COMMERCIAL-IN-CONFIDENCE



Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



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Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary

CW Continuous wave

Calibration is Performed According to the Following Standards

- Internal procedure QA CAL-45-5Gsources
- IEC TR 63170 ED1, "Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz", January 2018

Methods Applied and Interpretation of Parameters

- Coordinate System: z-axis in the waveguide horn boresight, x-axis is in the direction of the E-field, y-axis normal to the others in the field scanning plane parallel to the horn flare and horn flange.
- Measurement Conditions: (1) 10 GHz: The radiated power is the forward power to the horn antenna minus ohmic and mismatch loss. The forward power is measured prior and after the measurement with a power sensor. During the measurements, the horn is directly connected to the cable and the antenna ohmic and mismatch losses are determined by far-field measurements. (2) 30, 45, 60 and 90 GHz: The verification sources are switched on for at least 30 minutes. Absorbers are used around the probe cub and at the ceiling to minimize reflections.
- Horn Positioning: The waveguide horn is mounted vertically on the flange of the waveguide source to allow vertical positioning of the EUmmW probe during the scan. The plane is parallel to the phantom surface. Probe distance is verified using mechanical gauges positioned on the flare of the horn.
- E- field distribution: E field is measured in two x-y-plane (10mm, 10mm + λ/4) with a vectorial E-field probe. The E-field value stated as calibration value represents the E-fieldmaxima and the averaged (1cm² and 4cm²) power density values at 10mm in front of the horn.
- *Field polarization:* Above the open horn, linear polarization of the field is expected. This is verified graphically in the field representation.

Calibrated Quantity

 Local peak E-field (V/m) and average of peak spatial components of the poynting vector (W/m²) averaged over the surface area of 1 cm² and 4cm² at the nominal operational frequency of the verification source. Both square and circular averaging results are listed.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: 5G-Veri10-1053_Oct22

Page 2 of 7

AS) signatories to the EA calibration certificates



Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY8 Module mmWave	V3.0
Phantom	5G Phantom	
Distance Horn Aperture - plane	10 mm	
XY Scan Resolution	dx, dy = 7.5 mm	
Number of measured planes	2 (10mm, 10mm + λ/4)	
Frequency	10 GHz ± 10 MHz	

Calibration Parameters, 10 GHz

Circular Averaging

Distance Horn Aperture to Measured Plane	Prad¹ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m ²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	86.1	147	1.27 dB	54.1	50.1	1.28 dB

Square Averaging

Distance Horn Aperture to Measured Plane	Prad¹ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg (psPDn+, ps	ver Density sPDtot+, psPDmod+) //m ²)	Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	86.1	147	1.27 dB	54.2	50.1	1.28 dB

¹ Assessed ohmic and mismatch loss plus numerical offset: 0.55 dB

Certificate No: 5G-Veri10-1053_Oct22 Page 3 of 7



Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Name, Manufacturer	Dimensions [mm	1	IMEL	DUT Type	
5G Verification Source 10	GHz 100.0 x 100.0 x 1	.72.0	SN: 1053	-	
Exposure Condition	5				
Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	10.0 mm	Validation band	CW	10000.0,	1.0

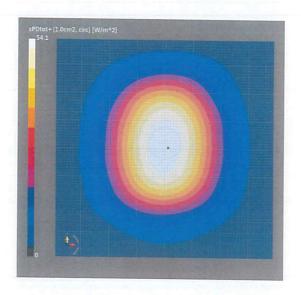
10000

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air		I service and a service defining a second
	60	EUmmWV3 - SN9374_F1-55GHz,	DAE4ip Sn1602,
		2021-12-21	2022-06-27

Scan Setup

Scan Setup		Measurement Results	
	5G Scan		5G Scan
Grid Extents [mm] Grid Steps [lambda] Sensor Surface [mm] MAIA	120.0 x 120.0 0.25 x 0.25 10.0 MAIA not used	Date Avg. Area [cm ²] psPDn+ [W/m ²] psPDtot+ [W/m ²] Emax [V/m] Power Drift [dB]	2022-10-27, 10:18 1.00 54.0 54.1 54.2 147 0.03



Certificate No: 5G-Veri10-1053_Oct22

Page 4 of 7



Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

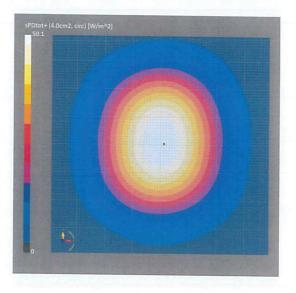
Name, Manufacturer	Dimensions [mm	1]	IMEI	DUT Type	
5G Verification Source	10 GHz 100.0 x 100.0 x 1	172.0	SN: 1053	-	
Exposure Conditio	ins				
Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	10.0 mm	Validation band	CW	10000.0,	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2021-12-21	DAE4ip Sn1602, 2022-06-27

Scan Setup

	Measurement Results	
5G Scan 120.0 × 120.0 0.25 × 0.25 10.0 MAIA not used	Date Avg. Area [cm ²] psPDn+ [W/m ²] psPDtot+ [W/m ²] psPDmod+ [W/m ²] E _{max} [V/m]	5G Scan 2022-10-27, 10:18 4.00 49.9 50.1 50.3 147 0.03
	120.0 x 120.0 0.25 x 0.25 10.0	5G Scan 120.0 x 120.0 Date 0.25 x 0.25 Avg. Area [cm²] 10.0 psPDn+ [W/m²] MAIA not used psPDtot+ [W/m²] psPDmod+ [W/m²]



Certificate No: 5G-Veri10-1053_Oct22

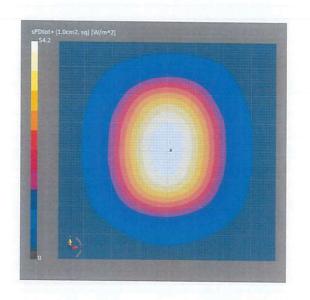
Page 5 of 7



Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type		
5G Verification Source 10 G	Hz 100.0 x 100.0 x 1	.72.0	SN: 1053	-		
Exposure Conditions						
Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Fact	or
5G -	10.0 mm	Validation band	CW	10000.0, 10000	1.0	
Hardware Setup						
Phantom	Medium		Prob	e, Calibration Date	DAE, Calibration Date	
mmWave Phantom - 1002	Air			nWV3 - SN9374_F1-55GHz, -12-21	DAE4ip Sn1602, 2022-06-27	
Scan Setup			Mea	surement Results		
		5G S	can			5G Scan
Grid Extents [mm]		120.0 x 12		e	2022-10-2	
Grid Steps [lambda]		0.25 x 0		. Area [cm²]		1.00
Sensor Surface [mm] MAIA				Dn+ [W/m²]		54.1
MAIA		MAIA not u		Dtot+ [W/m ²]		54.2
				Dmod+ [W/m ²]		54.4
				[V/m]		147
			Pov	/er Drift [dB]		0.03

	5G Scan		
Grid Extents [mm]	120.0 × 120.0	Date	2022
Grid Steps [lambda]	0.25 x 0.25	Avg. Area [cm ²]	2022
Sensor Surface [mm]	10.0	psPDn+ [W/m ²]	
MAIA	MAIA not used	psPDtot+ [W/m ²]	
		psPDmod+ [W/m ²]	
		E _{max} [V/m]	
		Power Drift [dB]	

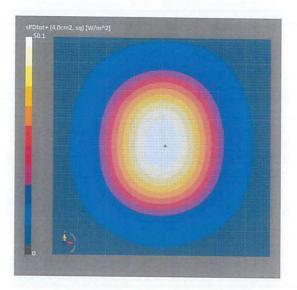


Page 6 of 7



Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Name, Manufacturer	Dimensions [mm]	IME	DUT Type	
5G Verification Source 10 G	Hz 100.0 x 100.0 x 1	.72.0	SN: 1053	-	
Exposure Conditions					
Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	10.0 mm	Validation band	CW	10000.0, 10000	1.0
Hardware Setup	Medium				
nmWave Phantom - 1002	Air		Probe, Calibratio		DAE, Calibration Date
and decimation - 1002	All		EUmmWV3 - SN9 2021-12-21	1374_F1-55GHz,	DAE4ip Sn1602, 2022-06-27
Scan Setup			Measuremen	t Results	
		5G S		e ricourco	5G Scan
Grid Extents [mm]		120.0 x 12	0.0 Date		2022-10-27, 10:18
Grid Steps [lambda]		0.25 x 0	.25 Avg. Area [cm ²]		4.00
Sensor Surface [mm]			0.0 psPDn+ [W/m ²]		49.9
MAIA		MAIA not u	sed psPDtot+ [W/m	2]	50.1
			psPDmod+ [W/r	m²]	50.2
			E _{max} [V/m]		147
			Power Drift [dB]		



Page 7 of 7



ANNEX C

TEST RESULTS



Measurement Report for A2991, BOTTOM, ISM 2.4 GHz Band, Bluetooth Low Energy, Channel 38 (2440.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	ISM 2.4 GHz Band	Bluetooth, 10670-AAA	2440.0, 38	7.76	1.84	39.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 21.60 deg.C 2023-Sep-18 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-18	12-15	12-13

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2023-09-19, 19:25	2023-09-19, 19:34
psSAR1g [W/Kg]	0.219	0.237
psSAR10g [W/Kg]	0.111	0.109
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		71.4
Dist 3dB Peak [mm]		9.0



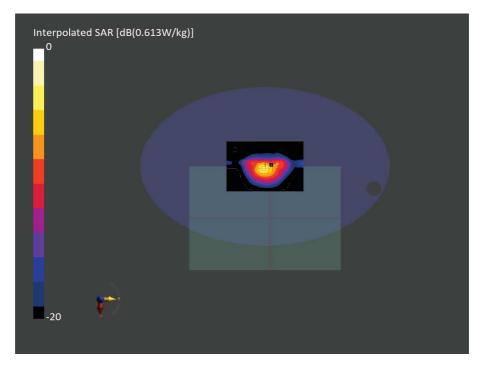


Figure C.1: SAR Testing Results for the A2991 at 2440.0 MHz



Measurement Report for A2991, BOTTOM, ISM 2.4 GHz Band, IEEE 802.15.1 Bluetooth (GFSK, DH5), Channel 0 (2402.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2402.0, 0	7.76	1.81	40.7

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 20.1 deg.C 2023-Sep-08 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-08	12-15	12-13

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 × 30.0 × 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2023-09-08, 09:25	2023-09-08, 09:34
psSAR1g [W/Kg]	0.169	0.179
psSAR10g [W/Kg]	0.077	0.073
Power Drift [dB]	-0.01	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		72.7
Dist 3dB Peak [mm]		8.0



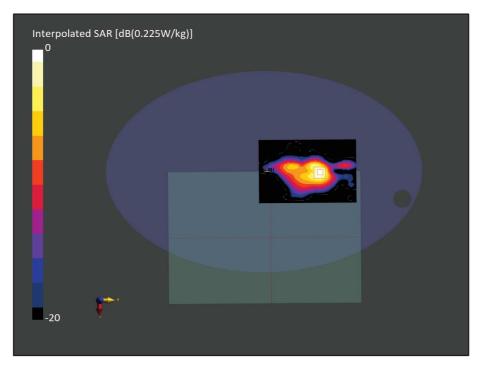


Figure C.2: SAR Testing Results for the A2991 at 2402.0 MHz



Measurement Report for A2991, BOTTOM, ISM 2.4 GHz Band, IEEE 802.15.1 Bluetooth (GFSK, DH5), Channel 78 (2480.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991,	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2480.0, 78	7.76	1.88	40.6

Hardware Setup

Phantom TSL, Measured Date		Phantom TSL, Measured Date		Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 20.1 deg.C 2023-Sep-08 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-		
SN:2057	B1.prn, 2023-Sep-08	12-15	12-13		

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Area Scan	Zoom Scan
2023-09-08, 12:10	2023-09-08, 12:19
0.102	0.103
0.045	0.041
0.07	0.05
Disabled	Disabled
Positive only	Positive only
	71.7
	8.0
	2023-09-08, 12:10 0.102 0.045 0.07 Disabled



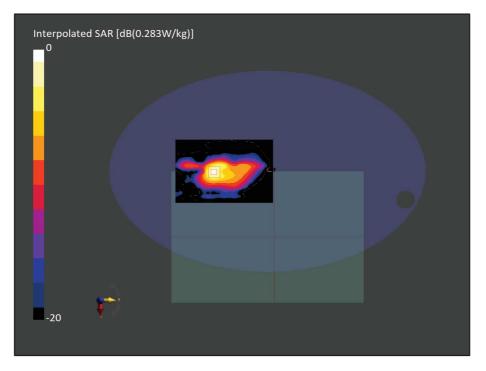


Figure C.3: SAR Testing Results for the A2991 at 2480.0 MHz



Measurement Report for A2991, BOTTOM, Custom Band, CW, Channel 5250000 (5250.0 MHz)

Device Under Test Properties

Model, Manufacturer	r Dimensions [mm]		DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section,	Position, Test	Band	Group,	Frequency [MHz], Channel	Conversion	TSL Conductivity	TSL
TSL	Distance [mm]		UID	Number	Factor	[S/m]	Permittivity
Flat, HSL	BACK, 0.00	Custom Band	CW, 0	5250.0, 5250000	5.75	4.66	35.6

Hardware Setup

Phantom TSL, Measured Date		Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 20.1 deg.C 2023-Sep-08 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-08	12-15	12-13

Scans Setup

Area Scan	Zoom Scan
120.0 x 180.0	22.0 x 22.0 x 22.0
10.0 x 10.0	4.0 x 4.0 x 1.4
3.0	1.4
n/a	Yes
n/a	1.4
Y	Y
VMS + 6p	VMS + 6p
Measured	Measured
	120.0 x 180.0 10.0 x 10.0 3.0 n/a N/a Y VMS + 6p

Meas	urement	Results

	Area Scan	Zoom Scan
Date	2023-09-09, 09:36	2023-09-09, 09:46
psSAR1g [W/Kg]	0.334	0.362
psSAR10g [W/Kg]	0.117	0.111
Power Drift [dB]	0.09	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		61.3
Dist 3dB Peak [mm]		7.4



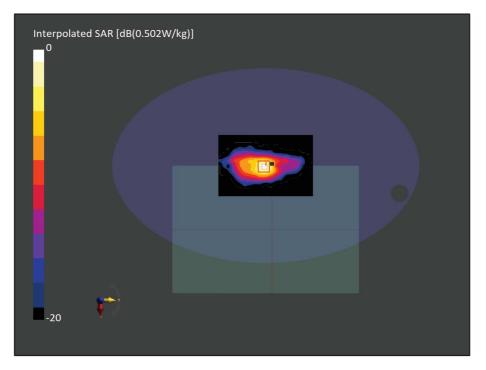


Figure C.4: SAR Testing Results for the A2991 at 5250.0 MHz



Measurement Report for A2991, BOTTOM, Custom Band, CW, Channel 5150000 (5150.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]		DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section,	Position, Test	Band	Group,	Frequency [MHz], Channel	Conversion	TSL Conductivity	TSL
TSL	Distance [mm]		UID	Number	Factor	[S/m]	Permittivity
Flat, HSL	BACK, 0.00	Custom Band	CW, 0	5150.0, 5150000	5.75	4.55	35.8

Hardware Setup

Phantom TSL, Measured Date		Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 20.1 deg.C 2023-Sep-08 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-08	12-15	12-13

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan	
Date	2023-09-09, 10:48	2023-09-09, 10:57	
psSAR1g [W/Kg]	0.296	0.312	
psSAR10g [W/Kg]	0.109	0.112	
Power Drift [dB]	0.02	0.02	
Power Scaling	Disabled	Disabled	
Scaling Factor [dB]			
TSL Correction	Positive only	Positive only	
M2/M1 [%]		63.8	
Dist 3dB Peak [mm]		8.0	



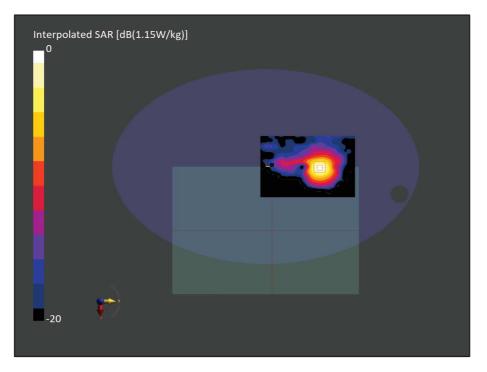


Figure C.5: SAR Testing Results for the A2991 at 5150.0 MHz



Measurement Report for A2991, BOTTOM, Custom Band, CW, Channel 5788000 (5788.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section,	Position, Test	Band	Group,	Frequency [MHz], Channel	Conversion	TSL Conductivity	TSL
TSL	Distance [mm]		UID	Number	Factor	[S/m]	Permittivity
Flat, HSL	BACK, 0.00	Custom Band	CW, 0	5788.0, 5788000	5.12	5.28	34.6

Hardware Setup

Phantom TSL, Measured Date		Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 20.1 deg.C 2023-Sep-08 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-08	12-15	12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results Area Scan Zoom Scan Date 2023-09-09, 12:32 2023-09-09, 12:45 psSAR1g [W/Kg] 0.475 0.535 psSAR10g [W/Kg] 0.163 0.176 Power Drift [dB] 0.01 0.07 Power Scaling Disabled Disabled Scaling Factor [dB] TSL Correction Positive only Positive only M2/M1 [%] 58.0 Dist 3dB Peak [mm] 8.0



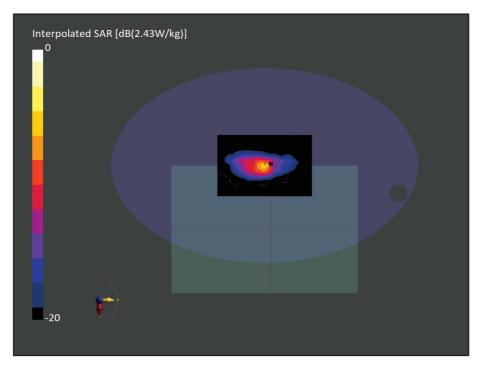


Figure C.6: SAR Testing Results for the A2991 at 5788.0 MHz



Measurement Report for A2991, BOTTOM, Custom Band, CW, Channel 5850000 (5850.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section,	Position, Test	Band	Group,	Frequency [MHz], Channel	Conversion	TSL Conductivity	TSL
TSL	Distance [mm]		UID	Number	Factor	[S/m]	Permittivity
Flat, HSL	BACK, 0.00	Custom Band	CW, 0	5850.0, 5850000	5.12	5.35	34.5

Hardware Setup

Phantom TSL, Measured Date		Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 20.1 deg.C 2023-Sep-08 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-08	12-15	12-13

120.0 x 180.0	22.0 x 22.0 x 22.0
10.0 x 10.0	4.0 x 4.0 x 1.4
3.0	1.4
n/a	Yes
n/a	1.4
Y	Y
VMS + 6p	VMS + 6p
Measured	Measured
	3.0 n/a n/a Y VMS + 6p

Area Scan	Zoom Scan
2023-09-10, 05:10	2023-09-10, 05:19
0.505	0.520
0.180	0.172
-0.01	-0.03
Disabled	Disabled
Positive only	Positive only
	58.0
	8.0
	2023-09-10, 05:10 0.505 0.180 -0.01 Disabled



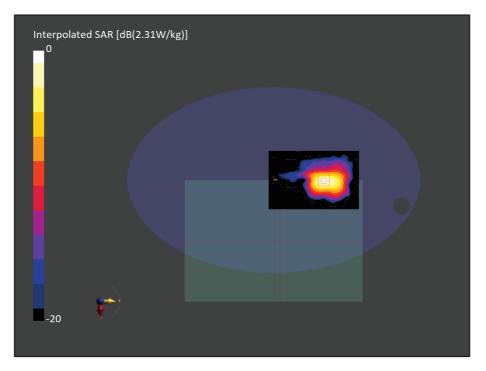


Figure C.7: SAR Testing Results for the A2991 at 5850.0 MHz



Measurement Report for A2991, BOTTOM, Custom Band, CW, Channel 5200000 (5200.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section,	Position, Test	Band	Group,	Frequency [MHz], Channel	Conversion	TSL Conductivity	TSL
TSL	Distance [mm]		UID	Number	Factor	[S/m]	Permittivity
Flat, HSL	BACK, 0.00	Custom Band	CW, 0	5200.0, 5200000	5.75	4.60	35.7

Hardware Setup

Phantom	TSL, Measured Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 20.1 deg.C 2023-Sep-08 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-08	12-15	12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-09-09, 19:24	2023-09-09, 19:37
psSAR1g [W/Kg]	0.203	0.241
psSAR10g [W/Kg]	0.076	0.078
Power Drift [dB]	-0.12	0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		61.6
Dist 3dB Peak [mm]		7.9



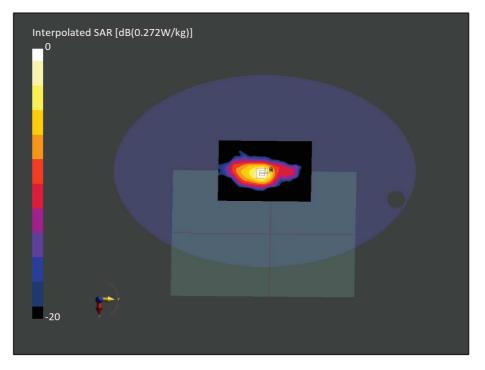


Figure C.8: SAR Testing Results for the A2991 at 5200.0 MHz



Measurement Report for A2991, BOTTOM, Custom Band, CW, Channel 5200000 (5200.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section,	Position, Test	Band	Group,	Frequency [MHz], Channel	Conversion	TSL Conductivity	TSL
TSL	Distance [mm]		UID	Number	Factor	[S/m]	Permittivity
Flat, HSL	BACK, 0.00	Custom Band	CW, 0	5200.0, 5200000	5.75	4.60	35.7

Hardware Setup

Phantom	m TSL, Measured Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 20.1 deg.C 2023-Sep-08 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-08	12-15	12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results Area Scan Zoom Scan Date 2023-09-09, 20:33 2023-09-09, 20:42 psSAR1g [W/Kg] 0.201 0.207 psSAR10g [W/Kg] 0.074 0.069 Power Drift [dB] -0.12 -0.07 Power Scaling Disabled Disabled Scaling Factor [dB] TSL Correction No correction No correction M2/M1 [%] 61.9 Dist 3dB Peak [mm] 8.7



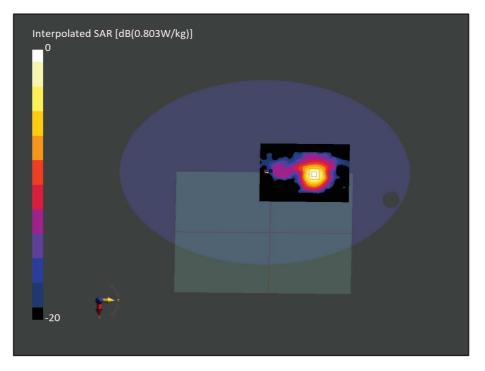


Figure C.9: SAR Testing Results for the A2991 at 5200.0 MHz



Measurement Report for A2991, BOTTOM, Custom Band, CW, Channel 5850000 (5850.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section,	Position, Test	Band	Group,	Frequency [MHz], Channel	Conversion	TSL Conductivity	TSL
TSL	Distance [mm]		UID	Number	Factor	[S/m]	Permittivity
Flat, HSL	BACK, 0.00	Custom Band	CW, 0	5850.0, 5850000	5.12	5.35	34.5

Hardware Setup

Phantom	ntom TSL, Measured Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 20.1 deg.C 2023-Sep-08 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-08	12-15	12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2023-09-09, 22:21	2023-09-09, 22:34
psSAR1g [W/Kg]	0.197	0.226
psSAR10g [W/Kg]	0.072	0.070
Power Drift [dB]	-0.33	0.35
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		55.5
Dist 3dB Peak [mm]		7.6



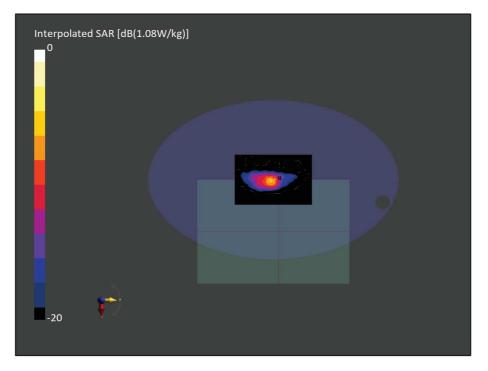


Figure C.10: SAR Testing Results for the A2991 at 5850.0 MHz



Measurement Report for A2991, BOTTOM, Custom Band, CW, Channel 5850000 (5850.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section,	Position, Test	Band	Group,	Frequency [MHz], Channel	Conversion	TSL Conductivity	TSL
TSL	Distance [mm]		UID	Number	Factor	[S/m]	Permittivity
Flat, HSL	BACK, 0.00	Custom Band	CW, 0	5850.0, 5850000	5.12	5.35	34.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 20.1 deg.C 2023-Sep-08 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-08	12-15	12-13

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2023-09-10, 04:11	2023-09-10, 04:19
psSAR1g [W/Kg]	0.189	0.201
psSAR10g [W/Kg]	0.066	0.067
Power Drift [dB]	0.02	-0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		57.6
Dist 3dB Peak [mm]		8.0



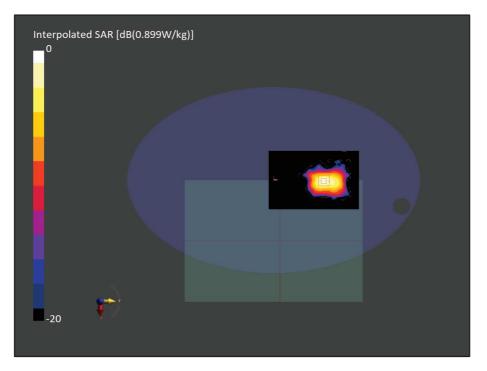


Figure C.11: SAR Testing Results for the A2991 at 5850.0 MHz



Measurement Report for A2991, Bottom, Custom Band, CW, Channel 2440000 (2440.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section,	Position, Test	Band	Group,	Frequency [MHz], Channel	Conversion	TSL Conductivity	TSL
TSL	Distance [mm]		UID	Number	Factor	[S/m]	Permittivity
Flat, HSL	BACK, 0.00	Custom Band	CW, 0	2440.0, 2440000	7.76	1.85	40.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 20.7 deg.C 2023-Sep-10 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-10	12-15	12-13

120.0 x 180.0	00.000.000.0
	30.0 x 30.0 x 30.0
10.0 x 10.0	5.0 x 5.0 x 1.5
3.0	1.4
n/a	Yes
n/a	1.5
N/A	N/A
VMS + 6p	VMS + 6p
Measured	Measured
	3.0 n/a N/A VMS + 6p

	Area Scan	Zoom Scan
Date	2023-09-11, 06:08	2023-09-11, 06:17
psSAR1g [W/Kg]	0.489	0.500
psSAR10g [W/Kg]	0.233	0.225
Power Drift [dB]	0.10	0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		73.6
Dist 3dB Peak [mm]		9.0



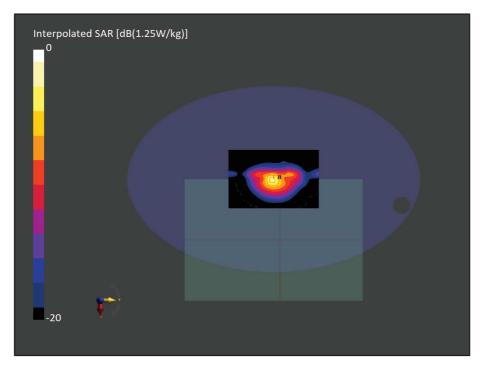


Figure C.12: SAR Testing Results for the A2991 at 2440.0 MHz



Measurement Report for A2991, BOTTOM, Custom Band, CW, Channel 2480000 (2480.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section,	Position, Test	Band	Group,	Frequency [MHz], Channel	Conversion	TSL Conductivity	TSL
TSL	Distance [mm]		UID	Number	Factor	[S/m]	Permittivity
Flat, HSL	BACK, 0.00	Custom Band	CW, 0	2480.0, 2480000	7.76	1.88	40.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 20.7 deg.C 2023-Sep-10 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-10	12-15	12-13

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2023-09-11, 10:23	2023-09-11, 10:32
psSAR1g [W/Kg]	0.580	0.613
psSAR10g [W/Kg]	0.272	0.250
Power Drift [dB]	0.00	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		71.9
Dist 3dB Peak [mm]		8.0



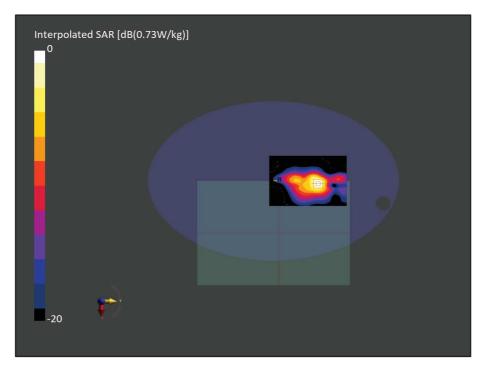


Figure C.13: SAR Testing Results for the A2991 at 2480.0 MHz



Measurement Report for A2991, BOTTOM, Custom Band, CW, Channel 2480000 (2480.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section,	Position, Test	Band	Group,	Frequency [MHz], Channel	Conversion	TSL Conductivity	TSL
TSL	Distance [mm]		UID	Number	Factor	[S/m]	Permittivity
Flat, HSL	BACK, 0.00	Custom Band	CW, 0	2480.0, 2480000	7.76	1.88	40.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 20.7 deg.C 2023-Sep-10 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-10	12-15	12-13

120.0 x 180.0	30.0 x 30.0 x 30.0
10.0 x 10.0	5.0 x 5.0 x 1.5
3.0	1.4
n/a	Yes
n/a	1.5
Y	Y
VMS + 6p	VMS + 6p
Measured	Measured
_	n/a n/a Y VMS + 6p

Area Scan	Zoom Scan
2023-09-11, 12:31	2023-09-11, 12:40
0.033	0.032
0.015	0.011
0.01	0.10
Disabled	Disabled
Positive only	Positive only
	69.5
	8.0
	2023-09-11, 12:31 0.033 0.015 0.01 Disabled



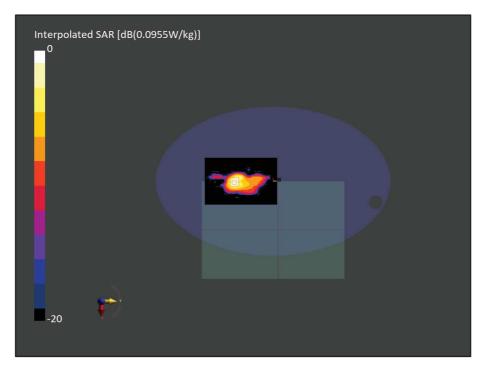


Figure C.14: SAR Testing Results for the A2991 at 2480.0 MHz



Measurement Report for A2991, BOTTOM, Custom Band, CW, Channel 2405000 (2405.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section,	Position, Test	Band	Group,	Frequency [MHz], Channel	Conversion	TSL Conductivity	TSL
TSL	Distance [mm]		UID	Number	Factor	[S/m]	Permittivity
Flat, HSL	BACK, 0.00	Custom Band	CW, 0	2405.0, 2405000	7.76	1.82	40.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 20.7 deg.C 2023-Sep-10 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-10	12-15	12-13

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Area Scan	Zoom Scan	
2023-09-12, 06:17	2023-09-12, 06:26	
0.150	0.159	
0.073	0.072	
0.03	-0.03	
Disabled	Disabled	
Positive only	Positive only	
	72.6	
	9.0	
	2023-09-12, 06:17 0.150 0.073 0.03 Disabled	



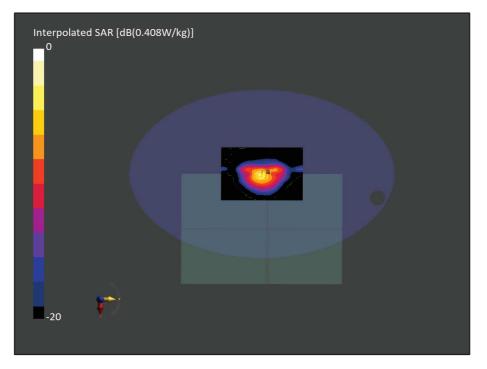


Figure C.15: SAR Testing Results for the A2991 at 2405.0 MHz



Measurement Report for A2991, BOTTOM, Custom Band, CW, Channel 2440000 (2440.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section,	Position, Test	Band	Group,	Frequency [MHz], Channel	Conversion	TSL Conductivity	TSL
TSL	Distance [mm]		UID	Number	Factor	[S/m]	Permittivity
Flat, HSL	BACK, 0.00	Custom Band	CW, 0	2440.0, 2440000	7.76	1.85	40.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 20.7 deg.C 2023-Sep-10 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-10	12-15	12-13

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2023-09-12, 07:00	2023-09-12, 07:09
psSAR1g [W/Kg]	0.185	0.187
psSAR10g [W/Kg]	0.082	0.078
Power Drift [dB]	-0.06	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		72.6
Dist 3dB Peak [mm]		8.0



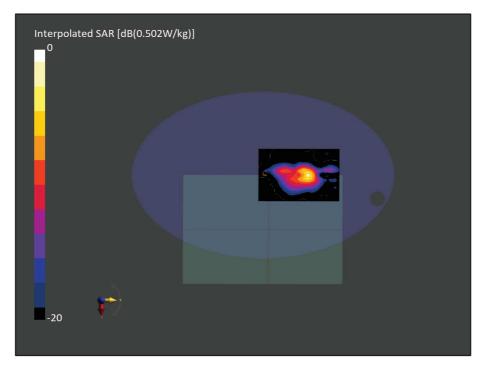


Figure C.16: SAR Testing Results for the A2991 at 2440.0 MHz



Measurement Report for A2991, Bottom, WLAN 2.4GHz, IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle), Channel 6 (2437.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	WLAN 2.4GHz	WLAN, 10416-AAA	2437.0, 6	7.76	1.86	41.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 19.9 deg.C 2023-Sep-04 SYS1 B1, 2023-Sep-04	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057		12-15	12-13

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2023-09-05, 12:19	2023-09-05, 12:28
psSAR1g [W/Kg]	0.625	0.669
psSAR10g [W/Kg]	0.307	0.305
Power Drift [dB]	0.01	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		71.2
Dist 3dB Peak [mm]		9.0



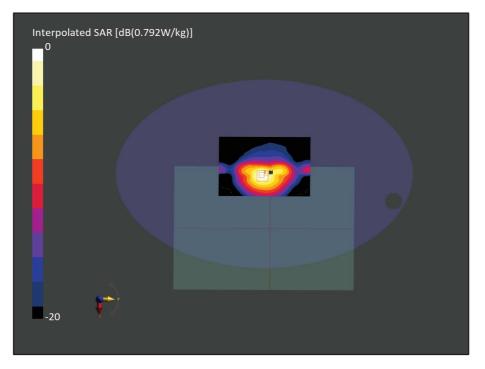


Figure C.17: SAR Testing Results for the A2991 at 2437.0 MHz



Measurement Report for A2991, BOTTOM, WLAN 2.4GHz, IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle), Channel 11 (2462.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	WLAN 2.4GHz	WLAN, 10416-AAA	2462.0, 11	7.76	1.86	39.5

Hardware Setup

Phantom	Phantom TSL, Measured Date		TSL, Measured Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 21.60 deg.C 2023-Sep-18 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-		
SN:2057	B1.prn, 2023-Sep-18	12-15	12-13		

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 × 30.0 × 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2023-09-18, 22:53	2023-09-18, 23:02
psSAR1g [W/Kg]	0.590	0.611
psSAR10g [W/Kg]	0.267	0.250
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		72.6
Dist 3dB Peak [mm]		8.0



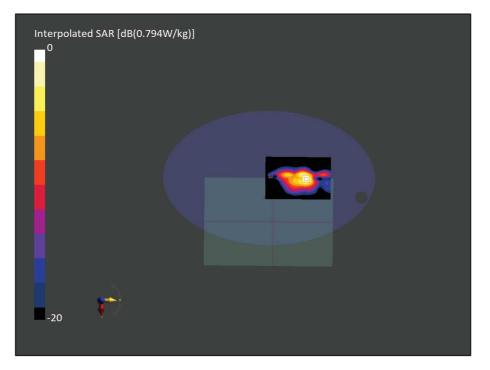


Figure C.18: SAR Testing Results for the A2991 at 2462.0 MHz



Measurement Report for A2991, BOTTOM, WLAN 2.4GHz, IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK), Channel 6 (2437.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	WLAN 2.4GHz	WLAN, 10193-CAD	2437.0, 6	7.76	1.86	41.1

Hardware Setup

Phantom	TSL, Measured Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 19.9 deg.C 2023-Sep-04 SYS1 B1, 2023-Sep-04	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057		12-15	12-13

Scans Setup

	Area Scan	Zoom Scan	Zoom Scan
Grid Extents [mm]	x 240.0	30.0 x 30.0 x 30.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	n/a	Yes	Yes
Grading Ratio	n/a	1.5	1.5
MAIA	N/A	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

	Area Scan	Zoom Scan	Zoom Scan
Date	2023-09-05, 19:40	2023-09-05, 19:49	2023-09-05, 19:58
psSAR1g [W/Kg]	0.623	0.621	0.685
psSAR10g [W/Kg]	0.314	0.263	0.314
Power Drift [dB]	0.01	0.00	0.01
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	Positive only	Positive only	Positive only
M2/M1 [%]		72.6	73.0
Dist 3dB Peak [mm]		8.0	9.0



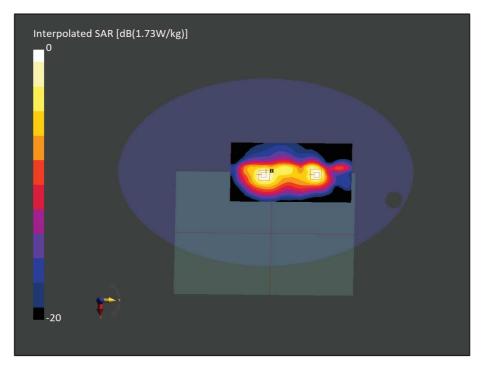


Figure C.19: SAR Testing Results for the A2991 at 2437.0 MHz



Measurement Report for A2991, Bottom, WLAN 5GHz, IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle), Channel 42 (5210.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	360.0 x 250.0 x 20.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	WLAN 5GHz	WLAN, 10544- AAC	5210.0, 42	5.75	4.65	35.9

Hardware Setup

Phantom	Phantom TSL, Measured Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 19.9 deg.C 2023-Sep-04 SYS1 B1, 2023-Sep-04	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057		12-15	12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results Area Scan Zoom Scan Date 2023-09-06, 02:32 2023-09-06, 02:22 psSAR1g [W/Kg] 0.478 0.551 psSAR10g [W/Kg] 0.174 0.178 Power Drift [dB] -0.11 -0.09 Power Scaling Disabled Disabled Scaling Factor [dB] TSL Correction Positive only Positive only M2/M1 [%] 61.9 Dist 3dB Peak [mm] 7.9



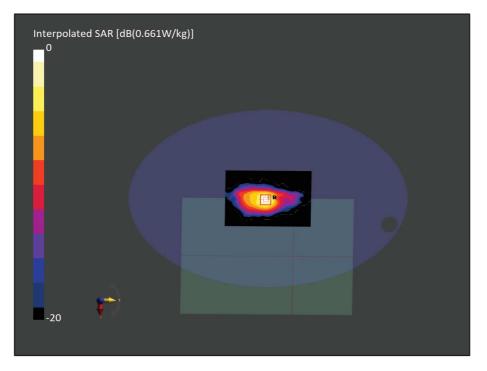


Figure C.20: SAR Testing Results for the A2991 at 5210.0 MHz



Measurement Report for A2991, Bottom, WLAN 5GHz, IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle), Channel 42 (5210.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	360.0 x 250.0 x 20.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	WLAN 5GHz	WLAN, 10544- AAC	5210.0, 42	5.75	4.65	35.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 19.9 deg.C 2023-Sep-04 SYS1 B1, 2023-Sep-04	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057		12-15	12-13

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2023-09-06, 05:24	2023-09-06, 05:32
psSAR1g [W/Kg]	0.508	0.526
psSAR10g [W/Kg]	0.183	0.188
Power Drift [dB]	0.00	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		63.1
Dist 3dB Peak [mm]		8.7



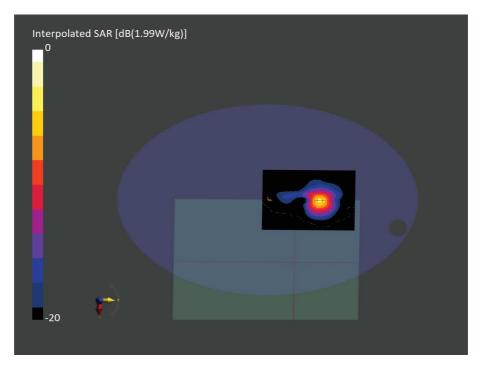


Figure C.21: SAR Testing Results for the A2991 at 5210.0 MHz



Measurement Report for A2991, BOTTOM, WLAN 5GHz, IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle), Channel 42 (5210.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	WLAN 5GHz	WLAN, 10544- AAC	5210.0, 42	5.75	4.65	35.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 19.9 deg.C 2023-Sep-04 SYS1 B1, 2023-Sep-04	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057		12-15	12-13

Scans Setup

	Area Scan	Zoom Scan	Zoom Scan
Grid Extents [mm]	x 240.0	22.0 x 22.0 x 22.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	n/a	Yes	Yes
Grading Ratio	n/a	1.4	1.4
MAIA	Y	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

	Area Scan	Zoom Scan	Zoom Scan
Date	2023-09-05, 22:49	2023-09-05, 23:03	2023-09-05, 23:16
psSAR1g [W/Kg]	0.453	0.525	0.416
psSAR10g [W/Kg]	0.165	0.174	0.141
Power Drift [dB]	0.05	0.06	0.00
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	No correction	No correction	No correction
M2/M1 [%]		62.9	63.9
Dist 3dB Peak [mm]		8.4	8.8



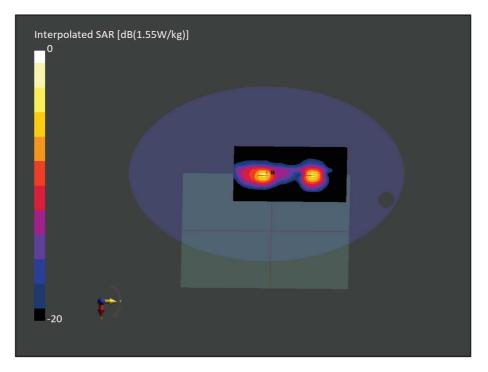


Figure C.22: SAR Testing Results for the A2991 at 5210.0 MHz



Measurement Report for A2991, BOTTOM, WLAN 5GHz, IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle), Channel 138 (5690.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

1								
	Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
	Flat, HSL	BACK, 0.00	WLAN 5GHz	WLAN, 10544- AAC	5690.0, 138	5.1	5.10	34.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 19.6 deg.C 2023-Sep-06 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-06	12-15	12-13

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

|--|

	Area Scan	Zoom Scan
Date	2023-09-06, 14:35	2023-09-06, 14:45
psSAR1g [W/Kg]	0.445	0.530
psSAR10g [W/Kg]	0.167	0.177
Power Drift [dB]	-0.15	-0.16
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		57.2
Dist 3dB Peak [mm]		7.9



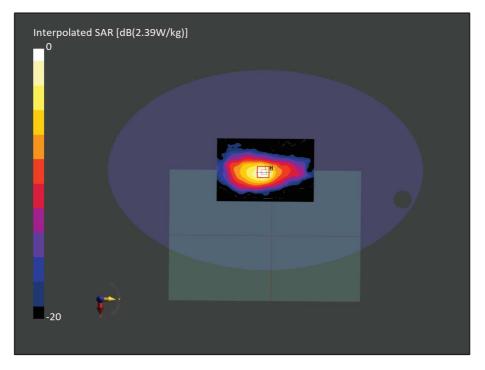


Figure C.23: SAR Testing Results for the A2991 at 5690.0 MHz



Measurement Report for A2991, BOTTOM, WLAN 5GHz, IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle), Channel 106 (5530.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	WLAN 5GHz	WLAN, 10544- AAC	5530.0, 106	5.2	4.91	34.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 19.6 deg.C 2023-Sep-06 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-06	12-15	12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results Area Scan Zoom Scan Date 2023-09-06, 19:48 2023-09-06, 19:35 psSAR1g [W/Kg] 0.472 0.510 psSAR10g [W/Kg] 0.179 0.178 Power Drift [dB] 0.07 0.19 Power Scaling Disabled Disabled Scaling Factor [dB] TSL Correction Positive only Positive only M2/M1 [%] 59.4 Dist 3dB Peak [mm] 8.8



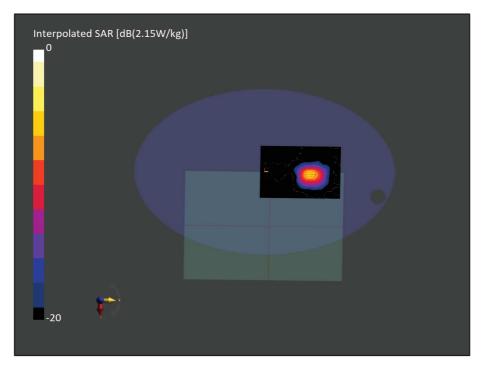


Figure C.24: SAR Testing Results for the A2991 at 5530.0 MHz



Measurement Report for A2991, BOTTOM, WLAN 5GHz, IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle), Channel 138 (5690.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	WLAN 5GHz	WLAN, 10544- AAC	5690.0, 138	5.1	5.10	34.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 19.6 deg.C 2023-Sep-06 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-06	12-15	12-13

Scans Setup

	Area Scan	Zoom Scan	Zoom Scan
Grid Extents [mm]	x 240.0	22.0 x 22.0 x 22.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	n/a	Yes	Yes
Grading Ratio	n/a	1.4	1.4
MAIA	Y	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

	Area Scan	Zoom Scan	Zoom Scan
Date	2023-09-06, 22:26	2023-09-06, 22:39	2023-09-06, 22:49
psSAR1g [W/Kg]	0.491	0.509	0.615
psSAR10g [W/Kg]	0.186	0.173	0.199
Power Drift [dB]	-0.04	-0.09	-0.11
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	Positive only	Positive only	Positive only
M2/M1 [%]		58.1	56.6
Dist 3dB Peak [mm]		8.2	7.9



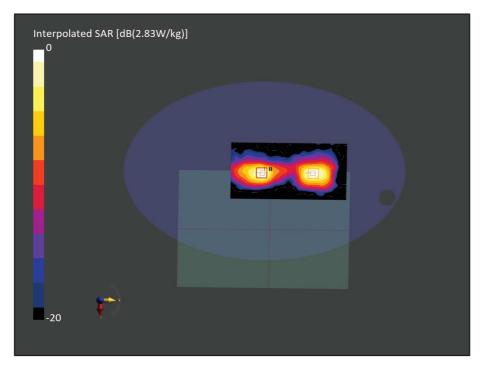


Figure C.25: SAR Testing Results for the A2991 at 5690.0 MHz



Measurement Report for A2991, Bottom, WLAN 5GHz, IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle), Channel 155 (5775.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	WLAN 5GHz	WLAN, 10544- AAC	5775.0, 155	5.12	5.19	34.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 19.6 deg.C 2023-Sep-06 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-06	12-15	12-13

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2023-09-07, 06:40	2023-09-07, 06:50
psSAR1g [W/Kg]	0.445	0.518
psSAR10g [W/Kg]	0.160	0.176
Power Drift [dB]	-0.06	-0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		55.2
Dist 3dB Peak [mm]		8.1



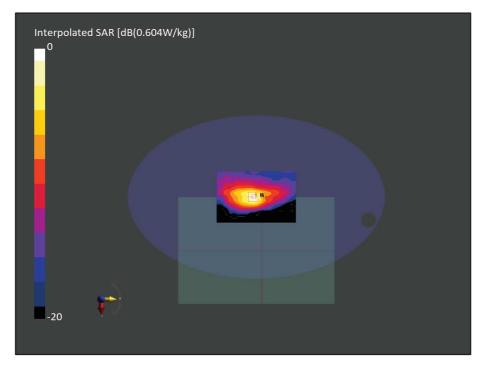


Figure C.26: SAR Testing Results for the A2991 at 5775.0 MHz



Measurement Report for A2991, Bottom, WLAN 5GHz, IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle), Channel 155 (5775.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	WLAN 5GHz	WLAN, 10544- AAC	5775.0, 155	5.12	5.19	34.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 19.6 deg.C 2023-Sep-06 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-06	12-15	12-13

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Area Scan	Zoom Scan
2023-09-07, 06:14	2023-09-07, 06:28
0.401	0.450
0.144	0.160
0.07	0.11
Disabled	Disabled
Positive only	Positive only
	56.5
	8.0
	2023-09-07, 06:14 0.401 0.144 0.07 Disabled



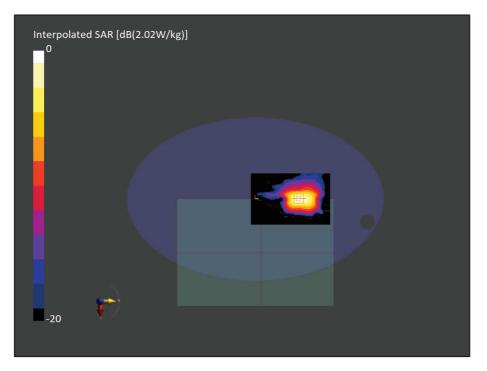


Figure C.27: SAR Testing Results for the A2991 at 5775.0 MHz



Measurement Report for A2991, Bottom, WLAN 5GHz, IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle), Channel 155 (5775.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	WLAN 5GHz	WLAN, 10544- AAC	5775.0, 155	5.12	5.19	34.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 19.6 deg.C 2023-Sep-06 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-06	12-15	12-13

	Area Scan	Zoom Scan	Zoom Scan
Grid Extents [mm]	120.0 x 220.0	22.0 x 22.0 x 22.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	n/a	Yes	Yes
Grading Ratio	n/a	1.4	1.4
MAIA	Y	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

	Area Scan	Zoom Scan	Zoom Scan
Date	2023-09-07, 05:12	2023-09-07, 05:25	2023-09-07, 05:35
psSAR1g [W/Kg]	0.413	0.453	0.520
psSAR10g [W/Kg]	0.157	0.155	0.170
Power Drift [dB]	-0.15	-0.10	-0.10
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	Positive only	Positive only	Positive only
M2/M1 [%]		56.6	54.2
Dist 3dB Peak [mm]		8.8	7.2



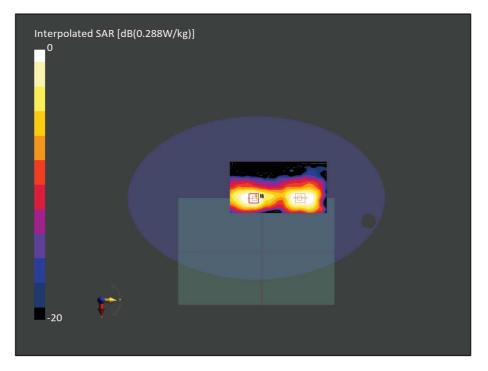


Figure C.28: SAR Testing Results for the A2991 at 5775.0 MHz



Measurement Report for A2991, BOTTOM, U-NII-7, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	U-NII- 7	WLAN, 10755- AAC	6665.0, 143	5.5	6.34	33.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 20.1 deg.C 2023-Sep-08 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-08	12-15	12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2023-09-08, 14:44	2023-09-08, 14:56
psSAR1g [W/Kg]	0.349	0.408
psSAR8g [W/Kg]	0.128	0.145
psSAR10g [W/Kg]	0.112	0.126
Power Drift [dB]	-0.04	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		45.1
Dist 3dB Peak [mm]		6.8



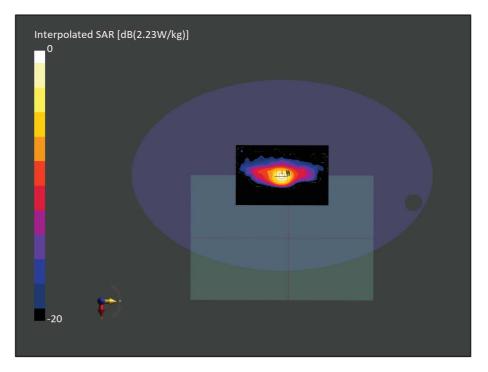


Figure C.29: SAR and APD Testing Results for the A2991 at 6665.0 MHz



Measurement Report for A2991, BOTTOM, U-NII-8, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	U-NII- 8	WLAN, 10755- AAC	6985.0, 207	5.5	6.72	32.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 20.1 deg.C 2023-Sep-08 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-08	12-15	12-13

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

	Area Scan	Zoom Scan
Date	2023-09-08, 23:17	2023-09-08, 23:27
psSAR1g [W/Kg]	0.368	0.394
psSAR8g [W/Kg]	0.132	0.141
psSAR10g [W/Kg]	0.117	0.123
Power Drift [dB]	-0.2	-0.2
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	Positive only	Positive only
M2/M1 [%]		44.0
Dist 3dB Peak [mm]		8.2



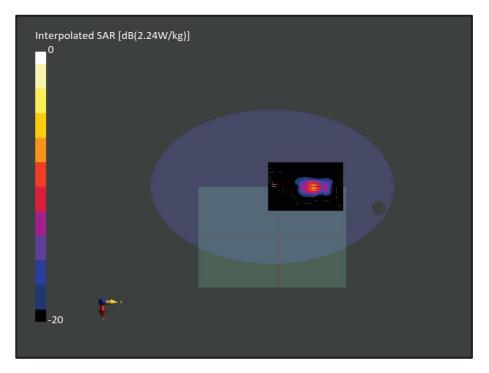


Figure C.30: SAR and APD Testing Results for the A2991 at 6985.0 MHz



Measurement Report for A2991, BOTTOM, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	355.0 x 250.0 x 15.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	U-NII- 5	WLAN, 10755- AAC	6345.0, 79	5.5	5.79	33.1

Hardware Setup

Phantom	Phantom TSL, Measured Date		DAE, Calibration Date
ELI V8.0 (20deg probe tilt) -	HBBL-600-10000 DAK 3.5 Head 21.80 deg.C 2023-Sep-14 SYS1	EX3DV4 - SN3759, 2022-	DAE4 Sn475, 2022-
SN:2057	B1.prn, 2023-Sep-14	12-15	12-13

Scans Setup

	Area Scan	Zoom Scan	Zoom Scan
Grid Extents [mm]	x 240.0	22.0 x 22.0 x 22.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	3.4 x 3.4 x 1.4	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	n/a	Yes	Yes
Grading Ratio	n/a	1.4	1.4
MAIA	Y	Y	Y
Surface Detection	VMS + 6p	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured	Measured

	Area Scan	Zoom Scan	Zoom Scan
Date	2023-09-14, 20:44	2023-09-14, 21:00	2023-09-14, 21:15
psSAR1g [W/Kg]	0.341	0.416	0.264
psSAR8g [W/Kg]	0.129	0.154	0.103
psSAR10g [W/Kg]	0.114	0.135	0.091
Power Drift [dB]	-0.10	-0.08	-0.09
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	Positive only	Positive only	Positive only
M2/M1 [%]		49.1	50.8
Dist 3dB Peak [mm]		8.0	8.0



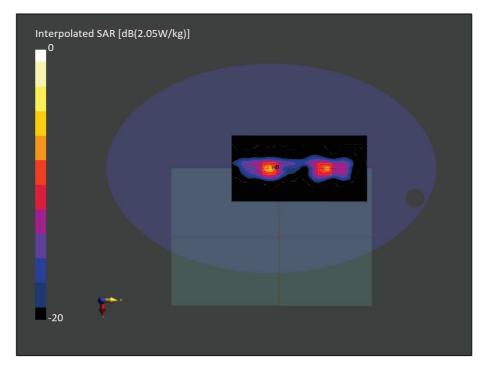


Figure C.31: SAR and APD Testing Results for the A2991 at 6345.0 MHz



Measurement Report for A2991, BOTTOM, U-NII-5, UID 10755 AAC, Channel 79 (6345.0MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
A2991	310.0 x 220.0 x 10.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
5G Air	BACK, 2.00	U-NII- 5	WLAN, 10755-AAC	6345.0,79	1.0	-	-

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1112	Air	EUmmWV4 - SN9641_F1-55.0 GHz, 2022-10-25	DAE4ip Sn1785, 2023-04-03

Scans Setup

Scans Setup				
	5G Scan			
Grid Extents [mm]	120.0 x 100.0			
Grid Steps [lambda]	0.043202144247958554 x 0.043202144247958554			
Sensor Surface [mm]	2.0			
MAIA	Y			

	5G Scan
Date	2023-09-15, 15:27
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	5.62
psPDtot+ [W/m ²]	6.32
psPDmod+ [W/m²]	6.48
E _{max} [V/m]	57.6
Power Drift [dB]	-0.05





Figure C.32: iPD Testing Results for the A2991 at 6345.0 MHz



ANNEX D

THREAD TECHNOLOGY DUTY FACTOR CORRECTION



A2991 Thread Scaling Rationale

The measured SAR Results for the Thread RAT, as detailed in TUV SUD SAR Reports (Document 75958013-14 Issue 01 – **A2991**) & (Document 75958013-15 Issue 01 – **A2991**) were scaled down from 100% duty cycle to 60.13% to adjust for the normal operating conditions of this technology.

With the measured SAR Results having been taken with the device operating in a test mode, on a fixed channel with 100% duty cycle, as shown below in figure 3.

Duty Cycle used or SAR Measurements

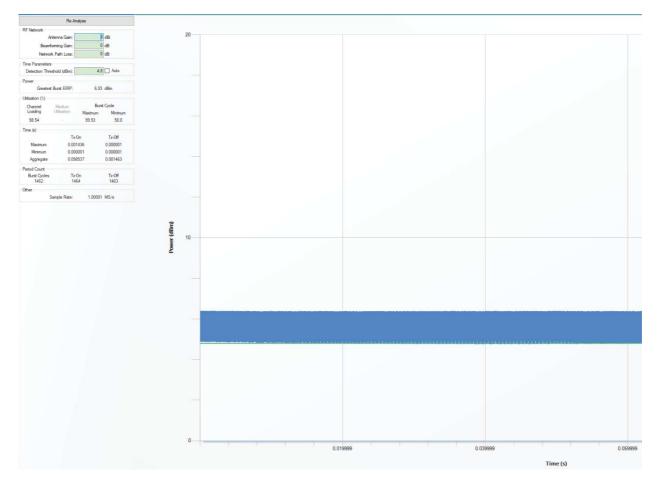


Figure 3 – Thread ePA - Frequency of 2405 MHz (100 % Duty Cycle – Measured 99.93%)



And the normal dwell time for this FHSS technology, having subsequently been measured at 60.13% duty cycle, when the device was configured to operate on a single hopping channel, as shown below in figure 4.

Duty Cycle used for Normal Operation.

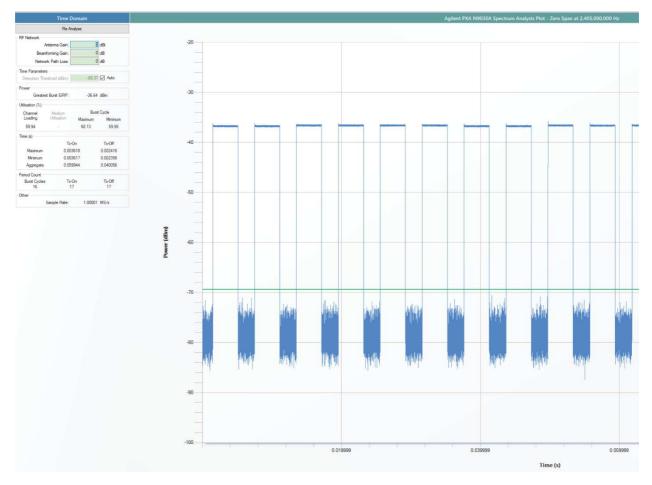


Figure 4 - Thread ePA - Frequency of 2405 MHz (60.13% Duty Cycle)