SAR

Table 10-3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Head	LTE Band 12	10	QPSK	Titanium	Sport	DFV45	1:1	-0.01	707.50	23095	0.0	25.70	25.44	1	49	Front	10	0.007	1.062	0.007	0.004	A3	46.5	46.2	
Head	LTE Band 12	10	QPSK	Titanium	Sport	DFV45	1:1	-0.01	707.50	23095	1.0	24.70	24.42	25	25	Front	10	0.005	1.067	0.005	0.003		47.0		
Head	LTE Band 12	10	QPSK	Titanium	Metal Loop	DFV45	1:1	-0.01	707.50	23095	0.0	25.70	25.44	1	49	Front	10	0.005	1.062	0.005	0.003		48.0		
Head	LTE Band 12	10	QPSK	Titanium	Metal Loop	DFV45	1:1	-0.01	707.50	23095	1.0	24.70	24.42	25	25	Front	10	0.003	1.067	0.003	0.002		49.2		
Head	LTE Band 12	10	QPSK	Titanium	Fabric	DFV45	1:1	-0.06	707.50	23095	0.0	25.70	25.44	1	49	Front	10	0.006	1.062	0.006	0.004		47.2		
Head	LTE Band 12	10	QPSK	Titanium	Fabric	DFV45	1:1	-0.01	707.50	23095	1.0	24.70	24.42	25	25	Front	10	0.006	1.067	0.006	0.004		46.2		
ANSI/IEEE C63.1992 - SAFETY LIMIT																		Head							
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram							

10.2 LTE Band 12 Standalone Extremity SAR

Table 10-4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Extremity	LTE Band 12	10	QPSK	Titanium	Sport	KYH44	1:1	-0.00	707.50	23095	0.0	25.70	25.44	1	49	Back	0	0.526	1.062	0.559	0.140		31.7	30.3	
Extremity	LTE Band 12	10	QPSK	Titanium	Sport	KYH44	1:1	-0.01	707.50	23095	1.0	24.70	24.42	25	25	Back	0	0.412	1.067	0.440	0.110		31.8		
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Loop	KYH44	1:1	-0.11	707.50	23095	0.0	25.70	25.44	1	49	Back	0	0.588	1.062	0.624	0.156		31.3		
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Loop	KYH44	1:1	-0.06	707.50	23095	1.0	24.70	24.42	25	25	Back	0	0.448	1.067	0.479	0.120		31.4		
Extremity	LTE Band 12	10	QPSK	Titanium	Fabric	KYH44	1:1	-0.03	707.50	23095	0.0	25.70	25.44	1	49	Back	0	0.725	1.062	0.770	0.193	A4	30.3		
Extremity	LTE Band 12	10	QPSK	Titanium	Fabric	KYH44	1:1	-0.04	707.50	23095	1.0	24.70	24.42	25	25	Back	0	0.568	1.067	0.606	0.152		30.4		
ANSI/IEEE C63.1992 - SAFETY LIMIT																		Extremity							
Spatial Peak																		4.0 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		averaged over 10 grams							

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10.3 LTE Band 13 Standalone Head SAR

Table 10-5

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Head	LTE Band 13	10	QPSK	Titanium	Sport	J415V	1:1	0.02	782.00	23230	0.0	25.70	25.34	1	49	Front	10	0.004	1.086	0.004	0.003	A5	48.9	48.9	
Head	LTE Band 13	10	QPSK	Titanium	Sport	J415V	1:1	0.01	782.00	23230	1.0	24.70	24.43	25	25	Front	10	0.002	1.064	0.002	0.001		51.0		
Head	LTE Band 13	10	QPSK	Titanium	Metal Loop	J415V	1:1	0.07	782.00	23230	0.0	25.70	25.34	1	49	Front	10	0.002	1.086	0.002	0.001		51.9		
Head	LTE Band 13	10	QPSK	Titanium	Metal Loop	J415V	1:1	0.08	782.00	23230	1.0	24.70	24.43	25	25	Front	10	0.002	1.064	0.002	0.001		51.0		
Head	LTE Band 13	10	QPSK	Titanium	Fabric	J415V	1:1	0.03	782.00	23230	0.0	25.70	25.34	1	49	Front	10	0.004	1.086	0.004	0.003		48.9		
Head	LTE Band 13	10	QPSK	Titanium	Fabric	J415V	1:1	0.04	782.00	23230	1.0	24.70	24.43	25	25	Front	10	0.003	1.064	0.003	0.002		49.2		
ANSI/IEEE CS5.1.1992 - SAFETY LIMIT																Head									
Spatial Peak																1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																averaged over 1 gram									

10.4 LTE Band 13 Standalone Extremity SAR

Table 10-6

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Extremity	LTE Band 13	10	QPSK	Titanium	Sport	KHY44	1:1	0.01	782.00	23230	0.0	25.70	25.34	1	49	Back	0	0.576	1.086	0.626	0.157		31.2	30.9	
Extremity	LTE Band 13	10	QPSK	Titanium	Sport	KHY44	1:1	-0.04	782.00	23230	1.0	24.70	24.43	25	25	Back	0	0.450	1.064	0.479	0.120		31.4		
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Loop	KHY44	1:1	-0.02	782.00	23230	0.0	25.70	25.34	1	49	Back	0	0.622	1.086	0.675	0.169	A6	30.9		
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Loop	KHY44	1:1	-0.05	782.00	23230	1.0	24.70	24.43	25	25	Back	0	0.494	1.064	0.526	0.132		31.0		
Extremity	LTE Band 13	10	QPSK	Titanium	Fabric	KHY44	1:1	-0.02	782.00	23230	0.0	25.70	25.34	1	49	Back	0	0.593	1.086	0.644	0.161		31.1		
Extremity	LTE Band 13	10	QPSK	Titanium	Fabric	KHY44	1:1	0.01	782.00	23230	1.0	24.70	24.43	25	25	Back	0	0.467	1.064	0.497	0.124		31.2		
ANSI/IEEE CS5.1.1992 - SAFETY LIMIT																		Extremity							
Spatial Peak																		4.0 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		averaged over 10 grams							

10.5 LTE Band 14 Standalone Head SAR

Table 10-7

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Head	LTE Band 14	10	QPSK	Titanium	Sport	KCWGL	1:1	0.01	793.00	23330	0.0	25.70	25.34	1	49	Front	10	0.003	1.086	0.003	0.002	A7	50.1	50.1	
Head	LTE Band 14	10	QPSK	Titanium	Sport	KCWGL	1:1	0.01	793.00	23330	1.0	24.70	24.44	25	0	Front	10	0.002	1.062	0.002	0.001		51.0		
Head	LTE Band 14	10	QPSK	Titanium	Metal Loop	KCWGL	1:1	0.04	793.00	23330	0.0	25.70	25.34	1	49	Front	10	0.001	1.086	0.001	0.001		54.9		
Head	LTE Band 14	10	QPSK	Titanium	Metal Loop	KCWGL	1:1	0.08	793.00	23330	1.0	24.70	24.44	25	0	Front	10	0.000	1.062	0.000	0.000		64.0		
Head	LTE Band 14	10	QPSK	Titanium	Fabric	KCWGL	1:1	0.01	793.00	23330	0.0	25.70	25.34	1	49	Front	10	0.000	1.086	0.000	0.000		64.9		
Head	LTE Band 14	10	QPSK	Titanium	Fabric	KCWGL	1:1	0.07	793.00	23330	1.0	24.70	24.44	25	0	Front	10	0.000	1.062	0.000	0.000		64.0		
ANSI/IEEE CS5.1.1992 - SAFETY LIMIT																		Head							
Spatial Peak																		1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		averaged over 1 gram							

10.6 LTE Band 14 Standalone Extremity SAR

Table 10-8

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 14	10	QPSK	Titanium	Sport	JDXDG	1:1	0.04	793.00	23330	0.0	25.70	25.34	1	49	Back	0	0.546	1.086	0.593	0.148		31.5	30.5
Extremity	LTE Band 14	10	QPSK	Titanium	Sport	JDXDG	1:1	-0.02	793.00	23330	1.0	24.70	24.44	25	0	Back	0	0.405	1.062	0.430	0.108		31.9	
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Loop	JDXDG	1:1	-0.01	793.00	23330	0.0	25.70	25.34	1	49	Back	0	0.614	1.086	0.667	0.167		31.0	
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Loop	JDXDG	1:1	0.00	793.00	23330	1.0	24.70	24.44	25	0	Back	0	0.470	1.062	0.506	0.127		31.2	
Extremity	LTE Band 14	10	QPSK	Titanium	Fabric	JDXDG	1:1	-0.01	793.00	23330	0.0	25.70	25.34	1	49	Back	0	0.679	1.086	0.737	0.184	A8	30.5	
Extremity	LTE Band 14	10	QPSK	Titanium	Fabric	JDXDG	1:1	0.07	793.00	23330	1.0	24.70	24.44	25	0	Back	0	0.543	1.062	0.575	0.144		30.6	
ANSI/IEEE CS5.1.1992 - SAFETY LIMIT																Extremity								
Spatial Peak																4.0 W/kg (mW/g)								
Uncontrolled Exposure/General Population																averaged over 10 grams								

10.7 LTE Band 26 (Cell) Standalone Head SAR

Table 10-9

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 26	10	QPSK	Titanium	Sport	9RLK3	1:1	0.08	831.50	26865	0.0	25.70	25.66	1	0	Front	10	0.001	1.009	0.001	0.001	A9	55.2	54.2
Head	LTE Band 26	10	QPSK	Titanium	Sport	9RLK3	1:1	0.07	831.50	26865	1.0	24.70	24.68	25	25	Front	10	0.001	1.005	0.001	0.001		54.2	
Head	LTE Band 26	10	QPSK	Titanium	Metal Loop	9RLK3	1:1	0.04	831.50	26865	0.0	25.70	25.66	1	0	Front	10	0.001	1.009	0.001	0.001		55.2	
Head	LTE Band 26	10	QPSK	Titanium	Metal Loop	9RLK3	1:1	0.04	831.50	26865	1.0	24.70	24.68	25	25	Front	10	0.000	1.005	0.000	0.000		64.2	
Head	LTE Band 26	10	QPSK	Titanium	Fabric	9RLK3	1:1	0.02	831.50	26865	0.0	25.70	25.66	1	0	Front	10	0.001	1.009	0.001	0.001		55.2	
Head	LTE Band 26	10	QPSK	Titanium	Fabric	9RLK3	1:1	0.01	831.50	26865	1.0	24.70	24.68	25	25	Front	10	0.000	1.005	0.000	0.000		64.2	
ANSI/IEEE CS5.1.1992 - SAFETY LIMIT																Head								
Spatial Peak																1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																averaged over 1 gram								

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RF EXPOSURE REPORT

Approved by:

Technical Manager

DUT Type:

Watch

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10.8 LTE Band 26 (Cell) Standalone Extremity SAR

Table 10-10

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 26	10	QPSK	Titanium	Sport	9RLK3	1:1	-0.04	831.50	26865	0.0	25.70	25.66	1	0	Back	0	0.264	1.009	0.267	0.092			32.6
Extremity	LTE Band 26	10	QPSK	Titanium	Sport	9RLK3	2:1	-0.02	831.50	26865	1.0	24.70	24.68	25	25	Back	0	0.311	1.005	0.313	0.078			33.3
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Loop	9RLK3	1:1	0.04	831.50	26865	0.0	25.70	25.66	1	0	Back	0	0.438	1.009	0.442	0.111	A10		32.8
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Loop	9RLK3	1:1	-0.03	831.50	26865	1.0	24.70	24.68	25	25	Back	0	0.365	1.005	0.367	0.092			32.6
Extremity	LTE Band 26	10	QPSK	Titanium	Fabric	9RLK3	1:1	-0.04	831.50	26865	0.0	25.70	25.66	1	0	Back	0	0.399	1.009	0.402	0.101			33.2
Extremity	LTE Band 26	10	QPSK	Titanium	Fabric	9RLK3	1:1	-0.08	831.50	26865	1.0	24.70	24.68	25	25	Back	0	0.338	1.005	0.340	0.085			32.9
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Extremity								
Spatial Peak																4.0 W/kg (mW/g)								
Uncontrolled Exposure/General Population																averaged over 10 grams								

10.9 LTE Band 5 (Cell) Standalone Head SAR

Table 10-11

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 5	10	QPSK	Titanium	Sport	9RLK3	1:1	0.20	836.50	20525	0.0	25.70	25.60	1	0	Front	10	0.002	1.023	0.002	0.001	A11		52.1
Head	LTE Band 5	10	QPSK	Titanium	Sport	9RLK3	2:1	0.25	836.50	20525	1.0	24.70	24.66	25	25	Front	10	0.002	1.029	0.002	0.001			52.2
Head	LTE Band 5	10	QPSK	Titanium	Metal Loop	9RLK3	1:1	-0.13	836.50	20525	0.0	25.70	25.60	1	0	Front	10	0.001	1.023	0.001	0.001			55.1
Head	LTE Band 5	10	QPSK	Titanium	Metal Loop	9RLK3	1:1	0.03	836.50	20525	1.0	24.70	24.66	25	25	Front	10	0.000	1.009	0.000	0.000			64.2
Head	LTE Band 5	10	QPSK	Titanium	Fabric	9RLK3	1:1	0.01	836.50	20525	0.0	25.70	25.60	1	0	Front	10	0.000	1.023	0.000	0.000			65.1
Head	LTE Band 5	10	QPSK	Titanium	Fabric	9RLK3	1:1	0.03	836.50	20525	1.0	24.70	24.66	25	25	Front	10	0.000	1.009	0.000	0.000			64.2
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Head								
Spatial Peak																1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																averaged over 1 gram								

10.10 LTE Band 5 (Cell) Standalone Extremity SAR

Table 10-12

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 5	10	QPSK	Titanium	Sport	PM21	1:1	0.01	836.50	20525	0.0	25.70	25.60	1	0	Back	0	0.337	1.023	0.345	0.086			33.8
Extremity	LTE Band 5	10	QPSK	Titanium	Sport	PM21	1:1	-0.01	836.50	20525	1.0	24.70	24.67	25	25	Back	0	0.265	1.009	0.267	0.067			33.9
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Loop	PM21	1:1	0.02	836.50	20525	0.0	25.70	25.60	1	0	Back	0	0.423	1.023	0.433	0.108	A12		32.8
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Loop	PM21	1:1	-0.02	836.50	20525	1.0	24.70	24.66	25	25	Back	0	0.345	1.009	0.348	0.087			32.8
Extremity	LTE Band 5	10	QPSK	Titanium	Fabric	PM21	1:1	0.01	836.50	20525	0.0	25.70	25.60	1	0	Back	0	0.389	1.023	0.398	0.100			33.2
Extremity	LTE Band 5	10	QPSK	Titanium	Fabric	PM21	1:1	0.00	836.50	20525	1.0	24.70	24.66	25	25	Back	0	0.323	1.009	0.326	0.082			33.1
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Extremity								
Spatial Peak																4.0 W/kg (mW/g)								
Uncontrolled Exposure/General Population																averaged over 10 grams								

10.11 LTE Band 66 (AWS) Standalone Head SAR

Table 10-13

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 66	20	QPSK	Titanium	Sport	2WT0H	1:1	-0.04	1720.00	132072	0.0	25.20	24.23	1	50	Front	10	0.194	1.250	0.243	0.152			30.9
Head	LTE Band 66	20	QPSK	Titanium	Sport	2WT0H	1:1	-0.01	1720.00	132072	1.0	24.20	23.27	50	0	Front	10	0.161	1.239	0.202	0.126			30.7
Head	LTE Band 66	20	QPSK	Titanium	Metal Loop	2WT0H	1:1	0.00	1720.00	132072	0.0	25.20	24.23	1	50	Front	10	0.300	1.250	0.375	0.234	A13		29.0
Head	LTE Band 66	20	QPSK	Titanium	Metal Loop	2WT0H	1:1	0.01	1720.00	132072	1.0	24.20	23.27	50	0	Front	10	0.246	1.239	0.305	0.191			28.9
Head	LTE Band 66	20	QPSK	Titanium	Fabric	2WT0H	1:1	0.01	1720.00	132072	0.0	25.20	24.23	1	50	Front	10	0.225	1.250	0.281	0.176			30.2
Head	LTE Band 66	20	QPSK	Titanium	Fabric	2WT0H	1:1	-0.04	1720.00	132072	1.0	24.20	23.27	50	0	Front	10	0.195	1.239	0.237	0.148			30.0
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Head								
Spatial Peak																1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																averaged over 1 gram								

10.12 LTE Band 66 (AWS) Standalone Extremity SAR

Table 10-14

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 66	20	QPSK	Titanium	Sport	J3009	1:1	0.10	1720.00	132072	0.0	25.20	24.23	1	50	Back	0	0.114	1.250	0.143	0.036	A14		37.2
Extremity	LTE Band 66	20	QPSK	Titanium	Sport	J3009	1:1	-0.05	1720.00	132072	1.0	24.20	23.27	50	0	Back	0	0.091	1.239	0.115	0.029			37.1
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Loop	J3009	1:1	0.06	1720.00	132072	0.0	25.20	24.23	1	50	Back	0	0.079	1.250	0.099	0.025			38.8
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Loop	J3009	1:1	-0.01	1720.00	132072	1.0	24.20	23.27	50	0	Back	0	0.065	1.239	0.081	0.020			38.7
Extremity	LTE Band 66	20	QPSK	Titanium	Fabric	J3009	1:1	0.06	1720.00	132072	0.0	25.20	24.23	1	50	Back	0	0.111	1.250	0.141	0.035			37.2
Extremity	LTE Band 66	20	QPSK	Titanium	Fabric	J3009	1:1	0.14	1720.00	132072	1.0	24.20	23.27	50	0	Back	0	0.094	1.239	0.116	0.029			37.0
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Extremity								
Spatial Peak																4.0 W/kg (mW/g)								
Uncontrolled Exposure/General Population																averaged over 10 grams								

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10.13 LTE Band 25 (PCS) Standalone Head SAR

Table 10-15

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 25	20	QPSK	Titanium	Sport	HP7HX	1:1	-0.09	1860.00	26140	0.0	25.20	24.35	1	50	Front	10	0.298	1.216	0.362	0.236		29.1	27.9
Head	LTE Band 25	20	QPSK	Titanium	Sport	HP7HX	1:1	-0.09	1860.00	26140	1.0	24.20	23.28	50	25	Front	10	0.230	1.236	0.284	0.178		29.2	
Head	LTE Band 25	20	QPSK	Titanium	Metal Loop	HP7HX	1:1	0.09	1860.00	26140	0.0	25.20	24.35	1	50	Front	10	0.399	1.216	0.485	0.303	A15	27.9	
Head	LTE Band 25	20	QPSK	Titanium	Metal Loop	HP7HX	1:1	-0.07	1860.00	26140	1.0	24.20	23.28	50	25	Front	10	0.305	1.236	0.377	0.236		28.0	
Head	LTE Band 25	20	QPSK	Titanium	Fabric	HP7HX	1:1	-0.01	1860.00	26140	0.0	25.20	24.35	1	50	Front	10	0.181	1.216	0.463	0.289		28.1	
Head	LTE Band 25	20	QPSK	Titanium	Fabric	HP7HX	1:1	0.00	1860.00	26140	1.0	24.20	23.28	50	25	Front	10	0.297	1.236	0.367	0.229		28.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Head 1.6 W/kg (mW/g) averaged over 1 gram								

10.14 LTE Band 25 (PCS) Standalone Extremity SAR

Table 10-16

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Extremity	LTE Band 25	20	QPSK	Titanium	Sport	727FM	1:1	0.00	1860.00	26140	0.0	25.20	24.35	1	50	Back	0	0.085	1.216	0.103	0.036		38.6	35.3
Extremity	LTE Band 25	20	QPSK	Titanium	Sport	727FM	1:1	0.03	1860.00	26140	1.0	24.20	23.28	50	25	Back	0	0.068	1.236	0.084	0.021		38.5	
Extremity	LTE Band 25	20	QPSK	Titanium	Metal Loop	727FM	1:1	-0.01	1860.00	26140	0.0	25.20	24.35	1	50	Back	0	0.050	1.216	0.061	0.015		40.9	
Extremity	LTE Band 25	20	QPSK	Titanium	Metal Loop	727FM	1:1	-0.02	1860.00	26140	1.0	24.20	23.28	50	25	Back	0	0.039	1.236	0.048	0.012		40.9	
Extremity	LTE Band 25	20	QPSK	Titanium	Fabric	727FM	1:1	-0.05	1860.00	26140	0.0	25.20	24.35	1	50	Back	0	0.074	1.216	0.112	0.053	A16	25.5	
Extremity	LTE Band 25	20	QPSK	Titanium	Fabric	727FM	1:1	-0.03	1860.00	26140	1.0	24.20	23.28	50	25	Back	0	0.140	1.236	0.173	0.043		35.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Extremity 4.0 W/kg (mW/g) averaged over 10 grams								

10.15 LTE Band 7 Standalone Head SAR

Table 10-17

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 7	20	QPSK	Titanium	Sport	HP7XH	1:1	0.01	2510.00	20850	0.0	20.40	18.97	1	0	Front	10	0.602	1.390	0.906	0.566		19.3	18.8
Head	LTE Band 7	20	QPSK	Titanium	Sport	HP7XH	1:1	-0.01	2510.00	21100	0.0	20.40	19.07	1	50	Front	10	0.701	1.358	0.952	0.595		19.3	
Head	LTE Band 7	20	QPSK	Titanium	Sport	HP7XH	1:1	-0.04	2560.00	21350	0.0	20.40	19.09	1	50	Front	10	0.635	1.352	0.859	0.537		19.8	
Head	LTE Band 7	20	QPSK	Titanium	Sport	HP7XH	1:1	-0.03	2510.00	20850	0.0	20.40	19.10	50	0	Front	10	0.674	1.349	0.909	0.568		19.5	
Head	LTE Band 7	20	QPSK	Titanium	Sport	HP7XH	1:1	-0.03	2510.00	21100	0.0	20.40	18.95	50	25	Front	10	0.695	1.396	0.970	0.606		19.2	
Head	LTE Band 7	20	QPSK	Titanium	Sport	HP7XH	1:1	0.02	2560.00	21350	0.0	20.40	19.12	50	0	Front	10	0.723	1.343	0.971	0.607		19.2	
Head	LTE Band 7	20	QPSK	Titanium	Sport	HP7XH	1:1	-0.07	2560.00	21350	0.0	20.40	18.76	100	0	Front	10	0.616	1.459	0.899	0.562		19.6	
Head	LTE Band 7	20	QPSK	Titanium	Metal Loops	HP7XH	1:1	0.00	2510.00	20850	0.0	20.40	18.97	1	0	Front	10	0.661	1.390	0.919	0.574		19.5	
Head	LTE Band 7	20	QPSK	Titanium	Metal Loops	HP7XH	1:1	-0.01	2510.00	21100	0.0	20.40	19.07	1	50	Front	10	0.621	1.358	0.846	0.529		19.8	
Head	LTE Band 7	20	QPSK	Titanium	Metal Loops	HP7XH	1:1	-0.04	2560.00	21350	0.0	20.40	19.09	1	50	Front	10	0.580	1.352	0.784	0.490		20.2	
Head	LTE Band 7	20	QPSK	Titanium	Metal Loops	HP7XH	1:1	0.01	2510.00	20850	0.0	20.40	19.10	50	0	Front	10	0.632	1.349	0.853	0.533		19.8	
Head	LTE Band 7	20	QPSK	Titanium	Metal Loops	HP7XH	1:1	-0.03	2510.00	21100	0.0	20.40	18.95	50	25	Front	10	0.623	1.396	0.870	0.544		19.7	
Head	LTE Band 7	20	QPSK	Titanium	Metal Loops	HP7XH	1:1	-0.12	2560.00	21350	0.0	20.40	19.12	50	0	Front	10	0.589	1.341	0.791	0.494		20.1	
Head	LTE Band 7	20	QPSK	Titanium	Metal Loops	HP7XH	1:1	0.01	2560.00	21350	0.0	20.40	18.76	100	0	Front	10	0.677	1.459	0.988	0.618		19.2	
Head	LTE Band 7	20	QPSK	Titanium	Fabric	HP7XH	1:1	-0.01	2510.00	20850	0.0	20.40	18.97	1	0	Front	10	0.734	1.390	1.020	0.638		19.0	
Head	LTE Band 7	20	QPSK	Titanium	Fabric	HP7XH	1:1	-0.01	2510.00	21100	0.0	20.40	19.07	1	50	Front	10	0.774	1.358	0.981	0.614		19.2	
Head	LTE Band 7	20	QPSK	Titanium	Fabric	HP7XH	1:1	0.00	2560.00	21350	0.0	20.40	19.09	1	50	Front	10	0.682	1.352	0.922	0.576		19.5	
Head	LTE Band 7	20	QPSK	Titanium	Fabric	HP7XH	1:1	-0.04	2510.00	20850	0.0	20.40	19.10	50	0	Front	10	0.747	1.349	1.008	0.630	A17	19.1	
Head	LTE Band 7	20	QPSK	Titanium	Fabric	HP7XH	1:1	0.02	2510.00	21100	0.0	20.40	18.95	50	25	Front	10	0.721	1.396	1.007	0.629		19.1	
Head	LTE Band 7	20	QPSK	Titanium	Fabric	HP7XH	1:1	-0.02	2560.00	21350	0.0	20.40	19.12	50	0	Front	10	0.684	1.341	0.919	0.574		19.5	
Head	LTE Band 7	20	QPSK	Titanium	Fabric	HP7XH	1:1	-0.04	2560.00	21350	0.0	20.40	18.76	100	0	Front	10	0.740	1.459	1.080	0.675		18.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Head 1.6 W/kg (mW/g) averaged over 1 gram								

10.16 LTE Band 7 Standalone Extremity SAR

Table 10-18

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Extremity	LTE Band 7	20	QPSK	Titanium	Sport	J3009	1:1	0.08	2510.00	21100	0.0	25.20	24.62	1	50	Back	0	0.145	1.143	0.166	0.042	A18	36.5	36.5
Extremity	LTE Band 7	20	QPSK	Titanium	Sport	J3009	1:1	-0.01	2510.00	21100	0.0	24.20	23.70	50	25	Back	0	0.101	1.122	0.116	0.029		37.1	
Extremity	LTE Band 7	20	QPSK	Titanium	Metal Loop	J3009	1:1	0.14	2510.00	21100	0.0	25.20	24.62	1	50	Back	0	0.093	1.143	0.106	0.027		38.4	
Extremity	LTE Band 7	20	QPSK	Titanium	Metal Loop	J3009	1:1	0.04	2510.00	21100	1.0	24.20	23.70	50	25	Back	0	0.072	1.122	0.081	0.020		38.6	
Extremity	LTE Band 7	20	QPSK	Titanium	Fabric	J3009	1:1	-0.06	2510.00	21100	0.0	25.20	24.62	1	50	Back	0	0.060	1.143	0.069	0.017		40.3	
Extremity	LTE Band 7	20	QPSK	Titanium	Fabric	J3009	1:1	-0.04	2510.00	21100	1.0	24.20	23.70	50	25	Back	0	0.044	1.122	0.049	0.012		40.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Extremity 4.0 W/kg (mW/g) averaged over 10 grams								

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Approved by:

Technical Manager

DUT Type:

Watch

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10.17 LTE Band 41 Standalone Head SAR

Table 10-19

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power DfT [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Head	LTE Band 41	20	QPSK	Titanium	Sport	95999	1:1.58	0.00	2506.00	39750	0.0	23.20	22.17	1	50	Front	0	0.660	1.268	0.837	0.523		20.7	
Head	LTE Band 41	20	QPSK	Titanium	Sport	95999	1:1.58	-0.01	2549.50	40185	0.0	23.20	21.98	1	50	Front	0	0.665	1.324	0.880	0.550		20.5	
Head	LTE Band 41	20	QPSK	Titanium	Sport	95999	1:1.58	-0.01	2593.00	40185	0.0	23.20	21.98	1	50	Front	0	0.702	1.608	1.032	0.792		20.3	
Head	LTE Band 41	20	QPSK	Titanium	Sport	95999	1:1.58	0.01	2636.50	41055	0.0	23.20	21.65	1	50	Front	0	0.665	1.429	0.936	0.585		20.2	
Head	LTE Band 41	20	QPSK	Titanium	Sport	95999	1:1.58	-0.04	2680.00	41490	0.0	23.20	21.52	1	50	Front	0	0.577	1.472	0.849	0.531		20.6	
Head	LTE Band 41	20	QPSK	Titanium	Sport	95999	1:1.58	0.01	2593.00	39750	0.0	23.20	22.19	50	0	Front	0	0.626	1.262	0.796	0.494		20.9	
Head	LTE Band 41	20	QPSK	Titanium	Sport	95999	1:1.58	0.00	2549.50	40185	0.0	23.20	21.98	50	25	Front	0	0.665	1.324	0.880	0.550		20.4	
Head	LTE Band 41	20	QPSK	Titanium	Sport	95999	1:1.58	-0.03	2593.00	40620	0.0	23.20	21.95	50	25	Front	0	0.787	1.334	1.050	0.656		19.7	
Head	LTE Band 41	20	QPSK	Titanium	Sport	95999	1:1.58	-0.03	2636.50	41055	0.0	23.20	21.63	50	25	Front	0	0.648	1.435	0.903	0.581		20.2	
Head	LTE Band 41	20	QPSK	Titanium	Sport	95999	1:1.58	-0.01	2680.00	41490	0.0	23.20	21.55	50	25	Front	0	0.562	1.462	0.822	0.520		20.7	
Head	LTE Band 41	20	QPSK	Titanium	Sport	95999	1:1.58	0.02	2506.00	39750	0.0	23.20	22.13	100	0	Front	0	0.747	1.279	0.955	0.597		20.1	
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	95999	1:1.58	0.01	2593.00	39750	0.0	23.20	22.17	1	50	Front	0	0.643	1.268	0.815	0.509		20.8	
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	95999	1:1.58	-0.01	2549.50	40185	0.0	23.20	21.98	1	50	Front	0	0.685	1.324	0.907	0.567		20.3	
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	95999	1:1.58	-0.01	2593.00	40620	0.0	23.20	21.98	1	50	Front	0	0.688	1.334	0.907	0.568		20.2	
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	95999	1:1.58	-0.02	2636.50	41055	0.0	23.20	21.65	1	50	Front	0	0.542	1.429	0.775	0.484		21.0	
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	95999	1:1.58	-0.01	2680.00	41490	0.0	23.20	21.52	1	50	Front	0	0.503	1.472	0.740	0.463		21.2	
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	95999	1:1.58	-0.02	2680.00	39750	0.0	23.20	22.19	50	0	Front	0	0.669	1.262	0.844	0.528		20.7	
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	95999	1:1.58	-0.01	2636.50	40185	0.0	23.20	21.98	50	0	Front	0	0.688	1.334	0.907	0.568		20.2	
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	95999	1:1.58	-0.01	2593.00	40620	0.0	23.20	21.95	50	25	Front	0	0.588	1.334	0.784	0.490		21.0	
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	95999	1:1.58	0.02	2636.50	41055	0.0	23.20	21.63	50	25	Front	0	0.557	1.435	0.799	0.499		20.9	
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	95999	1:1.58	-0.06	2680.00	41490	0.0	23.20	21.55	50	25	Front	0	0.520	1.462	0.734	0.459		21.3	
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	95999	1:1.58	-0.02	2506.00	39750	0.0	23.20	22.13	100	0	Front	0	0.596	1.279	0.762	0.476		21.1	
Head	LTE Band 41	20	QPSK	Titanium	Fabric	95999	1:1.58	-0.04	2506.00	39750	0.0	23.20	22.17	1	50	Front	0	0.821	1.268	1.041	0.651		19.7	
Head	LTE Band 41	20	QPSK	Titanium	Fabric	95999	1:1.58	-0.04	2549.50	40185	0.0	23.20	21.98	1	50	Front	0	0.777	1.324	1.029	0.643		19.8	
Head	LTE Band 41	20	QPSK	Titanium	Fabric	95999	1:1.58	-0.01	2593.00	40620	0.0	23.20	21.89	1	50	Front	0	0.817	1.352	1.050	0.691		19.5	
Head	LTE Band 41	20	QPSK	Titanium	Fabric	95999	1:1.58	0.01	2636.50	41055	0.0	23.20	21.65	1	50	Front	0	0.716	1.429	1.023	0.639		19.8	
Head	LTE Band 41	20	QPSK	Titanium	Fabric	95999	1:1.58	-0.04	2680.00	41490	0.0	23.20	21.52	1	50	Front	0	0.649	1.472	0.955	0.597		20.1	
Head	LTE Band 41	20	QPSK	Titanium	Fabric	95999	1:1.58	-0.01	2506.00	39750	0.0	23.20	22.19	50	0	Front	0	0.836	1.262	1.055	0.699		19.7	
Head	LTE Band 41	20	QPSK	Titanium	Fabric	95999	1:1.58	-0.01	2549.50	40185	0.0	23.20	21.98	50	25	Front	0	0.785	1.334	1.044	0.683		19.7	
Head	LTE Band 41	20	QPSK	Titanium	Fabric	95999	1:1.58	-0.02	2593.00	40620	0.0	23.20	21.95	50	25	Front	0	0.866	1.334	1.153	0.722	A19	19.3	
Head	LTE Band 41	20	QPSK	Titanium	Fabric	95999	1:1.58	-0.02	2636.50	41055	0.0	23.20	21.63	50	25	Front	0	0.769	1.435	1.070	0.675		19.6	
Head	LTE Band 41	20	QPSK	Titanium	Fabric	95999	1:1.58	-0.01	2680.00	41490	0.0	23.20	21.52	50	25	Front	0	0.725	1.462	1.040	0.680		19.7	
Head	LTE Band 41	20	QPSK	Titanium	Fabric	95999	1:1.58	0.00	2506.00	39750	0.0	23.20	21.55	50	25	Front	0	0.657	1.462	0.965	0.601		19.7	
Head	LTE Band 41	20	QPSK	Titanium	Fabric	95999	1:1.58	0.01	2636.50	41055	0.0	23.20	22.13	100	0	Front	0	0.817	1.279	1.045	0.511		20.1	
ANSI/IEEE C63.19-2019 SAFETY LIMIT																							Head	
Serial Port																							1.6 W/kg (mW/g)	
Uncontrolled Exposure/General Population																							averaged over 1 gram	

Note: Blue entry represents variability measurement

10.18 LTE Band 41 Standalone Extremity SAR

Table 10-20

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RIS Size	RIS Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported SAR [W/kg]	Exposure Ratio [dB]	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Extremity	LTE Band 41	20	QPSK	Titanium	Sport	9WQRF	1:1.58	0.02	2506.00	39750	0.0	25.20	24.60	1	50	Back	0	0.085	1.148	0.098	0.025	A20	36.8	36.4
Extremity	LTE Band 41	20	QPSK	Titanium	Sport	9WQRF	1:1.58	-0.09	2506.00	39750	1.0	24.20	23.54	50	0	Back	0	0.074	1.164	0.086	0.022		36.4	
Extremity	LTE Band 41	20	QPSK	Titanium	Metal Loop	9WQRF	1:1.58	0.04	2506.00	39750	0.0	25.20	24.60	1	50	Back	0	0.019	1.148	0.022	0.006		43.3	
Extremity	LTE Band 41	20	QPSK	Titanium	Metal Loop	9WQRF	1:1.58	0.03	2506.00	39750	1.0	24.20	23.54	50	0	Back	0	0.011	1.164	0.015	0.004		43.9	
Extremity	LTE Band 41	20	QPSK	Titanium	Fabric	9WQRF	1:1.58	0.00	2506.00	39750	0.0	25.20	24.60	1	50	Back	0	0.052	1.148	0.050	0.015		39.0	
Extremity	LTE Band 41	20	QPSK	Titanium	Fabric	9WQRF	1:1.58	-0.17	2506.00	39750	1.0	24.20	23.54	50	0	Back	0	0.046	1.164	0.054	0.014		38.4	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																							Spatial Peak Uncontrolled Exposure / General Population	
																		Extremity 4.0 W/kg (mW/g) averaged over 10 grams						

10.19 LTE Band 53 Standalone Head SAR

Table 10-21

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Limit [dBm]	Overall Rating
Head	LTE Band 53	10	QPSK	Titanium	Sport	2KC66	1:1	0.05	2489.20	60197	0.0	21.20	20.01	1	49	Front	0	0.006	1.315	0.003	0.005	A21	42.2	41.9
Head	LTE Band 53	10	QPSK	Titanium	Sport	2KC66	1:1	0.09	2489.20	60197	1.0	20.20	19.79	25	25	Front	0	0.006	1.114	0.007	0.004		41.9	
Head	LTE Band 53	10	QPSK	Titanium	Metal Loop	2KC66	1:1	0.01	2489.20	60197	0.0	21.20	20.01	1	49	Front	0	0.005	1.315	0.007	0.004		43.0	
Head	LTE Band 53	10	QPSK	Titanium	Metal Loop	2KC66	1:1	0.08	2489.20	60197	1.0	20.20	19.79	25	25	Front	0	0.004	1.114	0.004	0.003		43.7	
Head	LTE Band 53	10	QPSK	Titanium	Fabric	2KC66	1:1	0.09	2489.20	60197	0.0	21.20	20.01	1	49	Front	0	0.005	1.315	0.007	0.004		43.0	
Head	LTE Band 53	10	QPSK	Titanium	Fabric	2KC66	1:1	0.07	2489.20	60197	1.0	20.20	19.79	25	25	Front	0	0.004	1.114	0.004	0.003		43.7	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																				Spatial Peak				
Uncontrolled Exposure / General Population																		Head						
																		1.6 W/kg (mW/g) averaged over 6g/mg						

10.20 LTE Band 53 Standalone Extremity SAR

Table 10-22

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RF Size	RF Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio [10g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]			
Extremity	LTE Band 53	10	QPSK	Titanium	Sport	J30C9	1:1	-0.01	2489.20	60197	0.0	21.20	20.01	1	49	Back	0	0.230	1.315	0.302	0.076		30.3	29.0			
Extremity	LTE Band 53	10	QPSK	Titanium	Sport	J30C9	1:1	-0.04	2489.20	60197	1.0	20.20	19.73	25	25	Back	0	0.222	1.114	0.247	0.062		30.2				
Extremity	LTE Band 53	10	QPSK	Titanium	Metal Loop	J30C9	1:1	-0.03	2489.20	60197	0.0	21.20	20.01	1	49	Back	0	0.247	1.315	0.325	0.081		30.0				
Extremity	LTE Band 53	10	QPSK	Titanium	Metal Loop	J30C9	1:1	-0.10	2489.20	60197	1.0	20.20	19.73	25	25	Back	0	0.226	1.114	0.252	0.063		30.1				
Extremity	LTE Band 53	10	QPSK	Titanium	Fabric	J30C9	1:1	-0.01	2489.20	60197	0.0	21.20	20.01	1	49	Back	0	0.241	1.315	0.291	0.080	A22	29.2				
Extremity	LTE Band 53	10	QPSK	Titanium	Fabric	J30C9	1:1	-0.02	2489.20	60197	1.0	20.20	19.73	25	25	Back	0	0.294	1.114	0.328	0.082		30.0				
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																				Extremity							
Spatial Peak																		4.0 W/kg (mW/g)									
Uncontrolled Exposure (General Population)																							4.0 W/kg (mW/g)				

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10.21 NR Band n71 Standalone Head SAR

Table 10-23

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n71	20	QPSK	Titanium	Sport	727FM	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	25.70	24.57	1	1	Front	30	0.002	1.297	0.003	0.002		51.1	47.9
Head	NR Band n71	20	QPSK	Titanium	Sport	727FM	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	25.70	24.40	50	28	Front	10	0.001	1.349	0.001	0.001		53.9	
Head	NR Band n71	20	QPSK	Titanium	Metal Loop	727FM	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	25.70	24.57	1	1	Front	10	0.000	1.297	0.000	0.000		64.1	
Head	NR Band n71	20	QPSK	Titanium	Metal Loop	727FM	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	25.70	24.40	50	28	Front	10	0.000	1.349	0.000	0.000		63.9	
Head	NR Band n71	20	QPSK	Titanium	Fabric	727FM	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	25.70	24.57	1	1	Front	10	0.003	1.297	0.004	0.003		49.3	
Head	NR Band n71	20	QPSK	Titanium	Fabric	727FM	1:1	0.08	680.50	136100	DFT-s-OFDM	0.0	25.70	24.40	50	28	Front	10	0.004	1.349	0.005	0.003	A23	47.9	
Head	NR Band n71	20	QPSK	Titanium	Fabric	727FM	1:1	0.01	680.50	136100	CP-OFDM	1.5	24.20	23.11	1	1	Front	10	0.003	1.285	0.004	0.003		47.9	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Head 1.6 W/kg (mW/g) averaged over 1 gram						

10.22 NR Band n71 Standalone Extremity SAR

Table 10-24

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall PdBm	
Extremity	NR Band n71	20	QPSK	Titanium	Sport	JDNDG	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	25.70	24.57	1	1	Back	0	0.224	1.297	0.291	0.073		34.6	31.3	
Extremity	NR Band n71	20	QPSK	Titanium	Sport	JDNDG	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	25.70	24.40	50	28	Back	0	0.287	1.349	0.387	0.097		33.3		
Extremity	NR Band n71	20	QPSK	Titanium	Metal Loop	JDNDG	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	25.70	24.57	1	1	Back	0	0.355	1.297	0.460	0.135		32.6		
Extremity	NR Band n71	20	QPSK	Titanium	Metal Loop	JDNDG	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	25.70	24.40	50	28	Back	0	0.432	1.349	0.583	0.146		31.6		
Extremity	NR Band n71	20	QPSK	Titanium	Fabric	JDNDG	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	25.70	24.57	1	1	Back	0	0.388	1.297	0.503	0.126		32.2		
Extremity	NR Band n71	20	QPSK	Titanium	Fabric	JDNDG	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	25.70	24.40	50	28	Back	0	0.462	1.349	0.623	0.136	A24	31.3		
Extremity	NR Band n71	20	QPSK	Titanium	Fabric	JDNDG	1:1	0.00	680.50	136100	CP-OFDM	1.5	24.20	23.11	1	1	Back	0	0.320	1.285	0.411	0.103		31.6		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																			Extremity							
Spatial Peak																			4.0 W/kg (mW/g)							
Uncontrolled Exposure/General Population																			averaged over 10 grams							

10.23 NR Band n12 Standalone Head SAR

Table 10-25

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Pbm [dBm]	
Head	NR Band n12	15	QPSK	Titanium	Sport	727FM	1:1	0.04	707.50	141500	DFT-s-OFDM	0.0	25.70	24.69	1	40	Front	10	0.001	1.262	0.001	0.001		54.2	48.3	
Head	NR Band n12	15	QPSK	Titanium	Sport	727FM	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	25.70	24.75	36	22	Front	10	0.001	1.245	0.001	0.001		51.1		
Head	NR Band n12	15	QPSK	Titanium	Metal Loop	727FM	1:1	0.08	707.50	141500	DFT-s-OFDM	0.0	25.70	24.69	1	40	Front	10	0.000	1.262	0.000	0.000		64.2		
Head	NR Band n12	15	QPSK	Titanium	Metal Loop	727FM	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	25.70	24.75	36	22	Front	10	0.000	1.245	0.000	0.000		64.3		
Head	NR Band n12	15	QPSK	Titanium	Fabric	727FM	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	25.70	24.69	1	40	Front	10	0.001	1.262	0.001	0.001		54.2		
Head	NR Band n12	15	QPSK	Titanium	Fabric	727FM	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.75	36	22	Front	10	0.004	1.245	0.005	0.003	A25	48.3		
Head	NR Band n12	15	QPSK	Titanium	Fabric	727FM	1:1	0.01	707.50	141500	CP-OFDM	1.5	24.20	23.35	1	1	Front	10	0.002	1.216	0.002	0.001		49.9		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																			Head							
Spatial Peak																			1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																			averaged over 1 gram							

10.24 NR Band n12 Standalone Extremity SAR

Table 10-26

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Pbm [dBm]
Extremity	NR Band n12	15	QPSK	Titanium	Sport	KCWGL	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.69	1	40	Back	0	0.437	1.262	0.551	0.188		31.8	30.1
Extremity	NR Band n12	15	QPSK	Titanium	Sport	KCWGL	1:1	0.04	707.50	141500	DFT-s-OFDM	0.0	25.70	24.75	36	22	Back	0	0.422	1.245	0.525	0.131		32.0	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Loop	KCWGL	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	25.70	24.69	1	40	Back	0	0.534	1.262	0.674	0.169		30.9	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Loop	KCWGL	1:1	0.04	707.50	141500	DFT-s-OFDM	0.0	25.70	24.75	36	22	Back	0	0.540	1.245	0.672	0.168		30.9	
Extremity	NR Band n12	15	QPSK	Titanium	Fabric	KCWGL	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	25.70	24.69	1	40	Back	0	0.640	1.262	0.808	0.202	A26	30.1	
Extremity	NR Band n12	15	QPSK	Titanium	Fabric	KCWGL	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	25.70	24.75	36	22	Back	0	0.619	1.245	0.771	0.193		30.3	
Extremity	NR Band n12	15	QPSK	Titanium	Fabric	KCWGL	1:1	-0.01	707.50	141500	CP-OFDM	1.5	24.20	23.35	1	1	Back	0	0.447	1.216	0.544	0.136		30.4	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																			Extremity						
Spatial Peak																			4.0 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 10 grams						

10.25 NR Band n14 Standalone Head SAR

Table 10-27

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n14	10	QPSK	Titanium	Sport	KYH44	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.64	1	1	Front	10	0.005	1.276	0.006	0.004		47.2	46.3
Head	NR Band n14	10	QPSK	Titanium	Sport	KYH44	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.57	25	14	Front	10	0.003	1.297	0.004	0.003		49.3	
Head	NR Band n14	10	QPSK	Titanium	Metal Loop	KYH44	1:1	0.06	793.00	158600	DFT-s-OFDM	0.0	25.70	24.64	1	1	Front	10	0.004	1.276	0.005	0.003		48.2	
Head	NR Band n14	10	QPSK	Titanium	Metal Loop	KYH44	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	25.70	24.57	25	14	Front	10	0.004	1.297	0.008	0.005	A27	46.3	
Head	NR Band n14	10	QPSK	Titanium	Metal Loop	KYH44	1:1	0.01	793.00	158600	CP-OFDM	1.5	24.20	23.30	1	1	Front	10	0.004	1.259	0.005	0.003		46.7	
Head	NR Band n14	10	QPSK	Titanium	Fabric	KYH44	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.64	1	1	Front	10	0.006	1.276	0.008	0.005		46.4	
Head	NR Band n14	10	QPSK	Titanium	Fabric	KYH44	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.57	25	14	Front	10	0.003	1.297	0.004	0.003		49.3	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Head 1.6 W/kg (mW/g) averaged over 1 gram						

FCC ID: BCG-A3281

RF EXPOSURE REPORT

Approved by:

Technical Manager

DUT Type:

Watch

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10.26 NR Band n14 Standalone Extremity SAR

Table 10-28

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Plimit [dBm]
Extremity	NR Band n14	10	QPSK	Titanium	Sport	KCWGL	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	25.70	24.64	1	1	Back	0	0.467	1.276	0.596	0.149		31.5	
Extremity	NR Band n14	10	QPSK	Titanium	Sport	KCWGL	1:1	-0.05	793.00	158600	DFT-s-OFDM	0.0	25.70	24.57	25	14	Back	0	0.474	1.297	0.635	0.154		31.3	
Extremity	NR Band n14	10	QPSK	Titanium	Metal Loop	KCWGL	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	25.70	24.64	1	1	Back	0	0.518	1.276	0.661	0.165		31.0	
Extremity	NR Band n14	10	QPSK	Titanium	Metal Loop	KCWGL	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	25.70	24.57	25	14	Back	0	0.496	1.297	0.643	0.161		31.1	
Extremity	NR Band n14	10	QPSK	Titanium	Fabric	KCWGL	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	25.70	24.64	1	1	Back	0	0.614	1.276	0.783	0.196		30.3	
Extremity	NR Band n14	10	QPSK	Titanium	Fabric	KCWGL	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	25.70	24.57	25	14	Back	0	0.616	1.297	0.799	0.200	A28	30.2	
Extremity	NR Band n14	10	QPSK	Titanium	Fabric	KCWGL	1:1	0.00	793.00	158600	CP-OFDM	1.5	24.20	23.20	1	1	Back	0	0.443	1.259	0.555	0.139		30.3	
ANSI/IEEE C95.1.1.1992 - SAFETY LIMIT																			Extremity						
Spatial Peak																			4.0 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 10 grams						

10.27 NR Band n26 Standalone Head SAR

Table 10-29

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Plimit [dBm]
Head	NR Band n26	20	QPSK	Titanium	Sport	ZKCF6	1:1	0.07	831.50	166300	DFT-s-OFDM	0.0	25.70	24.14	1	53	Front	10	0.002	1.432	0.003	0.002	A29	50.7	
Head	NR Band n26	20	QPSK	Titanium	Sport	ZKCF6	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	25.70	24.08	50	28	Front	10	0.001	1.452	0.001	0.001		53.6	
Head	NR Band n26	20	QPSK	Titanium	Sport	ZKCF6	1:1	0.02	831.50	166300	CP-OFDM	1.5	24.20	22.98	1	1	Front	10	0.000	1.324	0.000	0.000		62.5	
Head	NR Band n26	20	QPSK	Titanium	Metal Loop	ZKCF6	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.14	1	53	Front	10	0.000	1.432	0.000	0.000		63.7	
Head	NR Band n26	20	QPSK	Titanium	Metal Loop	ZKCF6	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	25.70	24.08	50	28	Front	10	0.000	1.452	0.000	0.000		65.6	
Head	NR Band n26	20	QPSK	Titanium	Fabric	ZKCF6	1:1	0.05	831.50	166300	DFT-s-OFDM	0.0	25.70	24.14	1	53	Front	10	0.001	1.432	0.001	0.001		53.7	
Head	NR Band n26	20	QPSK	Titanium	Fabric	ZKCF6	1:1	0.04	831.50	166300	DFT-s-OFDM	0.0	25.70	24.08	50	28	Front	10	0.000	1.452	0.000	0.000		63.6	
ANSI/IEEE C95.1.1.1992 - SAFETY LIMIT																			Head						
Spatial Peak																			1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 1 gram						

10.28 NR Band n26 Standalone Extremity SAR

Table 10-30

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Plimit [dBm]
Extremity	NR Band n26	20	QPSK	Titanium	Sport	9RLK3	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	25.70	24.14	1	53	Back	0	0.283	1.432	0.405	0.101		33.1	
Extremity	NR Band n26	20	QPSK	Titanium	Sport	9RLK3	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.08	50	28	Back	0	0.295	1.452	0.426	0.107		32.9	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Loop	9RLK3	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	25.70	24.14	1	53	Back	0	0.334	1.432	0.478	0.120		32.4	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Loop	9RLK3	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	25.70	24.08	50	28	Back	0	0.356	1.452	0.517	0.129	A30	32.1	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Loop	9RLK3	1:1	-0.04	831.50	166300	CP-OFDM	1.5	24.20	22.98	1	1	Back	0	0.240	1.324	0.305	0.076		32.5	
Extremity	NR Band n26	20	QPSK	Titanium	Fabric	9RLK3	1:1	-0.09	831.50	166300	DFT-s-OFDM	0.0	25.70	24.14	1	53	Back	0	0.335	1.432	0.480	0.120		32.4	
Extremity	NR Band n26	20	QPSK	Titanium	Fabric	9RLK3	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	25.70	24.08	50	28	Back	0	0.349	1.452	0.507	0.127		32.2	
ANSI/IEEE C95.1.1.1992 - SAFETY LIMIT																			Extremity						
Spatial Peak																			4.0 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 10 grams						

10.29 NR Band n5 Standalone Head SAR

Table 10-31

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Plimit [dBm]
Head	NR Band n5	20	QPSK	Titanium	Sport	ZKCF6	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	25.70	24.40	1	1	Front	10	0.001	1.349	0.001	0.001	A31	53.9	
Head	NR Band n5	20	QPSK	Titanium	Sport	ZKCF6	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	25.70	24.27	50	28	Front	10	0.001	1.390	0.001	0.001		53.8	
Head	NR Band n5	20	QPSK	Titanium	Sport	ZKCF6	1:1	0.08	836.50	167300	CP-OFDM	1.5	24.20	23.01	1	1	Front	10	0.000	1.312	0.000	0.000		62.6	
Head	NR Band n5	20	QPSK	Titanium	Metal Loop	ZKCF6	1:1	0.07	836.50	167300	DFT-s-OFDM	0.0	25.70	24.40	1	1	Front	10	0.000	1.349	0.000	0.000		63.9	
Head	NR Band n5	20	QPSK	Titanium	Metal Loop	ZKCF6	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	25.70	24.27	50	28	Front	10	0.001	1.390	0.001	0.001		53.8	
Head	NR Band n5	20	QPSK	Titanium	Fabric	ZKCF6	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.40	1	1	Front	10	0.000	1.349	0.000	0.000		63.9	
Head	NR Band n5	20	QPSK	Titanium	Fabric	ZKCF6	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.27	50	28	Front	10	0.000	1.390	0.000	0.000		63.8	
ANSI/IEEE C95.1.1.1992 - SAFETY LIMIT																			Head						
Spatial Peak																			1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 1 gram						

10.30 NR Band n5 Standalone Extremity SAR

Table 10-32

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Plimit [dBm]
Extremity	NR Band n5	20	QPSK	Titanium	Sport	9RLK3	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.40	1	1	Back	0	0.272	1.349	0.367	0.092		33.6	
Extremity	NR Band n5	20	QPSK	Titanium	Sport	9RLK3	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	25.70	24.27	50	28	Back	0	0.303	1.390	0.421	0.105		33.0	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Loop	9RLK3	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.40	1	1	Back	0	0.326	1.349	0.440	0.110		32.8	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Loop	9RLK3	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.27	50	28	Back	0	0.302	1.390	0.414	0.109	A32	32.1	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Loop	9RLK3	1:1	-0.01	836.50	167300	CP-OFDM	1.5	24.20	23.02	1	1	Back	0	0.227	1.312	0.298	0.075		33.0	
Extremity	NR Band n5	20	QPSK	Titanium	Fabric	9RLK3	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.40	1	1	Back	0	0.300	1.349	0.405	0.101		33.1	
Extremity	NR Band n5	20	QPSK	Titanium	Fabric	9RLK3	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.27	50	28	Back	0	0.324	1.390	0.461	0.115		32.6	
ANSI/IEEE C95.1.1.1992 - SAFETY LIMIT												Extremity													
Spatial Peak												4.0 W/kg [mW/g]													
Uncontrolled Exposure/General Population												averaged over 10 grams													

10.31 NR Band n66 Standalone Head SAR

Table 10-33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Plimit [dBm]
Head	NR Band n66	20	QPSK	Titanium	Sport	ZWT0H	1:1	-0.09	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.24	1	53	Front	10	0.163	1.247	0.203	0.127		31.7	
Head	NR Band n66	20	QPSK	Titanium	Sport	ZWT0H	1:1	-0.04	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.25	50	28	Front	10	0.176	1.245	0.219	0.137		31.3	
Head	NR Band n66	20	QPSK	Titanium	Metal Loop	ZWT0H	1:1	-0.08	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.24	1	53	Front	10	0.219	1.247	0.298	0.186		30.0	29.3
Head	NR Band n66	20	QPSK	Titanium	Metal Loop	ZWT0H	1:1	-0.19	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.25	50	28	Front	10	0.480	1.245	0.299	0.187	A33	30.0	
Head	NR Band n66	20	QPSK	Titanium	Metal Loop	ZWT0H	1:1	-0.07	1720.00	344000	CP-OFDM	1.5	23.70	22.75	1	1	Front	10	0.200	1.245	0.249	0.156		29.3	
Head	NR Band n66	20	QPSK	Titanium	Fabric	ZWT0H	1:1	-0.05	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.24	1	53	Front	10	0.201	1.247	0.251	0.157		30.7	
Head	NR Band n66	20	QPSK	Titanium	Fabric	ZWT0H	1:1	-0.03	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.25	50	28	Front	10	0.213	1.245	0.265	0.166		30.5	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Head 1.6 W/kg (mW/g) averaged over 1 gram						

10.32 NR Band n66 Standalone Extremity SAR

Table 10-34

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Plimit [dBm]
Extremity	NR Band n66	20	QPSK	Titanium	Sport	2WKWW	1:1	-0.05	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.24	1	53	Back	0	0.099	1.247	0.123	0.031	A34	37.8	
Extremity	NR Band n66	20	QPSK	Titanium	Sport	2WKWW	1:1	-0.04	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.25	50	28	Back	0	0.097	1.245	0.121	0.030		37.8	
Extremity	NR Band n66	20	QPSK	Titanium	Sport	2WKWW	1:1	-0.17	1720.00	344000	CP-OFDM	1.5	23.70	22.75	1	1	Back	0	0.071	1.245	0.088	0.022		37.7	
Extremity	NR Band n66	20	QPSK	Titanium	Metal Loop	2WKWW	1:1	-0.02	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.24	1	53	Back	0	0.090	1.247	0.112	0.028		38.2	37.7
Extremity	NR Band n66	20	QPSK	Titanium	Metal Loop	2WKWW	1:1	-0.03	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.25	50	28	Back	0	0.090	1.245	0.112	0.028		38.2	
Extremity	NR Band n66	20	QPSK	Titanium	Fabric	2WKWW	1:1	-0.08	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.24	1	53	Back	0	0.081	1.247	0.101	0.025		38.7	
Extremity	NR Band n66	20	QPSK	Titanium	Fabric	2WKWW	1:1	-0.04	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.25	50	28	Back	0	0.081	1.245	0.101	0.025		38.7	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Extremity 4.0 W/kg (mW/g) averaged over 10 grams						

10.33 NR Band n25 Standalone Head SAR

Table 10-35

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Plimit [dBm]
Head	NR Band n25	20	QPSK	Titanium	Sport	0D0CK	1:1	-0.03	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.35	1	53	Front	10	0.226	1.216	0.275	0.172		30.3	
Head	NR Band n25	20	QPSK	Titanium	Sport	0D0CK	1:1	-0.04	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.34	50	28	Front	10	0.225	1.247	0.265	0.165		30.3	
Head	NR Band n25	20	QPSK	Titanium	Metal Loop	0D0CK	1:1	-0.03	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.35	1	53	Front	10	0.342	1.216	0.416	0.260		28.6	
Head	NR Band n25	20	QPSK	Titanium	Metal Loop	0D0CK	1:1	-0.04	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.24	50	28	Front	10	0.398	1.247	0.496	0.310		27.8	26.9
Head	NR Band n25	20	QPSK	Titanium	Fabric	0D0CK	1:1	-0.03	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.35	1	53	Front	10	0.437	1.216	0.531	0.332		27.5	
Head	NR Band n25	20	QPSK	Titanium	Fabric	0D0CK	1:1	-0.05	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.24	50	28	Front	10	0.492	1.247	0.614	0.384	A35	26.9	
Head	NR Band n25	20	QPSK	Titanium	Fabric	0D0CK	1:1	-0.02	1860.00	372000	CP-OFDM	1.5	23.70	22.89	1	1	Front	10	0.245	1.205	0.295	0.184		28.5	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Head 1.6 W/kg (mW/g) averaged over 1 gram						

10.34 NR Band n25 Standalone Extremity SAR

Table 10-36

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Plimit [dBm]
Extremity	NR Band n25	20	QPSK	Titanium	Sport	727FM	1:1	-0.12	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.35	1	53	Back	0	0.067	1.216	0.081	0.020		39.6	
Extremity	NR Band n25	20	QPSK	Titanium	Sport	727FM	1:1	-0.07	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.34	50	28	Back	0	0.072	1.247	0.090	0.023		39.2	
Extremity	NR Band n25	20	QPSK	Titanium	Metal Loop	727FM	1:1	-0.15	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.35	1	53	Back	0	0.064	1.216	0.040	0.010		42.5	
Extremity	NR Band n25	20	QPSK	Titanium	Metal Loop	727FM	1:1	-0.08	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.34	50	28	Back	0	0.039	1.247	0.049	0.012		41.8	38.3
Extremity	NR Band n25	20	QPSK	Titanium	Fabric	727FM	1:1	-0.02	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.35	1	53	Back	0	0.087	1.216	0.106	0.027		38.5	
Extremity	NR Band n25	20	QPSK	Titanium	Fabric	727FM	1:1	-0.03	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.34	50	28	Back	0	0.089	1.247	0.111	0.028	A36	38.3	
Extremity	NR Band n25	20	QPSK	Titanium	Fabric	727FM	1:1	-0.07	1860.00	372000	CP-OFDM	1.5	23.70	22.89	1	1	Back	0	0.058	1.205	0.070	0.018		38.8	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Extremity 4.0 W/kg (mW/g) averaged over 10 grams						

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10.35 NR Band n7 Standalone Head SAR

Table 10-37

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	
Head	NR Band n7	20	QPSK	Titanium	Sport	DI0CK	1:1	-0.01	2510.00	502000	DFT-s-OFDM	0.0	20.40	19.61	1	1	Front	30	0.724	1.199	0.968	0.543		19.7	28.6	
	NR Band n7	20	QPSK	Titanium	Sport	DI0CK	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	20.40	19.56	1	1	Front	30	0.725	1.213	0.979	0.549		19.7		
	NR Band n7	20	QPSK	Titanium	Sport	DI0CK	1:1	-0.06	2560.00	512000	DFT-s-OFDM	0.0	20.40	19.60	1	104	Front	10	0.777	1.202	0.934	0.584		19.4		
	NR Band n7	20	QPSK	Titanium	Sport	DI0CK	1:1	-0.02	2510.00	502000	DFT-s-OFDM	0.0	20.40	19.62	50	0	Front	10	0.721	1.197	0.963	0.539		19.7		
	NR Band n7	20	QPSK	Titanium	Sport	DI0CK	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	20.40	19.58	50	56	Front	10	0.766	1.208	0.925	0.578		19.4		
	NR Band n7	20	QPSK	Titanium	Sport	DI0CK	1:1	-0.03	2560.00	512000	DFT-s-OFDM	0.0	20.40	19.61	50	56	Front	10	0.794	1.199	0.952	0.595		19.3		
	NR Band n7	20	QPSK	Titanium	Sport	DI0CK	1:1	0.01	2510.00	502000	DFT-s-OFDM	0.0	20.40	19.56	100	0	Front	10	0.741	1.213	0.999	0.562		19.6		
	NR Band n7	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	-0.02	2510.00	502000	DFT-s-OFDM	0.0	20.40	19.61	1	1	Front	10	0.661	1.199	0.793	0.496		20.1		
	NR Band n7	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	20.40	19.56	1	1	Front	10	0.652	1.213	0.791	0.494		20.1		
	NR Band n7	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	0.02	2560.00	512000	DFT-s-OFDM	0.0	20.40	19.60	1	104	Front	10	0.643	1.202	0.773	0.483		20.2		
	NR Band n7	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	0.03	2510.00	502000	DFT-s-OFDM	0.0	20.40	19.62	50	0	Front	10	0.694	1.197	0.783	0.489		20.1		
	NR Band n7	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	20.40	19.58	50	56	Front	10	0.676	1.208	0.817	0.511		20.0		
	NR Band n7	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	-0.02	2560.00	512000	DFT-s-OFDM	0.0	20.40	19.61	50	56	Front	10	0.694	1.199	0.832	0.520		19.9		
	NR Band n7	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	-0.08	2510.00	502000	DFT-s-OFDM	0.0	20.40	19.56	100	0	Front	10	0.739	1.213	0.896	0.560		19.6		
	NR Band n7	20	QPSK	Titanium	Fabric	DI0CK	1:1	-0.04	2510.00	502000	DFT-s-OFDM	0.0	20.40	19.61	1	1	Front	10	0.784	1.199	0.940	0.588		19.4		
	NR Band n7	20	QPSK	Titanium	Fabric	DI0CK	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	20.40	19.56	1	1	Front	10	0.778	1.213	0.944	0.590		19.4		
	NR Band n7	20	QPSK	Titanium	Fabric	DI0CK	1:1	-0.01	2560.00	512000	DFT-s-OFDM	0.0	20.40	19.60	1	104	Front	10	0.816	1.202	0.983	0.612		19.2		
	NR Band n7	20	QPSK	Titanium	Fabric	DI0CK	1:1	-0.03	2510.00	502000	DFT-s-OFDM	0.0	20.40	19.62	50	0	Front	10	0.758	1.197	0.907	0.567		19.5		
	NR Band n7	20	QPSK	Titanium	Fabric	DI0CK	1:1	-0.05	2535.00	507000	DFT-s-OFDM	0.0	20.40	19.58	50	56	Front	10	0.772	1.208	0.933	0.583		19.4		
	NR Band n7	20	QPSK	Titanium	Fabric	DI0CK	1:1	0.02	2560.00	512000	DFT-s-OFDM	0.0	20.40	19.61	50	56	Front	10	0.847	1.199	1.016	0.615		19.0		
NR Band n7	20	QPSK	Titanium	Fabric	DI0CK	1:1	-0.04	2510.00	502000	DFT-s-OFDM	0.0	20.40	19.56	100	0	Front	10	0.758	1.213	0.919	0.574		19.5			
NR Band n7	20	QPSK	Titanium	Fabric	DI0CK	1:1	0.06	2510.00	502000	CP-OFDM	0.0	20.40	19.97	1	1	Front	10	0.879	1.268	1.115	0.697	A37	18.6			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																							Head		1.6 W/kg (mW/g)	
Spatial Peak																							averaged over 1 gram			
Uncontrolled Exposure/General Population																										

10.36 NR Band n7 Standalone Extremity SAR

Table 10-38

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Extremity	NR Band n7	20	QPSK	Titanium	Sport	DI0CK	1:1	0.00	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.03	1	1	Back	0	0.093	1.309	0.122	0.031		37.9	
Extremity	NR Band n7	20	QPSK	Titanium	Sport	DI0CK	1:1	0.10	2510.00	502000	DFT-s-OFDM	0.0	25.20	23.96	50	28	Back	0	0.102	1.330	0.136	0.034	A38	37.4	
Extremity	NR Band n7	20	QPSK	Titanium	Sport	DI0CK	1:1	0.16	2535.00	507000	CP-OFDM	1.5	23.70	22.47	1	1	Back	0	0.066	1.317	0.088	0.022		37.8	
Extremity	NR Band n7	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	0.19	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.03	1	1	Back	0	0.062	1.309	0.068	0.017		40.4	37.4
Extremity	NR Band n7	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	0.11	2510.00	502000	DFT-s-OFDM	0.0	25.20	23.96	50	28	Back	0	0.087	1.330	0.116	0.029		38.1	
Extremity	NR Band n7	20	QPSK	Titanium	Fabric	DI0CK	1:1	0.11	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.03	1	1	Back	0	0.047	1.309	0.042	0.016		40.8	
Extremity	NR Band n7	20	QPSK	Titanium	Fabric	DI0CK	1:1	0.03	2510.00	502000	DFT-s-OFDM	0.0	25.20	23.96	50	28	Back	0	0.047	1.330	0.063	0.016		40.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																			Extremity		4.0 W/kg (mW/g)				
Spatial Peak																					averaged over 10 grams				
Uncontrolled Exposure/General Population																									

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10.37 NR Band n41 Standalone Head SAR

Table 10-39

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n41	20	QPSK	Titanium	Sport	DI0CK	1:1	0.03	2506.02	501204	DFT-s-OFDM	0.0	20.60	19.75	1	1	Front	30	0.708	1.216	0.961	0.538		20.0	
Head	NR Band n41	20	QPSK	Titanium	Sport	DI0CK	1:1	0.02	2549.49	509898	DFT-s-OFDM	0.0	20.60	19.68	1	49	Front	30	0.717	1.236	0.886	0.534		19.8	
Head	NR Band n41	20	QPSK	Titanium	Sport	DI0CK	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	20.60	19.74	1	1	Front	10	0.780	1.219	0.951	0.594		19.5	
Head	NR Band n41	20	QPSK	Titanium	Sport	DI0CK	1:1	-0.03	2636.49	527298	DFT-s-OFDM	0.0	20.60	19.43	1	1	Front	10	0.624	1.309	0.791	0.494		20.3	
Head	NR Band n41	20	QPSK	Titanium	Sport	DI0CK	1:1	-0.01	2679.99	535998	DFT-s-OFDM	0.0	20.60	19.51	1	49	Front	10	0.640	1.285	0.822	0.514		20.1	
Head	NR Band n41	20	QPSK	Titanium	Sport	DI0CK	1:1	0.03	2506.02	501204	DFT-s-OFDM	0.0	20.60	19.79	25	0	Front	10	0.678	1.205	0.817	0.511		20.2	
Head	NR Band n41	20	QPSK	Titanium	Sport	DI0CK	1:1	0.01	2549.49	509898	DFT-s-OFDM	0.0	20.60	19.66	25	13	Front	10	0.756	1.242	0.939	0.587		19.6	
Head	NR Band n41	20	QPSK	Titanium	Sport	DI0CK	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	20.60	19.74	25	0	Front	10	0.785	1.219	0.957	0.598		19.5	
Head	NR Band n41	20	QPSK	Titanium	Sport	DI0CK	1:1	0.03	2636.49	527298	DFT-s-OFDM	0.0	20.60	19.54	25	0	Front	10	0.608	1.276	0.776	0.485		20.4	
Head	NR Band n41	20	QPSK	Titanium	Sport	DI0CK	1:1	-0.03	2679.99	535998	DFT-s-OFDM	0.0	20.60	19.52	25	13	Front	10	0.571	1.282	0.712	0.458		20.7	
Head	NR Band n41	20	QPSK	Titanium	Sport	DI0CK	1:1	0.05	2506.02	501204	DFT-s-OFDM	0.0	20.60	19.66	50	0	Front	10	0.739	1.242	0.938	0.574		19.7	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	-0.04	2506.02	501204	DFT-s-OFDM	0.0	20.60	19.75	1	1	Front	10	0.606	1.216	0.737	0.461		20.6	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	-0.01	2549.49	509898	DFT-s-OFDM	0.0	20.60	19.68	1	49	Front	10	0.733	1.236	0.906	0.566		19.7	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	20.60	19.74	1	1	Front	10	0.741	1.219	0.903	0.564		19.7	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	0.01	2636.49	527298	DFT-s-OFDM	0.0	20.60	19.43	1	1	Front	10	0.642	1.309	0.840	0.525		20.1	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	-0.01	2679.99	535998	DFT-s-OFDM	0.0	20.60	19.51	1	49	Front	10	0.562	1.285	0.721	0.451		20.7	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	0.10	2506.02	501204	DFT-s-OFDM	0.0	20.60	19.79	25	0	Front	10	0.601	1.205	0.724	0.453		20.7	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	-0.05	2549.49	509898	DFT-s-OFDM	0.0	20.60	19.66	25	13	Front	10	0.745	1.242	0.925	0.578		19.6	19.1
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	20.60	19.74	25	0	Front	10	0.709	1.219	0.864	0.540		19.9	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	-0.06	2636.49	527298	DFT-s-OFDM	0.0	20.60	19.54	25	0	Front	10	0.641	1.276	0.818	0.511		20.2	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	-0.03	2679.99	535998	DFT-s-OFDM	0.0	20.60	19.52	25	13	Front	10	0.550	1.282	0.705	0.441		20.8	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	DI0CK	1:1	-0.02	2506.02	501204	DFT-s-OFDM	0.0	20.60	19.66	50	0	Front	10	0.650	1.242	0.807	0.504		20.2	
Head	NR Band n41	20	QPSK	Titanium	Fabric	DI0CK	1:1	0.03	2506.02	501204	DFT-s-OFDM	0.0	20.60	19.75	1	1	Front	10	0.628	1.216	1.007	0.629		19.3	
Head	NR Band n41	20	QPSK	Titanium	Fabric	DI0CK	1:1	0.03	2549.49	509898	DFT-s-OFDM	0.0	20.60	19.68	1	49	Front	10	0.788	1.236	0.925	0.578		19.6	
Head	NR Band n41	20	QPSK	Titanium	Fabric	DI0CK	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	20.60	19.74	1	1	Front	10	0.784	1.219	0.956	0.598		19.5	
Head	NR Band n41	20	QPSK	Titanium	Fabric	DI0CK	1:1	0.00	2636.49	527298	DFT-s-OFDM	0.0	20.60	19.43	1	1	Front	10	0.743	1.309	0.973	0.608		19.4	
Head	NR Band n41	20	QPSK	Titanium	Fabric	DI0CK	1:1	0.04	2679.99	535998	DFT-s-OFDM	0.0	20.60	19.51	1	49	Front	10	0.600	1.285	0.771	0.482		20.4	
Head	NR Band n41	20	QPSK	Titanium	Fabric	DI0CK	1:1	0.00	2506.02	501204	DFT-s-OFDM	0.0	20.60	19.79	25	0	Front	10	0.633	1.205	1.028	0.643		19.2	
Head	NR Band n41	20	QPSK	Titanium	Fabric	DI0CK	1:1	-0.04	2549.49	509898	DFT-s-OFDM	0.0	20.60	19.66	25	13	Front	10	0.773	1.242	0.960	0.600		19.5	
Head	NR Band n41	20	QPSK	Titanium	Fabric	DI0CK	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	20.60	19.74	25	0	Front	10	0.843	1.219	1.036	0.641		19.2	
Head	NR Band n41	20	QPSK	Titanium	Fabric	DI0CK	1:1	0.01	2636.49	527298	DFT-s-OFDM	0.0	20.60	19.54	25	0	Front	10	0.760	1.276	0.970	0.606		19.4	
Head	NR Band n41	20	QPSK	Titanium	Fabric	DI0CK	1:1	0.04	2679.99	535998	DFT-s-OFDM	0.0	20.60	19.52	25	13	Front	10	0.597	1.282	0.765	0.478		20.5	
Head	NR Band n41	20	QPSK	Titanium	Fabric	DI0CK	1:1	0.01	2506.02	501204	DFT-s-OFDM	0.0	20.60	19.66	50	0	Front	10	0.808	1.242	1.000	0.625		19.3	
Head	NR Band n41	20	QPSK	Titanium	Fabric	DI0CK	1:1	-0.02	2506.02	501204	CP-OFDM	0.0	20.60	19.89	1	1	Front	10	0.882	1.178	1.039	0.649	A39	19.1	
Head	NR Band n41	20	QPSK	Titanium	Fabric	DI0CK	1:1	-0.07	2506.03	501204	CP-OFDM	0.0	20.60	19.89	1	1	Front	10	0.922	1.178	0.931	0.576		19.7	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																			Head						
Spatial Peak																			1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 1 gram						

Note: Blue entry represents variability measurement

10.38 NR Band n41 Standalone Extremity SAR

Table 10-40

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Extremity	NR Band n41	20	QPSK	Titanium	Sport	ZW10H	1:1	-0.02	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.17	1	26	Back	0	0.084	1.368	0.107	0.027	A40	38.4	
Extremity	NR Band n41	20	QPSK	Titanium	Sport	ZW10H	1:1	-0.03	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.22	25	13	Back	0	0.083	1.263	0.104	0.026		38.5	
Extremity	NR Band n41	20	QPSK	Titanium	Sport	ZW10H	1:1	-0.09	2506.02	501204	CP-OFDM	1.5	23.70	22.57	1	1	Back	0	0.066	1.297	0.086	0.022		37.9	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Loop	ZW10H	1:1	0.19	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.17	1	26	Back	0	0.061	1.268	0.077	0.019		39.8	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Loop	ZW10H	1:1	0.13	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.22	25	13	Back	0	0.055	1.253	0.069	0.017		40.3	
Extremity	NR Band n41	20	QPSK	Titanium	Fabric	ZW10H	1:1	0.09	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.17	1	26	Back	0	0.059	1.268	0.075	0.019		40.0	
Extremity	NR Band n41	20	QPSK	Titanium	Fabric	ZW10H	1:1	0.07	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.22	25	13	Back	0	0.050	1.253	0.063	0.016		40.7	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																			Extremity						
Spatial Peak																			4.0 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 10 grams						

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10.39 NR Band n53 Standalone Head SAR

Table 10-41

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Head	NR Band n53	10	QPSK	Titanium	Sport	PPVWG	1:1	0.08	2489.30	497860	DFT-s-OFDM	0.0	21.20	19.95	1	22	Front	10	0.008	1.334	0.0011	0.007	A37	40.5	40.5
Head	NR Band n53	10	QPSK	Titanium	Sport	PPVWG	1:1	0.03	2489.30	497860	DFT-s-OFDM	0.0	21.20	19.95	12	6	Front	10	0.007	1.365	0.010	0.006		40.5	
Head	NR Band n53	10	QPSK	Titanium	Metal Loop	PPVWG	1:1	0.07	2489.30	497860	DFT-s-OFDM	0.0	21.20	19.95	1	22	Front	10	0.008	1.334	0.0011	0.007		40.5	
Head	NR Band n53	10	QPSK	Titanium	Metal Loop	PPVWG	1:1	0.04	2489.30	497860	DFT-s-OFDM	0.0	21.20	19.95	12	6	Front	10	0.007	1.365	0.010	0.006		40.5	
Head	NR Band n53	10	QPSK	Titanium	Metal Loop	PPVWG	1:1	0.13	2489.30	497860	CP-OFDM	1.5	19.70	18.92	1	1	Front	10	0.006	1.197	0.007	0.004		40.7	
Head	NR Band n53	10	QPSK	Titanium	Fabric	PPVWG	1:1	-0.09	2489.30	497860	DFT-s-OFDM	0.0	21.20	19.95	1	22	Front	10	0.008	1.334	0.0011	0.007		40.5	
Head	NR Band n53	10	QPSK	Titanium	Fabric	PPVWG	1:1	0.13	2489.30	497860	DFT-s-OFDM	0.0	21.20	19.95	12	6	Front	10	0.006	1.365	0.008	0.005		41.6	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Head 1.6 W/kg (mW/g) averaged over 1 gram						

10.40 NR Band n53 Standalone Extremity SAR

Table 10-42

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Extremity	NR Band n53	10	QPSK	Titanium	Sport	PM21	1:1	0.03	2489.30	497860	DFT-s-OFDM	0.0	21.20	19.95	1	22	Back	0	0.428	1.334	0.384	0.146		27.0	26.3
Extremity	NR Band n53	10	QPSK	Titanium	Sport	PM21	1:1	0.07	2489.30	497860	DFT-s-OFDM	0.0	21.20	19.95	12	6	Back	0	0.405	1.365	0.553	0.138		27.3	
Extremity	NR Band n53	10	QPSK	Titanium	Metal Loop	PM21	1:1	0.03	2489.30	497860	DFT-s-OFDM	0.0	21.20	19.95	1	22	Back	0	0.467	1.334	0.923	0.156	A42	26.8	
Extremity	NR Band n53	10	QPSK	Titanium	Metal Loop	PM21	1:1	0.02	2489.30	497860	DFT-s-OFDM	0.0	21.20	19.95	12	6	Back	0	0.427	1.365	0.583	0.146		27.1	
Extremity	NR Band n53	10	QPSK	Titanium	Metal Loop	PM21	1:1	0.08	2489.30	497860	CP-OFDM	1.5	19.70	18.92	1	1	Back	0	0.412	1.197	0.493	0.123		26.3	
Extremity	NR Band n53	10	QPSK	Titanium	Fabric	PM21	1:1	-0.02	2489.30	497860	DFT-s-OFDM	0.0	21.20	19.95	1	22	Back	0	0.450	1.334	0.600	0.150		26.9	
Extremity	NR Band n53	10	QPSK	Titanium	Fabric	PM21	1:1	0.02	2489.30	497860	DFT-s-OFDM	0.0	21.20	19.95	12	6	Back	0	0.426	1.365	0.581	0.145		27.1	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Extremity 4.0 W/kg (mW/g) averaged over 10 grams						

10.41 2.4 GHz WIFI SISO Standalone Head SAR

Table 10-43

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Sport	HP7HX	99.76	-0.01	2437	6	1.0	19.00	17.75	Front	10	0.415	1.334	1.002	0.555	0.347		
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Metal Loop	HP7HX	99.76	-0.04	2437	6	1.0	19.00	17.75	Front	10	0.358	1.334	1.002	0.479	0.299		
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Fabric	HP7HX	99.76	0.05	2432	1	1.0	19.00	17.94	Front	10	0.371	1.400	1.002	0.520	0.325		
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Fabric	HP7HX	99.76	-0.03	2437	6	1.0	19.00	17.75	Front	10	0.437	1.334	1.002	0.584	0.365	A43	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Fabric	HP7HX	99.76	0.04	2462	11	1.0	19.00	17.65	Front	10	0.427	1.365	1.002	0.584	0.365		
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Sport	HP7HX	29.21	-0.01	2437	6	1.0	19.00	17.75	Front	10	0.135	1.334	1.027	0.185	0.116		
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Metal Loop	HP7HX	29.21	-0.03	2437	6	1.0	19.00	17.75	Front	10	0.109	1.334	1.027	0.149	0.093		
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Fabric	HP7HX	29.21	-0.10	2437	6	1.0	19.00	17.75	Front	10	0.128	1.334	1.027	0.175	0.109		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																Head						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																averaged over 1 gram						

Note: The reported SAR for WLAN scenarios with the licensed antenna active was scaled to 30.0% transmission duty factor since the duty factor of the device is permanently limited to 30.0% when the cellular radio is active, per the manufacturer. The WLAN scenarios with the reduced duty factor was tested at 29.97% transmission duty factor due to the software limitation and the cellular antenna was not active.

10.42 2.4 GHz WIFI SISO Standalone Extremity SAR

Table 10-44

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Sport	2WT0H	99.76	0.10	2412	1	1.0	19.00	17.54	Back	0	0.032	1.400	1.002	0.045	0.011	
Extremity	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Sport	2WT0H	99.76	0.02	2437	6	1.0	19.00	17.75	Back	0	0.027	1.334	1.002	0.036	0.009	
Extremity	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Sport	2WT0H	99.76	0.08	2462	11	1.0	19.00	17.65	Back	0	0.044	1.365	1.002	0.069	0.015	A44
Extremity	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Metal Loop	2WT0H	99.76	0.05	2437	6	1.0	19.00	17.75	Back	0	0.013	1.334	1.002	0.017	0.004	
Extremity	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Fabric	2WT0H	99.76	0.07	2437	6	1.0	19.00	17.75	Back	0	0.007	1.334	1.002	0.009	0.002	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT														Extremity							
Spatial Peak														4.0 W/kg (mW/g)							
Uncontrolled Exposure/General Population														averaged over 10 grams							

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10.43 5 GHz WIFI SISO Standalone Head SAR

Table 10-45

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	J3009	93.43	0.16	5320	64	U-NII-2A	6.0	17.00	16.18	Front	10	0.048	1.208	1.070	0.062	0.039	A45
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	J3009	93.43	0.05	5620	124	U-NII-2C	6.0	17.00	16.23	Front	10	0.074	1.194	1.070	0.095	0.059	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	J3009	93.43	0.00	5825	165	U-NII-3	6.0	17.00	15.67	Front	10	0.060	1.358	1.070	0.087	0.054	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	J3009	93.43	0.09	5320	64	U-NII-2A	6.0	17.00	16.18	Front	10	0.043	1.208	1.070	0.056	0.035	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	J3009	93.43	-0.14	5620	124	U-NII-2C	6.0	17.00	16.23	Front	10	0.058	1.194	1.070	0.074	0.046	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	J3009	93.43	0.08	5825	165	U-NII-3	6.0	17.00	15.67	Front	10	0.053	1.358	1.070	0.077	0.048	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Fabric	J3009	93.43	0.11	5320	64	U-NII-2A	6.0	17.00	16.18	Front	10	0.057	1.208	1.070	0.074	0.046	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Fabric	J3009	93.43	0.07	5620	124	U-NII-2C	6.0	17.00	16.23	Front	10	0.066	1.194	1.070	0.084	0.053	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Fabric	J3009	93.43	0.07	5825	165	U-NII-3	6.0	17.00	15.67	Front	10	0.064	1.358	1.070	0.093	0.058	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	J3009	29.97	0.01	5320	64	U-NII-2A	6.0	17.00	16.18	Front	10	0.007	1.208	1.001	0.008	0.005	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	J3009	29.97	0.04	5620	124	U-NII-2C	6.0	17.00	16.23	Front	10	0.007	1.194	1.001	0.008	0.005	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	J3009	29.97	0.07	5825	165	U-NII-3	6.0	17.00	15.67	Front	10	0.018	1.358	1.001	0.024	0.015	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	J3009	29.97	0.08	5320	64	U-NII-2A	6.0	17.00	16.18	Front	10	0.007	1.208	1.001	0.008	0.005	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	J3009	29.97	0.07	5620	124	U-NII-2C	6.0	17.00	16.23	Front	10	0.016	1.194	1.001	0.019	0.012	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	J3009	29.97	0.01	5825	165	U-NII-3	6.0	17.00	15.67	Front	10	0.017	1.358	1.001	0.023	0.014	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Fabric	J3009	29.97	0.01	5320	64	U-NII-2A	6.0	17.00	16.18	Front	10	0.008	1.208	1.001	0.010	0.006	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Fabric	J3009	29.97	0.08	5620	124	U-NII-2C	6.0	17.00	16.23	Front	10	0.014	1.194	1.001	0.017	0.011	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Fabric	J3009	29.97	0.06	5825	165	U-NII-3	6.0	17.00	15.67	Front	10	0.016	1.358	1.001	0.022	0.014	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Head Spatial Peak 1.6 W/kg (mW/g) Uncontrolled Exposure/General Population averaged over 1 gram						

Note: The reported SAR for WLAN scenarios with the licensed antenna active was scaled to 30.0% transmission duty factor since the duty factor of the device is permanently limited to 30.0% when the cellular radio is active, per the manufacturer. The WLAN scenarios with the reduced duty factor was tested at 29.97% transmission duty factor due to the software limitation and the cellular antenna was not active.

10.44 5 GHz WIFI SISO Standalone Extremity SAR

Table 10-46

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	5 GHz WiFi/ IEEE 802.11a	20	OFDM	Titanium	Sport	9WQRF	93.43	0.01	5320	64	U-NII-2A	6.0	17.00	16.18	Back	0	0.023	1.208	1.070	0.030	0.008	
Extremity	5 GHz WiFi/ IEEE 802.11a	20	OFDM	Titanium	Sport	9WQRF	93.43	0.02	5620	124	U-NII-2C	6.0	17.00	16.23	Back	0	0.033	1.194	1.070	0.042	0.011	
Extremity	5 GHz WiFi/ IEEE 802.11a	20	OFDM	Titanium	Sport	9WQRF	93.43	0.10	5825	165	U-NII-3	6.0	17.00	15.67	Back	0	0.026	1.358	1.070	0.038	0.010	
Extremity	5 GHz WiFi/ IEEE 802.11a	20	OFDM	Titanium	Metal Loop	9WQRF	93.43	-0.15	5320	64	U-NII-2A	6.0	17.00	16.18	Back	0	0.034	1.208	1.070	0.044	0.011	
Extremity	5 GHz WiFi/ IEEE 802.11a	20	OFDM	Titanium	Metal Loop	9WQRF	93.43	0.10	5620	124	U-NII-2C	6.0	17.00	16.23	Back	0	0.036	1.194	1.070	0.046	0.012	
Extremity	5 GHz WiFi/ IEEE 802.11a	20	OFDM	Titanium	Metal Loop	9WQRF	93.43	0.03	5825	165	U-NII-3	6.0	17.00	15.67	Back	0	0.037	1.358	1.070	0.054	0.014	A46
Extremity	5 GHz WiFi/ IEEE 802.11a	20	OFDM	Titanium	Fabric	9WQRF	93.43	0.03	5320	64	U-NII-2A	6.0	17.00	16.18	Back	0	0.033	1.208	1.070	0.043	0.011	
Extremity	5 GHz WiFi/ IEEE 802.11a	20	OFDM	Titanium	Fabric	9WQRF	93.43	-0.11	5620	124	U-NII-2C	6.0	17.00	16.23	Back	0	0.033	1.194	1.070	0.042	0.011	
Extremity	5 GHz WiFi/ IEEE 802.11a	20	OFDM	Titanium	Fabric	9WQRF	93.43	-0.02	5825	165	U-NII-3	6.0	17.00	15.67	Back	0	0.025	1.358	1.070	0.036	0.009	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Extremity Spatial Peak 4.0 W/kg (mW/g) Uncontrolled Exposure/General Population averaged over 10 grams						

10.45 2.4 GHz Bluetooth SISO Standalone Head SAR

Table 10-47

Exposure	Band / Mode	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	2.4 GHz Bluetooth	FHSS	Titanium	Sport	HP7HX	100.00	0.03	2441	39	1	17.50	15.77	Front	10	0.277	1.489	1.000	0.412	0.258	
Head	2.4 GHz Bluetooth	FHSS	Titanium	Metal Loop	HP7HX	100.00	0.01	2441	39	1	17.50	15.77	Front	10	0.214	1.489	1.000	0.319	0.199	
Head	2.4 GHz Bluetooth	FHSS	Titanium	Fabric	HP7HX	100.00	-0.01	2441	39	1	17.50	15.77	Front	10	0.305	1.489	1.000	0.454	0.284	A47
Head	2.4 GHz Bluetooth	FHSS	Titanium	Sport	HP7HX	100.00	0.02	2402	0	1	13.00	11.36	Front	10	0.078	1.459	1.000	0.114	0.071	
Head	2.4 GHz Bluetooth	FHSS	Titanium	Metal Loop	HP7HX	100.00	0.05	2402	0	1	13.00	11.36	Front	10	0.074	1.459	1.000	0.108	0.068	
Head	2.4 GHz Bluetooth	FHSS	Titanium	Fabric	HP7HX	100.00	-0.05	2402	0	1	13.00	11.36	Front	10	0.090	1.459	1.000	0.131	0.082	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Head				
Spatial Peak																1.6 W/kg (mW/g)				
Uncontrolled Exposure/General Population																averaged over 1 gram				

10.46 2.4 GHz Bluetooth SISO Standalone Extremity SAR

Table 10-48

Exposure	Band / Mode	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	2.4 GHz Bluetooth	FHSS	Titanium	Sport	HP7HX	100.00	-0.07	2441	39	1	17.50	15.77	Back	0	0.005	1.489	1.000	0.007	0.002	
Extremity	2.4 GHz Bluetooth	FHSS	Titanium	Metal Loop	HP7HX	100.00	0.04	2402	0	1	17.50	15.69	Back	0	0.005	1.517	1.000	0.008	0.002	
Extremity	2.4 GHz Bluetooth	FHSS	Titanium	Metal Loop	HP7HX	100.00	-0.04	2441	39	1	17.50	15.77	Back	0	0.018	1.489	1.000	0.007	0.007	A44
Extremity	2.4 GHz Bluetooth	FHSS	Titanium	Metal Loop	HP7HX	100.00	-0.07	2480	78	1	17.50	15.62	Back	0	0.008	1.542	1.000	0.012	0.003	
Extremity	2.4 GHz Bluetooth	FHSS	Titanium	Fabric	HP7HX	100.00	0.05	2441	39	1	17.50	15.77	Back	0	0.004	1.489	1.000	0.006	0.002	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Extremity Spatial Peak 4.0 W/kg (mW/g) Uncontrolled Exposure/General Population averaged over 10 grams				

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Technical Manager

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10.47 5 GHz 802.15.4 ab-NB SISO Standalone Head SAR

Table 10-49

Exposure	Band / Mode	Service / Modulation	Housing Type	Wristband Type	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	802.15.4 ab-NB	O-OPSK	Titanium	Sport	9WQRF	-0.07	5846	High	1	16.00	15.48	Front	10	0.001	1.127	0.001	0.001	
Head	802.15.4 ab-NB	O-OPSK	Titanium	Metal Loop	9WQRF	0.06	5846	High	1	16.00	15.48	Front	10	0.002	1.127	0.002	0.001	A49
Head	802.15.4 ab-NB	O-OPSK	Titanium	Fabric	9WQRF	0.08	5846	High	1	16.00	15.48	Front	10	0.001	1.127	0.001	0.001	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Head						
Spatial Peak												1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population												averaged over 1 gram						

Note: The SAR was scaled to the 8.9% transmission duty factor

10.48 5 GHz 802.15.4 ab-NB SISO Standalone Extremity SAR

Table 10-50

Exposure	Band / Mode	Service / Modulation	Housing Type	Wristband Type	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	802.15.4 ab-NB	O-PSK	Titanium	Sport	9WQRF	0.03	5846	High	1	16.00	15.48	Back	0	0.000	1.127	1.017	0.000	0.000	
Extremity	802.15.4 ab-NB	O-PSK	Titanium	Metal Loop	9WQRF	0.08	5846	High	1	16.00	15.48	Back	0	0.000	1.127	1.017	0.000	0.000	
Extremity	802.15.4 ab-NB	O-PSK	Titanium	Fabric	9WQRF	0.01	5846	High	1	16.00	15.48	Back	0	0.000	1.127	1.017	0.000	0.000	A50
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Extremity							
Spatial Peak												4.0 W/kg (mW/g)							
Uncontrolled Exposure/General Population												averaged over 10 grams							

Note: The SAR was scaled to the 8.9% transmission duty factor

10.49 NFC Standalone Extremity SAR

Table 10-51

Exposure	Band / Mode	Ant.	Housing Type	Wristband Type	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NFC	BCM	Titanium	Sport	P9M21	0.01	13.60	Back	0	0.000	0.000	A51
Extremity	NFC	BCM	Titanium	Metal Loop	P9M21	0.05	13.60	Back	0	0.000	0.000	
Extremity	NFC	BCM	Titanium	Fabric	P9M21	0.08	13.60	Back	0	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Extremity		
Spatial Peak										4.0 W/kg (mW/g)		
Uncontrolled Exposure/General Population										averaged over 10 grams		

10.50 NTN Band 254 Standalone Extremity SAR

Table 10-52

Exposure	Band / Mode	Service / Modulation	Ant.	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NTN Band 254	BPSK	FCM	Titanium	Sport	J30C9	1:1	-0.05	1626.00	High	27.20	26.04	Back	0	0.130	1.306	0.170	0.043	
Extremity	NTN Band 254	BPSK	FCM	Titanium	Metal Loop	J30C9	1:1	-0.17	1626.00	High	27.20	26.04	Back	0	0.153	1.306	0.200	0.050	A48
Extremity	NTN Band 254	BPSK	FCM	Titanium	Fabric	J30C9	1:1	-0.10	1626.00	High	27.20	26.04	Back	0	0.116	1.306	0.151	0.038	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																			
Spatial Peak												Extremity							
Uncontrolled Exposure/General Population												4.0 W/kg (mW/g)							
												averaged over 10 grams							

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10.51 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 447498 D04v01.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
6. Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were not required since measured SAR results for all frequency bands were less than 0.8 W/kg and 2.0 W/kg for 10g SAR.
7. This device has one housing type: Titanium. The non-metallic wrist accessories, sport band and fabric band, were evaluated for all exposure conditions. The available metallic wrist accessory, metal loop band, was additionally evaluated.
8. This device is a portable wrist-worn device and does not support any other use conditions. Therefore, the procedures in FCC KDB Publication 447498 D04v01 Section 3.3.3/3.3.1 have been applied for extremity and next to mouth (head) conditions.
9. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
10. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.

LTE Notes:

1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r05. The general test procedures used for testing can be found in Section 7.2.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
3. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC KDB Publication 447498 D04v01, when the reported LTE Band 41 SAR measured at the highest output power channel in a given test configuration was > 0.6 W/kg for 1g evaluations and > 1.5 W/kg for 10g SAR, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r05. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
6. This device can only operate with 16 QAM on the uplink with less than or equal to 27 RB. QPSK and 16QAM LTE powers for RB size of 15 ("50% RB") and 27 ("100% RB") were additionally measured to support comparison and SAR test exclusion per KDB 941225 D05v02r05 Section 5.2.4 and 5.3.

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NR Notes:

1. NR implementation supports SA mode.
2. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests
3. Per FCC KDB Publication 447498 D04v01, when the reported SAR measured at the highest output power channel in a given test configuration was > 0.6 W/kg for 1g SAR evaluations and > 1.5 W/kg for 10g SAR evaluations for NR n41, testing at the other channels was required for such test configurations.

WLAN Notes:

1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 7.3.4 for more information.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 7.3.5 for more information.
3. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.
4. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance.
5. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Bluetooth Notes

1. To determine compliance, Bluetooth SAR was measured with the maximum power condition. Bluetooth was evaluated with a test mode with 100% transmission duty factor.

802.15.4 ab-Nb Notes

1. 802.15.4 ab-NB SAR was scaled to the 8.9% transmission duty factor to determine compliance since the duty factor of the device is limited to 8.9% per manufacturer. See Section 8.8 for the time domain plot and calculation for the duty factor of the device.

NTN Notes:

1. Due to equipment limitations, NTN was tested using factory test mode software transmitting CW at 100% duty cycle.
2. NTN NB-IoT only supports data transmission.

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11 SAR MEASUREMENT VARIABILITY

11.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg.
- 5) When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Table 11-1
Head SAR Measurement Variability Results

BODY VARIABILITY RESULTS										
Band	FREQUENCY		Mode	Service	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio
	MHz	Ch.						(W/kg)	(W/kg)	
2450	2506.02	501204	NR Band n41, 20 MHz Bandwidth	CP-OFDM, QPSK, 1, 1 RB Offset	N/A	Front	10 mm	0.882	0.782	1.13
2600	2593.00	40620	LTE Band 41, 20 MHz Bandwidth	QPSK, 50 RB, 25 Offset	N/A	Front	10 mm	0.866	0.806	1.07
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram			

11.2 Measurement Uncertainty

The measured SAR was < 1.5 W/kg for 1g and < 3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis was not required.

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12 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	10/23/2024	Annual	10/23/2025	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	11/15/2024	Annual	11/15/2025	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	5/30/2025	Annual	5/30/2026	MY48180366
Agilent	N5182A	MXG Vector Signal Generator	12/5/2024	Annual	12/5/2025	US46240505
Agilent	8753ES	5-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MY40001472
Agilent	8753ES	5-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	MY40003841
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB41450275
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Rhode & Schwarz	NRX	Power Meter	1/30/2025	Annual	1/30/2026	102583
Rhode & Schwarz	NRX	Power Meter	2/24/2025	Annual	2/24/2026	102582
Anritsu	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	172622
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
Anritsu	MA24106A	USB Power Sensor	5/29/2025	Annual	5/29/2026	1344554
Anritsu	MA24106A	USB Power Sensor	10/29/2024	Annual	10/29/2025	1248508
Mini-Circuits	PWR-4GH5	9-KHz 4000MHz USB Power Sensor	6/20/2025	Annual	6/20/2026	12503270057
Insise	1108-150	Digital Caliper	2/25/2025	Annual	2/25/2026	711245294
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171059
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Keysight Technologies	N9020A	MXA Signal Analyzer	2/7/2025	Annual	2/7/2026	MY53421544
Keysight Technologies	N9020A	MXA Signal Analyzer	6/4/2025	Annual	6/4/2026	MY56470202
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	NC-100	Torque Wrench	CBT	N/A	CBT	22217
Seekonk	NC-100	Torque Wrench	4/2/2024	Biennial	4/2/2026	1262
GW Instek	GPS-3030DD	D.C. Power Supply	N/A	N/A	N/A	GE823589
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	120504
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	109366
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	155128
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	102060
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	167112
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/5/2024	Annual	11/5/2025	1277
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/7/2024	Annual	8/7/2025	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/10/2025	Annual	3/10/2026	1102
SPEAG	CLA-13	Confined Loop Antenna	11/11/2024	Annual	11/11/2025	1004
SPEAG	D750V3	750 MHz SAR Dipole	5/9/2025	Annual	5/9/2026	1057
SPEAG	D750V3	750 MHz SAR Dipole	9/13/2023	Biennial	9/13/2025	1097
SPEAG	D835V2	835 MHz SAR Dipole	11/18/2022	Triennial	11/18/2025	4d108
SPEAG	D1640V2	1640 MHz SAR Dipole	12/13/2022	Biennial	10/6/2025	321
SPEAG	D1750V2	1750 MHz SAR Dipole	11/17/2022	Triennial	11/17/2025	1040
SPEAG	D1900V2	1900 MHz SAR Dipole	8/8/2023	Biennial	8/8/2025	5d180
SPEAG	D2450V2	2450 MHz SAR Dipole	10/23/2024	Annual	10/23/2025	921
SPEAG	D2450V2	2450 MHz SAR Dipole	5/13/2025	Annual	5/13/2026	750
SPEAG	D2450V2	2450 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	855
SPEAG	D2600V2	2600 MHz SAR Dipole	5/7/2025	Annual	5/7/2026	1042
SPEAG	D2600V2	2600 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	1068
SPEAG	D2600V2	2600 MHz SAR Dipole	9/12/2023	Biennial	9/12/2025	1069
SPEAG	D5GHZV2	5 GHz SAR Dipole	11/8/2024	Annual	11/8/2025	1066
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1582
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/8/2025	Annual	1/8/2026	1465
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/15/2025	Annual	4/15/2026	1323
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/10/2024	Annual	10/10/2025	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/10/2024	Annual	10/10/2025	1237
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/6/2025	Annual	2/6/2026	467
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/9/2025	Annual	4/9/2026	501
SPEAG	EX3DV4	SAR Probe	4/11/2025	Annual	4/11/2026	7357
SPEAG	EX3DV4	SAR Probe	1/14/2025	Annual	1/14/2026	7499
SPEAG	EX3DV4	SAR Probe	4/16/2025	Annual	4/16/2026	7551
SPEAG	EX3DV4	SAR Probe	2/10/2025	Annual	2/10/2026	7427
SPEAG	EX3DV4	SAR Probe	10/15/2024	Annual	10/15/2025	3746
SPEAG	EX3DV4	SAR Probe	3/6/2025	Annual	3/6/2026	7638
SPEAG	EX3DV4	SAR Probe	4/16/2025	Annual	4/16/2026	7532

Note: CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler, or filter were connected to a calibrated source (i.e., a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements. Each equipment item was used solely within its respective calibration period.

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13 MEASUREMENT UNCERTAINTIES

Applicable for SAR measurements < 6 GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)				RSS			12.2	12.0	191
Expanded Uncertainty (95% CONFIDENCE LEVEL)				k=2			24.4	24.0	

The above measurement uncertainties are according to IEEE Std. 1528-2013

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14 CONCLUSION

14.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g., ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g., age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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