



**RF SAFETY
LAB**

A NEXT GENERATION
TEST LABORATORY™

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PART 0 RF EXPOSURE REPORT

FCC ID:	A3LSMS942U
Model (s):	SM-S942U, SM-S942U1
Device Type:	Portable Handset
Report Issue Date:	January 15, 2026

Samsung Electronics Co., Ltd.

129, Samsung-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Rep.
of Korea

Certification

The measurement evaluations presented in this report are based on the maximum performance of the tested device(s), which has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/ general population exposure federal limits in 47CFR § 1.1310 and has been tested in accordance with the measurement procedures specified within this report.

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This document has been revised and replaces all previously issued versions of this document with the same Test Report S/N.



Steve Liu
President



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1. DUT Specifics

1.1. Device under Test

The device under test is a wireless device, incorporating the technologies listed in Part 1 RF Exposure report. This device uses the Qualcomm® Gen2 Smart Transmit feature to control and manage transmitting at all times for WWAN/WLAN/BT/NTN operations. Additionally, this device support NFC/WPC technologies, but the output power of these modes are not controlled by the Smart Transmit algorithm.

RF Exposure Part 1 report in this report refers to report SN: 2025.038.01

1.2. Time-Averaging Algorithm for RF Exposure Compliance

This device is enabled with the Qualcomm® Smart Transmit Gen2 feature. This feature implements a 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.

This Part 0 report shows SAR characterization of Smart Transmit enabled radios. Characterization is achieved by determining P_{limit} for those radios that corresponds to the exposure design targets after accounting for all device design related uncertainty. The SAR characterization is denoted as SAR Char in this report.

1.3. Nomenclature

Technology	Term	Description
Sub6 WWAN/WLAN/BT/NTN	P_{limit}	Power level that corresponds to the exposure design target (<i>SAR_design_target</i>) after accounting for all device design related uncertainties
	P_{max}	Maximum tune-up output power
	<i>SAR_design_target</i>	Target SAR level < FCC SAR limit after accounting for all device design related uncertainties
	<i>SAR Char</i>	Table containing P_{limit} for all technologies and bands



2. SAR Characterization

2.1. DSI and SAR Determination

This device uses different Device State Index (DSI) to configure different time averaged power levels based on certain exposure scenarios. Depending on the detection scheme implemented in the smartphone, the worst-case SAR was determined by measurements for the relevant exposure conditions for that DSI. Detailed descriptions of the detection mechanisms are included in the operational description.

When 1g SAR and 10g SAR exposure comparison is needed, the worst-case was determined from SAR normalized to 1g or 10g SAR limit.

The device state index (DSI) conditions used in Table 3-1 represent different exposure scenarios.

Table 2-1

Scenario	Description	SAR Test Cases
Head (DSI = 1)	_ Device positioned next to ear _ Receiver Active	Head SAR per KDB Publication 648474 D04
Body-worn (DSI = 0)	_ Device being used with a body-worn accessory	Body-worn SAR per KDB Publication 648474 D04
Hotspot (DSI = 0)	_ Device transmits in hotspot mode near body _ Hotspot Mode Active	Hotspot SAR per KDB Publication 941225 D06
Phablet (DSI = 0)	_ Device is held to hand	Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04

2.2. SAR design Target

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.

Table 2-2

SAR_design_target			
$SAR_design_target < SAR_regulatory_limit \times 10^{\frac{-Total\ Uncertainty}{10}}$			
1g SAR		10g SAR	
Total Uncertainty	1.0 dB	Total Uncertainty	1.0 dB
SAR_regulatory_limit	1.6 W/kg	SAR_regulatory_limit	4.0 W/kg
SAR_design_target	1.0 W/kg	SAR_design_target	2.5 W/kg



2.3. SAR Char

SAR test results corresponding to P_{max} for each antenna/technology/band/DSI can be found in Part 1 report and SAR results section in this report.

P_{limit} is calculated by linearly scaling with the measured SAR at the P_{part0} to correspond to the SAR_{design_target} . When $P_{limit} < P_{max}$, P_{part0} was used as P_{limit} in the Smart Transmit EFS. When $P_{limit} > P_{max}$ and $P_{part0} = P_{max}$, calculated P_{limit} was used in the Smart Transmit EFS. All reported SAR obtained from the P_{part0} SAR tests was less than $SAR_{Design_target} + 1$ dB Uncertainty. The final P_{limit} determination for each exposure scenario corresponding to SAR_{design_target} is shown in the below table.

Table 2-3

Device State Index (DSI)	P_{limit} Determination Scenarios
0	The worst-case SAR exposure is determined as maximum SAR normalized to the limit (i.e. lowest P_{limit}) among: 1. Body-worn SAR 2. Hotspot SAR 3. Phablet SAR
1	P_{limit} is calculated based on Head SAR

Notes:

- When $P_{max} < P_{limit}$ EFS, the DUT will operate at a power level up to P_{max}
- All P_{limit} EFS and maximum tune up output power P_{max} levels entered in below Table correspond to average power levels after accounting for duty cycle in the case of TDD, GMSK, or OFDM modulation schemes (e.g. GSM, LTE TDD and WLAN/BT).
- Maximum tune up output power P_{max} is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1dB device design uncertainty.
- All MIMO P_{max} and P_{limit} are defined per antenna chain



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Table 2-4

Exposure Scenario			Maximum Tune-Up Output Power*	Body- worn/ Hotspot/ Phablet	Head
DSI				DSI0	DSI1
Band/Mode	Antenna	Antenna Group	Pmax (dBm)	Plimit (dBm)	Plimit (dBm)
GSM 850	A	AG0	25.3	24.3	26.3
GSM 850	E	AG1	25.3	20.8	20.8
GSM 1900	A	AG0	22.1	18.8	27.2
UMTS Band 5	A	AG0	24.0	24.9	25.5
UMTS Band 5	E	AG1	24.0	21.5	20.0
UMTS Band 4	A	AG0	23.0	16.0	24.5
UMTS Band 2	A	AG0	23.0	17.0	25.7
LTE Band 71	A	AG0	24.0	23.0	27.0
LTE Band 71	E	AG1	24.0	21.0	19.0
LTE Band 12	A	AG0	24.0	27.0	27.0
LTE Band 12	E	AG1	24.0	21.0	19.0
LTE Band 13	A	AG0	24.0	24.8	25.6
LTE Band 13	E	AG1	24.0	22.0	21.0
LTE Band 14	A	AG0	24.0	23.0	26.6
LTE Band 14	E	AG1	24.0	22.0	21.0
LTE Band 26	A	AG0	24.0	24.9	25.5
LTE Band 26	E	AG1	24.0	21.5	20.0
LTE Band 5	A	AG0	24.0	24.9	25.5
LTE Band 5	E	AG1	24.0	21.5	20.0
LTE Band 66	A	AG0	23.5	16.0	24.7
LTE Band 66	F	AG1	23.5	17.5	16.5
LTE Band 4	A	AG0	23.5	16.0	24.7
LTE Band 4	F	AG1	23.5	17.5	16.5
LTE Band 25	A	AG0	23.5	17.0	25.7
LTE Band 25	F	AG1	23.5	18.5	17.0
LTE Band 2	A	AG0	23.5	17.0	25.7
LTE Band 2	F	AG1	23.5	18.5	17.0
LTE Band 30	A	AG0	22.0	20.0	29.2
LTE Band 30	F	AG1	22.0	19.0	17.5
LTE Band 7	B	AG0	23.0	18.0	29.9
LTE Band 7	F	AG1	23.0	17.0	15.5
LTE Band 41	B	AG0	22.0	18.0	30.8
LTE Band 41	F	AG1	22.0	18.5	16.0
LTE Band 38	B	AG0	22.0	18.0	30.8
LTE Band 38	F	AG1	22.0	18.5	16.0
LTE Band 48	F	AG1	20.0	18.0	15.0
NR Band n71	A	AG0	24.0	23.0	28.4
NR Band n71	E	AG1	24.0	21.0	19.0
NR Band n12	A	AG0	24.0	26.1	27.9
NR Band n12	E	AG1	24.0	22.0	19.0
NR Band n14	A	AG0	24.0	24.8	27.2
NR Band n14	E	AG1	24.0	21.0	20.5
NR Band n26	A	AG0	24.0	25.0	27.0
NR Band n26	E	AG1	24.0	20.0	20.0
NR Band n5	A	AG0	24.0	25.0	27.0
NR Band n5	E	AG1	24.0	20.0	20.0
NR Band n70	A	AG0	23.5	17.0	25.5
NR Band n70	F	AG1	23.5	20.0	17.0
NR Band n66	A	AG0	23.5	17.0	25.0
NR Band n66	F	AG1	23.5	17.5	16.5
NR Band n25	A	AG0	23.5	19.0	25.7
NR Band n25	F	AG1	23.5	18.5	16.0
NR Band n2	A	AG0	23.5	19.0	25.7
NR Band n2	F	AG1	23.5	18.5	16.0
NR Band n30	A	AG0	22.0	20.0	31.0
NR Band n30	F	AG1	22.0	19.0	17.5
NR Band n7	B	AG0	23.0	18.0	29.9
NR Band n7	F	AG1	23.0	18.5	15.5
NR Band n41 PC2 Default	B	AG0	22.0	17.5	32.5
NR Band n41 PC2 Switching	B	AG0	26.0	17.5	19.5
NR Band n41 PC2 Default	D	AG0	18.0	15.0	13.0
NR Band n41 PC2 Switching	D	AG0	23.0	13.0	11.0
NR Band n41 PC2 Default	E	AG1	23.0	15.0	13.0
NR Band n41 PC2 Switching	E	AG1	20.0	14.0	12.0
NR Band n41 PC2 Default	F	AG1	26.0	18.5	15.0
NR Band n41 PC2 Switching	F	AG1	22.0	16.0	12.5
NR Band n38	B	AG0	24.0	17.0	19.0
NR Band n38	F	AG1	24.0	18.0	15.0
NR Band n48	C	Shared	19.0	15.0	12.0
NR Band n48	D	AG0	17.5	12.5	10.0
NR Band n48	F	AG1	22.0	17.0	14.5
NR Band n48	H	Shared	21.0	18.0	14.0
NR Band n77 PC2	C	Shared	23.0	13.5	12.0
NR Band n77 PC2	D	AG0	21.0	12.0	10.5
NR Band n77 PC2	F	AG1	26.0	16.5	14.5
NR Band n77 PC2	H	Shared	25.0	15.0	13.5
NR Band n78	C	Shared	23.0	13.5	12.0
NR Band n78	D	AG0	21.0	12.0	10.5
NR Band n78	F	AG1	26.0	16.5	14.5
NR Band n78	H	Shared	25.0	15.0	13.5
NTN L-Band Band 255	F	AG1	21.0	18.5	N/A
2.4 GHz WiFi	G	AG1	19.0	17.0	14.0
2.4 GHz WiFi	I	AG1	19.0	17.0	14.0
2.4 GHz WiFi	MIMO (G&I)	AG1	19.0	17.0	14.0
5 GHz WiFi	E	AG1	17.0	14.0	12.0
5 GHz WiFi	G	AG1	17.0	14.0	12.0
5 GHz WiFi	MIMO (G&E)	AG1	17.0	14.0	12.0
6 GHz WiFi	E	AG1	16.0	8.5	13.0
6 GHz WiFi	G	AG1	16.0	8.5	13.0
6 GHz WiFi	MIMO (G&E)	AG1	16.0	8.5	13.0
2.4 GHz Bluetooth LE	G	AG1	14.4	17.1	12.4
2.4 GHz Bluetooth LE	I	AG1	14.4	17.3	12.4
2.4 GHz Bluetooth LE	MIMO (G&I)	AG1	10.4	17.3	9.4



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3. SAR results

Exposure Condition	Exposure Condition	Band/Mode	Antenna	DUT SN	Power Drift [dB]	Maximum Duty Cycle [%]	Measured Duty Cycle [%]	Frequency [MHz]	Channel	Modulation/Configuration	RB/Tone Size or Data Rate [Mbps]	RB/Tone Offset or # of Tx slots, or BW [MHz]	Measured Conducted Power [dBm]	Measured Conducted Power 2nd Ant [dBm]	MPR [dB]	Separation Distance [mm]	Position	Measured 10g SAR [W/kg]	PartD Frame Avg P1mit [dBm]	PartD Overall Frame Avg P1mit [dBm]
Phablet	Phablet Check	GSM 850	A	0154M	-0.06	36.1%	36.1%	848.8	251	GPRS, 3 Tx Slots	N/A	3 Tx Slots	29.02	N/A	N/A	0	Back	1.570	26.61	24.29
Phablet	Phablet check	GSM 850	E	0055M	0.13	36.1%	36.1%	836.6	190	GPRS, 3 Tx Slots	N/A	3 Tx Slots	29.03	N/A	N/A	0	Back	0.824	29.42	22.82
Phablet	Phablet check	GSM 1900	A	0084M	-0.05	48.1%	48.1%	1880	661	GPRS, 4 Tx Slots	N/A	4 Tx Slots	21.68	N/A	N/A	0	Back	1.260	21.47	19.00
Phablet	Phablet check	UMTS Band 5	A	0084M	0.02	100.0%	100.0%	836.6	4183	RMC	N/A	N/A	24.07	N/A	N/A	0	Back	1.280	26.97	24.88
Phablet	Phablet check	UMTS Band 5	E	0022M	0.01	100.0%	100.0%	846.6	4233	RMC	N/A	N/A	21.09	N/A	N/A	0	Front	1.020	24.58	22.32
Phablet	Phablet check	UMTS Band 4	A	0153M	-0.02	100.0%	100.0%	1712.4	1332	RMC	N/A	N/A	15.10	N/A	N/A	0	Back	0.728	20.45	17.35
Phablet	Phablet check	UMTS Band 2	A	0153M	-0.01	100.0%	100.0%	1852.4	9262	RMC	N/A	N/A	16.55	N/A	N/A	0	Back	0.808	21.45	18.25
Phablet	Phablet check	LTE Band 71	A	0084M	-0.03	100.0%	100.0%	680.5	133297	QPSK - 20 MHz	50	25	23.03	N/A	0	0	Back	0.873	27.59	26.79
Phablet	Phablet check	LTE Band 71	E	0055M	0.00	100.0%	100.0%	680.5	133297	QPSK - 20 MHz	1	50	21.10	N/A	0	0	Back	0.706	26.59	23.30
Phablet	Phablet check	LTE Band 12	A	0084M	0.00	100.0%	100.0%	707.5	23095	QPSK - 10 MHz	1	0	23.94	N/A	0	0	Back	0.889	28.43	27.01
Phablet	Phablet check	LTE Band 12	E	0055M	0.00	100.0%	100.0%	707.5	23095	QPSK - 10 MHz	1	25	20.31	N/A	0	0	Back	0.719	25.72	22.29
Phablet	Phablet check	LTE Band 13	A	0084M	0.05	100.0%	100.0%	782	23230	QPSK - 10 MHz	1	25	23.47	N/A	0	0	Back	0.880	28.00	24.79
Phablet	Phablet check	LTE Band 13	E	0055M	0.01	100.0%	100.0%	782	23230	QPSK - 10 MHz	1	25	22.02	N/A	0	0	Back	0.480	29.18	23.20
Phablet	Phablet check	LTE Band 14	A	0084M	-0.04	100.0%	100.0%	793	23330	QPSK - 10 MHz	25	12	23.01	N/A	0	0	Back	0.988	27.04	25.06
Phablet	Phablet check	LTE Band 14	E	0055M	0.02	100.0%	100.0%	793	23330	QPSK - 10 MHz	1	25	21.02	N/A	0	0	Back	0.381	29.19	27.87
Phablet	Phablet check	LTE Band 26	A	0084M	-0.02	100.0%	100.0%	831.5	26865	QPSK - 15 MHz	1	74	23.74	N/A	0	0	Back	1.030	27.59	24.92
Phablet	Phablet check	LTE Band 26	E	0055M	-0.01	100.0%	100.0%	831.5	26865	QPSK - 15 MHz	1	36	21.84	N/A	0	0	Back	0.607	27.98	22.84
Phablet	Phablet check	LTE Band 66	A	0022M	0.04	100.0%	100.0%	1745	132322	QPSK - 20 MHz	50	25	15.54	N/A	0	0	Back	0.921	19.87	18.05
Phablet	Phablet check	LTE Band 66	F	0171M	-0.02	100.0%	100.0%	1745	132322	QPSK - 20 MHz	1	50	17.22	N/A	0	0	Back	0.424	24.92	20.41
Phablet	Phablet check	LTE Band 25	A	0153M	0.02	100.0%	100.0%	1905	26590	QPSK - 20 MHz	50	50	16.04	N/A	0	0	Bottom	0.574	22.43	18.25
Phablet	Phablet check	LTE Band 25	F	0171M	-0.01	100.0%	100.0%	1860	26140	QPSK - 20 MHz	50	0	17.86	N/A	0	0	Back	0.499	24.85	20.66
Phablet	Phablet check	LTE Band 30	A	0151M	0.00	100.0%	100.0%	2310	27710	QPSK - 10 MHz	25	0	19.07	N/A	0	0	Back	1.210	22.22	20.94
Phablet	Phablet check	LTE Band 30	F	0007M	0.02	100.0%	100.0%	2310	27710	QPSK - 10 MHz	1	25	19.07	N/A	0	0	Back	0.481	26.22	21.09
Phablet	Phablet check	LTE Band 7	B	0171M	0.20	100.0%	100.0%	2560	21150	QPSK - 20 MHz	1	0	17.46	N/A	0	0	Back	2.030	18.36	18.36
Phablet	Phablet check	LTE Band 7	F	0153M	-0.02	100.0%	100.0%	2535	21100	QPSK - 20 MHz	1	50	16.08	N/A	0	0	Back	0.364	24.44	18.97
Phablet	Phablet check	LTE Band 41	B	0154M	0.01	63.3%	63.3%	2680	41490	QPSK - 20 MHz	1	0	20.27	N/A	0	0	Back	1.490	20.53	20.53
Phablet	Phablet check	LTE Band 41	F	0007M	-0.02	63.3%	63.3%	2506	39750	QPSK - 20 MHz	1	0	21.37	N/A	0	0	Back	0.947	23.59	19.69
Phablet	Phablet check	LTE Band 48	F	0022M	-0.02	63.3%	63.3%	3560	55340	QPSK - 20 MHz	1	99	19.44	N/A	0	0	Back	0.962	21.60	18.40
Phablet	Phablet check	NR Band n71	A	0058M	0.05	100.0%	100.0%	680.5	136100	DFT-s-OFDM QPSK, 35 MHz	90	49	22.57	N/A	0	0	Back	0.720	27.97	27.57
Phablet	Phablet check	NR Band n71	E	0058M	0.00	100.0%	100.0%	680.5	136100	DFT-s-OFDM QPSK, 35 MHz	90	0	20.80	N/A	0	0	Back	0.263	30.57	23.74
Phablet	Phablet check	NR Band n12	A	0155M	-0.16	100.0%	100.0%	707.5	141500	DFT-s-OFDM QPSK, 15 MHz	36	22	23.29	N/A	0	0	Back	0.749	28.52	26.13
Phablet	Phablet check	NR Band n12	E	0055M	-0.06	100.0%	100.0%	707.5	141500	DFT-s-OFDM QPSK, 15 MHz	36	22	21.97	N/A	0	0	Back	0.635	28.06	22.53
Phablet	Phablet check	NR Band n14	A	0155M	-0.09	100.0%	100.0%	793	158600	DFT-s-OFDM QPSK, 10 MHz	1	1	23.52	N/A	0	0	Back	0.843	28.24	24.75
Phablet	Phablet check	NR Band n14	E	0055M	-0.01	100.0%	100.0%	793	158600	DFT-s-OFDM QPSK, 10 MHz	1	1	20.84	N/A	0	0	Back	0.788	25.85	22.07
Phablet	Phablet check	NR Band n26	A	0155M	-0.16	100.0%	100.0%	831.5	166300	DFT-s-OFDM QPSK, 20 MHz	1	53	23.47	N/A	0	0	Back	0.887	27.97	24.98
Phablet	Phablet check	NR Band n26	E	0055M	-0.07	100.0%	100.0%	831.5	166300	DFT-s-OFDM QPSK, 20 MHz	50	0	19.02	N/A	0	0	Front	0.672	24.72	21.24
Phablet	Phablet check	NR Band n70	A	0153M	0.02	100.0%	100.0%	1702.5	340500	DFT-s-OFDM QPSK, 15 MHz	36	43	16.12	N/A	0	0	Bottom	0.750	21.34	17.34
Phablet	Phablet check	NR Band n70	F	0022M	-0.03	100.0%	100.0%	1702.5	340500	DFT-s-OFDM QPSK, 15 MHz	36	22	20.30	N/A	0	0	Back	0.645	26.18	20.63
Phablet	Phablet check	NR Band n66	A	0153M	-0.06	100.0%	100.0%	1745	349000	DFT-s-OFDM QPSK, 45 MHz	1	1	17.06	N/A	0	0	Bottom	0.861	21.68	17.85
Phablet	Phablet check	NR Band n66	F	0153M	0.04	100.0%	100.0%	1745	349000	DFT-s-OFDM QPSK, 45 MHz	120	61	17.70	N/A	0	0	Front	0.750	22.92	21.45
Phablet	Phablet check	NR Band n25	A	0084M	0.06	100.0%	100.0%	1882.5	376500	DFT-s-OFDM QPSK, 40 MHz	216	0	18.66	N/A	0	0	Bottom	1.360	21.30	19.26
Phablet	Phablet check	NR Band n25	F	0171M	-0.06	100.0%	100.0%	1882.5	376500	DFT-s-OFDM QPSK, 40 MHz	1	1	18.32	N/A	0	0	Back	0.399	26.28	21.91
Phablet	Phablet check	NR Band n30	A	0155M	-0.08	100.0%	100.0%	2310	462000	DFT-s-OFDM QPSK, 10 MHz	25	0	19.20	N/A	0	0	Back	1.090	22.80	22.45
Phablet	Phablet check	NR Band n30	F	0171M	0.03	100.0%	100.0%	2310	462000	DFT-s-OFDM QPSK, 10 MHz	25	27	19.44	N/A	0	0	Back	0.570	25.86	21.25
Phablet	Phablet check	NR Band n7	B	0154M	-0.13	100.0%	100.0%	2535	507000	DFT-s-OFDM QPSK, 50 MHz	135	135	18.25	N/A	0	0	Back	1.490	20.49	19.33
Phablet	Phablet check	NR Band n7	F	0390M	-0.05	100.0%	100.0%	2535	507000	DFT-s-OFDM QPSK, 50 MHz	1	1	18.75	N/A	0	0	Back	1.610	20.66	19.99
Phablet	Phablet check	NR Band n41 PC2 Default	B	0151M	0.05	100.0%	100.0%	2592.99	518598	SRS/CW, 100 MHz	N/A	N/A	19.81	N/A	0	0	Back	2.530	19.75	18.62
Phablet	Phablet check	NR Band n41 PC2 Default	D	0151M	-0.04	100.0%	100.0%	2592.99	518598	SRS/CW, 100 MHz	N/A	N/A	14.79	N/A	0	0	Back	1.030	18.64	17.83
Phablet	Phablet check	NR Band n41 PC2 Default	E	0151M	-0.03	100.0%	100.0%	2592.99	518598	SRS/CW, 100 MHz	N/A	N/A	15.02	N/A	0	0	Back	0.580	21.36	17.72
Phablet	Phablet check	NR Band n41 PC2 Default	F	0151M	0.00	100.0%	100.0%	2592.99	518598	DFT-s-OFDM QPSK, 100 MHz	270	0	18.14	N/A	0	0	Back	0.853	22.80	19.34
Phablet	Phablet check	NR Band n48	C	0055M	-0.20	100.0%	100.0%	3570	638000	SRS/CW, 40 MHz	N/A	N/A	15.29	N/A	0	0	Back	0.568	21.72	20.66
Phablet	Phablet check	NR Band n48	D	0055M	-0.07	100.0%	100.0%	3570	638000	SRS/CW, 40 MHz	N/A	N/A	13.11	N/A	0	0	Back	0.668	18.84	15.27
Phablet	Phablet check	NR Band n48	F	0055M	-0.06	100.0%	100.0%	3624.99	641666	DFT-s-OFDM QPSK, 40 MHz	1	1	17.09	N/A	0	0	Back	1.530	19.22	13.30
Phablet	Phablet check	NR Band n48	H	0055M	-0.08	100.0%	100.0%	3570	638000	SRS/CW, 40 MHz	N/A	N/A	18.00	N/A	0	0	Back	1.980	19.01	19.01
Phablet	Phablet check	NR Band n77 PC2	C	0055M	-0.11	100.0%	100.0%	3930	662000	SRS/CW, 100 MHz	N/A	N/A	13.81	N/A	0	0	Back	0.348	22.37	21.30
Phablet	Phablet check	NR Band n77 PC2	D	0055M	0.00	100.0%	100.0%	3930	662000	SRS/CW, 100 MHz	N/A	N/A	11.42	N/A	0	0	Back	0.253	21.36	24.17
Phablet	Phablet check	NR Band n77 PC2	F	0055M	-0.04	100.0%	100.0%	3750	650000	DFT-s-OFDM QPSK, 100 MHz	135	0	15.79	N/A	0	0	Back	0.430	23.43	18.86
Phablet	Phablet check	NR Band n77 PC2	H	0055M	-0.02	100.0%	100.0%	3930	662000	SRS/CW, 100 MHz	N/A	N/A	15.74	N/A	0	0	Front	0.864	20.35	18.21
Phablet	Phablet check	2.4 GHz WiFi	G	0117M	0.02	100.0%	98.3%	2437	6	IEEE 802.11b - 22 MHz	1	22	17.40	N/A	N/A	0	Back	0.856	21.97	19.77
Phablet	Phablet check	2.4 GHz WiFi	I	0117M	0.01	100.0%	98.8%	2462	11	IEEE 802.11b - 22 MHz	1	22	17.42	N/A	N/A	0	Front	0.881	21.89	19.71
Phablet	Phablet check	2.4 GHz WiFi	MIMO (G&I)	0117M	0.03	100.0%	86.7%	2437	6	IEEE 802.11n - 20 MHz	13	20	16.95	16.99	N/A	0	Back	0.782	21.37	19.52
Phablet	Phablet check	2.4 GHz Bluetooth LE	G	0093M	0.02	87.0%	85.0%	2440	17	QSSS	1	N/A	15.03	N/A	N/A	0	Back	0.798	19.28	17.07



4. Equipment List

Manufacturer	Model	Description	Serial Number	Calibration Date	Calibration Due	CET
Amplifier Research	1554GMM1	RF Broadband Amplifier (4 - 8 GHz)	0554407			✓
Amplifier Research	551G4	RF Broadband Amplifier (800 MHz - 4.2 GHz)	331258			✓
Anritsu	MG3691B	Anritsu MG3691B Signal Generator	54914	3/10/24	3/10/26	
Anritsu	MA24118A	Microwave USB Power Sensor (10MHz - 18 GHz)	2123431	1/13/2025	1/13/2026	
Anritsu	MA24118A	Microwave USB Power Sensor (10MHz - 18 GHz)	2123500	1/13/2025	1/13/2026	
Rohde & Schwarz	NRPS	Power Sensor 10 MHz - 8 GHz	114184	3/10/25	3/10/26	
Rohde & Schwarz	NRPS	Power Sensor 10 MHz - 8 GHz	114183	3/10/25	3/10/26	
Rohde & Schwarz	NRPS	Power Sensor 10 MHz - 8 GHz	114343	6/10/25	6/10/26	
Anritsu	MT800A	MT800A Radio Communication Test Station	6262263936	8/14/2025	8/14/2027	
Anritsu	9820E	Vector Network Analyzer	2348026	11/30/2023	11/30/2025	
Rohde & Schwarz	ZN120	Vector Network Analyzer	051202	9/12/2024	9/12/2026	
Control Company	4040	Ambient Thermometer	230581862	7/17/2025	7/17/2027	
Control Company	4040	Ambient Thermometer	230581867	7/17/2025	7/17/2027	
Control Company	4040	Ambient Thermometer	230581656	7/17/2025	7/17/2027	
Control Company	4352	Long Stem Liquid Thermometer	230662212	4/23/2025	4/23/2027	
Control Company	4352	Long Stem Liquid Thermometer	230662223	4/23/2025	4/23/2027	
Control Company	4352	Long Stem Liquid Thermometer	230662291	4/23/2025	4/23/2027	
Micro-Coax	UFB205A-D-0240-30x30	SMA M-F RF Test Cable (DC - 18 GHz)	-			✓
Mini-Circuits	BW-N20W20+	20dB RF Fixed Attenuator (DC - 18 GHz)	-			✓
Mini-Circuits	BW-N20W20+	20dB RF Fixed Attenuator (DC - 18 GHz)	-			✓
Mini-Circuits	BW-53W2+	5dB RF Fixed Attenuator (DC - 18 GHz)	-			✓
Mini-Circuits	BW-53W2+	5dB RF Fixed Attenuator (DC - 18 GHz)	-			✓
Mini-Circuits	CBL-4FT-SMA6+	Precision Test Cable SMA/N (DC - 18 GHz)	3318			✓
Mini-Circuits	CBL-4FT-SMA6+	Precision Test Cable SMA/N (DC - 18 GHz)	3335			✓
Mini-Circuits	CBL-4FT-SMA6+	Precision Test Cable SMA/N (DC - 18 GHz)	3329			✓
Mini-Circuits	HF-SP50+	RF Adapter N Male to SMA Female (DC - 18 GHz)	-			✓
Mini-Circuits	VLF-8000+	Coaxial Low Pass Filter (DC - 8 GHz)	-			✓
Mini-Circuits	VLF-6000+	Coaxial Low Pass Filter (DC - 6 GHz)	-			✓
Mini-Circuits	VLF-3000+	Coaxial Low Pass Filter (DC - 3 GHz)	-			✓
Mini-Circuits	VLF-1000+	Coaxial Low Pass Filter (DC - 1 GHz)	-			✓
Mitsutoyo	CD-4"AX	Digital Caliper	823943217	8/26/2025	8/26/2027	
Narda	24785-20	20 dB SMA Fixed Attenuator (DC - 4.0 GHz)	-			✓
Narda	4226-20 (26733)	20 dB SMA Directional Coupler (0.5 - 18 GHz)	0201			✓
Rohde & Schwarz	SMV3100B	R&S SMV3100B Vector Signal Generator (VSG)	103882	12/21/2023	12/19/2025	
Rohde & Schwarz	CMW500	CMW500 Radio Communication Test Station	1201.0002950-187186-ef	1/12/2024	1/12/2026	
SPEAG	10 GHz System Verification Source	10 GHz System Verification Source	1074	9/15/2025	9/15/2026	
SPEAG	CLA13	13 MHz System Validation Source	1041	10/12/24	10/12/26	
SPEAG	D1640V2	1640 MHz System Validation Dipole	356	9/13/24	9/13/26	
SPEAG	D1750V2	1750 MHz System Validation Dipole	1205	10/11/2023	10/11/26	
SPEAG	D1900V2	1900 MHz System Validation Dipole	56252	10/6/2023	10/6/26	
SPEAG	D2300V2	2300 MHz System Validation Dipole	1139	10/9/2023	10/9/26	
SPEAG	D2450V2	2450 MHz System Validation Dipole	1112	11/25/2024	11/25/26	
SPEAG	D2600V2	2600 MHz System Validation Dipole	1235	11/15/2024	11/15/26	
SPEAG	D3100V2	3100 MHz System Validation Dipole	1154	10/2/2023	10/2/26	
SPEAG	D3700V2	3700 MHz System Validation Dipole	1130	10/12/2023	10/12/26	
SPEAG	D3900V2	3900 MHz System Validation Dipole	1301	10/2/2023	10/2/26	
SPEAG	D5GHzV2	5GHz System Validation Dipole	1396	11/15/2024	11/15/2026	
SPEAG	D6.5GHzV2	6.5GHz System Validation Dipole	1304	11/14/2024	11/14/2026	
SPEAG	D750V3	750 MHz System Validation Dipole	1235	10/11/2023	10/11/2026	
SPEAG	D835V2	835 MHz System Validation Dipole	46012	10/9/2023	10/9/2026	
SPEAG	DNA4ip	Data Acquisition Electronics with Integ. Power	1843	7/30/2025	7/30/2026	
SPEAG	DNA4ip	Data Acquisition Electronics with Integ. Power	1844	11/6/2025	11/6/2026	
SPEAG	DNA4ip	Data Acquisition Electronics with Integ. Power	1805	4/25/2025	4/25/2026	
SPEAG	DNA4ip	Data Acquisition Electronics with Integ. Power	1838	12/4/2024	12/4/2025	
SPEAG	DNA4ip	Data Acquisition Electronics with Integ. Power	1862	1/24/25	1/16/2026	
SPEAG	DNA4ip	Data Acquisition Electronics with Integ. Power	1839	9/15/25	9/15/2026	
SPEAG	DNA-1.3	DNA-1.3 Dielectric Probe	1104	10/10/2025	10/10/2026	
SPEAG	DNA-3.5	DNA-3.5 Dielectric Probe	1349	8/5/2025	8/5/2026	
SPEAG	EX30V4	SAR Measurement Probe	7872	8/8/2025	8/8/2026	
SPEAG	EX30V4	SAR Measurement Probe	7857	12/18/2024	12/18/2025	
SPEAG	EX30V4	SAR Measurement Probe	7859	5/5/2025	5/5/2026	
SPEAG	EX30V4	SAR Measurement Probe	7836	9/15/2025	9/15/2026	
SPEAG	EX30V4	SAR Measurement Probe	7853	11/7/24	11/7/2025	
SPEAG	EX30V4	SAR Measurement Probe	7853	11/7/25	11/7/2026	
SPEAG	ELUMINW4	emWave Measurement Probe	9600	9/17/2025	9/17/2026	
SPEAG	PowerSource1	Signal Generator	4341	1/9/2025	1/9/2026	
Anritsu	MT8820C	Radio Communication Test Station	6201342024			
Anritsu	MT8820C	Radio Communication Test Station	6201179629			
Anritsu	MT8820C	Radio Communication Test Station	6201342025			
SPEAG	SE UMS 171 E	MMA Modulation and Interference Analyzer	1814			
SPEAG	SE UMS 171 E	MMA Modulation and Interference Analyzer	1817			
SPEAG	SE UMS 171 EA	MMA Modulation and Interference Analyzer	1820			
SPEAG	SE UMS 171 EA	MMA Modulation and Interference Analyzer	1815			
SPEAG	SE UMS 176 C	ANT Wideband Communication Antenna	1579			
SPEAG	SE UMS 176 C	ANT Wideband Communication Antenna	1601			
SPEAG	SE UMS 176 C	ANT Wideband Communication Antenna	1610			
SPEAG	SE UMS 176 C	ANT Wideband Communication Antenna	1590			

✓Note: Components calibrated before testing. Prior to testing, the measurement paths containing a cable, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator, power sensor, or VNA) 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.