

## Plots of System Verification

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### Appendix A. Plots of System Verification

The plots for system verification are shown as follows.

# Plots of System Verification

## Measurement Report

S01 System Check\_H2450\_240514

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

### 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,	,		CW, 0--	2450.000, 0	6.71	1.75	41.7

### Hardware Setup

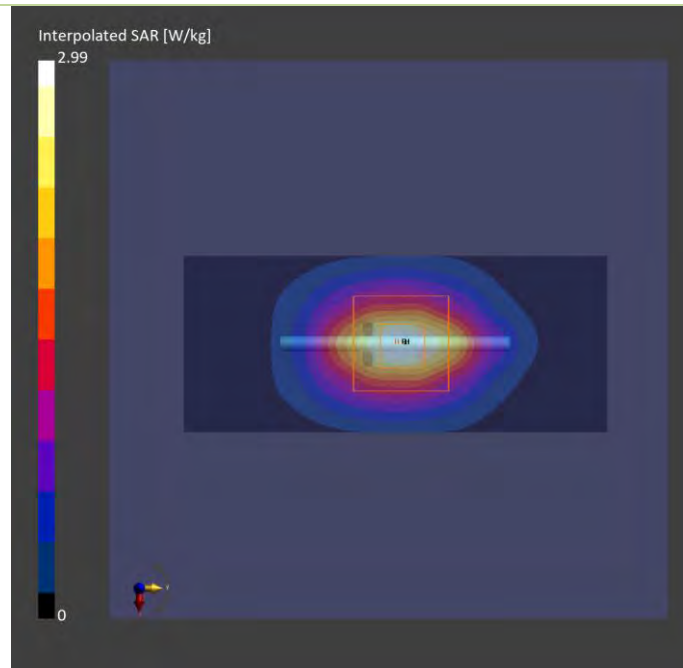
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2186	H06T27N8 , 2024-May-14	EX3DV4 - SN7736, 2024-02-01	DAE4 Sn1761, 2023-11-17

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 108.0	35.0 x 35.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-14	2024-05-14
psSAR1g [W/kg]	2.24	2.39
psSAR10g [W/kg]	1.03	1.13
Power Drift [dB]	0.03	-0.05



# Plots of System Verification

## Measurement Report

S02 System Check\_H5250\_240520

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole,	10.0 x 10.0 x 300.0		

### 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,	,		CW, 0--	5250	5.92	4.28	33.4

### Hardware Setup

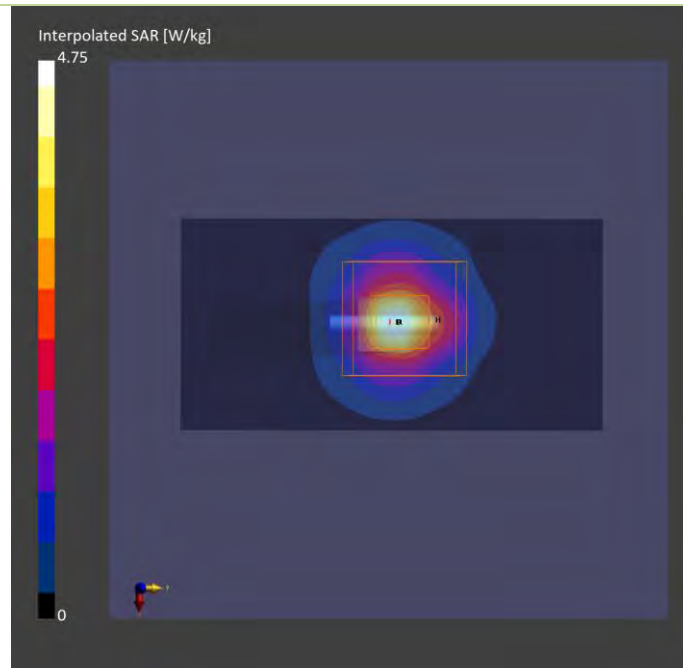
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-20	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 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

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-20	2024-05-20
psSAR1g [W/kg]	2.97	3.67
psSAR10g [W/kg]	0.871	1.21
Power Drift [dB]	0.05	-0.01



# Plots of System Verification

## Measurement Report S03 System Check\_H5600\_240520 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

## 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,	,		CW, 0--	5600	5.04	4.63	32.9

## Hardware Setup

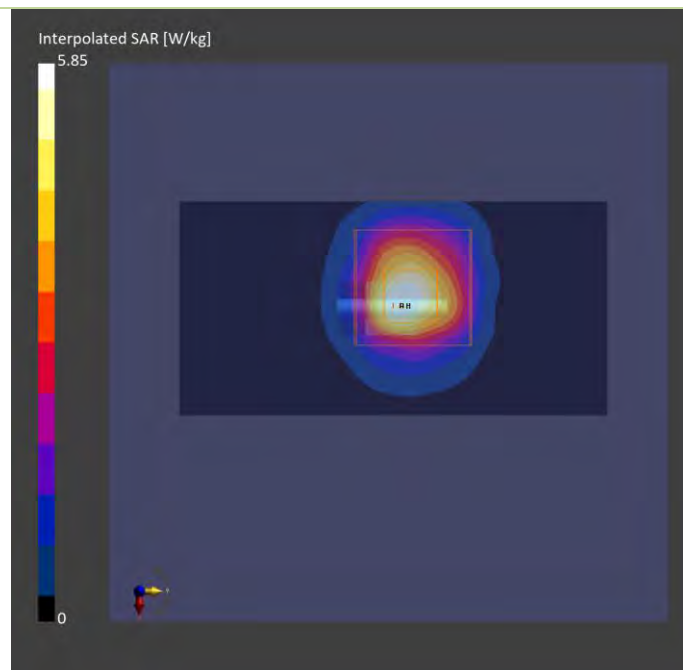
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-20	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 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

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-20	2024-05-20
psSAR1g [W/kg]	4.11	4.52
psSAR10g [W/kg]	1.29	1.28
Power Drift [dB]	-0.01	-0.04



# Plots of System Verification

## Measurement Report S04 System Check\_H5750\_240516 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

## 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,	,			5750.000,	5.31	5.03	36.8

## Hardware Setup

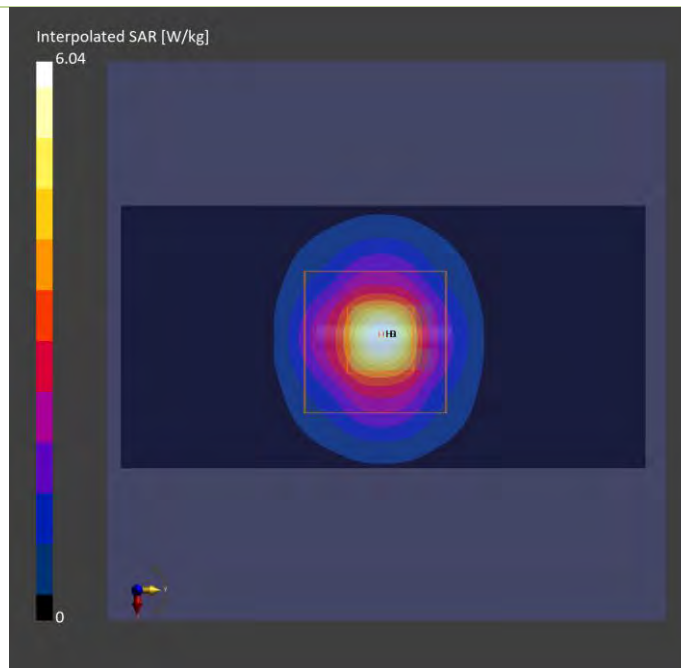
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-16	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 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

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-16	2024-05-16
psSAR1g [W/kg]	3.75	3.94
psSAR10g [W/kg]	1.08	1.11
Power Drift [dB]	0.02	-0.01



# Plots of System Verification

## Measurement Report

S05a System Check\_H5750\_240516

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

### 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,	,			5750.000,	5.31	5.03	36.8

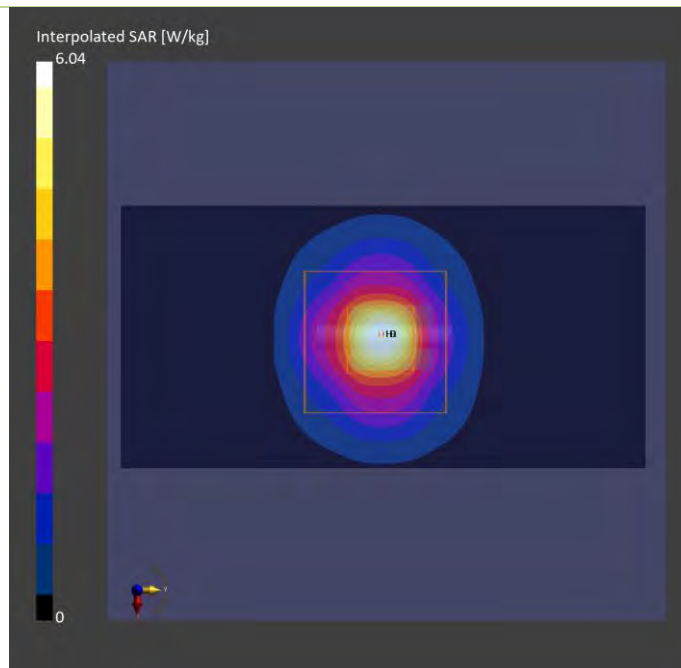
### Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-16	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

### Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 x 22.0	Date	2024-05-16	2024-05-16
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR1g [W/kg]	3.75	3.94
Sensor Surface [mm]	3.0	1.4	psSAR10g [W/kg]	1.08	1.11
			Power Drift [dB]	0.02	-0.01

### Measurement Results



# Plots of System Verification

## Measurement Report

### S05b System Check\_H6500\_240516

#### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		-

#### Exposure Conditions

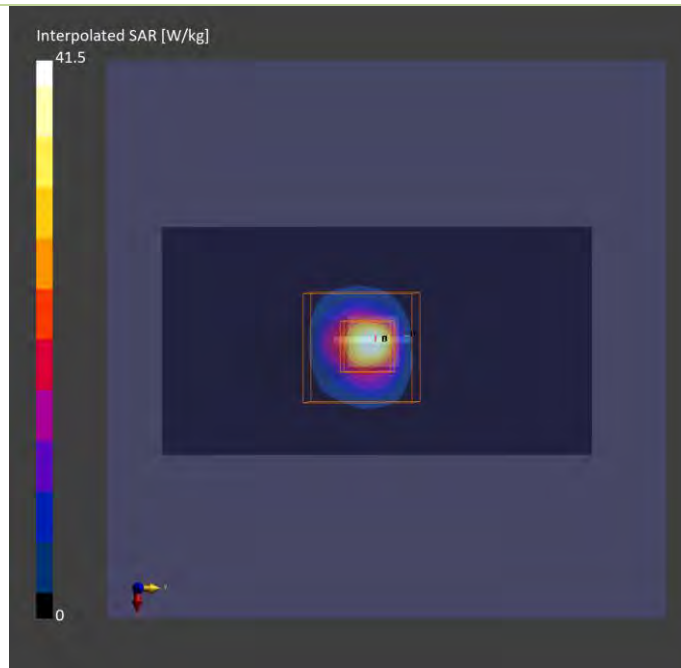
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	,		CW, 0--	6500.000, 0	5.7	5.92	35.6

#### Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-16	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

#### Scan Setup

	Area Scan	Zoom Scan	Measurement Results		
			Area Scan	Zoom Scan	
Grid Extents [mm]	45.0 x 90.0	22.0 x 22.0 x 22.0	Date	2024-05-16	2024-05-16
Grid Steps [mm]	7.5 x 7.5	3.4 x 3.4 x 1.4	psSAR1g [W/kg]	23.0	28.9
Sensor Surface [mm]	3.0	1.4	psSAR10g [W/kg]	4.77	5.25
			psAPD (1.0cm2, sq) [W/m2]		289
			psAPD (4.0cm2, sq) [W/m2]		129
			Power Drift [dB]	0.09	0.06



# Plots of System Verification

## Measurement Report S06 System Check\_H2450\_240509 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

## 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,	,		CW, 0--	2450.000, 0	6.76	1.81	37.4

## Hardware Setup

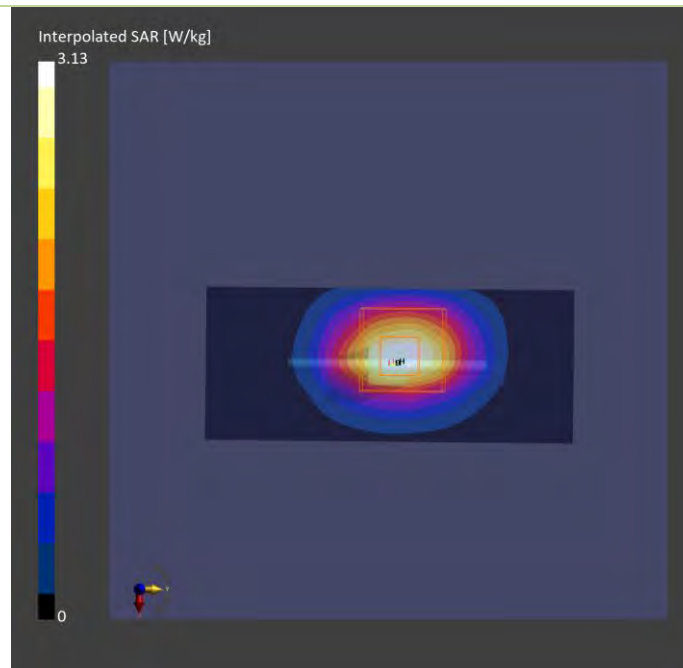
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2118	H06T27N5 , 2024-May-09	EX3DV4 - SN7797, 2024-01-08	DAE4 Sn1757, 2023-10-23

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 96.0	35.0 x 35.0 x 30.0
Grid Steps [mm]	10.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-09	2024-05-09
psSAR1g [W/kg]	2.42	2.51
psSAR10g [W/kg]	1.15	1.16
Power Drift [dB]	0.00	-0.01





# Plots of System Verification

## Measurement Report S07 System Check\_H2450\_240514 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

## Exposure Conditions

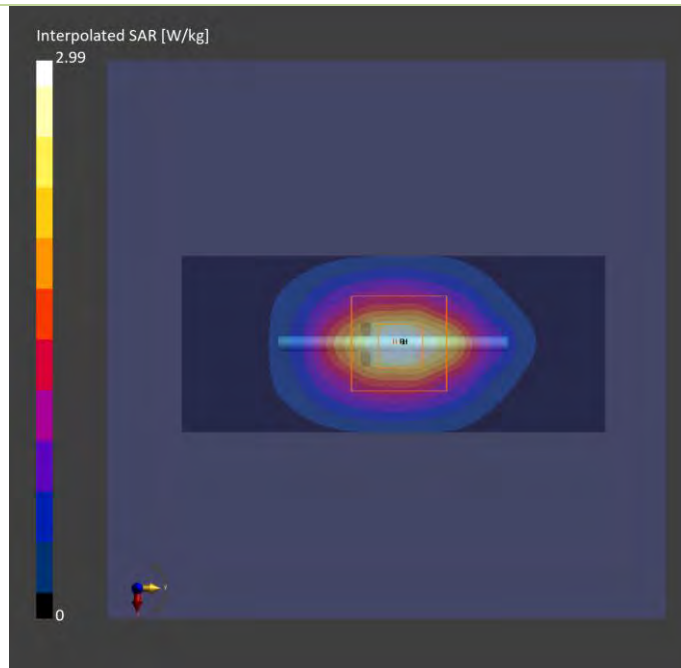
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	,		CW, 0--	2450.000, 0	6.71	1.75	41.7

## Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2186	H06T27N8 , 2024-May-14	EX3DV4 - SN7736, 2024-02-01	DAE4 Sn1761, 2023-11-17

## Scan Setup

	Area Scan	Zoom Scan	Measurement Results		
			Area Scan	Zoom Scan	
Grid Extents [mm]	48.0 x 108.0	35.0 x 35.0 x 30.0	Date	2024-05-14	2024-05-14
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5	psSAR1g [W/kg]	2.24	2.39
Sensor Surface [mm]	3.0	1.4	psSAR10g [W/kg]	1.03	1.13
			Power Drift [dB]	0.03	-0.05



# Plots of System Verification

## Measurement Report S08 System Check\_H5250\_240520 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole,	10.0 x 10.0 x 300.0		

## Exposure Conditions

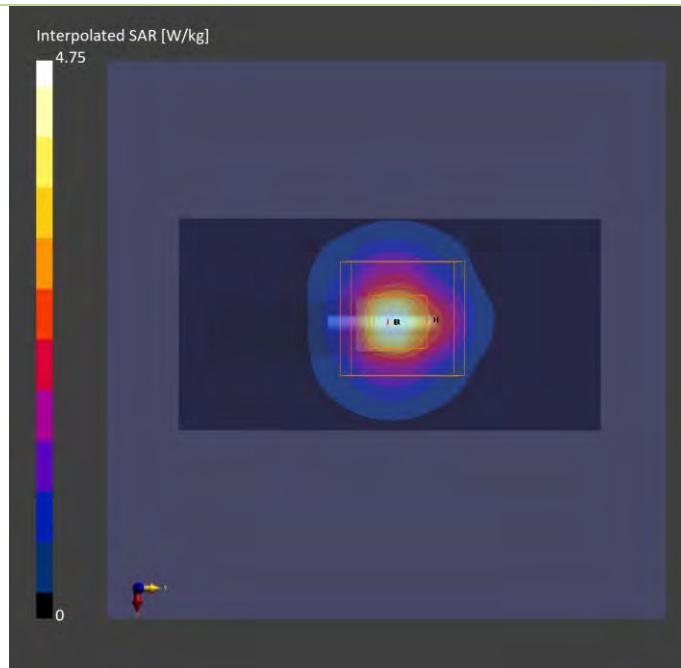
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	,		CW, 0--	5250	5.92	4.28	33.4

## Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-20	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

## Scan Setup

	Area Scan	Zoom Scan	Measurement Results	
			Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 x 22.0	Date	2024-05-20
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	psSAR1g [W/kg]	2.97
Sensor Surface [mm]	3.0	1.4	psSAR10g [W/kg]	0.871
			Power Drift [dB]	0.05
				-0.01



# Plots of System Verification

## Measurement Report S09 System Check\_H5600\_240520 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

## 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,	,		CW, 0--	5600	5.04	4.63	32.9

## Hardware Setup

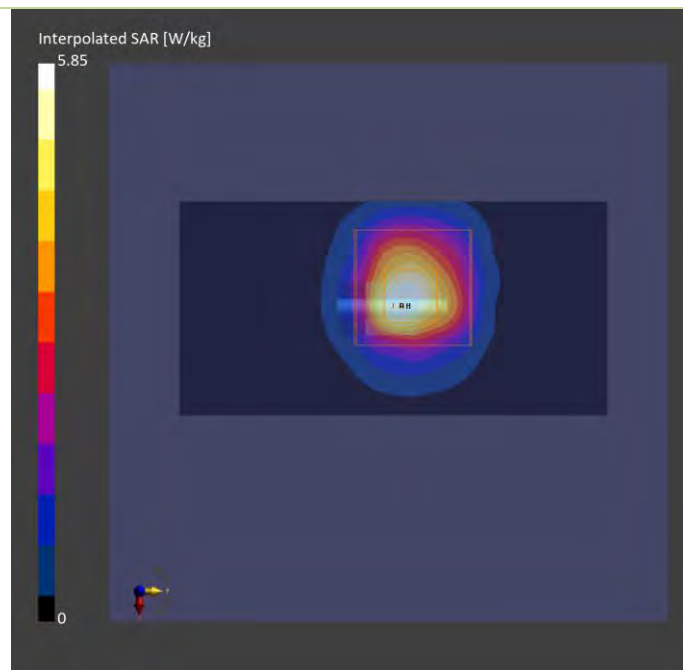
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-20	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 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

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-20	2024-05-20
psSAR1g [W/kg]	4.11	4.52
psSAR10g [W/kg]	1.29	1.28
Power Drift [dB]	-0.01	-0.04



# Plots of System Verification

## Measurement Report S10 System Check\_H5750\_240516 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

## 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,	,		CW, 0--	5750.000,	5.31	5.03	36.8

## Hardware Setup

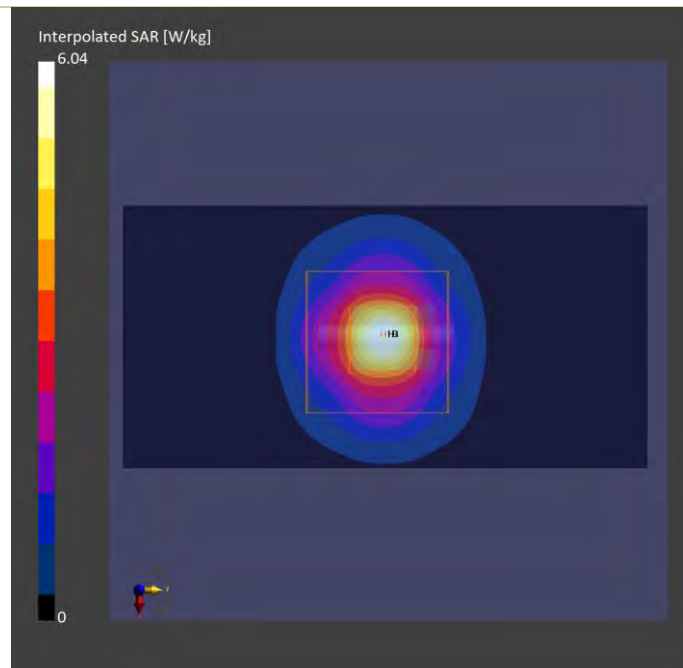
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-16	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 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

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-16	2024-05-16
psSAR1g [W/kg]	3.75	3.94
psSAR10g [W/kg]	1.08	1.11
Power Drift [dB]	0.02	-0.01



# Plots of System Verification

## Measurement Report

S11a System Check\_H5750\_240516

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

### 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,	,		CW, 0--	5750.000,	5.31	5.03	36.8

### Hardware Setup

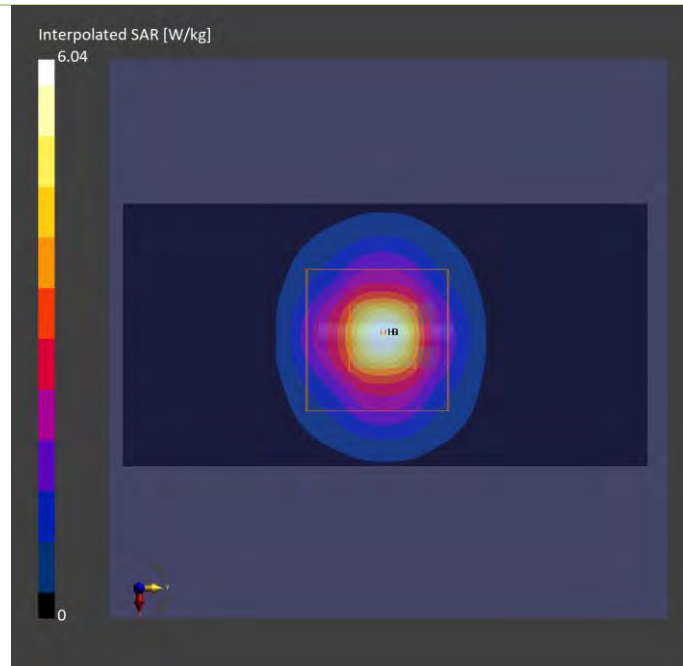
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-16	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 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

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-16	2024-05-16
psSAR1g [W/kg]	3.75	3.94
psSAR10g [W/kg]	1.08	1.11
Power Drift [dB]	0.02	-0.01



# Plots of System Verification

## Measurement Report

S11b System Check\_H6500\_240516

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		-

### 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,	,		CW, 0--	6500.000, 0	5.7	5.92	35.6

### Hardware Setup

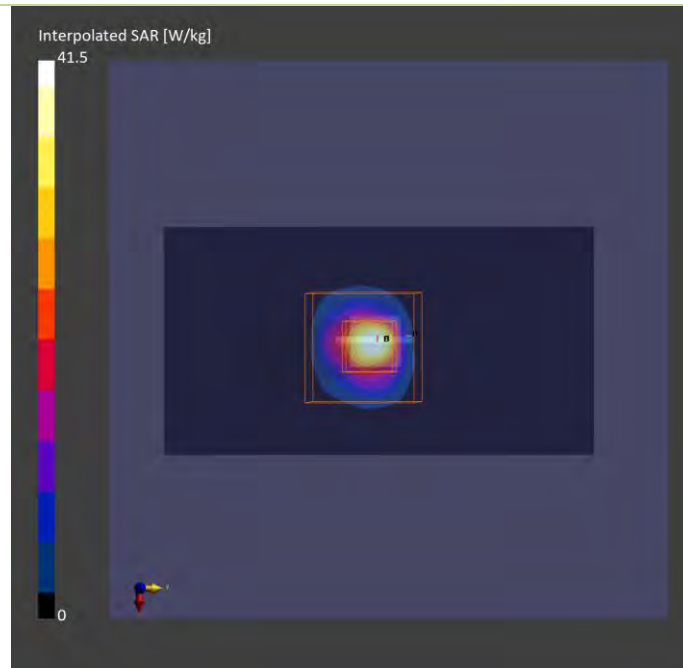
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-16	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	45.0 x 90.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	7.5 x 7.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-16	2024-05-16
psSAR1g [W/kg]	23.0	28.9
psSAR10g [W/kg]	4.77	5.25
psAPD (1.0cm2, sq) [W/m2]		289
psAPD (4.0cm2, sq) [W/m2]		129
Power Drift [dB]	0.09	0.06



# Plots of System Verification

## Measurement Report S12 System Check\_H2450\_240509 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

## 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,	,		CW, 0--	2450.000, 0	6.76	1.81	37.4

## Hardware Setup

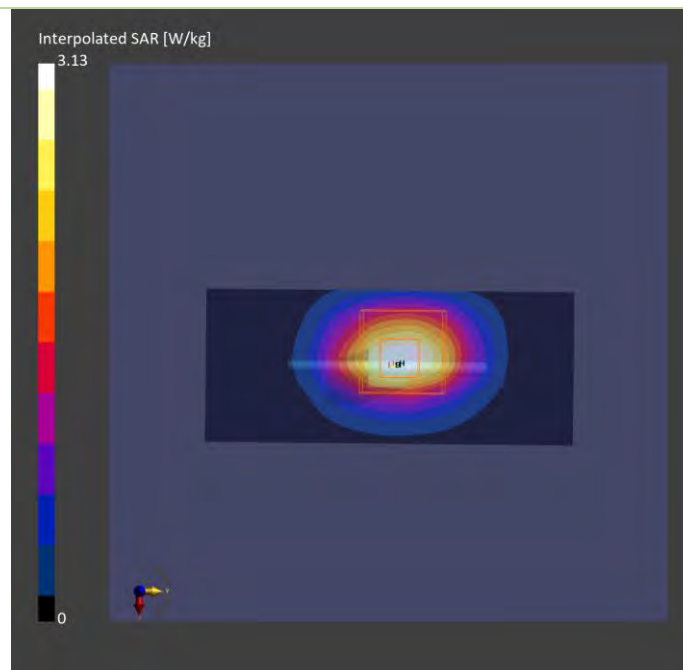
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2118	H06T27N5 , 2024-May-09	EX3DV4 - SN7797, 2024-01-08	DAE4 Sn1757, 2023-10-23

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 96.0	35.0 x 35.0 x 30.0
Grid Steps [mm]	10.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

## Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-09	2024-05-09
psSAR1g [W/kg]	2.42	2.51
psSAR10g [W/kg]	1.15	1.16
Power Drift [dB]	0.00	-0.01



# Plots of System Verification

## Measurement Report

S13 System Check H6.5GHz\_240517

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	50.0 x 10.0 x 8.0		

### 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,	,		,	6500.000, 0	5.7	6.11	33.2

### Hardware Setup

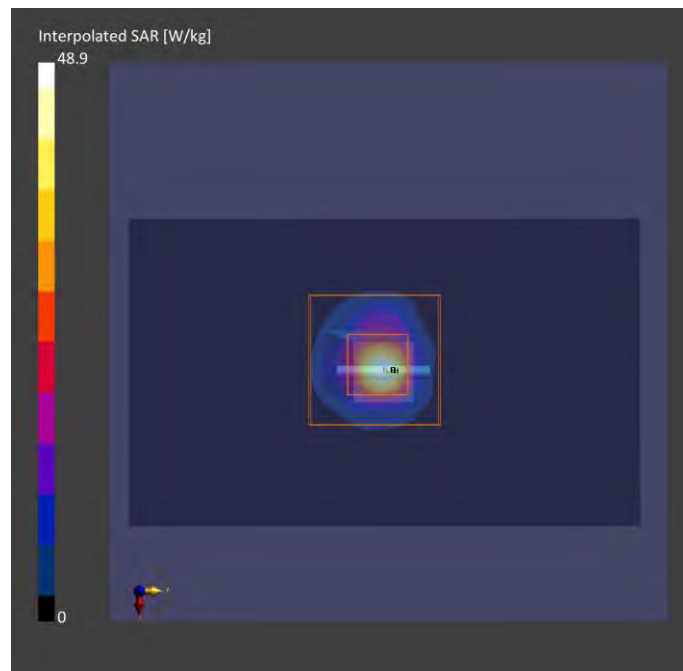
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-17	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	45.0 x 90.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	7.5 x 7.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-17	2024-05-17
psSAR1g [W/kg]	25.5	29.7
psSAR10g [W/kg]	5.03	5.45
psPDab (1.0cm2, sq) [W/m2]		299
psPDab (4.0cm2, sq) [W/m2]		134
Power Drift [dB]	0.01	-0.03





# Plots of System Verification

## Measurement Report

S14 System Check H6.5GHz\_240517

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	50.0 x 10.0 x 8.0		

### 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,	,		,	6500.000, 0	5.7	6.11	33.2

### Hardware Setup

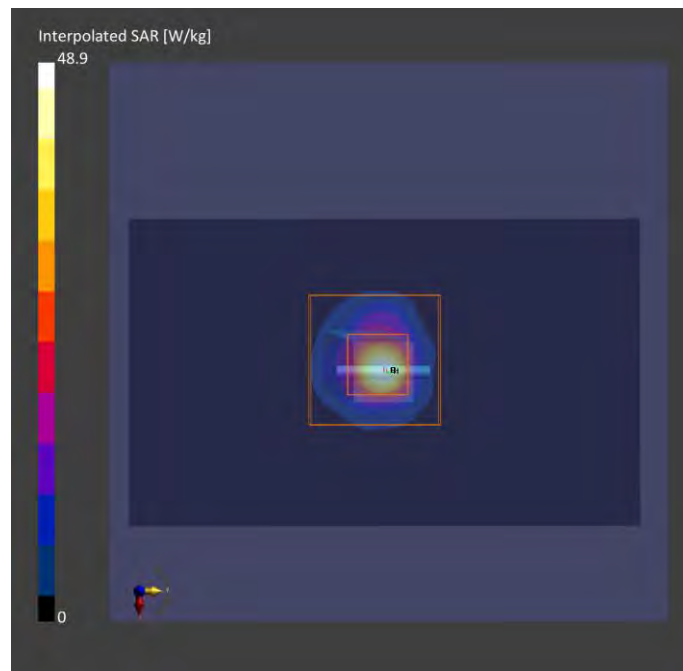
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-17	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	45.0 x 90.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	7.5 x 7.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-17	2024-05-17
psSAR1g [W/kg]	25.5	29.7
psSAR10g [W/kg]	5.03	5.45
psPDab (1.0cm2, sq) [W/m2]		299
psPDab (4.0cm2, sq) [W/m2]		134
Power Drift [dB]	0.01	-0.03



# Plots of System Verification

## Measurement Report

S13 PD\_System Check\_10 GHz\_2024.05.14

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
SPEAG, 5G Verification Source	100.0 x 100.0 x 170.0		

10 GHz

### Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	FRONT, 10.00	Validation band	CW, -0-	10000.0, 10000	1.0

### Hardware Setup

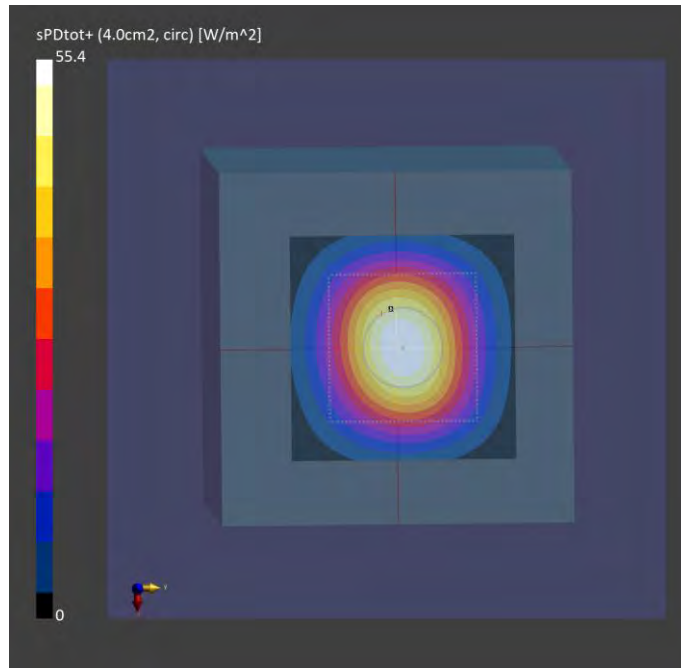
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1030	-Air-	EUmmWV4 - SN9615_F1-55GHz, 2023-07-10	DAE4 Sn1698, 2023-11-17

### Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.125 x 0.125
Sensor Surface [mm]	10.0

### Measurement Results

	5G Scan
Date	2024-05-14,
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	55.0
psPDtot+ [W/m <sup>2</sup> ]	55.4
psPDmod+ [W/m <sup>2</sup> ]	55.5
E <sub>max</sub> [V/m]	151
Power Drift [dB]	-0.08



# Plots of System Verification

## Measurement Report

S14 PD\_System Check\_10 GHz\_2024.05.14

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
SPEAG, 5G Verification Source	100.0 x 100.0 x 170.0		

10 GHz

### Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	FRONT, 10.00	Validation band	CW, -0-	10000.0, 10000	1.0

### Hardware Setup

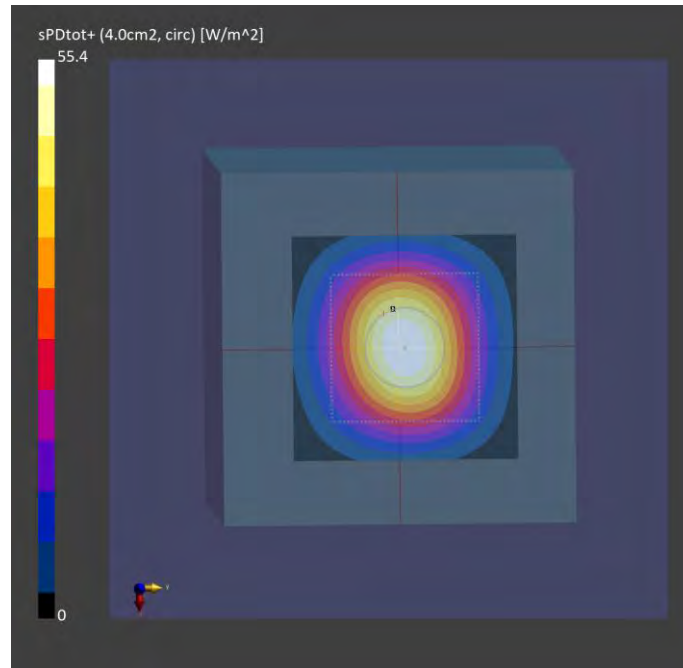
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1030	-Air-	EUmmWV4 - SN9615_F1-55GHz, 2023-07-10	DAE4 Sn1698, 2023-11-17

### Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.125 x 0.125
Sensor Surface [mm]	10.0

### Measurement Results

	5G Scan
Date	2024-05-14,
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	55.0
psPDtot+ [W/m <sup>2</sup> ]	55.4
psPDmod+ [W/m <sup>2</sup> ]	55.5
E <sub>max</sub> [V/m]	151
Power Drift [dB]	-0.08



### Appendix B. Plots of Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination are shown as follows.

# Plots of Measurement

## Measurement Report

P01 WLAN2.4G\_802.11b\_Bottom Side\_0mm\_Ch11\_Ant 0+1

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P24040285,	280.0 x 37.0 x 110.0		Tablet

### 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,	Bottom Side, 0.00	WLAN 2.4GHz	WLAN, 10012-CAB	2462.000, 11	6.71	1.76	41.7

### Hardware Setup

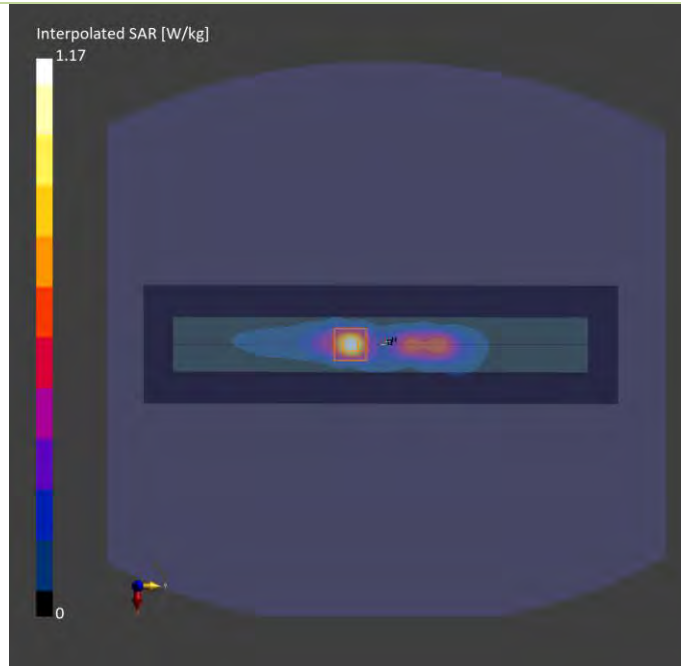
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2186	H06T27N8 , 2024-May-14	EX3DV4 - SN7736, 2024-02-01	DAE4 Sn1761, 2023-11-17

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 324.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-14	2024-05-14
psSAR1g [W/kg]	0.815	0.991
psSAR10g [W/kg]	0.358	0.372
Power Drift [dB]	-0.07	0.00
M2/M1 [%]		39.9
Dist 3dB Peak [mm]		5.9



# Plots of Measurement

## Measurement Report

P02 WLAN5.3G\_802.11ac VHT160\_Bottom Side\_0mm\_Ch 50\_Ant 0+1

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P24040285,	280.0 x 37.0 x 110.0		Tablet

### 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,	Bottom Side, 0.00	WLAN 5GHz	WLAN, 10554-AAE	5250.000, 50	5.92	4.28	33.4

### Hardware Setup

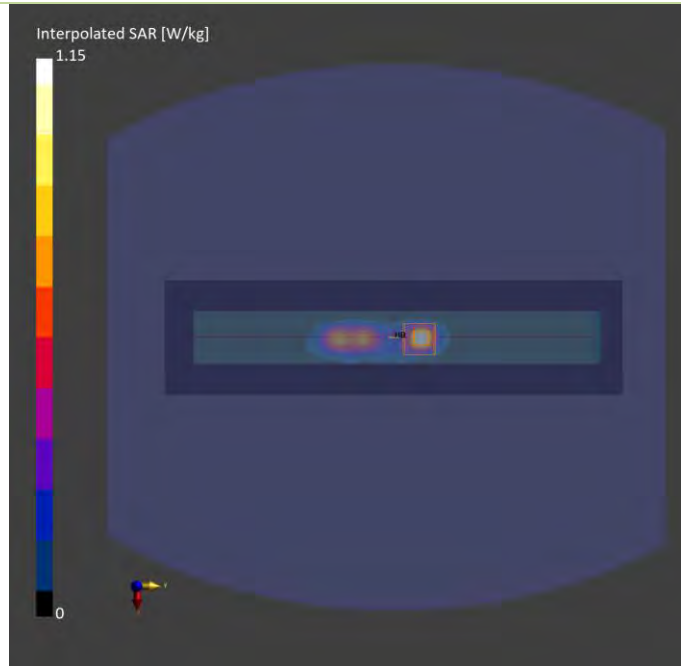
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-20	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 330.0	24.0 x 24.0 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

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-20	2024-05-20
psSAR1g [W/kg]	0.708	1.09
psSAR10g [W/kg]	0.226	0.234
Power Drift [dB]	-0.06	-0.11
M2/M1 [%]		62.8
Dist 3dB Peak [mm]		5.4



# Plots of Measurement

## Measurement Report

P03 WLAN5.6G\_802.11ac VHT160\_Bottom Side\_0mm\_Ch 114\_Ant 0+1

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P24040285,	280.0 x 37.0 x 110.0		Tablet

### 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,	Bottom Side, 0.00	WLAN 5GHz	WLAN, 10554-AAE	5570.000, 114	5.04	4.60	32.9

### Hardware Setup

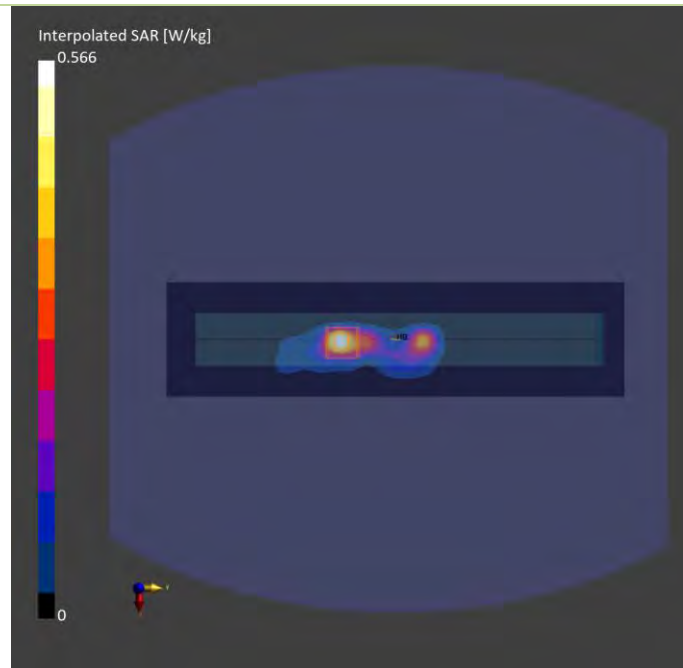
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-20	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 330.0	24.0 x 24.0 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

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-20	2024-05-20
psSAR1g [W/kg]	0.388	1.06
psSAR10g [W/kg]	0.136	0.206
Power Drift [dB]	0.05	-0.11
M2/M1 [%]		60.4
Dist 3dB Peak [mm]		4.4



## Plots of Measurement

### Measurement Report

P04 WLAN5.8G\_802.11ac VHT80\_Bottom Side\_0mm\_Ch155\_Ant 0+1

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P24040285,	280.0 x 37.0 x 110.0		Tablet

### 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, -	Bottom Side, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5775.000, 155	5.31	5.06	36.8

### Hardware Setup

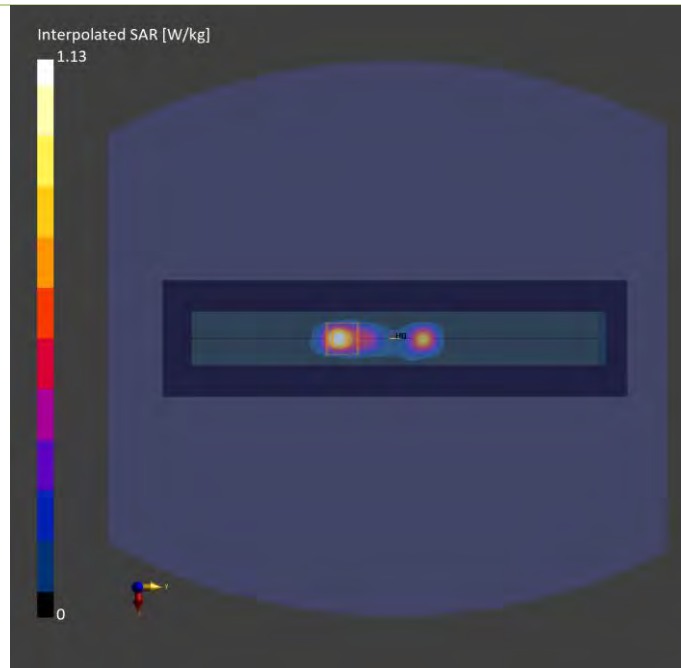
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-16	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 330.0	24.0 x 24.0 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

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-16	2024-05-16
psSAR1g [W/kg]	0.737	1.09
psSAR10g [W/kg]	0.236	0.197
Power Drift [dB]	0.17	-0.15
M2/M1 [%]		59.6
Dist 3dB Peak [mm]		4.4





# Plots of Measurement

## Measurement Report

P05 WLAN5.9G\_802.11ac VHT160\_Bottom Side\_0mm\_Ch 163\_Ant 0+1

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P24040285,	280.0 x 37.0 x 110.0		Tablet

### 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, -	Bottom Side, 0.00	WLAN 5GHz	WLAN, 10554-AAE	5815.000, 163	5.31	5.10	36.7

### Hardware Setup

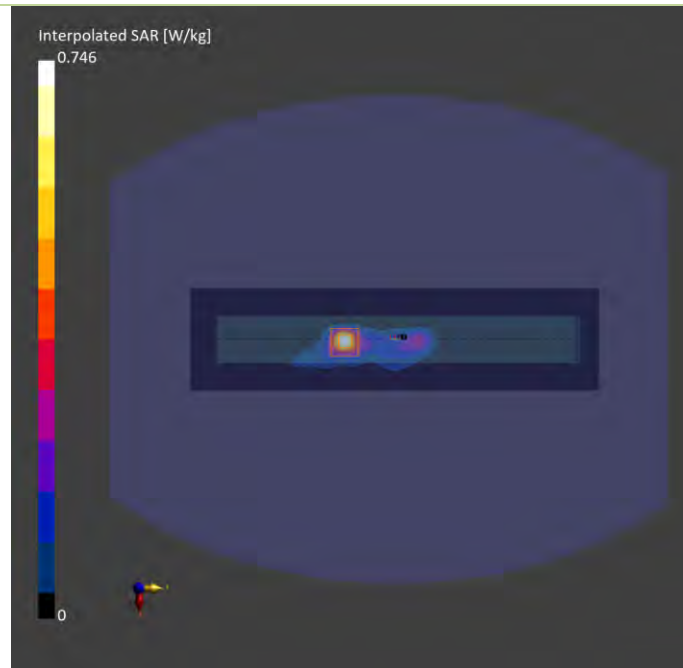
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-16	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 330.0	24.0 x 24.0 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

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-16	2024-05-16
psSAR1g [W/kg]	0.483	1.05
psSAR10g [W/kg]	0.158	0.190
Power Drift [dB]	-0.19	0.11
M2/M1 [%]		54.2
Dist 3dB Peak [mm]		4.8



# Plots of Measurement

## Measurement Report

**P06 BT\_BDR\_Bottom Side\_0mm\_Ch78\_Ant 1**

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P24040285,	280.0 x 37.0 x 110.0		Tablet

### 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,	Bottom Side, 0.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2480.000, 78	6.76	1.83	37.4

### Hardware Setup

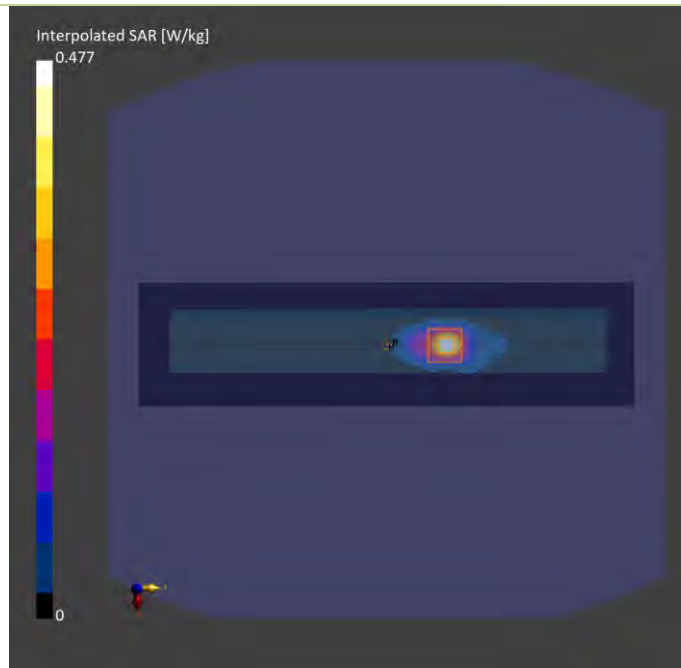
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2118	H06T27N5, 2024-May-09	EX3DV4 - SN7797, 2024-01-08	DAE4 Sn1757, 2023-10-23

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 324.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-09	2024-05-09
psSAR1g [W/kg]	0.334	0.291
psSAR10g [W/kg]	0.147	0.130
Power Drift [dB]	-0.01	-0.02
M2/M1 [%]		34.2
Dist 3dB Peak [mm]		5.4



# Plots of Measurement

## Measurement Report

P07 WLAN2.4G\_802.11b\_Bottom Side\_0mm\_Ch11\_Ant 0+1

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P24040285,	280.0 x 37.0 x 110.0		Tablet

### 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,	Bottom Side, 0.00	WLAN 2.4GHz	WLAN, 10012-CAB	2462.000, 11	6.71	1.76	41.7

### Hardware Setup

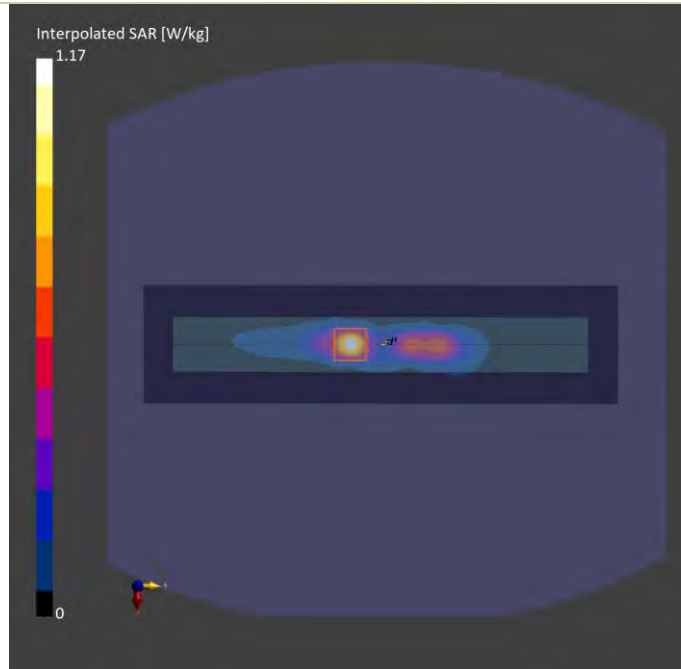
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2186	H06T27N8 , 2024-May-14	EX3DV4 - SN7736, 2024-02-01	DAE4 Sn1761, 2023-11-17

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 324.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-14	2024-05-14
psSAR1g [W/kg]	0.815	0.991
psSAR10g [W/kg]	0.358	0.372
Power Drift [dB]	-0.07	0.00
M2/M1 [%]		39.9
Dist 3dB Peak [mm]		5.9



# Plots of Measurement

## Measurement Report

P08 WLAN5.3G\_802.11ac VHT160\_Bottom Side\_0mm\_Ch 50\_Ant 0+1

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P24040285,	280.0 x 37.0 x 110.0		Tablet

### 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,	Bottom Side, 0.00	WLAN 5GHz	WLAN, 10554-AAE	5250.000, 50	5.92	4.28	33.4

### Hardware Setup

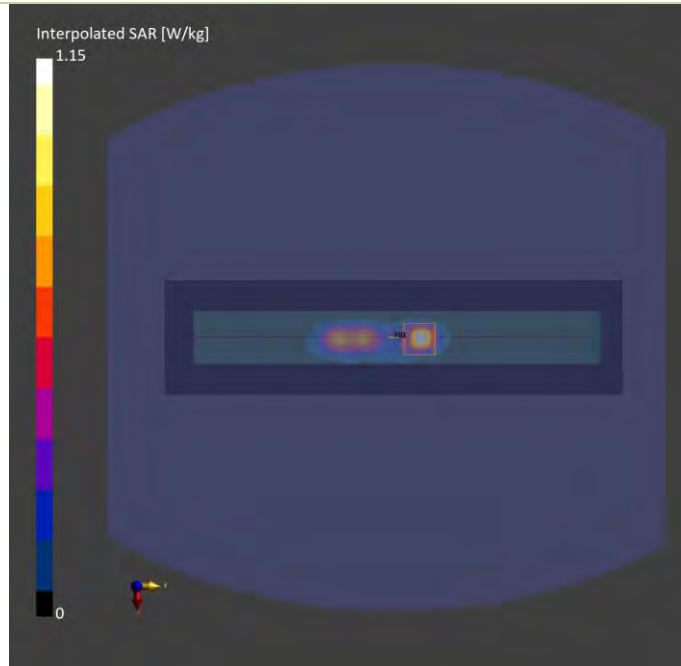
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-20	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 330.0	24.0 x 24.0 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

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-20	2024-05-20
psSAR1g [W/kg]	0.708	1.11
psSAR10g [W/kg]	0.226	0.234
Power Drift [dB]	-0.06	-0.11
M2/M1 [%]		62.8
Dist 3dB Peak [mm]		5.4



## Plots of Measurement

### Measurement Report

P09 WLAN5.6G\_802.11ac VHT160\_Bottom Side\_0mm\_Ch 114\_Ant 0+1

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P24040285,	280.0 x 37.0 x 110.0		Tablet

### 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,	Bottom Side, 0.00	WLAN 5GHz	WLAN, 10554-AAE	5570.000, 114	5.04	4.60	32.9

### Hardware Setup

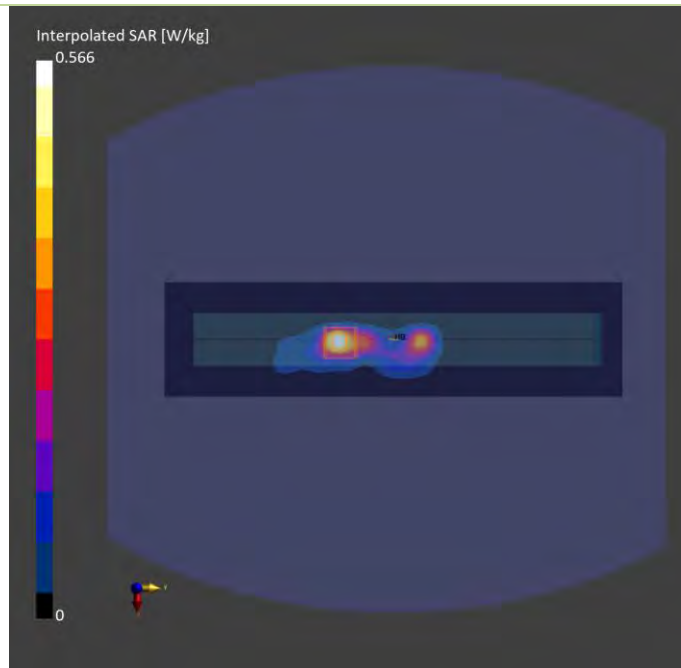
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-20	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 330.0	24.0 x 24.0 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

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-20	2024-05-20
psSAR1g [W/kg]	0.388	1.06
psSAR10g [W/kg]	0.136	0.21
Power Drift [dB]	0.05	-0.11
M2/M1 [%]		60.4
Dist 3dB Peak [mm]		4.4



# Plots of Measurement

## Measurement Report

**P10 WLAN5.8G\_802.11ac VHT80\_Bottom Side\_0mm\_Ch155\_Ant 0+1**

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P24040285,	280.0 x 37.0 x 110.0		Tablet

### 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, -	Bottom Side, 0.00	WLAN 5GHz	WLAN, 10544-AAD	5775.000, 155	5.31	5.06	36.8

### Hardware Setup

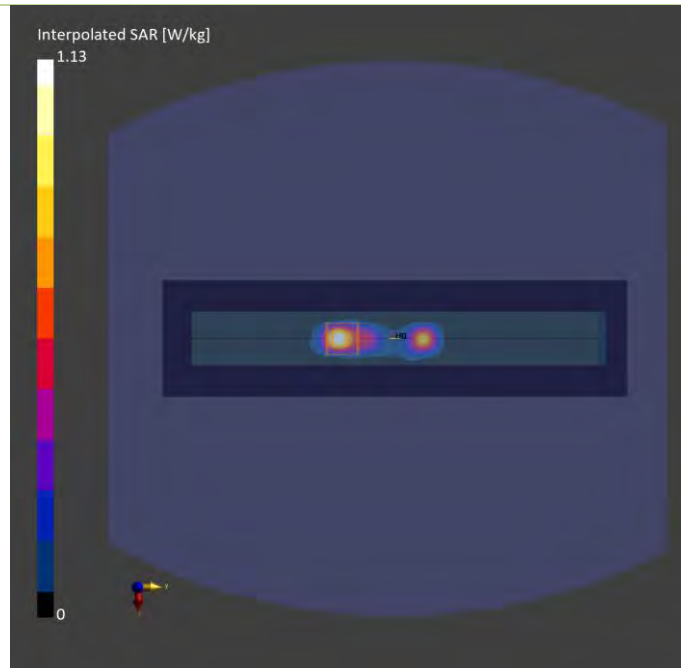
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-16	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 330.0	24.0 x 24.0 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

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-16	2024-05-16
psSAR1g [W/kg]	0.737	1.09
psSAR10g [W/kg]	0.236	0.205
Power Drift [dB]	0.17	-0.15
M2/M1 [%]		59.6
Dist 3dB Peak [mm]		4.4



## Plots of Measurement

### Measurement Report

P11 WLAN5.9G\_802.11ac VHT160\_Bottom Side\_0mm\_Ch 163\_Ant 0+1

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P24040285,	280.0 x 37.0 x 110.0		Tablet

### 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, -	Bottom Side, 0.00	WLAN 5GHz	WLAN, 10554-AAE	5815.000, 163	5.31	5.10	36.7

### Hardware Setup

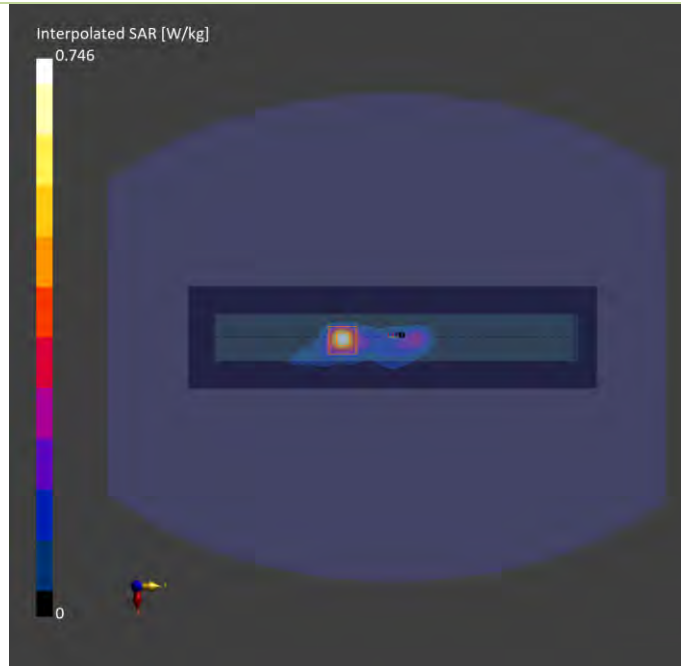
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-16	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 330.0	24.0 x 24.0 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

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-16	2024-05-16
psSAR1g [W/kg]	0.483	1.05
psSAR10g [W/kg]	0.158	0.205
Power Drift [dB]	-0.19	0.11
M2/M1 [%]		54.2
Dist 3dB Peak [mm]		4.8



# Plots of Measurement

## Measurement Report

**P12 BT\_BDR\_Bottom Side\_0mm\_Ch78\_Ant 1**

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P24040285,	280.0 x 37.0 x 110.0		Tablet

### 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,	Bottom Side, 0.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2480.000, 78	6.76	1.83	37.4

### Hardware Setup

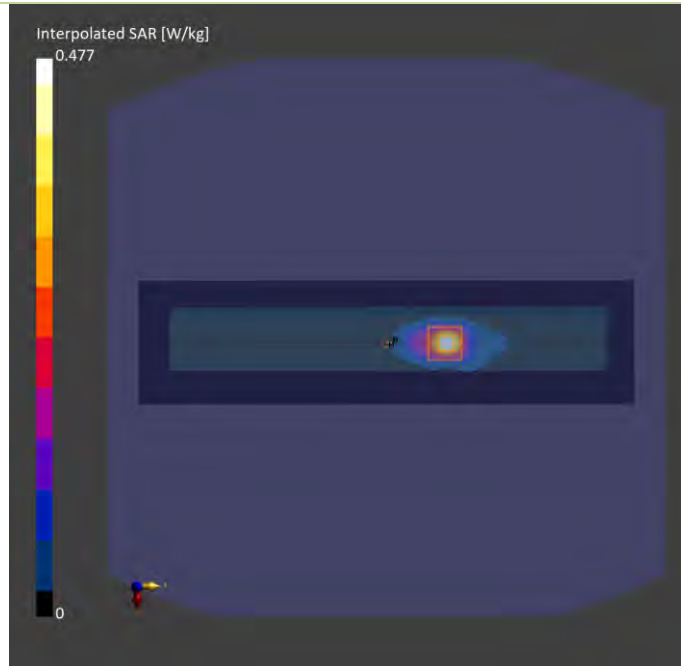
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) - 2118	H06T27N5, 2024-May-09	EX3DV4 - SN7797, 2024-01-08	DAE4 Sn1757, 2023-10-23

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	84.0 x 324.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-09	2024-05-09
psSAR1g [W/kg]	0.334	0.291
psSAR10g [W/kg]	0.147	0.130
Power Drift [dB]	-0.01	-0.02
M2/M1 [%]		34.2
Dist 3dB Peak [mm]		5.4





# Plots of Measurement

## Measurement Report

P13 UNII-7\_802.11ax HE160\_Bottom Side\_0mm\_Ch 143\_Power Mode SP\_Ant 0

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P24040285,	280.0 x 37.0 x 110.0		

### 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,	Bottom Side, 0.00	U-NII-7	WLAN, 10755-CAE	6665.000, 143	5.7	6.12	35.3

### Hardware Setup

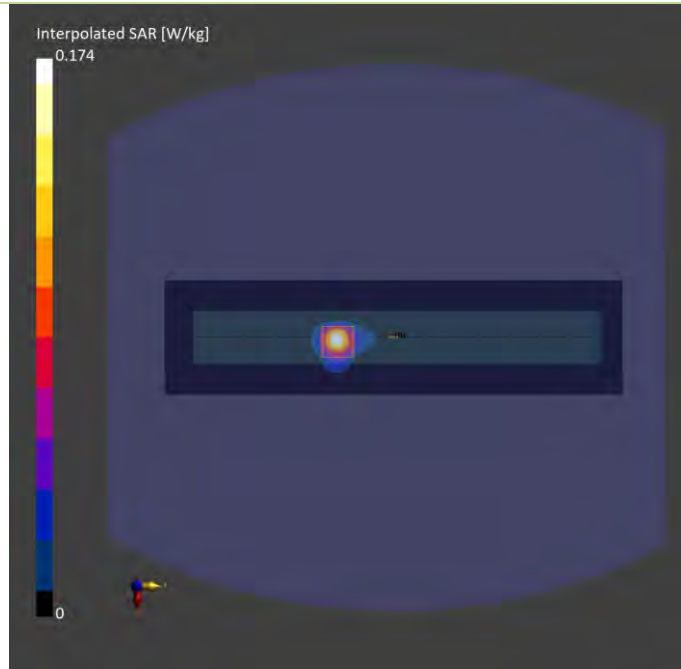
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-17	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 330.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	7.5 x 7.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-17	2024-05-17
psSAR1g [W/kg]	0.126	0.799
psSAR10g [W/kg]	0.039	0.129
psAPD (1.0cm2, sq) [W/m2]		8.29
psAPD (4.0cm2, sq) [W/m2]		3.17
Power Drift [dB]	0.08	-0.05
M2/M1 [%]		49.8
Dist 3dB Peak [mm]		3.9



# Plots of Measurement

## Measurement Report

P14 UNII-7\_802.11ax HE160\_Bottom Side\_0mm\_Ch 143\_Power Mode SP\_Ant 0

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P24040285,	280.0 x 37.0 x 110.0		

### 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,	Bottom Side, 0.00	U-NII-7	WLAN, 10755-CAE	6665.000, 143	5.7	6.12	35.3

### Hardware Setup

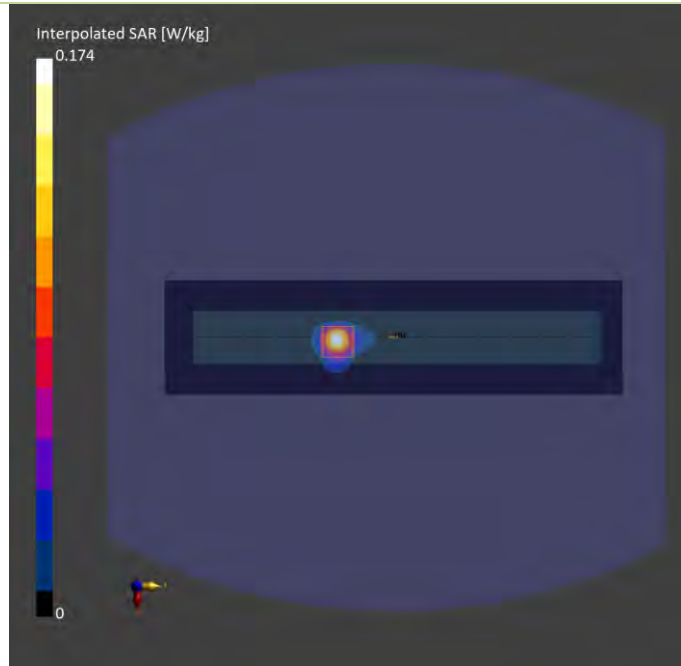
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1245	H51T72N10 , 2024-May-17	EX3DV4 - SN7472, 2023-10-23	DAE4 Sn1590, 2023-09-14

### Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 330.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	7.5 x 7.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

### Measurement Results

	Area Scan	Zoom Scan
Date	2024-05-17	2024-05-17
psSAR1g [W/kg]	0.126	0.799
psSAR10g [W/kg]	0.039	0.129
psAPD (1.0cm2, sq) [W/m2]		8.29
psAPD (4.0cm2, sq) [W/m2]		3.17
Power Drift [dB]	0.08	-0.05
M2/M1 [%]		49.8
Dist 3dB Peak [mm]		3.9



# Plots of Measurement

## Measurement Report

P13 UNII-7\_802.11ax HE160\_Bottom Side\_0mm\_Ch 143\_Power Mode SP\_Ant 0

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P24040285,	120.0 x 260.0 x 30.0		

### Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	Bottom Side, 2.00	U-NII-7	WLAN, 10755-CAE	6665.000, 143	1.0

### Hardware Setup

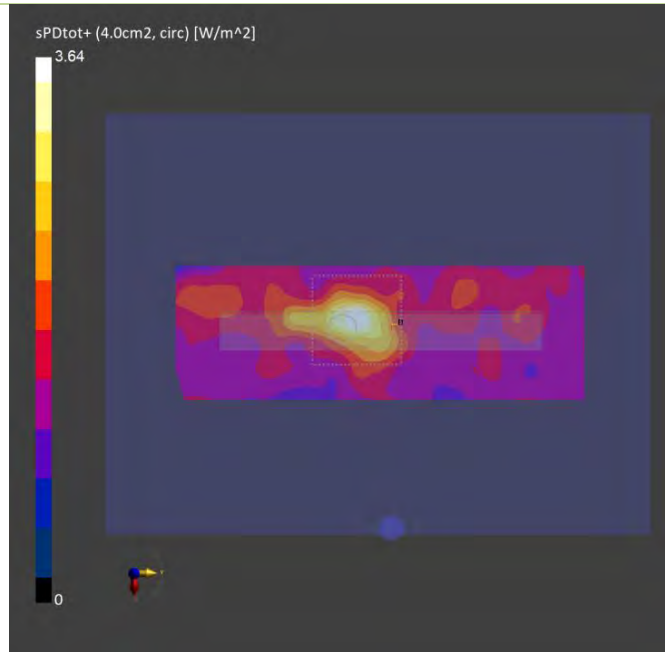
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1030	--Air	EUmmWV4 - SN9615_F1-55GHz, 2023-07-10	DAE4 Sn1698, 2023-11-17

### Scan Setup

	5G Scan
Grid Extents [mm]	89.0 x 89.0
Grid Steps [lambda]	0.0563 x 0.0563
Sensor Surface [mm]	2.0
MAIA	Y

### Measurement Results

	5G Scan
Date	2024-05-14
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.64
psPDtot+ [W/m <sup>2</sup> ]	3.64
psPDmod+ [W/m <sup>2</sup> ]	4.31
E <sub>max</sub> [V/m]	51.3
Power Drift [dB]	0.01



# Plots of Measurement

## Measurement Report

P14 UNII-7\_802.11ax HE160\_Bottom Side\_0mm\_Ch 143\_Power Mode SP\_Ant 0

### Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BFLF-WTW-P24040285,	120.0 x 260.0 x 30.0		

### Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	Bottom Side, 2.00	U-NII-7	WLAN, 10755-CAE	6665.000, 143	1.0

### Hardware Setup

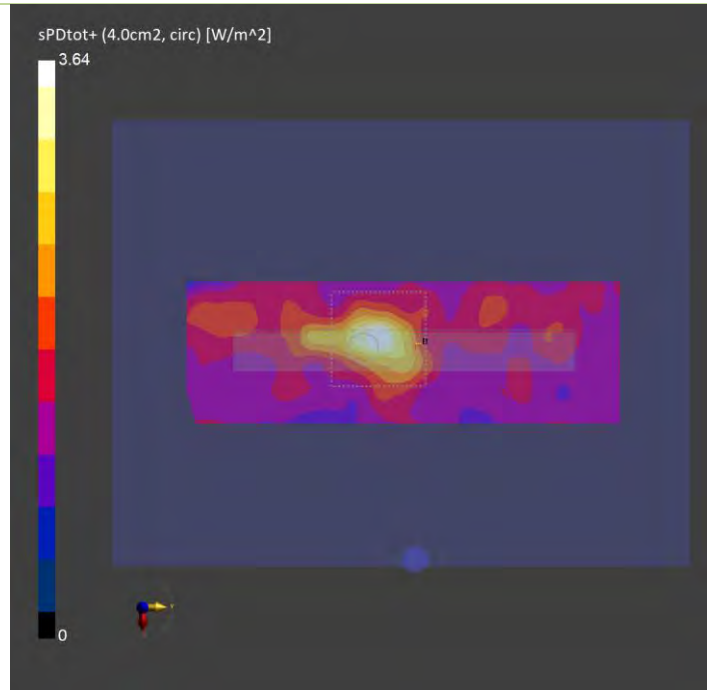
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- 1030	--Air	EUmmWV4 - SN9615_F1-55GHz, 2023-07-10	DAE4 Sn1698, 2023-11-17

### Scan Setup

	5G Scan
Grid Extents [mm]	89.0 x 89.0
Grid Steps [lambda]	0.0563 x 0.0563
Sensor Surface [mm]	2.0
MAIA	Y

### Measurement Results

	5G Scan
Date	2024-05-14
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	2.64
psPDtot+ [W/m <sup>2</sup> ]	3.64
psPDmod+ [W/m <sup>2</sup> ]	4.31
E <sub>max</sub> [V/m]	51.3
Power Drift [dB]	0.01



## Appendix C. Tissue & System Verification

The measuring results for tissue simulating liquid and system check are shown as below.

Note:

1. For Section 4.3, the dielectric properties of the tissue simulating liquid have been measured within 24 hours before the SAR testing and within  $\pm 10\%$  of the target values. Liquid temperature during the SAR testing has kept within  $\pm 2^\circ\text{C}$ .
2. For Section 4.4, The SAR measurement system was validated according to procedures in FCC KDB 865664 D0. The validation status in tabulated summary is as below.
3. For Section 4.5, Comparing to the reference SAR value provided by SPEAG in dipole calibration certificate, the deviation of system check results is within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots please refer to Appendix A of this report.



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Tissue Verification									Validation for CW			Validation for Modulation				System Check					Note			
Plot No.	Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (εr)	Targeted Conductivity (σ)	Targeted Permittivity (εr)	Deviation Conductivity (σ)	Deviation Permittivity (εr)	Sensitivity Range	Probe Linearity	Probe Isotropy	Modulation Type	Duty Factor	PAR	Date	Frequency (MHz)	Targeted 1g SAR (W/kg)	Measured 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N	Output Power (dBm)
S01	2450	20.8	1.75	41.7	1.8	39.2	-2.78	6.38	Pass	Pass	Pass	OFDM	N/A	Pass	May. 14, 2024	2450	52.90	2.39	47.69	-9.85	737	7736	1761	17
S02	5250	20.9	4.28	33.4	4.71	35.9	-9.13	-6.96	Pass	Pass	Pass	OFDM	N/A	Pass	May. 20, 2024	5250	80.20	3.67	73.23	-8.70	1019	7472	1590	17
S03	5600	20.9	4.63	32.9	5.07	35.5	-8.68	-7.32	Pass	Pass	Pass	OFDM	N/A	Pass	May. 20, 2024	5600	82.90	4.52	90.19	8.79	1019	7472	1590	17
S04	5750	21.1	5.03	36.8	5.22	35.4	-3.64	3.95	Pass	Pass	Pass	OFDM	N/A	Pass	May. 16, 2024	5750	78.40	3.94	78.61	0.27	1203	7472	1590	17
S05a	5750	21.1	5.03	36.8	5.22	35.4	-3.64	3.95	Pass	Pass	Pass	OFDM	N/A	Pass	May. 16, 2024	5750	78.40	3.94	78.61	0.27	1203	7472	1590	17
S05b	6500	21.1	5.92	35.6	6.07	34.5	-2.47	3.19	Pass	Pass	Pass	OFDM	N/A	Pass	May. 16, 2024	6500	292.00	28.9	289.00	-1.03	1008	7472	1590	20
S06	2450	20.8	1.81	37.4	1.8	39.2	0.56	-4.59	Pass	Pass	Pass	OFDM	N/A	Pass	May. 09, 2024	2450	52.90	2.51	50.08	-5.33	737	7797	1757	17
S13	6500	20.8	6.11	33.2	6.07	34.5	0.66	-3.77	Pass	Pass	Pass	OFDM	N/A	Pass	May. 17, 2024	6500	292.00	29.7	297.00	1.71	1008	7472	1590	20

Tissue Verification									Validation for CW			Validation for Modulation			System Check						Note			
Plot No.	Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (εr)	Targeted Conductivity (σ)	Targeted Permittivity (εr)	Deviation Conductivity (σ)	Deviation Permittivity (εr)	Sensitivity Range	Probe Linearity	Probe Isotropy	Modulation Type	Duty Factor	PAR	Date	Frequency (MHz)	Targeted 10g SAR (W/kg)	Measured 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N	Output Power (dBm)
S07	2450	21.1	1.75	41.7	1.8	39.2	-2.78	6.38	Pass	Pass	Pass	OFDM	N/A	Pass	May. 14, 2024	2450	24.70	1.13	22.55	-8.72	737	7736	1761	17
S08	5250	20.9	4.53	36.7	4.71	35.9	-3.82	2.23	Pass	Pass	Pass	OFDM	N/A	Pass	May. 20, 2024	5250	23.00	1.21	24.14	4.97	1019	7472	1590	17
S09	5600	20.9	4.87	36.3	5.07	35.5	-3.94	2.25	Pass	Pass	Pass	OFDM	N/A	Pass	May. 20, 2024	5600	23.60	1.28	25.54	8.22	1019	7472	1590	17
S10	5750	21.1	5.03	36.8	5.22	35.4	-3.64	3.95	Pass	Pass	Pass	OFDM	N/A	Pass	May. 16, 2024	5750	22.40	1.11	22.15	-1.13	1203	7472	1590	17
S11a	5750	21.1	5.03	36.8	5.22	35.4	-3.64	3.95	Pass	Pass	Pass	OFDM	N/A	Pass	May. 16, 2024	5750	22.40	1.11	22.15	-1.13	1203	7472	1590	17
S11b	6500	21.1	5.92	35.6	6.07	34.5	-2.47	3.19	Pass	Pass	Pass	OFDM	N/A	Pass	May. 16, 2024	6500	53.90	5.25	52.50	-2.60	1008	7472	1590	20
S12	2450	21.1	1.81	37.4	1.8	39.2	0.56	-4.59	Pass	Pass	Pass	OFDM	N/A	Pass	May. 09, 2024	2450	24.70	1.16	23.15	-6.30	737	7797	1757	17
S14	6500	20.8	6.11	33.2	6.07	34.5	0.66	-3.77	Pass	Pass	Pass	OFDM	N/A	Pass	May. 17, 2024	6500	53.90	5.45	54.50	1.11	1008	7472	1590	20



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**System Performance Check for Incident Power Density Measurement**

Plot No.	Test Date	Frequency [GHz]	mmWave Probe S/N	Verification Source S/N	Averaging Area [cm <sup>2</sup> ]	Distance [mm]	Target Power Density [W/m <sup>2</sup> ]	Measured Power Density [W/m <sup>2</sup> ]	Deviation [%]
13	May. 14, 2024	10	9615	1025	4	10.0	56.2	55.4	-1.42%
14	May. 14, 2024	10	9615	1025	4	10.0	56.2	55.4	-1.42%



## Appendix D. Maximum Target Conducted Power

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

Tune-up Power (Full)							
WLAN 2.4GHz							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11b	1	2412	13.5	13.5	13.5	13.5	16.5
	6	2437	13.5	13.5	13.5	13.5	16.5
	11	2462	13.5	13.5	13.5	13.5	16.5
	12	2467	13.5	13.5	13.5	13.5	16.5
	13	2472	13.5	13.5	13.5	13.5	16.5
802.11g	1	2412	13.5	13.5	13.5	13.5	16.5
	6	2437	13.5	13.5	13.5	13.5	16.5
	11	2462	13.5	13.5	13.5	13.5	16.5
	12	2467	13.5	13.5	13.5	13.5	16.5
	13	2472	11.5	11.5	11.5	11.5	14.5
802.11n HT20	1	2412	13.5	13.5	13.5	13.5	16.5
	6	2437	13.5	13.5	13.5	13.5	16.5
	11	2462	13.5	13.5	13.5	13.5	16.5
	12	2467	13.5	13.5	13.5	13.5	16.5
	13	2472	9.5	9.5	9.5	9.5	12.5
802.11n HT40	3	2422	13.5	13.5	13.5	13.5	16.5
	6	2437	13.5	13.5	13.5	13.5	16.5
	9	2452	13.5	13.5	13.5	13.5	16.5
	10	2457	12.0	12.0	12.0	12.0	15.0
	11	2462	10.0	10.0	10.0	10.0	13.0
802.11ax HE20	1	2412	13.5	13.5	13.5	13.5	16.5
	6	2437	13.5	13.5	13.5	13.5	16.5
	11	2462	13.5	13.5	13.5	13.5	16.5
	12	2467	13.5	13.5	13.5	13.5	16.5
	13	2472	10.0	10.0	10.0	10.0	13.0
802.11ax HE40	3	2422	13.5	13.5	13.5	13.5	16.5
	6	2437	13.5	13.5	13.5	13.5	16.5
	9	2452	13.5	13.5	13.5	13.5	16.5
	10	2457	12.5	12.5	12.5	12.5	15.5
	11	2462	10.0	10.0	10.0	10.0	13.0

Tune-up Power (Full)					
Bluetooth					
Mode	Channel	Frequency	Ant 0 Max Tune-up	Ant 1 Max Tune-up	
BR / EDR	0	2402		11.5	
	39	2441		11.5	
	78	2480		11.5	
LE	0	2402		11.5	
	19	2440		11.5	
	39	2480		11.5	

Tune-up Power (Full)							
WLAN 5.2GHz							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	36	5180	9.0	9.0	9.0	9.0	12.0
	40	5200	9.0	9.0	9.0	9.0	12.0
	44	5220	9.0	9.0	9.0	9.0	12.0
	48	5240	9.0	9.0	9.0	9.0	12.0
802.11n HT20	36	5180	9.0	9.0	9.0	9.0	12.0
	40	5200	9.0	9.0	9.0	9.0	12.0
	44	5220	9.0	9.0	9.0	9.0	12.0
	48	5240	9.0	9.0	9.0	9.0	12.0
802.11n HT40	38	5190	9.0	9.0	9.0	9.0	12.0
	46	5230	9.0	9.0	9.0	9.0	12.0
802.11ac VHT20	36	5180	9.0	9.0	9.0	9.0	12.0
	40	5200	9.0	9.0	9.0	9.0	12.0
	44	5220	9.0	9.0	9.0	9.0	12.0
	48	5240	9.0	9.0	9.0	9.0	12.0
802.11ac VHT40	38	5190	9.0	9.0	9.0	9.0	12.0
	46	5230	9.0	9.0	9.0	9.0	12.0
802.11ac VHT80	42	5210	9.0	9.0	9.0	9.0	12.0
802.11ax HE20	36	5180	9.0	9.0	9.0	9.0	12.0
	40	5200	9.0	9.0	9.0	9.0	12.0
	44	5220	9.0	9.0	9.0	9.0	12.0
	48	5240	9.0	9.0	9.0	9.0	12.0
802.11ax HE40	38	5190	9.0	9.0	9.0	9.0	12.0
	46	5230	9.0	9.0	9.0	9.0	12.0
802.11ax HE80	42	5210	9.0	9.0	9.0	9.0	12.0

Tune-up Power (Full)							
WLAN 5.3GHz							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	52	5260	9.0	9.0	9.0	9.0	12.0
	56	5280	9.0	9.0	9.0	9.0	12.0
	60	5300	9.0	9.0	9.0	9.0	12.0
	64	5320	9.0	9.0	9.0	9.0	12.0
802.11n HT20	52	5260	9.0	9.0	9.0	9.0	12.0
	56	5280	9.0	9.0	9.0	9.0	12.0
	60	5300	9.0	9.0	9.0	9.0	12.0
	64	5320	9.0	9.0	9.0	9.0	12.0
802.11n HT40	54	5270	9.0	9.0	9.0	9.0	12.0
	62	5310	9.0	9.0	9.0	9.0	12.0
802.11ac VHT20	52	5260	9.0	9.0	9.0	9.0	12.0
	56	5280	9.0	9.0	9.0	9.0	12.0
	60	5300	9.0	9.0	9.0	9.0	12.0
	64	5320	9.0	9.0	9.0	9.0	12.0
802.11ac VHT40	54	5270	9.0	9.0	9.0	9.0	12.0
	62	5310	9.0	9.0	9.0	9.0	12.0
802.11ac VHT80	58	5290	9.0	9.0	9.0	9.0	12.0
802.11ac VHT160	50	5250	9.0	9.0	9.0	9.0	12.0
802.11ax HE20	52	5260	9.0	9.0	9.0	9.0	12.0
	56	5280	9.0	9.0	9.0	9.0	12.0
	60	5300	9.0	9.0	9.0	9.0	12.0
	64	5320	9.0	9.0	9.0	9.0	12.0
802.11ax HE40	54	5270	9.0	9.0	9.0	9.0	12.0
	62	5310	9.0	9.0	9.0	9.0	12.0
802.11ax HE80	58	5290	9.0	9.0	9.0	9.0	12.0
802.11ax HE160	50	5250	9.0	9.0	9.0	9.0	12.0

Tune-up Power (Full)							
WLAN 5.6GHz							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	100	5500	8.0	8.0	8.0	8.0	11.0
	116	5580	8.0	8.0	8.0	8.0	11.0
	120	5600	8.0	8.0	8.0	8.0	11.0
	124	5620	8.0	8.0	8.0	8.0	11.0
	132	5660	8.0	8.0	8.0	8.0	11.0
	140	5700	8.0	8.0	8.0	8.0	11.0
802.11n HT20	144	5720	8.0	8.0	8.0	8.0	11.0
	100	5500	8.0	8.0	8.0	8.0	11.0
	116	5580	8.0	8.0	8.0	8.0	11.0
	120	5600	8.0	8.0	8.0	8.0	11.0
	124	5620	8.0	8.0	8.0	8.0	11.0
	132	5660	8.0	8.0	8.0	8.0	11.0
802.11n HT40	140	5700	8.0	8.0	8.0	8.0	11.0
	144	5720	8.0	8.0	8.0	8.0	11.0
	102	5510	8.0	8.0	8.0	8.0	11.0
	110	5550	8.0	8.0	8.0	8.0	11.0
	118	5590	8.0	8.0	8.0	8.0	11.0
	126	5630	8.0	8.0	8.0	8.0	11.0
802.11ac VHT20	134	5670	8.0	8.0	8.0	8.0	11.0
	142	5710	8.0	8.0	8.0	8.0	11.0
	100	5500	8.0	8.0	8.0	8.0	11.0
	116	5580	8.0	8.0	8.0	8.0	11.0
	120	5600	8.0	8.0	8.0	8.0	11.0
	124	5620	8.0	8.0	8.0	8.0	11.0
802.11ac VHT40	132	5660	8.0	8.0	8.0	8.0	11.0
	140	5700	8.0	8.0	8.0	8.0	11.0
	144	5720	8.0	8.0	8.0	8.0	11.0
	102	5510	8.0	8.0	8.0	8.0	11.0
	110	5550	8.0	8.0	8.0	8.0	11.0
	118	5590	8.0	8.0	8.0	8.0	11.0
802.11ac VHT80	126	5630	8.0	8.0	8.0	8.0	11.0
	134	5670	8.0	8.0	8.0	8.0	11.0
	142	5710	8.0	8.0	8.0	8.0	11.0
	106	5530	8.0	8.0	8.0	8.0	11.0
	122	5610	8.0	8.0	8.0	8.0	11.0
	138	5690	8.0	8.0	8.0	8.0	11.0
802.11ac VHT160	114	5570	9.0	9.0	9.0	9.0	12.0
802.11ax HE20	100	5500	8.0	8.0	8.0	8.0	11.0
	116	5580	8.0	8.0	8.0	8.0	11.0
	120	5600	8.0	8.0	8.0	8.0	11.0
	124	5620	8.0	8.0	8.0	8.0	11.0
	132	5660	8.0	8.0	8.0	8.0	11.0
	140	5700	8.0	8.0	8.0	8.0	11.0
802.11ax HE40	144	5720	8.0	8.0	8.0	8.0	11.0
	102	5510	8.0	8.0	8.0	8.0	11.0
	110	5550	8.0	8.0	8.0	8.0	11.0
	118	5590	8.0	8.0	8.0	8.0	11.0
	126	5630	8.0	8.0	8.0	8.0	11.0
	134	5670	8.0	8.0	8.0	8.0	11.0
802.11ax HE80	142	5710	8.0	8.0	8.0	8.0	11.0
	106	5530	8.0	8.0	8.0	8.0	11.0
	122	5610	8.0	8.0	8.0	8.0	11.0
802.11ax HE160	138	5690	8.0	8.0	8.0	8.0	11.0
	114	5570	9.0	9.0	9.0	9.0	12.0

Tune-up Power (Full)							
WLAN 5.8GHz							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	149	5745	8.0	8.0	8.0	8.0	11.0
	153	5765	8.0	8.0	8.0	8.0	11.0
	157	5785	8.0	8.0	8.0	8.0	11.0
	161	5805	8.0	8.0	8.0	8.0	11.0
	165	5825	8.0	8.0	8.0	8.0	11.0
802.11n HT20	149	5745	8.0	8.0	8.0	8.0	11.0
	153	5765	8.0	8.0	8.0	8.0	11.0
	157	5785	8.0	8.0	8.0	8.0	11.0
	161	5805	8.0	8.0	8.0	8.0	11.0
	165	5825	8.0	8.0	8.0	8.0	11.0
802.11n HT40	151	5755	8.0	8.0	8.0	8.0	11.0
	159	5795	8.0	8.0	8.0	8.0	11.0
802.11ac VHT20	149	5745	8.0	8.0	8.0	8.0	11.0
	153	5765	8.0	8.0	8.0	8.0	11.0
	157	5785	8.0	8.0	8.0	8.0	11.0
	161	5805	8.0	8.0	8.0	8.0	11.0
	165	5825	8.0	8.0	8.0	8.0	11.0
802.11ac VHT40	151	5755	8.0	8.0	8.0	8.0	11.0
	159	5795	8.0	8.0	8.0	8.0	11.0
802.11ac VHT80	155	5775	8.0	8.0	8.0	8.0	11.0
802.11ax HE20	149	5745	8.0	8.0	8.0	8.0	11.0
	153	5765	8.0	8.0	8.0	8.0	11.0
	157	5785	8.0	8.0	8.0	8.0	11.0
	161	5805	8.0	8.0	8.0	8.0	11.0
	165	5825	8.0	8.0	8.0	8.0	11.0
802.11ax HE40	151	5755	8.0	8.0	8.0	8.0	11.0
	159	5795	8.0	8.0	8.0	8.0	11.0
802.11ax HE80	155	5775	8.0	8.0	8.0	8.0	11.0

Tune-up Power (Full)							
WLAN 5.9GHz							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	169	5845	8.0	8.0	8.0	8.0	11.0
	173	5865	8.0	8.0	8.0	8.0	11.0
	177	5885	8.0	8.0	8.0	8.0	11.0
802.11n HT20	169	5845	8.0	8.0	8.0	8.0	11.0
	173	5865	8.0	8.0	8.0	8.0	11.0
	177	5885	8.0	8.0	8.0	8.0	11.0
802.11n HT40	167	5835	8.0	8.0	8.0	8.0	11.0
	175	5875	8.0	8.0	8.0	8.0	11.0
802.11ac VHT20	169	5845	8.0	8.0	8.0	8.0	11.0
	173	5865	8.0	8.0	8.0	8.0	11.0
	177	5885	8.0	8.0	8.0	8.0	11.0
802.11ac VHT40	167	5835	8.0	8.0	8.0	8.0	11.0
	175	5875	8.0	8.0	8.0	8.0	11.0
802.11ac VHT80	171	5855	8.0	8.0	8.0	8.0	11.0
802.11ac VHT160	163	5815	8.0	8.0	8.0	8.0	11.0
802.11ax HE20	169	5845	8.0	8.0	8.0	8.0	11.0
	173	5865	8.0	8.0	8.0	8.0	11.0
	177	5885	8.0	8.0	8.0	8.0	11.0
802.11ax HE40	167	5835	8.0	8.0	8.0	8.0	11.0
	175	5875	8.0	8.0	8.0	8.0	11.0
802.11ax HE80	171	5855	8.0	8.0	8.0	8.0	11.0
802.11ax HE160	163	5815	8.0	8.0	8.0	8.0	11.0



Tune-up Power (Full)							
UNII-5 LPI							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	1	5955	1.0	1.0	1.0	1.0	4.0
	5	5975	1.0	1.0	1.0	1.0	4.0
	9	5995	1.0	1.0	1.0	1.0	4.0
	13	6015	1.0	1.0	1.0	1.0	4.0
	17	6035	1.0	1.0	1.0	1.0	4.0
	21	6055	1.0	1.0	1.0	1.0	4.0
	25	6075	1.0	1.0	1.0	1.0	4.0
	29	6095	1.0	1.0	1.0	1.0	4.0
	33	6115	1.0	1.0	1.0	1.0	4.0
	37	6135	1.0	1.0	1.0	1.0	4.0
	41	6155	1.0	1.0	1.0	1.0	4.0
	45	6175	1.0	1.0	1.0	1.0	4.0
	49	6195	1.0	1.0	1.0	1.0	4.0
	53	6215	1.0	1.0	1.0	1.0	4.0
	57	6235	1.0	1.0	1.0	1.0	4.0
	61	6255	1.0	1.0	1.0	1.0	4.0
	65	6275	1.0	1.0	1.0	1.0	4.0
	69	6295	1.0	1.0	1.0	1.0	4.0
	73	6315	1.0	1.0	1.0	1.0	4.0
	77	6335	1.0	1.0	1.0	1.0	4.0
81	6355	1.0	1.0	1.0	1.0	4.0	
85	6375	1.0	1.0	1.0	1.0	4.0	
89	6395	1.0	1.0	1.0	1.0	4.0	
93	6415	1.0	1.0	1.0	1.0	4.0	
802.11ax HE20	1	5955	1.0	1.0	1.0	1.0	4.0
	5	5975	1.0	1.0	1.0	1.0	4.0
	9	5995	1.0	1.0	1.0	1.0	4.0
	13	6015	1.0	1.0	1.0	1.0	4.0
	17	6035	1.0	1.0	1.0	1.0	4.0
	21	6055	1.0	1.0	1.0	1.0	4.0
	25	6075	1.0	1.0	1.0	1.0	4.0
	29	6095	1.0	1.0	1.0	1.0	4.0
	33	6115	1.0	1.0	1.0	1.0	4.0
	37	6135	1.0	1.0	1.0	1.0	4.0
	41	6155	1.0	1.0	1.0	1.0	4.0
	45	6175	1.0	1.0	1.0	1.0	4.0
	49	6195	1.0	1.0	1.0	1.0	4.0
	53	6215	1.0	1.0	1.0	1.0	4.0
	57	6235	1.0	1.0	1.0	1.0	4.0
	61	6255	1.0	1.0	1.0	1.0	4.0
	65	6275	1.0	1.0	1.0	1.0	4.0
	69	6295	1.0	1.0	1.0	1.0	4.0
	73	6315	1.0	1.0	1.0	1.0	4.0
	77	6335	1.0	1.0	1.0	1.0	4.0
81	6355	1.0	1.0	1.0	1.0	4.0	
85	6375	1.0	1.0	1.0	1.0	4.0	
89	6395	1.0	1.0	1.0	1.0	4.0	
93	6415	1.0	1.0	1.0	1.0	4.0	
802.11ax HE40	3	5965	3.5	3.5	3.5	3.5	6.5
	11	6005	3.5	3.5	3.5	3.5	6.5
	19	6045	3.5	3.5	3.5	3.5	6.5
	27	6085	3.5	3.5	3.5	3.5	6.5
	35	6125	3.5	3.5	3.5	3.5	6.5
	43	6165	3.5	3.5	3.5	3.5	6.5
	51	6205	3.5	3.5	3.5	3.5	6.5
	59	6245	3.5	3.5	3.5	3.5	6.5
	67	6285	3.5	3.5	3.5	3.5	6.5
	75	6325	3.5	3.5	3.5	3.5	6.5
	83	6365	3.5	3.5	3.5	3.5	6.5
	91	6405	3.5	3.5	3.5	3.5	6.5
802.11ax HE80	7	5985	6.0	6.0	6.0	6.0	9.0
	23	6065	6.0	6.0	6.0	6.0	9.0
	39	6145	6.0	6.0	6.0	6.0	9.0
	55	6225	6.0	6.0	6.0	6.0	9.0
	71	6305	6.0	6.0	6.0	6.0	9.0
802.11ax HE160	87	6385	6.0	6.0	6.0	6.0	9.0
	15	6025	6.0	6.0	6.0	6.0	9.0
	47	6185	6.0	6.0	6.0	6.0	9.0
	79	6345	6.0	6.0	6.0	6.0	9.0

Tune-up Power (Full)							
UNII-6 LPI							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	97	6435	1.5	1.5	1.5	1.5	4.5
	101	6455	1.5	1.5	1.5	1.5	4.5
	105	6475	1.5	1.5	1.5	1.5	4.5
	109	6495	1.5	1.5	1.5	1.5	4.5
	113	6515	1.5	1.5	1.5	1.5	4.5
802.11ax HE20	97	6435	1.5	1.5	1.5	1.5	4.5
	101	6455	1.5	1.5	1.5	1.5	4.5
	105	6475	1.5	1.5	1.5	1.5	4.5
	109	6495	1.5	1.5	1.5	1.5	4.5
	113	6515	1.5	1.5	1.5	1.5	4.5
802.11ax HE40	99	6445	4.0	4.0	4.0	4.0	7.0
	107	6485	4.0	4.0	4.0	4.0	7.0
	115	6525	4.0	4.0	4.0	4.0	7.0
802.11ax HE80	103	6465	6.0	6.0	6.0	6.0	9.0
	119	6545	6.0	6.0	6.0	6.0	9.0
802.11ax HE160	111	6505	6.0	6.0	6.0	6.0	9.0

Tune-up Power (Full)							
UNII-7 LPI							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	117	6535	1.0	1.0	1.0	1.0	4.0
	121	6555	1.0	1.0	1.0	1.0	4.0
	125	6575	1.0	1.0	1.0	1.0	4.0
	129	6595	1.0	1.0	1.0	1.0	4.0
	133	6615	1.0	1.0	1.0	1.0	4.0
	137	6635	1.0	1.0	1.0	1.0	4.0
	141	6655	1.0	1.0	1.0	1.0	4.0
	145	6675	1.0	1.0	1.0	1.0	4.0
	149	6695	1.0	1.0	1.0	1.0	4.0
	153	6715	1.0	1.0	1.0	1.0	4.0
	157	6735	1.0	1.0	1.0	1.0	4.0
	161	6755	1.0	1.0	1.0	1.0	4.0
	165	6775	1.0	1.0	1.0	1.0	4.0
	169	6795	1.0	1.0	1.0	1.0	4.0
	173	6815	1.0	1.0	1.0	1.0	4.0
177	6835	1.0	1.0	1.0	1.0	4.0	
181	6855	1.0	1.0	1.0	1.0	4.0	
185	6875	1.0	1.0	1.0	1.0	4.0	
802.11ax HE20	117	6535	1.5	1.5	1.5	1.5	4.5
	121	6555	1.5	1.5	1.5	1.5	4.5
	125	6575	1.5	1.5	1.5	1.5	4.5
	129	6595	1.5	1.5	1.5	1.5	4.5
	133	6615	1.5	1.5	1.5	1.5	4.5
	137	6635	1.5	1.5	1.5	1.5	4.5
	141	6655	1.5	1.5	1.5	1.5	4.5
	145	6675	1.5	1.5	1.5	1.5	4.5
	149	6695	1.5	1.5	1.5	1.5	4.5
	153	6715	1.5	1.5	1.5	1.5	4.5
	157	6735	1.5	1.5	1.5	1.5	4.5
	161	6755	1.5	1.5	1.5	1.5	4.5
	165	6775	1.5	1.5	1.5	1.5	4.5
	169	6795	1.5	1.5	1.5	1.5	4.5
	173	6815	1.5	1.5	1.5	1.5	4.5
177	6835	1.5	1.5	1.5	1.5	4.5	
181	6855	1.5	1.5	1.5	1.5	4.5	
185	6875	2.0	2.0	2.0	2.0	5.0	
802.11ax HE40	123	6565	4.0	4.0	4.0	4.0	7.0
	131	6605	4.0	4.0	4.0	4.0	7.0
	139	6645	4.0	4.0	4.0	4.0	7.0
	147	6685	4.0	4.0	4.0	4.0	7.0
	155	6725	4.0	4.0	4.0	4.0	7.0
	163	6765	4.0	4.0	4.0	4.0	7.0
	171	6805	4.0	4.0	4.0	4.0	7.0
	179	6845	4.0	4.0	4.0	4.0	7.0
187	6885	4.5	4.5	4.5	4.5	7.5	
802.11ax HE80	135	6625	6.0	6.0	6.0	6.0	9.0
	151	6705	6.0	6.0	6.0	6.0	9.0
	167	6785	6.0	6.0	6.0	6.0	9.0
	183	6865	6.0	6.0	6.0	6.0	9.0
802.11ax HE160	143	6665	6.0	6.0	6.0	6.0	9.0
	175	6825	6.0	6.0	6.0	6.0	9.0

Tune-up Power (Full)							
UNII-8 LPI							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	189	6895	1.5	1.5	1.5	1.5	4.5
	193	6915	1.5	1.5	1.5	1.5	4.5
	197	6935	1.5	1.5	1.5	1.5	4.5
	201	6955	1.5	1.5	1.5	1.5	4.5
	205	6975	1.5	1.5	1.5	1.5	4.5
	209	6995	1.5	1.5	1.5	1.5	4.5
	213	7015	1.5	1.5	1.5	1.5	4.5
	217	7035	1.5	1.5	1.5	1.5	4.5
	221	7055	1.5	1.5	1.5	1.5	4.5
	225	7075	1.5	1.5	1.5	1.5	4.5
802.11ax HE20	229	7095	1.5	1.5	1.5	1.5	4.5
	233	7115	1.5	1.5	1.5	1.5	4.5
	189	6895	2.0	2.0	2.0	2.0	5.0
	193	6915	2.0	2.0	2.0	2.0	5.0
	197	6935	2.0	2.0	2.0	2.0	5.0
	201	6955	2.0	2.0	2.0	2.0	5.0
	205	6975	2.0	2.0	2.0	2.0	5.0
	209	6995	2.0	2.0	2.0	2.0	5.0
	213	7015	2.0	2.0	2.0	2.0	5.0
	217	7035	2.0	2.0	2.0	2.0	5.0
802.11ax HE40	221	7055	2.0	2.0	2.0	2.0	5.0
	225	7075	2.0	2.0	2.0	2.0	5.0
	229	7095	2.0	2.0	2.0	2.0	5.0
	233	7115	2.0	2.0	2.0	2.0	5.0
	195	6925	4.5	4.5	4.5	4.5	7.5
	203	6965	4.5	4.5	4.5	4.5	7.5
802.11ax HE80	211	7005	4.5	4.5	4.5	4.5	7.5
	219	7045	4.5	4.5	4.5	4.5	7.5
	227	7085	4.5	4.5	4.5	4.5	7.5
802.11ax HE160	199	6945	6.0	6.0	6.0	6.0	9.0
	215	7025	6.0	6.0	6.0	6.0	9.0
802.11ax HE160	207	6985	6.0	6.0	6.0	6.0	9.0

Tune-up Power (Full)							
UNII-5_SP							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	1	5955	6.0	6.0	6.0	6.0	9.0
	5	5975	6.0	6.0	6.0	6.0	9.0
	9	5995	6.0	6.0	6.0	6.0	9.0
	13	6015	6.0	6.0	6.0	6.0	9.0
	17	6035	6.0	6.0	6.0	6.0	9.0
	21	6055	6.0	6.0	6.0	6.0	9.0
	25	6075	6.0	6.0	6.0	6.0	9.0
	29	6095	6.0	6.0	6.0	6.0	9.0
	33	6115	6.0	6.0	6.0	6.0	9.0
	37	6135	6.0	6.0	6.0	6.0	9.0
	41	6155	6.0	6.0	6.0	6.0	9.0
	45	6175	6.0	6.0	6.0	6.0	9.0
	49	6195	6.0	6.0	6.0	6.0	9.0
	53	6215	6.0	6.0	6.0	6.0	9.0
	57	6235	6.0	6.0	6.0	6.0	9.0
	61	6255	6.0	6.0	6.0	6.0	9.0
	65	6275	6.0	6.0	6.0	6.0	9.0
	69	6295	6.0	6.0	6.0	6.0	9.0
	73	6315	6.0	6.0	6.0	6.0	9.0
	77	6335	6.0	6.0	6.0	6.0	9.0
81	6355	6.0	6.0	6.0	6.0	9.0	
85	6375	6.0	6.0	6.0	6.0	9.0	
89	6395	6.0	6.0	6.0	6.0	9.0	
93	6415	6.0	6.0	6.0	6.0	9.0	
802.11ax HE20	1	5955	6.0	6.0	6.0	6.0	9.0
	5	5975	6.0	6.0	6.0	6.0	9.0
	9	5995	6.0	6.0	6.0	6.0	9.0
	13	6015	6.0	6.0	6.0	6.0	9.0
	17	6035	6.0	6.0	6.0	6.0	9.0
	21	6055	6.0	6.0	6.0	6.0	9.0
	25	6075	6.0	6.0	6.0	6.0	9.0
	29	6095	6.0	6.0	6.0	6.0	9.0
	33	6115	6.0	6.0	6.0	6.0	9.0
	37	6135	6.0	6.0	6.0	6.0	9.0
	41	6155	6.0	6.0	6.0	6.0	9.0
	45	6175	6.0	6.0	6.0	6.0	9.0
	49	6195	6.0	6.0	6.0	6.0	9.0
	53	6215	6.0	6.0	6.0	6.0	9.0
	57	6235	6.0	6.0	6.0	6.0	9.0
	61	6255	6.0	6.0	6.0	6.0	9.0
	65	6275	6.0	6.0	6.0	6.0	9.0
	69	6295	6.0	6.0	6.0	6.0	9.0
	73	6315	6.0	6.0	6.0	6.0	9.0
	77	6335	6.0	6.0	6.0	6.0	9.0
81	6355	6.0	6.0	6.0	6.0	9.0	
85	6375	6.0	6.0	6.0	6.0	9.0	
89	6395	6.0	6.0	6.0	6.0	9.0	
93	6415	6.0	6.0	6.0	6.0	9.0	
802.11ax HE40	3	5965	6.0	6.0	6.0	6.0	9.0
	11	6005	6.0	6.0	6.0	6.0	9.0
	19	6045	6.0	6.0	6.0	6.0	9.0
	27	6085	6.0	6.0	6.0	6.0	9.0
	35	6125	6.0	6.0	6.0	6.0	9.0
	43	6165	6.0	6.0	6.0	6.0	9.0
	51	6205	6.0	6.0	6.0	6.0	9.0
	59	6245	6.0	6.0	6.0	6.0	9.0
	67	6285	6.0	6.0	6.0	6.0	9.0
	75	6325	6.0	6.0	6.0	6.0	9.0
83	6365	6.0	6.0	6.0	6.0	9.0	
91	6405	6.0	6.0	6.0	6.0	9.0	
802.11ax HE80	7	5985	6.0	6.0	6.0	6.0	9.0
	23	6065	6.0	6.0	6.0	6.0	9.0
	39	6145	6.0	6.0	6.0	6.0	9.0
	55	6225	6.0	6.0	6.0	6.0	9.0
	71	6305	6.0	6.0	6.0	6.0	9.0
87	6385	6.0	6.0	6.0	6.0	9.0	
802.11ax HE160	15	6025	6.0	6.0	6.0	6.0	9.0
	47	6185	6.0	6.0	6.0	6.0	9.0
	79	6345	6.0	6.0	6.0	6.0	9.0

Tune-up Power (Full)							
UNII-7_SP							
Mode	Channel	Frequency	SISO Ant 0 Max Tune up	SISO Ant 1 Max Tune up	MIMO Ant 0 Tune up	MIMO Ant 1 Tune up	MIMO Ant 0+1 Max Tune up
802.11a	117	6535	6.0	6.0	6.0	6.0	9.0
	121	6555	6.0	6.0	6.0	6.0	9.0
	125	6575	6.0	6.0	6.0	6.0	9.0
	129	6595	6.0	6.0	6.0	6.0	9.0
	133	6615	6.0	6.0	6.0	6.0	9.0
	137	6635	6.0	6.0	6.0	6.0	9.0
	141	6655	6.0	6.0	6.0	6.0	9.0
	145	6675	6.0	6.0	6.0	6.0	9.0
	149	6695	6.0	6.0	6.0	6.0	9.0
	153	6715	6.0	6.0	6.0	6.0	9.0
	157	6735	6.0	6.0	6.0	6.0	9.0
	161	6755	6.0	6.0	6.0	6.0	9.0
	165	6775	6.0	6.0	6.0	6.0	9.0
	169	6795	6.0	6.0	6.0	6.0	9.0
	173	6815	6.0	6.0	6.0	6.0	9.0
177	6835	6.0	6.0	6.0	6.0	9.0	
181	6855	6.0	6.0	6.0	6.0	9.0	
802.11ax HE20	117	6535	6.0	6.0	6.0	6.0	9.0
	121	6555	6.0	6.0	6.0	6.0	9.0
	125	6575	6.0	6.0	6.0	6.0	9.0
	129	6595	6.0	6.0	6.0	6.0	9.0
	133	6615	6.0	6.0	6.0	6.0	9.0
	137	6635	6.0	6.0	6.0	6.0	9.0
	141	6655	6.0	6.0	6.0	6.0	9.0
	145	6675	6.0	6.0	6.0	6.0	9.0
	149	6695	6.0	6.0	6.0	6.0	9.0
	153	6715	6.0	6.0	6.0	6.0	9.0
	157	6735	6.0	6.0	6.0	6.0	9.0
	161	6755	6.0	6.0	6.0	6.0	9.0
	165	6775	6.0	6.0	6.0	6.0	9.0
	169	6795	6.0	6.0	6.0	6.0	9.0
	173	6815	6.0	6.0	6.0	6.0	9.0
177	6835	6.0	6.0	6.0	6.0	9.0	
181	6855	6.0	6.0	6.0	6.0	9.0	
802.11ax HE40	123	6565	6.0	6.0	6.0	6.0	9.0
	131	6605	6.0	6.0	6.0	6.0	9.0
	139	6645	6.0	6.0	6.0	6.0	9.0
	147	6685	6.0	6.0	6.0	6.0	9.0
	155	6725	6.0	6.0	6.0	6.0	9.0
	163	6765	6.0	6.0	6.0	6.0	9.0
	171	6805	6.0	6.0	6.0	6.0	9.0
179	6845	6.0	6.0	6.0	6.0	9.0	
802.11ax HE80	135	6625	6.0	6.0	6.0	6.0	9.0
	151	6705	6.0	6.0	6.0	6.0	9.0
	167	6785	6.0	6.0	6.0	6.0	9.0
802.11ax HE160	143	6665	6.0	6.0	6.0	6.0	9.0

## Appendix E. Measured Conducted Power Result

The measuring conducted power (Unit: dBm) are shown as below.

Conducted Power (Full)			
WLAN2.4GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11b	1	2412	13.49
	6	2437	13.47
	11	2462	13.33
	12	2467	13.22
	13	2472	13.11
802.11g	1	2412	13.16
	6	2437	13.13
	11	2462	13.12
	12	2467	13.19
	13	2472	11.15
802.11n HT20	1	2412	13.14
	6	2437	13.17
	11	2462	13.11
	12	2467	13.20
	13	2472	9.19
802.11n HT40	3	2422	13.15
	6	2437	13.18
	9	2452	13.14
	10	2457	11.77
	11	2462	9.72
802.11ax HE20	1	2412	13.24
	6	2437	13.28
	11	2462	13.26
	12	2467	13.25
	13	2472	9.76
802.11ax HE40	3	2422	13.20
	6	2437	13.23
	9	2452	13.19
	10	2457	11.82
	11	2462	9.77



Conducted Power (Full)			
WLAN2.4GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11b	1	2412	13.39
	6	2437	13.18
	11	2462	13.35
	12	2467	13.26
	13	2472	13.28
802.11g	1	2412	13.32
	6	2437	13.33
	11	2462	13.33
	12	2467	13.38
	13	2472	11.20
802.11n HT20	1	2412	13.33
	6	2437	13.24
	11	2462	13.28
	12	2467	13.06
	13	2472	9.15
802.11n HT40	3	2422	13.24
	6	2437	13.26
	9	2452	13.25
	10	2457	11.62
	11	2462	9.63
802.11ax HE20	1	2412	13.39
	6	2437	13.31
	11	2462	13.34
	12	2467	13.33
	13	2472	9.78
802.11ax HE40	3	2422	13.34
	6	2437	13.37
	9	2452	13.34
	10	2457	12.50
	11	2462	9.92

Conducted Power (Full)					
WLAN2.4GHz Ant 0+1 for FCC/IC					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11b	1	2412	13.47	13.24	16.37
	6	2437	13.49	13.41	16.46
	11	2462	12.91	13.10	16.02
	12	2467	13.10	13.36	16.24
	13	2472	13.23	13.45	16.35
802.11g	1	2412	13.28	13.24	16.27
	6	2437	13.40	13.23	16.33
	11	2462	13.33	13.23	16.29
	12	2467	13.29	13.30	16.31
	13	2472	11.20	11.25	14.24
802.11n HT20	1	2412	13.11	13.19	16.16
	6	2437	13.30	13.27	16.30
	11	2462	13.16	13.24	16.21
	12	2467	13.06	13.10	16.09
	13	2472	9.15	9.07	12.12
802.11n HT40	3	2422	13.17	13.38	16.29
	6	2437	13.26	13.33	16.31
	9	2452	13.19	13.23	16.22
	10	2457	11.62	11.59	14.62
	11	2462	9.63	9.60	12.63
802.11ax HE20	1	2412	13.22	13.26	16.25
	6	2437	13.43	13.35	16.40
	11	2462	13.26	13.34	16.31
	12	2467	13.16	13.17	16.18
	13	2472	9.78	9.70	12.75
802.11ax HE40	3	2422	13.22	13.41	16.33
	6	2437	13.31	13.36	16.35
	9	2452	13.24	13.26	16.26
	10	2457	11.67	11.62	14.66
	11	2462	9.68	9.63	12.67

Conducted Power (Full)			
Bluetooth Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
BR / EDR	0	2402	11.42
	39	2441	10.84
	78	2480	11.40
LE	0	2402	11.37
	19	2440	11.00
	39	2480	11.31

Conducted Power (Full)			
WLAN 5.2GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	36	5180	8.84
	40	5200	8.82
	44	5220	8.77
	48	5240	8.78
802.11n HT20	36	5180	8.60
	40	5200	8.54
	44	5220	8.62
	48	5240	8.55
802.11n HT40	38	5190	8.66
	46	5230	8.58
802.11ac VHT20	36	5180	8.71
	40	5200	8.65
	44	5220	8.73
	48	5240	8.66
802.11ac VHT40	38	5190	8.77
	46	5230	8.63
802.11ac VHT80	42	5210	8.77
802.11ax HE20	36	5180	8.81
	40	5200	8.77
	44	5220	8.83
	48	5240	8.78
802.11ax HE40	38	5190	8.84
	46	5230	8.73
802.11ax HE80	42	5210	8.87

Conducted Power (Full)			
WLAN 5.2GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	36	5180	8.77
	40	5200	8.69
	44	5220	8.77
	48	5240	8.72
802.11n HT20	36	5180	8.61
	40	5200	8.55
	44	5220	8.70
	48	5240	8.56
802.11n HT40	38	5190	8.60
	46	5230	8.61
802.11ac VHT20	36	5180	8.66
	40	5200	8.60
	44	5220	8.75
	48	5240	8.61
802.11ac VHT40	38	5190	8.65
	46	5230	8.66
802.11ac VHT80	42	5210	8.81
802.11ax HE20	36	5180	8.78
	40	5200	8.71
	44	5220	8.79
	48	5240	8.73
802.11ax HE40	38	5190	8.77
	46	5230	8.78
802.11ax HE80	42	5210	8.69

Conducted Power (Full)					
WLAN 5.2GHz Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11a	36	5180	8.71	8.60	11.67
	40	5200	8.68	8.60	11.65
	44	5220	8.84	8.66	11.76
	48	5240	8.79	8.64	11.73
802.11n HT20	36	5180	8.80	8.37	11.60
	40	5200	8.79	8.55	11.68
	44	5220	8.66	8.50	11.59
	48	5240	8.57	8.55	11.57
802.11n HT40	38	5190	8.65	8.35	11.51
	46	5230	8.63	8.70	11.68
802.11ac VHT20	36	5180	8.74	8.45	11.61
	40	5200	8.78	8.63	11.72
	44	5220	8.78	8.58	11.69
	48	5240	8.65	8.63	11.65
802.11ac VHT40	38	5190	8.73	8.43	11.59
	46	5230	8.71	8.78	11.76
802.11ac VHT80	42	5210	8.61	8.14	11.39
802.11ax HE20	36	5180	8.81	8.62	11.73
	40	5200	8.85	8.70	11.79
	44	5220	8.85	8.65	11.76
	48	5240	8.72	8.70	11.72
802.11ax HE40	38	5190	8.80	8.71	11.77
	46	5230	8.78	8.80	11.80
802.11ax HE80	42	5210	8.79	8.75	11.78

Conducted Power (Full)			
WLAN 5.3GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	52	5260	8.78
	56	5280	8.67
	60	5300	8.73
	64	5320	8.68
802.11n HT20	52	5260	8.78
	56	5280	8.70
	60	5300	8.74
	64	5320	8.70
802.11n HT40	54	5270	8.71
	62	5310	8.77
802.11ac VHT20	52	5260	8.80
	56	5280	8.86
	60	5300	8.86
	64	5320	8.89
802.11ac VHT40	54	5270	8.86
	62	5310	8.80
802.11ac VHT80	58	5290	8.82
802.11ac VHT160	50	5250	8.88
802.11ax HE20	52	5260	8.94
	56	5280	8.93
	60	5300	8.90
	64	5320	8.96
802.11ax HE40	54	5270	8.98
	62	5310	8.93
802.11ax HE80	58	5290	8.98
802.11ax HE160	50	5250	8.92

Conducted Power (Full)			
WLAN 5.3GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	52	5260	8.67
	56	5280	8.77
	60	5300	8.81
	64	5320	8.73
802.11n HT20	52	5260	8.69
	56	5280	8.75
	60	5300	8.73
	64	5320	8.69
802.11n HT40	54	5270	8.73
	62	5310	8.80
802.11ac VHT20	52	5260	8.82
	56	5280	8.87
	60	5300	8.86
	64	5320	8.80
802.11ac VHT40	54	5270	8.85
	62	5310	8.84
802.11ac VHT80	58	5290	8.82
802.11ac VHT160	50	5250	8.79
802.11ax HE20	52	5260	8.93
	56	5280	8.94
	60	5300	8.96
	64	5320	8.94
802.11ax HE40	54	5270	8.95
	62	5310	8.92
802.11ax HE80	58	5290	8.98
802.11ax HE160	50	5250	8.99



Conducted Power (Full)					
WLAN 5.3GHz Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11a	52	5260	8.79	8.31	11.57
	56	5280	8.81	8.36	11.60
	60	5300	8.85	8.38	11.63
	64	5320	8.89	8.42	11.67
802.11n HT20	52	5260	8.69	8.34	11.53
	56	5280	8.71	8.37	11.55
	60	5300	8.75	8.30	11.54
	64	5320	8.68	8.35	11.53
802.11n HT40	54	5270	8.66	8.30	11.49
	62	5310	8.72	8.39	11.57
802.11ac VHT20	52	5260	8.83	8.47	11.66
	56	5280	8.81	8.55	11.69
	60	5300	8.83	8.50	11.68
	64	5320	8.83	8.45	11.65
802.11ac VHT40	54	5270	8.76	8.52	11.65
	62	5310	8.79	8.45	11.63
802.11ac VHT80	58	5290	8.79	8.44	11.63
802.11ac VHT160	50	5250	8.86	8.65	11.77
802.11ax HE20	52	5260	8.86	8.62	11.75
	56	5280	8.90	8.66	11.79
	60	5300	8.93	8.63	11.79
	64	5320	8.91	8.64	11.79
802.11ax HE40	54	5270	8.86	8.51	11.70
	62	5310	8.85	8.49	11.68
802.11ax HE80	58	5290	8.95	8.74	11.86
802.11ax HE160	50	5250	8.97	8.66	11.83

Conducted Power (Full)			
WLAN 5.6GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	100	5500	7.87
	116	5580	7.91
	120	5600	7.86
	124	5620	7.92
	132	5660	7.91
	140	5700	7.93
	144	5720	7.88
802.11n HT20	100	5500	7.55
	116	5580	7.60
	120	5600	7.42
	124	5620	7.57
	132	5660	7.64
	140	5700	7.55
802.11n HT40	102	5510	7.62
	110	5550	7.59
	118	5590	7.69
	126	5630	7.62
	134	5670	7.61
	142	5710	7.70
802.11ac VHT20	100	5500	7.74
	116	5580	7.70
	120	5600	7.72
	124	5620	7.74
	132	5660	7.74
	140	5700	7.79
	144	5720	7.74
802.11ac VHT40	102	5510	7.72
	110	5550	7.78
	118	5590	7.78
	126	5630	7.72
	134	5670	7.79
	142	5710	7.80
802.11ac VHT80	106	5530	7.71
	122	5610	7.73
	138	5690	7.80
802.11ac VHT160	114	5570	8.92
802.11ax HE20	100	5500	7.89
	116	5580	7.85
	120	5600	7.87
	124	5620	7.89
	132	5660	7.89
	140	5700	7.94
	144	5720	7.89
802.11ax HE40	102	5510	7.87
	110	5550	7.93
	118	5590	7.93
	126	5630	7.87
	134	5670	7.94
	142	5710	7.95
802.11ax HE80	106	5530	7.90
	122	5610	7.88
	138	5690	7.87
802.11ax HE160	114	5570	8.93

Conducted Power (Full)			
WLAN 5.6GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	100	5500	7.88
	116	5580	7.82
	120	5600	7.86
	124	5620	7.80
	132	5660	7.90
	140	5700	7.83
	144	5720	7.88
802.11n HT20	100	5500	7.63
	116	5580	7.46
	120	5600	7.57
	124	5620	7.52
	132	5660	7.64
	140	5700	7.54
802.11n HT40	102	5510	7.49
	110	5550	7.48
	118	5590	7.65
	126	5630	7.59
	134	5670	7.54
	142	5710	7.58
802.11ac VHT20	100	5500	7.68
	116	5580	7.63
	120	5600	7.74
	124	5620	7.65
	132	5660	7.78
	140	5700	7.67
802.11ac VHT40	102	5510	7.69
	110	5550	7.72
	118	5590	7.80
	126	5630	7.77
	134	5670	7.70
	142	5710	7.62
802.11ac VHT80	106	5530	7.74
	122	5610	7.88
	138	5690	7.89
802.11ac VHT160	114	5570	8.70
802.11ax HE20	100	5500	7.87
	116	5580	7.81
	120	5600	7.85
	124	5620	7.81
	132	5660	7.88
	140	5700	7.81
802.11ax HE40	102	5510	7.87
	110	5550	7.82
	118	5590	7.90
	126	5630	7.89
	134	5670	7.83
	142	5710	7.82
802.11ax HE80	106	5530	7.86
	122	5610	7.89
	138	5690	7.91
802.11ax HE160	114	5570	8.85

Conducted Power (Full)					
WLAN 5.6GHz Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11a	100	5500	7.45	7.84	10.66
	116	5580	7.37	7.88	10.64
	120	5600	7.41	7.83	10.64
	124	5620	7.40	7.81	10.62
	132	5660	7.57	7.85	10.72
	140	5700	7.47	7.81	10.65
802.11n HT20	144	5720	7.53	7.89	10.72
	100	5500	7.38	7.53	10.47
	116	5580	7.33	7.48	10.42
	120	5600	7.41	7.56	10.50
	124	5620	7.44	7.59	10.53
	132	5660	7.39	7.54	10.48
802.11n HT40	140	5700	7.39	7.54	10.48
	144	5720	7.41	7.56	10.50
	102	5510	7.45	7.60	10.54
	110	5550	7.41	7.56	10.50
	118	5590	7.40	7.55	10.49
	126	5630	7.36	7.51	10.45
802.11ac VHT20	134	5670	7.43	7.58	10.52
	142	5710	7.39	7.54	10.48
	100	5500	7.56	7.71	10.65
	116	5580	7.52	7.67	10.61
	120	5600	7.55	7.70	10.64
	124	5620	7.64	7.79	10.73
802.11ac VHT40	132	5660	7.54	7.69	10.63
	140	5700	7.55	7.70	10.64
	144	5720	7.58	7.73	10.67
	102	5510	7.55	7.70	10.64
	110	5550	7.60	7.75	10.69
	118	5590	7.55	7.70	10.64
802.11ac VHT80	126	5630	7.54	7.69	10.63
	134	5670	7.55	7.70	10.64
	142	5710	7.51	7.66	10.60
	106	5530	7.10	7.68	10.41
	122	5610	7.58	7.79	10.70
	138	5690	7.30	7.85	10.59
802.11ac VHT160	114	5570	8.65	8.83	11.75
802.11ax HE20	100	5500	7.71	7.82	10.78
	116	5580	7.73	7.84	10.80
	120	5600	7.79	7.90	10.86
	124	5620	7.74	7.85	10.81
	132	5660	7.73	7.84	10.80
	140	5700	7.73	7.84	10.80
802.11ax HE40	144	5720	7.76	7.87	10.83
	102	5510	7.70	7.81	10.77
	110	5550	7.74	7.85	10.81
	118	5590	7.72	7.83	10.79
	126	5630	7.69	7.80	10.76
	134	5670	7.79	7.90	10.86
802.11ax HE80	142	5710	7.71	7.82	10.78
	106	5530	7.71	7.82	10.78
	122	5610	7.69	7.80	10.76
802.11ax HE160	138	5690	7.78	7.89	10.85
	114	5570	8.62	8.83	11.74

Conducted Power (Full)			
WLAN 5.8GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	149	5745	7.83
	153	5765	7.80
	157	5785	7.87
	161	5805	7.89
	165	5825	7.81
802.11n HT20	149	5745	7.51
	153	5765	7.52
	157	5785	7.54
	161	5805	7.51
	165	5825	7.54
802.11n HT40	151	5755	7.57
	159	5795	7.46
802.11ac VHT20	149	5745	7.72
	153	5765	7.66
	157	5785	7.77
	161	5805	7.74
	165	5825	7.65
802.11ac VHT40	151	5755	7.67
	159	5795	7.65
802.11ac VHT80	155	5775	7.61
802.11ax HE20	149	5745	7.82
	153	5765	7.85
	157	5785	7.85
	161	5805	7.86
	165	5825	7.86
802.11ax HE40	151	5755	7.83
	159	5795	7.87
802.11ax HE80	155	5775	7.90

Conducted Power (Full)			
WLAN 5.8GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	149	5745	7.90
	153	5765	7.86
	157	5785	7.82
	161	5805	7.87
	165	5825	7.89
802.11n HT20	149	5745	7.53
	153	5765	7.52
	157	5785	7.37
	161	5805	7.61
	165	5825	7.79
802.11n HT40	151	5755	7.67
	159	5795	7.48
802.11ac VHT20	149	5745	7.71
	153	5765	7.67
	157	5785	7.56
	161	5805	7.75
	165	5825	7.84
802.11ac VHT40	151	5755	7.79
	159	5795	7.65
802.11ac VHT80	155	5775	7.85
802.11ax HE20	149	5745	7.90
	153	5765	7.85
	157	5785	7.81
	161	5805	7.90
	165	5825	7.94
802.11ax HE40	151	5755	7.90
	159	5795	7.86
802.11ax HE80	155	5775	7.83

Conducted Power (Full)					
WLAN 5.8GHz Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11a	149	5745	7.74	7.87	10.82
	153	5765	7.66	7.83	10.76
	157	5785	7.57	7.80	10.70
	161	5805	7.76	7.88	10.83
	165	5825	7.57	7.76	10.68
802.11n HT20	149	5745	7.44	7.51	10.49
	153	5765	7.38	7.49	10.45
	157	5785	7.26	7.40	10.34
	161	5805	7.43	7.55	10.50
	165	5825	7.33	7.40	10.38
802.11n HT40	151	5755	7.45	7.49	10.48
	159	5795	7.33	7.41	10.38
802.11ac VHT20	149	5745	7.59	7.72	10.67
	153	5765	7.55	7.64	10.61
	157	5785	7.45	7.60	10.54
	161	5805	7.62	7.78	10.71
	165	5825	7.50	7.57	10.55
802.11ac VHT40	151	5755	7.69	7.77	10.74
	159	5795	7.58	7.68	10.64
802.11ac VHT80	155	5775	7.71	7.91	10.82
802.11ax HE20	149	5745	7.77	7.89	10.84
	153	5765	7.74	7.83	10.80
	157	5785	7.69	7.75	10.73
	161	5805	7.78	7.81	10.81
	165	5825	7.66	7.79	10.74
802.11ax HE40	151	5755	7.78	7.84	10.82
	159	5795	7.73	7.82	10.79
802.11ax HE80	155	5775	7.74	7.94	10.85

Conducted Power (Full)			
WLAN 5.9GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	169	5845	7.88
	173	5865	7.84
	177	5885	7.83
802.11n HT20	169	5845	7.63
	173	5865	7.50
	177	5885	7.35
802.11n HT40	167	5835	7.54
	175	5875	7.46
802.11ac VHT20	169	5845	7.76
	173	5865	7.70
	177	5885	7.57
802.11ac VHT40	167	5835	7.68
	175	5875	7.65
802.11ac VHT80	171	5855	7.68
802.11ac VHT160	163	5815	7.97
802.11ax HE20	169	5845	7.90
	173	5865	7.85
	177	5885	7.81
802.11ax HE40	167	5835	7.81
	175	5875	7.85
802.11ax HE80	171	5855	7.84
802.11ax HE160	163	5815	7.99



Conducted Power (Full)			
WLAN 5.9GHz Ant 1			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	169	5845	7.77
	173	5865	7.79
	177	5885	7.80
802.11n HT20	169	5845	7.51
	173	5865	7.32
	177	5885	7.40
802.11n HT40	167	5835	7.61
	175	5875	7.31
802.11ac VHT20	169	5845	7.68
	173	5865	7.55
	177	5885	7.56
802.11ac VHT40	167	5835	7.77
	175	5875	7.55
802.11ac VHT80	171	5855	7.70
802.11ac VHT160	163	5815	7.92
802.11ax HE20	169	5845	7.85
	173	5865	7.76
	177	5885	7.81
802.11ax HE40	167	5835	7.88
	175	5875	7.83
802.11ax HE80	171	5855	7.90
802.11ax HE160	163	5815	7.93

Conducted Power (Full)					
WLAN 5.9GHz Ant 0+1					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11a	169	5845	7.62	7.81	10.73
	173	5865	7.55	7.84	10.71
	177	5885	7.55	7.81	10.69
802.11n HT20	169	5845	7.43	7.57	10.51
	173	5865	7.10	7.34	10.23
	177	5885	7.18	7.39	10.30
802.11n HT40	167	5835	7.48	7.67	10.59
	175	5875	7.20	7.38	10.30
802.11ac VHT20	169	5845	7.48	7.64	10.57
	173	5865	7.30	7.51	10.42
	177	5885	7.42	7.62	10.53
802.11ac VHT40	167	5835	7.51	7.67	10.60
	175	5875	7.46	7.56	10.52
802.11ac VHT80	171	5855	7.68	7.79	10.75
802.11ac VHT160	163	5815	7.86	7.96	10.92
802.11ax HE20	169	5845	7.62	7.80	10.72
	173	5865	7.56	7.75	10.67
	177	5885	7.62	7.78	10.71
802.11ax HE40	167	5835	7.66	7.80	10.74
	175	5875	7.57	7.81	10.70
802.11ax HE80	171	5855	7.70	7.90	10.81
802.11ax HE160	163	5815	7.88	7.99	10.95

Conducted Power (Full)			
UNII-5 Ant 0_LPI			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	1	5955	0.70
	5	5975	0.52
	9	5995	0.76
	13	6015	0.52
	17	6035	0.64
	21	6055	0.56
	25	6075	0.74
	29	6095	0.53
	33	6115	0.67
	37	6135	0.59
	41	6155	0.88
	45	6175	0.52
	49	6195	0.70
	53	6215	0.73
	57	6235	0.79
	61	6255	0.78
	65	6275	0.85
	69	6295	0.65
	73	6315	0.64
	77	6335	0.74
81	6355	0.65	
85	6375	0.63	
89	6395	0.60	
93	6415	0.78	
802.11ax HE20	1	5955	0.59
	5	5975	0.60
	9	5995	0.51
	13	6015	0.77
	17	6035	0.52
	21	6055	0.62
	25	6075	0.59
	29	6095	0.86
	33	6115	0.56
	37	6135	0.76
	41	6155	0.74
	45	6175	0.76
	49	6195	0.73
	53	6215	0.90
	57	6235	0.63
	61	6255	0.69
	65	6275	0.77
	69	6295	0.68
	73	6315	0.64
	77	6335	0.57
81	6355	0.74	
85	6375	0.59	
89	6395	0.62	
93	6415	0.55	
802.11ax HE40	3	5965	3.18
	11	6005	3.10
	19	6045	3.20
	27	6085	3.06
	35	6125	3.19
	43	6165	3.08
	51	6205	3.21
	59	6245	3.06
	67	6285	3.12
	75	6325	3.00
83	6365	3.36	
91	6405	3.08	
802.11ax HE80	7	5985	5.90
	23	6065	5.77
	39	6145	5.81
	55	6225	5.85
	71	6305	5.76
87	6385	5.86	
802.11ax HE160	15	6025	5.96
	47	6185	5.59
	79	6345	5.75

Conducted Power (Full)			
UNII-5 Ant 1_LPI			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	1	5955	0.50
	5	5975	0.44
	9	5995	0.48
	13	6015	0.46
	17	6035	0.37
	21	6055	0.51
	25	6075	0.39
	29	6095	0.49
	33	6115	0.46
	37	6135	0.49
	41	6155	0.38
	45	6175	0.45
	49	6195	0.62
	53	6215	0.63
	57	6235	0.64
	61	6255	0.40
	65	6275	0.61
	69	6295	0.32
	73	6315	0.46
	77	6335	0.44
81	6355	0.58	
85	6375	0.70	
89	6395	0.57	
93	6415	0.76	
802.11ax HE20	1	5955	0.55
	5	5975	0.66
	9	5995	0.58
	13	6015	0.79
	17	6035	0.53
	21	6055	0.62
	25	6075	0.51
	29	6095	0.84
	33	6115	0.53
	37	6135	0.80
	41	6155	0.72
	45	6175	0.74
	49	6195	0.70
	53	6215	0.81
	57	6235	0.63
	61	6255	0.63
	65	6275	0.74
	69	6295	0.66
	73	6315	0.66
	77	6335	0.55
81	6355	0.80	
85	6375	0.55	
89	6395	0.68	
93	6415	0.55	
802.11ax HE40	3	5965	3.10
	11	6005	3.00
	19	6045	3.29
	27	6085	3.06
	35	6125	3.10
	43	6165	3.09
	51	6205	3.25
	59	6245	3.05
	67	6285	3.13
	75	6325	3.01
83	6365	3.32	
91	6405	3.08	
802.11ax HE80	7	5985	5.80
	23	6065	5.82
	39	6145	5.83
	55	6225	5.81
	71	6305	5.83
87	6385	5.87	
802.11ax HE160	15	6025	5.93
	47	6185	5.66
	79	6345	5.57

Conducted Power (Full)					
UNII-5 Ant 0+1_LPI					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11a	1	5955	0.62	0.45	3.55
	5	5975	0.59	0.49	3.55
	9	5995	0.70	0.40	3.56
	13	6015	0.53	0.46	3.51
	17	6035	0.66	0.33	3.51
	21	6055	0.52	0.40	3.47
	25	6075	0.70	0.40	3.56
	29	6095	0.50	0.36	3.44
	33	6115	0.65	0.40	3.54
	37	6135	0.54	0.45	3.51
	41	6155	0.88	0.47	3.69
	45	6175	0.60	0.40	3.51
	49	6195	0.78	0.59	3.70
	53	6215	0.67	0.52	3.61
	57	6235	0.70	0.54	3.63
	61	6255	0.73	0.51	3.63
	65	6275	0.80	0.55	3.69
	69	6295	0.70	0.41	3.57
	73	6315	0.61	0.40	3.52
	77	6335	0.73	0.39	3.57
81	6355	0.65	0.48	3.58	
85	6375	0.60	0.50	3.56	
89	6395	0.57	0.46	3.53	
93	6415	0.70	0.47	3.60	
802.11ax HE20	1	5955	0.60	0.45	3.54
	5	5975	0.63	0.42	3.54
	9	5995	0.55	0.53	3.55
	13	6015	0.71	0.46	3.60
	17	6035	0.54	0.41	3.49
	21	6055	0.65	0.47	3.57
	25	6075	0.50	0.43	3.48
	29	6095	0.81	0.45	3.64
	33	6115	0.50	0.41	3.47
	37	6135	0.72	0.53	3.64
	41	6155	0.68	0.56	3.63
	45	6175	0.75	0.54	3.66
	49	6195	0.77	0.51	3.65
	53	6215	0.86	0.51	3.70
	57	6235	0.70	0.35	3.54
	61	6255	0.62	0.49	3.57
	65	6275	0.80	0.38	3.61
	69	6295	0.69	0.48	3.60
	73	6315	0.71	0.46	3.60
	77	6335	0.78	0.44	3.62
81	6355	0.89	0.63	3.77	
85	6375	0.64	0.39	3.53	
89	6395	0.63	0.41	3.53	
93	6415	0.77	0.45	3.62	
802.11ax HE40	3	5965	3.16	2.97	6.08
	11	6005	3.00	2.85	5.94
	19	6045	3.30	3.01	6.17
	27	6085	3.05	3.01	6.04
	35	6125	3.17	2.91	6.05
	43	6165	3.08	3.00	6.05
	51	6205	3.24	3.03	6.15
	59	6245	3.04	3.04	6.05
	67	6285	3.14	2.98	6.07
	75	6325	3.02	2.86	5.95
802.11ax HE80	83	6365	3.37	3.07	6.23
	91	6405	3.09	2.85	5.98
	7	5985	5.80	5.72	8.77
	23	6065	5.78	5.56	8.68
	39	6145	5.75	5.56	8.67
802.11ax HE160	55	6225	5.80	5.62	8.72
	71	6305	5.83	5.64	8.75
	87	6385	5.83	5.64	8.75
802.11ax HE160	15	6025	5.96	5.40	8.70
	47	6185	5.53	5.21	8.38
	79	6345	5.16	5.63	8.41

Conducted Power (Full)			
UNII-6 Ant 0_LPI			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	97	6435	1.10
	101	6455	1.05
	105	6475	1.23
	109	6495	1.02
	113	6515	1.11
802.11ax HE20	97	6435	1.10
	101	6455	1.29
	105	6475	1.05
	109	6495	1.13
	113	6515	1.03
802.11ax HE40	99	6445	3.85
	107	6485	3.58
	115	6525	3.77
802.11ax HE80	103	6465	5.84
	119	6545	5.85
802.11ax HE160	111	6505	5.94

Conducted Power (Full)			
UNII-6 Ant 1_LPI			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	97	6435	1.15
	101	6455	1.07
	105	6475	1.28
	109	6495	1.04
	113	6515	1.11
802.11ax HE20	97	6435	1.01
	101	6455	1.28
	105	6475	1.07
	109	6495	1.12
	113	6515	1.09
802.11ax HE40	99	6445	3.82
	107	6485	3.59
	115	6525	3.71
802.11ax HE80	103	6465	5.80
	119	6545	5.75
802.11ax HE160	111	6505	5.85

Conducted Power (Full)					
UNII-6 Ant 0+1_LPI					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11a	97	6435	1.14	0.94	4.05
	101	6455	1.09	0.97	4.04
	105	6475	1.24	0.87	4.07
	109	6495	1.06	0.97	4.03
	113	6515	1.20	0.90	4.06
802.11ax HE20	97	6435	1.10	1.01	4.07
	101	6455	1.24	0.96	4.11
	105	6475	1.10	0.96	4.04
	109	6495	1.14	1.04	4.10
	113	6515	1.00	0.89	3.96
802.11ax HE40	99	6445	3.88	3.43	6.67
	107	6485	3.59	3.49	6.55
	115	6525	3.76	3.49	6.64
802.11ax HE80	103	6465	5.85	5.69	8.78
	119	6545	5.81	5.55	8.69
802.11ax HE160	111	6505	5.91	5.44	8.69



Conducted Power (Full)			
UNII-7 Ant 0_LPI			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	117	6535	0.64
	121	6555	0.52
	125	6575	0.74
	129	6595	0.60
	133	6615	0.62
	137	6635	0.52
	141	6655	0.72
	145	6675	0.50
	149	6695	0.69
	153	6715	0.60
	157	6735	0.88
	161	6755	0.52
	165	6775	0.74
	169	6795	0.71
	173	6815	0.79
177	6835	0.72	
181	6855	0.86	
185	6875	0.60	
802.11ax HE20	117	6535	1.10
	121	6555	1.03
	125	6575	1.24
	129	6595	1.04
	133	6615	1.20
	137	6635	1.09
	141	6655	1.25
	145	6675	1.01
	149	6695	1.19
	153	6715	1.06
	157	6735	1.32
	161	6755	1.10
	165	6775	1.21
	169	6795	1.16
	173	6815	1.29
177	6835	1.27	
181	6855	1.39	
185	6875	1.63	
802.11ax HE40	123	6565	3.53
	131	6605	3.76
	139	6645	3.53
	147	6685	3.64
	155	6725	3.53
	163	6765	3.71
	171	6805	3.51
	179	6845	3.65
187	6885	4.04	
802.11ax HE80	135	6625	5.77
	151	6705	5.76
	167	6785	5.78
	183	6865	5.79
802.11ax HE160	143	6665	5.80
	175	6825	5.54

Conducted Power (Full)			
UNII-7 Ant 1_LPI			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	117	6535	0.67
	121	6555	0.52
	125	6575	0.73
	129	6595	0.57
	133	6615	0.67
	137	6635	0.58
	141	6655	0.73
	145	6675	0.59
	149	6695	0.62
	153	6715	0.59
	157	6735	0.88
	161	6755	0.59
	165	6775	0.71
	169	6795	0.67
	173	6815	0.71
177	6835	0.77	
181	6855	0.84	
185	6875	0.68	
802.11ax HE20	117	6535	1.17
	121	6555	1.04
	125	6575	1.29
	129	6595	1.01
	133	6615	1.10
	137	6635	1.09
	141	6655	1.26
	145	6675	1.02
	149	6695	1.13
	153	6715	1.03
	157	6735	1.33
	161	6755	1.00
	165	6775	1.24
	169	6795	1.17
	173	6815	1.27
177	6835	1.24	
181	6855	1.32	
185	6875	1.68	
802.11ax HE40	123	6565	3.58
	131	6605	3.76
	139	6645	3.58
	147	6685	3.70
	155	6725	3.59
	163	6765	3.78
	171	6805	3.51
	179	6845	3.62
187	6885	4.01	
802.11ax HE80	135	6625	5.69
	151	6705	5.58
	167	6785	5.60
802.11ax HE160	183	6865	5.66
	143	6665	5.54
	175	6825	5.70

Conducted Power (Full)					
UNII-7 Ant 0+1_LPI					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11a	117	6535	0.70	0.51	3.62
	121	6555	0.58	0.49	3.55
	125	6575	0.76	0.41	3.60
	129	6595	0.59	0.42	3.52
	133	6615	0.62	0.36	3.50
	137	6635	0.55	0.49	3.53
	141	6655	0.79	0.37	3.60
	145	6675	0.50	0.50	3.51
	149	6695	0.65	0.36	3.52
	153	6715	0.55	0.45	3.51
	157	6735	0.81	0.52	3.68
	161	6755	0.50	0.45	3.49
	165	6775	0.76	0.44	3.61
	169	6795	0.73	0.64	3.70
	173	6815	0.71	0.48	3.61
	177	6835	0.71	0.57	3.65
181	6855	0.80	0.56	3.69	
185	6875	0.70	0.35	3.54	
802.11ax HE20	117	6535	1.13	0.89	4.02
	121	6555	1.01	0.95	3.99
	125	6575	1.24	0.91	4.09
	129	6595	1.02	1.01	4.03
	133	6615	1.20	0.95	4.09
	137	6635	1.10	1.06	4.09
	141	6655	1.29	1.06	4.19
	145	6675	1.03	1.02	4.04
	149	6695	1.20	1.07	4.15
	153	6715	1.06	0.96	4.02
	157	6735	1.32	0.96	4.15
	161	6755	1.09	0.96	4.04
	165	6775	1.24	1.09	4.18
	169	6795	1.21	1.06	4.15
	173	6815	1.27	1.11	4.20
	177	6835	1.20	0.93	4.08
181	6855	1.35	1.05	4.21	
185	6875	1.63	1.50	4.58	
802.11ax HE40	123	6565	3.56	3.45	6.52
	131	6605	3.80	3.48	6.65
	139	6645	3.60	3.45	6.54
	147	6685	3.66	3.34	6.51
	155	6725	3.52	3.50	6.52
	163	6765	3.71	3.44	6.59
	171	6805	3.50	3.40	6.46
	179	6845	3.70	3.53	6.63
187	6885	4.09	3.92	7.02	
802.11ax HE80	135	6625	5.83	5.65	8.75
	151	6705	5.78	5.60	8.70
	167	6785	5.83	5.54	8.70
802.11ax HE160	183	6865	5.89	5.66	8.79
	143	6665	5.36	5.53	8.46
	175	6825	5.53	5.69	8.62

Conducted Power (Full)			
UNII-8 Ant 0_LPI			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	189	6895	1.14
	193	6915	1.02
	197	6935	1.21
	201	6955	1.03
	205	6975	1.20
	209	6995	1.01
	213	7015	1.26
	217	7035	1.00
	221	7055	1.13
	225	7075	1.02
	229	7095	1.38
	233	7115	1.06
802.11ax HE20	189	6895	1.61
	193	6915	1.58
	197	6935	1.73
	201	6955	1.59
	205	6975	1.69
	209	6995	1.54
	213	7015	1.79
	217	7035	1.52
	221	7055	1.60
	225	7075	1.55
	229	7095	1.84
	233	7115	1.54
802.11ax HE40	195	6925	4.22
	203	6965	4.23
	211	7005	4.23
	219	7045	4.26
	227	7085	4.40
802.11ax HE80	199	6945	5.82
	215	7025	5.87
802.11ax HE160	207	6985	5.98

Conducted Power (Full)			
UNII-8 Ant 1_LPI			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	189	6895	1.13
	193	6915	1.06
	197	6935	1.27
	201	6955	1.10
	205	6975	1.19
	209	6995	1.05
	213	7015	1.29
	217	7035	1.06
	221	7055	1.12
	225	7075	1.02
	229	7095	1.36
802.11ax HE20	233	7115	1.08
	189	6895	1.66
	193	6915	1.54
	197	6935	1.77
	201	6955	1.53
	205	6975	1.69
	209	6995	1.50
	213	7015	1.75
	217	7035	1.53
	221	7055	1.62
	225	7075	1.50
802.11ax HE40	229	7095	1.86
	233	7115	1.59
	195	6925	4.22
	203	6965	4.19
	211	7005	4.28
802.11ax HE80	219	7045	4.25
	227	7085	4.33
802.11ax HE80	199	6945	5.70
	215	7025	5.61
802.11ax HE160	207	6985	5.77

Conducted Power (Full)					
UNII-8 Ant 0+1_LPI					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11a	189	6895	1.12	0.93	4.04
	193	6915	1.04	0.94	4.00
	197	6935	1.25	0.92	4.10
	201	6955	1.08	0.95	4.03
	205	6975	1.11	0.88	4.01
	209	6995	1.02	0.96	4.00
	213	7015	1.20	0.96	4.09
	217	7035	1.10	1.02	4.07
	221	7055	1.19	1.08	4.15
	225	7075	1.04	0.96	4.01
	229	7095	1.36	0.97	4.18
	233	7115	1.10	0.92	4.02
802.11ax HE20	189	6895	1.68	1.55	4.63
	193	6915	1.54	1.41	4.49
	197	6935	1.75	1.49	4.63
	201	6955	1.55	1.55	4.56
	205	6975	1.69	1.49	4.60
	209	6995	1.53	1.44	4.50
	213	7015	1.72	1.51	4.63
	217	7035	1.50	1.45	4.49
	221	7055	1.60	1.36	4.49
	225	7075	1.52	1.45	4.50
	229	7095	1.89	1.49	4.70
	233	7115	1.60	1.40	4.51
802.11ax HE40	195	6925	4.21	3.96	7.10
	203	6965	4.22	4.05	7.15
	211	7005	4.24	3.96	7.11
	219	7045	4.26	3.97	7.13
	227	7085	4.33	3.93	7.14
802.11ax HE80	199	6945	5.88	5.71	8.81
	215	7025	5.83	5.60	8.73
802.11ax HE160	207	6985	5.98	5.80	8.90

Conducted Power (Full)			
UNII-5 Ant 0_SP			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	1	5955	5.60
	5	5975	5.78
	9	5995	5.54
	13	6015	5.86
	17	6035	5.77
	21	6055	5.80
	25	6075	5.84
	29	6095	5.85
	33	6115	5.56
	37	6135	5.84
	41	6155	5.62
	45	6175	5.80
	49	6195	5.86
	53	6215	5.76
	57	6235	5.90
	61	6255	5.72
	65	6275	5.60
	69	6295	5.53
	73	6315	5.84
	77	6335	5.90
81	6355	5.79	
85	6375	5.60	
89	6395	5.81	
93	6415	5.50	
802.11ax HE20	1	5955	5.88
	5	5975	5.81
	9	5995	5.83
	13	6015	5.78
	17	6035	5.81
	21	6055	5.60
	25	6075	5.84
	29	6095	5.68
	33	6115	5.83
	37	6135	5.86
	41	6155	5.85
	45	6175	5.89
	49	6195	5.77
	53	6215	5.70
	57	6235	5.56
	61	6255	5.77
	65	6275	5.84
	69	6295	5.85
	73	6315	5.61
	77	6335	5.77
81	6355	5.59	
85	6375	5.90	
89	6395	5.79	
93	6415	5.81	
802.11ax HE40	3	5965	5.85
	11	6005	5.90
	19	6045	5.56
	27	6085	5.80
	35	6125	5.64
	43	6165	5.83
	51	6205	5.87
	59	6245	5.75
	67	6285	5.86
	75	6325	5.71
83	6365	5.68	
91	6405	5.58	
802.11ax HE80	7	5985	5.81
	23	6065	5.88
	39	6145	5.82
	55	6225	5.58
	71	6305	5.83
87	6385	5.66	
802.11ax HE160	15	6025	5.96
	47	6185	5.59
	79	6345	5.75

Conducted Power (Full)			
UNII-5 Ant 1_SP			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	1	5955	5.62
	5	5975	5.78
	9	5995	5.59
	13	6015	5.80
	17	6035	5.85
	21	6055	5.87
	25	6075	5.77
	29	6095	5.87
	33	6115	5.52
	37	6135	5.85
	41	6155	5.66
	45	6175	5.77
	49	6195	5.80
	53	6215	5.85
	57	6235	5.90
	61	6255	5.75
	65	6275	5.67
	69	6295	5.56
	73	6315	5.83
	77	6335	5.83
81	6355	5.78	
85	6375	5.68	
89	6395	5.82	
93	6415	5.50	
802.11ax HE20	1	5955	5.85
	5	5975	5.76
	9	5995	5.87
	13	6015	5.78
	17	6035	5.89
	21	6055	5.51
	25	6075	5.83
	29	6095	5.66
	33	6115	5.82
	37	6135	5.87
	41	6155	5.78
	45	6175	5.87
	49	6195	5.80
	53	6215	5.67
	57	6235	5.53
	61	6255	5.77
	65	6275	5.84
	69	6295	5.75
	73	6315	5.66
	77	6335	5.83
81	6355	5.57	
85	6375	5.89	
89	6395	5.78	
93	6415	5.89	
802.11ax HE40	3	5965	5.77
	11	6005	5.82
	19	6045	5.57
	27	6085	5.86
	35	6125	5.65
	43	6165	5.75
	51	6205	5.90
	59	6245	5.76
	67	6285	5.90
	75	6325	5.71
83	6365	5.61	
91	6405	5.60	
802.11ax HE80	7	5985	5.79
	23	6065	5.81
	39	6145	5.75
	55	6225	5.82
	71	6305	5.86
87	6385	5.83	
802.11ax HE160	15	6025	5.93
	47	6185	5.66
	79	6345	5.57



Conducted Power (Full)					
UNII-5 Ant 0+1_SP					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11a	1	5955	5.72	5.58	8.66
	5	5975	5.83	5.38	8.62
	9	5995	5.75	5.47	8.62
	13	6015	5.85	5.47	8.67
	17	6035	5.79	5.64	8.73
	21	6055	5.78	5.39	8.60
	25	6075	5.52	5.45	8.50
	29	6095	5.65	5.43	8.55
	33	6115	5.56	5.57	8.58
	37	6135	5.58	5.51	8.56
	41	6155	5.67	5.48	8.59
	45	6175	5.85	5.37	8.63
	49	6195	5.80	5.54	8.68
	53	6215	5.76	5.55	8.67
	57	6235	5.79	5.33	8.58
	61	6255	5.80	5.38	8.61
	65	6275	5.62	5.52	8.58
	69	6295	5.81	5.49	8.66
	73	6315	5.78	5.44	8.62
	77	6335	5.60	5.39	8.51
81	6355	5.59	5.53	8.57	
85	6375	5.72	5.64	8.69	
89	6395	5.85	5.45	8.66	
93	6415	5.74	5.53	8.65	
802.11ax HE20	1	5955	5.80	5.47	8.65
	5	5975	5.77	5.46	8.63
	9	5995	5.72	5.27	8.51
	13	6015	5.59	5.51	8.56
	17	6035	5.69	5.45	8.58
	21	6055	5.51	5.53	8.53
	25	6075	5.53	5.44	8.50
	29	6095	5.64	5.43	8.55
	33	6115	5.85	5.36	8.62
	37	6135	5.82	5.48	8.66
	41	6155	5.78	5.53	8.67
	45	6175	5.74	5.42	8.59
	49	6195	5.79	5.48	8.65
	53	6215	5.64	5.47	8.57
	57	6235	5.82	5.46	8.65
	61	6255	5.74	5.28	8.53
	65	6275	5.59	5.46	8.54
	69	6295	5.58	5.59	8.60
	73	6315	5.75	5.64	8.71
	77	6335	5.76	5.40	8.59
81	6355	5.77	5.51	8.65	
85	6375	5.84	5.45	8.66	
89	6395	5.76	5.58	8.68	
93	6415	5.74	5.34	8.55	
802.11ax HE40	3	5965	5.60	5.36	8.49
	11	6005	5.61	5.36	8.50
	19	6045	5.51	5.47	8.50
	27	6085	5.56	5.49	8.54
	35	6125	5.61	5.44	8.54
	43	6165	5.78	5.45	8.63
	51	6205	5.83	5.48	8.67
	59	6245	5.78	5.52	8.66
	67	6285	5.75	5.45	8.61
	75	6325	5.71	5.43	8.58
83	6365	5.70	5.42	8.57	
91	6405	5.79	5.40	8.61	
802.11ax HE80	7	5985	5.76	5.41	8.60
	23	6065	5.59	5.58	8.60
	39	6145	5.51	5.55	8.54
	55	6225	5.79	5.48	8.65
	71	6305	5.57	5.33	8.46
87	6385	5.55	5.53	8.55	
802.11ax HE160	15	6025	5.96	5.40	8.70
	47	6185	5.53	5.21	8.38
	79	6345	5.16	5.63	8.41

Conducted Power (Full)			
UNII-7 Ant 0_SP			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	117	6535	5.64
	121	6555	5.78
	125	6575	5.50
	129	6595	5.80
	133	6615	5.85
	137	6635	5.80
	141	6655	5.78
	145	6675	5.61
	149	6695	5.59
	153	6715	5.56
	157	6735	5.62
	161	6755	5.83
	165	6775	5.84
	169	6795	5.78
	173	6815	5.81
177	6835	5.73	
181	6855	5.63	
802.11ax HE20	117	6535	5.79
	121	6555	5.84
	125	6575	5.51
	129	6595	5.67
	133	6615	5.74
	137	6635	5.56
	141	6655	5.83
	145	6675	5.82
	149	6695	5.86
	153	6715	5.78
	157	6735	5.67
	161	6755	5.57
	165	6775	5.53
	169	6795	5.67
	173	6815	5.84
177	6835	5.83	
181	6855	5.80	
802.11ax HE40	123	6565	5.80
	131	6605	5.65
	139	6645	5.76
	147	6685	5.82
	155	6725	5.85
	163	6765	5.52
	171	6805	5.70
179	6845	5.79	
802.11ax HE80	135	6625	5.85
	151	6705	5.80
	167	6785	5.81
802.11ax HE160	143	6665	5.80

Conducted Power (Full)			
UNII-7 Ant 1_SP			
Mode	Channel	Frequency	SISO Ant 1 Avg. Power
802.11a	117	6535	5.79
	121	6555	5.77
	125	6575	5.73
	129	6595	5.81
	133	6615	5.85
	137	6635	5.70
	141	6655	5.50
	145	6675	5.66
	149	6695	5.56
	153	6715	5.60
	157	6735	5.63
	161	6755	5.75
	165	6775	5.89
	169	6795	5.75
	173	6815	5.79
177	6835	5.78	
181	6855	5.70	
802.11ax HE20	117	6535	5.78
	121	6555	5.55
	125	6575	5.54
	129	6595	5.73
	133	6615	5.78
	137	6635	5.70
	141	6655	5.77
	145	6675	5.84
	149	6695	5.73
	153	6715	5.50
	157	6735	5.65
	161	6755	5.51
	165	6775	5.58
	169	6795	5.66
	173	6815	5.77
177	6835	5.80	
181	6855	5.81	
802.11ax HE40	123	6565	5.75
	131	6605	5.67
	139	6645	5.77
	147	6685	5.80
	155	6725	5.50
	163	6765	5.57
	171	6805	5.71
179	6845	5.83	
802.11ax HE80	135	6625	5.85
	151	6705	5.81
	167	6785	5.72
802.11ax HE160	143	6665	5.54

Conducted Power (Full)					
UNII-7 Ant 0+1_SP					
Mode	Channel	Frequency	MIMO Ant 0 Avg. Power	MIMO Ant 1 Avg. Power	MIMO Ant 0+1 Avg. Power
802.11a	117	6535	5.63	5.78	8.72
	121	6555	5.45	5.85	8.66
	125	6575	5.44	5.77	8.62
	129	6595	5.47	5.82	8.66
	133	6615	5.65	5.78	8.73
	137	6635	5.42	5.75	8.60
	141	6655	5.37	5.51	8.45
	145	6675	5.41	5.69	8.56
	149	6695	5.37	5.50	8.45
	153	6715	5.42	5.52	8.48
	157	6735	5.30	5.64	8.48
	161	6755	5.30	5.85	8.59
	165	6775	5.46	5.83	8.66
	169	6795	5.53	5.79	8.67
	173	6815	5.39	5.73	8.57
177	6835	5.41	5.73	8.58	
181	6855	5.53	5.68	8.62	
802.11ax HE20	117	6535	5.41	5.74	8.59
	121	6555	5.40	5.54	8.48
	125	6575	5.55	5.60	8.59
	129	6595	5.59	5.78	8.70
	133	6615	5.40	5.79	8.61
	137	6635	5.40	5.76	8.59
	141	6655	5.48	5.81	8.66
	145	6675	5.50	5.75	8.64
	149	6695	5.43	5.74	8.60
	153	6715	5.40	5.55	8.49
	157	6735	5.48	5.65	8.58
	161	6755	5.43	5.58	8.52
	165	6775	5.44	5.56	8.51
	169	6795	5.34	5.63	8.50
	173	6815	5.45	5.85	8.66
177	6835	5.59	5.87	8.74	
181	6855	5.56	5.75	8.67	
802.11ax HE40	123	6565	5.56	5.70	8.64
	131	6605	5.50	5.63	8.58
	139	6645	5.45	5.84	8.66
	147	6685	5.32	5.77	8.56
	155	6725	5.52	5.57	8.56
	163	6765	5.60	5.52	8.57
	171	6805	5.63	5.78	8.72
179	6845	5.39	5.75	8.58	
802.11ax HE80	135	6625	5.47	5.78	8.64
	151	6705	5.51	5.79	8.66
	167	6785	5.31	5.76	8.55
802.11ax HE160	143	6665	5.36	5.53	8.46

## Appendix F. SAR and Incident Power Density Test Result

SAR Results for Body / Extremity Exposure Condition.

Note:

1. SAR testing for WLAN / BT was performed on the maximum power mode.
2. The "< 0.001" means there is no SAR value or the SAR is too low to be measured.
3. Per KDB 388624 APPENDIX OVER6G, the minimum of 5 channels to perform IPD across U-NII 5,6,7 and 8. and measured results were scaled by factor 1.545 to reported power density when measurement uncertainty exceed 30%.

## Body SAR Test Result

Body SAR Test Result														
System & Position					DUT Configuration			SAR						
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN2.4G	802.11b	Rear Face	0	1	Ant 0	100.00	1.00	13.50	13.49	1.00	-0.06	0.015	0.02
	WLAN2.4G	802.11b	Rear Curve	0	1	Ant 0	100.00	1.00	13.50	13.49	1.00	-0.16	0.029	0.03
	WLAN2.4G	802.11b	Bottom Side	0	1	Ant 0	100.00	1.00	13.50	13.49	1.00	0.11	0.744	0.74
	WLAN2.4G	802.11b	Rear Face	0	1	Ant 1	100.00	1.00	13.50	13.39	1.03	0.12	0.023	0.02
	WLAN2.4G	802.11b	Rear Curve	0	1	Ant 1	100.00	1.00	13.50	13.39	1.03	0.19	0.037	0.04
	WLAN2.4G	802.11b	Bottom Side	0	1	Ant 1	100.00	1.00	13.50	13.39	1.03	-0.01	0.655	0.67
	WLAN2.4G	802.11b	Rear Face	0	6	Ant 0+1	100.00	1.00	16.50	16.46	1.01	0.02	0.029	0.03
	WLAN2.4G	802.11b	Rear Curve	0	6	Ant 0+1	100.00	1.00	16.50	16.46	1.01	0.13	0.067	0.07
	WLAN2.4G	802.11b	Bottom Side	0	6	Ant 0+1	100.00	1.00	16.50	16.46	1.01	0.1	0.886	0.89
	WLAN2.4G	802.11b	Bottom Side	0	1	Ant 0+1	100.00	1.00	16.50	16.37	1.03	0.03	0.898	0.92
1	WLAN2.4G	802.11b	Bottom Side	0	11	Ant 0+1	100.00	1.00	16.50	16.02	1.12	0	0.991	1.11
	WLAN2.4G	802.11b	Bottom Side	0	12	Ant 0+1	100.00	1.00	16.50	16.24	1.06	0.03	0.946	1.00
	WLAN2.4G	802.11b	Bottom Side	0	13	Ant 0+1	100.00	1.00	16.50	16.35	1.04	0.03	0.973	1.01
	WLAN2.4G	802.11b	Bottom Side	0	11	Ant 0+1	100.00	1.00	16.50	16.02	1.12	0	0.99	1.11
	WLAN5.3G	802.11ac VHT160	Rear Face	0	50	Ant 0	100.00	1.00	9.00	8.88	1.03	-0.13	0.014	0.01
	WLAN5.3G	802.11ac VHT160	Rear Curve	0	50	Ant 0	100.00	1.00	9.00	8.88	1.03	0.05	0.048	0.05
	WLAN5.3G	802.11ac VHT160	Bottom Side	0	50	Ant 0	100.00	1.00	9.00	8.88	1.03	-0.15	0.94	0.97
	WLAN5.3G	802.11ac VHT160	Rear Face	0	50	Ant 1	100.00	1.00	9.00	8.79	1.05	-0.01	0.02	0.02
	WLAN5.3G	802.11ac VHT160	Rear Curve	0	50	Ant 1	100.00	1.00	9.00	8.79	1.05	-0.08	0.071	0.07
	WLAN5.3G	802.11ac VHT160	Bottom Side	0	50	Ant 1	100.00	1.00	9.00	8.79	1.05	-0.18	0.917	0.96
	WLAN5.3G	802.11ac VHT160	Rear Face	0	50	Ant 0+1	100.00	1.00	12.00	11.77	1.05	0.16	0.031	0.03
	WLAN5.3G	802.11ac VHT160	Rear Curve	0	50	Ant 0+1	100.00	1.00	12.00	11.77	1.05	0.19	0.078	0.08
2	WLAN5.3G	802.11ac VHT160	Bottom Side	0	50	Ant 0+1	100.00	1.00	12.00	11.77	1.05	-0.11	1.09	1.14
	WLAN5.3G	802.11ac VHT160	Bottom Side	0	50	Ant 0+1	100.00	1.00	12.00	11.77	1.05	-0.11	1.06	1.11

### Body SAR Test Result

Body SAR Test Result														
System & Position					DUT Configuration			SAR						
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN5.6G	802.11ac VHT160	Rear Face	0	114	Ant 0	100.00	1.00	9.00	8.92	1.02	-0.14	0.022	0.02
	WLAN5.6G	802.11ac VHT160	Rear Curve	0	114	Ant 0	100.00	1.00	9.00	8.92	1.02	0.13	0.113	0.12
	WLAN5.6G	802.11ac VHT160	Bottom Side	0	114	Ant 0	100.00	1.00	9.00	8.92	1.02	-0.01	1.05	1.07
	WLAN5.6G	802.11ac VHT160	Rear Face	0	114	Ant 1	100.00	1.00	9.00	8.70	1.07	-0.18	0.029	0.03
	WLAN5.6G	802.11ac VHT160	Rear Curve	0	114	Ant 1	100.00	1.00	9.00	8.70	1.07	-0.18	0.1	0.11
	WLAN5.6G	802.11ac VHT160	Bottom Side	0	114	Ant 1	100.00	1.00	9.00	8.70	1.07	0.1	0.963	1.03
	WLAN5.6G	802.11ac VHT160	Rear Face	0	114	Ant 0+1	100.00	1.00	12.00	11.75	1.06	-0.03	0.033	0.03
	WLAN5.6G	802.11ac VHT160	Rear Curve	0	114	Ant 0+1	100.00	1.00	12.00	11.75	1.06	-0.13	0.122	0.13
3	WLAN5.6G	802.11ac VHT160	Bottom Side	0	114	Ant 0+1	100.00	1.00	12.00	11.75	1.06	-0.11	1.06	1.12
	WLAN5.6G	802.11ac VHT160	Bottom Side	0	114	Ant 0+1	100.00	1.00	12.00	11.75	1.06	-0.11	1.05	1.11
	WLAN5.8G	802.11ac VHT80	Rear Face	0	155	Ant 0	100.00	1.00	8.00	7.61	1.09	0.19	0.02	0.02
	WLAN5.8G	802.11ac VHT80	Rear Curve	0	155	Ant 0	100.00	1.00	8.00	7.61	1.09	-0.09	0.073	0.08
	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	Ant 0	100.00	1.00	8.00	7.61	1.09	-0.12	0.641	0.70
	WLAN5.8G	802.11ac VHT80	Rear Face	0	155	Ant 1	100.00	1.00	8.00	7.85	1.04	0.18	0.021	0.02
	WLAN5.8G	802.11ac VHT80	Rear Curve	0	155	Ant 1	100.00	1.00	8.00	7.85	1.04	-0.19	0.073	0.08
	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	Ant 1	100.00	1.00	8.00	7.85	1.04	0.05	0.774	0.80
	WLAN5.8G	802.11ac VHT80	Rear Face	0	155	Ant 0+1	100.00	1.00	11.00	10.82	1.04	-0.19	0.023	0.02
	WLAN5.8G	802.11ac VHT80	Rear Curve	0	155	Ant 0+1	100.00	1.00	11.00	10.82	1.04	-0.01	0.08	0.08
4	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	Ant 0+1	100.00	1.00	11.00	10.82	1.04	-0.15	1.09	1.13
	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	Ant 0+1	100.00	1.00	11.00	10.82	1.04	-0.15	1.07	1.11

### Body SAR Test Result

Body SAR Test Result														
System & Position					DUT Configuration			SAR						
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN5.9G	802.11ac VHT160	Rear Face	0	163	Ant 0	100.00	1.00	8.00	7.97	1.01	0.12	0.012	0.01
	WLAN5.9G	802.11ac VHT160	Rear Curve	0	163	Ant 0	100.00	1.00	8.00	7.97	1.01	-0.01	0.076	0.08
	WLAN5.9G	802.11ac VHT160	Bottom Side	0	163	Ant 0	100.00	1.00	8.00	7.97	1.01	-0.16	0.605	0.61
	WLAN5.9G	802.11ac VHT160	Rear Face	0	163	Ant 1	100.00	1.00	8.00	7.92	1.02	0	0.016	0.02
	WLAN5.9G	802.11ac VHT160	Rear Curve	0	163	Ant 1	100.00	1.00	8.00	7.92	1.02	-0.13	0.065	0.07
	WLAN5.9G	802.11ac VHT160	Bottom Side	0	163	Ant 1	100.00	1.00	8.00	7.92	1.02	-0.15	0.559	0.57
	WLAN5.9G	802.11ac VHT160	Rear Face	0	163	Ant 0+1	100.00	1.00	11.00	10.92	1.02	0.05	0.018	0.02
	WLAN5.9G	802.11ac VHT160	Rear Curve	0	163	Ant 0+1	100.00	1.00	11.00	10.92	1.02	0.15	0.077	0.08
5	WLAN5.9G	802.11ac VHT160	Bottom Side	0	163	Ant 0+1	100.00	1.00	11.00	10.92	1.02	0.11	1.05	1.07
	WLAN5.9G	802.11ac VHT160	Bottom Side	0	163	Ant 0+1	100.00	1.00	11.00	10.92	1.02	0.11	1.03	1.05
	BT	BDR	Rear Face	0	0	Ant 1	77.13	1.30	11.50	11.42	1.02	0	<0.001	0.00
	BT	BDR	Rear Curve	0	0	Ant 1	77.13	1.30	11.50	11.42	1.02	0	<0.001	0.00
	BT	BDR	Bottom Side	0	0	Ant 1	77.13	1.30	11.50	11.42	1.02	0.02	0.228	0.30
	BT	BDR	Bottom Side	0	39	Ant 1	77.13	1.30	11.50	10.84	1.16	0.01	0.253	0.38
6	BT	BDR	Bottom Side	0	78	Ant 1	77.13	1.30	11.50	11.40	1.02	-0.02	0.291	0.39





### Extremity SAR Test Result

System & Position						DUT Configuration	SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	WLAN2.4G	802.11b	Front Face	0	1	Ant 0	100.00	1.00	13.50	13.49	1.00	0.13	0.088	0.09
	WLAN2.4G	802.11b	Rear Face	0	1	Ant 0	100.00	1.00	13.50	13.49	1.00	-0.06	0.00716	0.01
	WLAN2.4G	802.11b	Left Side	0	1	Ant 0	100.00	1.00	13.50	13.49	1.00	0	<0.001	0.00
	WLAN2.4G	802.11b	Right Side	0	1	Ant 0	100.00	1.00	13.50	13.49	1.00	0	<0.001	0.00
	WLAN2.4G	802.11b	Top Side	0	1	Ant 0	100.00	1.00	13.50	13.49	1.00	0	<0.001	0.00
	WLAN2.4G	802.11b	Bottom Side	0	1	Ant 0	100.00	1.00	13.50	13.49	1.00	0.11	0.28	0.28
	WLAN2.4G	802.11b	Front Face	0	1	Ant 1	100.00	1.00	13.50	13.39	1.03	0.1	0.132	0.14
	WLAN2.4G	802.11b	Rear Face	0	1	Ant 1	100.00	1.00	13.50	13.39	1.03	0.12	0.013	0.01
	WLAN2.4G	802.11b	Left Side	0	1	Ant 1	100.00	1.00	13.50	13.39	1.03	0	<0.001	0.00
	WLAN2.4G	802.11b	Right Side	0	1	Ant 1	100.00	1.00	13.50	13.39	1.03	0	<0.001	0.00
	WLAN2.4G	802.11b	Top Side	0	1	Ant 1	100.00	1.00	13.50	13.39	1.03	0	<0.001	0.00
	WLAN2.4G	802.11b	Bottom Side	0	1	Ant 1	100.00	1.00	13.50	13.39	1.03	-0.01	0.242	0.25
	WLAN2.4G	802.11b	Front Face	0	6	Ant 0+1	100.00	1.00	16.50	16.46	1.01	-0.09	0.121	0.12
	WLAN2.4G	802.11b	Rear Face	0	6	Ant 0+1	100.00	1.00	16.50	16.46	1.01	0.02	0.017	0.02
	WLAN2.4G	802.11b	Left Side	0	6	Ant 0+1	100.00	1.00	16.50	16.46	1.01	0	<0.001	0.00
	WLAN2.4G	802.11b	Right Side	0	6	Ant 0+1	100.00	1.00	16.50	16.46	1.01	0	<0.001	0.00
	WLAN2.4G	802.11b	Top Side	0	6	Ant 0+1	100.00	1.00	16.50	16.46	1.01	0	<0.001	0.00
	WLAN2.4G	802.11b	Bottom Side	0	6	Ant 0+1	100.00	1.00	16.50	16.46	1.01	0.1	0.328	0.33
	WLAN2.4G	802.11b	Bottom Side	0	1	Ant 0+1	100.00	1.00	16.50	16.37	1.03	0.03	0.336	0.35
7	WLAN2.4G	802.11b	Bottom Side	0	11	Ant 0+1	100.00	1.00	16.50	16.02	1.12	0	0.372	0.42
	WLAN2.4G	802.11b	Bottom Side	0	12	Ant 0+1	100.00	1.00	16.50	16.24	1.06	0.03	0.355	0.38
	WLAN2.4G	802.11b	Bottom Side	0	13	Ant 0+1	100.00	1.00	16.50	16.35	1.04	0.03	0.365	0.38



### Extremity SAR Test Result

System & Position						DUT Configuration	SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	WLAN5.3G	802.11ac VHT160	Front Face	0	50	Ant 0	100.00	1.00	9.00	8.88	1.03	0.04	0.025	0.03
	WLAN5.3G	802.11ac VHT160	Rear Face	0	50	Ant 0	100.00	1.00	9.00	8.88	1.03	-0.13	0.00475	0.00
	WLAN5.3G	802.11ac VHT160	Left Side	0	50	Ant 0	100.00	1.00	9.00	8.88	1.03	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Right Side	0	50	Ant 0	100.00	1.00	9.00	8.88	1.03	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Top Side	0	50	Ant 0	100.00	1.00	9.00	8.88	1.03	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Bottom Side	0	50	Ant 0	100.00	1.00	9.00	8.88	1.03	-0.15	0.183	0.19
	WLAN5.3G	802.11ac VHT160	Front Face	0	50	Ant 1	100.00	1.00	9.00	8.79	1.05	0.16	0.061	0.06
	WLAN5.3G	802.11ac VHT160	Rear Face	0	50	Ant 1	100.00	1.00	9.00	8.79	1.05	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Left Side	0	50	Ant 1	100.00	1.00	9.00	8.79	1.05	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Right Side	0	50	Ant 1	100.00	1.00	9.00	8.79	1.05	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Top Side	0	50	Ant 1	100.00	1.00	9.00	8.79	1.05	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Bottom Side	0	50	Ant 1	100.00	1.00	9.00	8.79	1.05	-0.18	0.19	0.20
	WLAN5.3G	802.11ac VHT160	Front Face	0	50	Ant 0+1	100.00	1.00	12.00	11.77	1.05	-0.15	0.058	0.06
	WLAN5.3G	802.11ac VHT160	Rear Face	0	50	Ant 0+1	100.00	1.00	12.00	11.77	1.05	0.16	0.01	0.01
	WLAN5.3G	802.11ac VHT160	Left Side	0	50	Ant 0+1	100.00	1.00	12.00	11.77	1.05	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Right Side	0	50	Ant 0+1	100.00	1.00	12.00	11.77	1.05	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT160	Top Side	0	50	Ant 0+1	100.00	1.00	12.00	11.77	1.05	0	<0.001	0.00
8	WLAN5.3G	802.11ac VHT160	Bottom Side	0	50	Ant 0+1	100.00	1.00	12.00	11.77	1.05	-0.11	0.234	0.25

### Extremity SAR Test Result

System & Position						DUT Configuration	SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	WLAN5.6G	802.11ac VHT160	Front Face	0	114	Ant 0	100.00	1.00	9.00	8.92	1.02	0.12	0.033	0.03
	WLAN5.6G	802.11ac VHT160	Rear Face	0	114	Ant 0	100.00	1.00	9.00	8.92	1.02	-0.14	0.0067	0.01
	WLAN5.6G	802.11ac VHT160	Left Side	0	114	Ant 0	100.00	1.00	9.00	8.92	1.02	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Right Side	0	114	Ant 0	100.00	1.00	9.00	8.92	1.02	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Top Side	0	114	Ant 0	100.00	1.00	9.00	8.92	1.02	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Bottom Side	0	114	Ant 0	100.00	1.00	9.00	8.92	1.02	-0.01	0.185	0.19
	WLAN5.6G	802.11ac VHT160	Front Face	0	114	Ant 1	100.00	1.00	9.00	8.70	1.07	-0.1	0.042	0.04
	WLAN5.6G	802.11ac VHT160	Rear Face	0	114	Ant 1	100.00	1.00	9.00	8.70	1.07	-0.18	0.00852	0.01
	WLAN5.6G	802.11ac VHT160	Left Side	0	114	Ant 1	100.00	1.00	9.00	8.70	1.07	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Right Side	0	114	Ant 1	100.00	1.00	9.00	8.70	1.07	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Top Side	0	114	Ant 1	100.00	1.00	9.00	8.70	1.07	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Bottom Side	0	114	Ant 1	100.00	1.00	9.00	8.70	1.07	0.1	0.189	0.20
	WLAN5.6G	802.11ac VHT160	Front Face	0	114	Ant 0+1	100.00	1.00	12.00	11.75	1.06	-0.12	0.045	0.05
	WLAN5.6G	802.11ac VHT160	Rear Face	0	114	Ant 0+1	100.00	1.00	12.00	11.75	1.06	-0.03	0.00992	0.01
	WLAN5.6G	802.11ac VHT160	Left Side	0	114	Ant 0+1	100.00	1.00	12.00	11.75	1.06	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Right Side	0	114	Ant 0+1	100.00	1.00	12.00	11.75	1.06	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT160	Top Side	0	114	Ant 0+1	100.00	1.00	12.00	11.75	1.06	0	<0.001	0.00
9	WLAN5.6G	802.11ac VHT160	Bottom Side	0	114	Ant 0+1	100.00	1.00	12.00	11.75	1.06	-0.11	0.21	0.22



### Extremity SAR Test Result

System & Position						DUT Configuration	SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	WLAN5.8G	802.11ac VHT80	Front Face	0	155	Ant 0	100.00	1.00	8.00	7.61	1.09	0.13	0.027	0.03
	WLAN5.8G	802.11ac VHT80	Rear Face	0	155	Ant 0	100.00	1.00	8.00	7.61	1.09	0.19	0.00714	0.01
	WLAN5.8G	802.11ac VHT80	Left Side	0	155	Ant 0	100.00	1.00	8.00	7.61	1.09	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Right Side	0	155	Ant 0	100.00	1.00	8.00	7.61	1.09	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Top Side	0	155	Ant 0	100.00	1.00	8.00	7.61	1.09	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	Ant 0	100.00	1.00	8.00	7.61	1.09	-0.12	0.153	0.17
	WLAN5.8G	802.11ac VHT80	Front Face	0	155	Ant 1	100.00	1.00	8.00	7.85	1.04	-0.06	0.034	0.04
	WLAN5.8G	802.11ac VHT80	Rear Face	0	155	Ant 1	100.00	1.00	8.00	7.85	1.04	0.18	0.00669	0.01
	WLAN5.8G	802.11ac VHT80	Left Side	0	155	Ant 1	100.00	1.00	8.00	7.85	1.04	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Right Side	0	155	Ant 1	100.00	1.00	8.00	7.85	1.04	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Top Side	0	155	Ant 1	100.00	1.00	8.00	7.85	1.04	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	Ant 1	100.00	1.00	8.00	7.85	1.04	0.05	0.156	0.16
	WLAN5.8G	802.11ac VHT80	Front Face	0	155	Ant 0+1	100.00	1.00	11.00	10.82	1.04	0.09	0.033	0.03
	WLAN5.8G	802.11ac VHT80	Rear Face	0	155	Ant 0+1	100.00	1.00	11.00	10.82	1.04	-0.19	0.00754	0.01
	WLAN5.8G	802.11ac VHT80	Left Side	0	155	Ant 0+1	100.00	1.00	11.00	10.82	1.04	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Right Side	0	155	Ant 0+1	100.00	1.00	11.00	10.82	1.04	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Top Side	0	155	Ant 0+1	100.00	1.00	11.00	10.82	1.04	0	<0.001	0.00
10	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	Ant 0+1	100.00	1.00	11.00	10.82	1.04	-0.15	0.205	0.21



### Extremity SAR Test Result

System & Position						DUT Configuration	SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	WLAN5.9G	802.11ac VHT160	Front Face	0	163	Ant 0	100.00	1.00	8.00	7.97	1.01	-0.18	0.028	0.03
	WLAN5.9G	802.11ac VHT160	Rear Face	0	163	Ant 0	100.00	1.00	8.00	7.97	1.01	0.12	0.0052	0.01
	WLAN5.9G	802.11ac VHT160	Left Side	0	163	Ant 0	100.00	1.00	8.00	7.97	1.01	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Right Side	0	163	Ant 0	100.00	1.00	8.00	7.97	1.01	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Top Side	0	163	Ant 0	100.00	1.00	8.00	7.97	1.01	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Bottom Side	0	163	Ant 0	100.00	1.00	8.00	7.97	1.01	-0.16	0.138	0.14
	WLAN5.9G	802.11ac VHT160	Front Face	0	163	Ant 1	100.00	1.00	8.00	7.92	1.02	0.04	0.029	0.03
	WLAN5.9G	802.11ac VHT160	Rear Face	0	163	Ant 1	100.00	1.00	8.00	7.92	1.02	0	0.00588	0.01
	WLAN5.9G	802.11ac VHT160	Left Side	0	163	Ant 1	100.00	1.00	8.00	7.92	1.02	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Right Side	0	163	Ant 1	100.00	1.00	8.00	7.92	1.02	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Top Side	0	163	Ant 1	100.00	1.00	8.00	7.92	1.02	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Bottom Side	0	163	Ant 1	100.00	1.00	8.00	7.92	1.02	-0.15	0.131	0.13
	WLAN5.9G	802.11ac VHT160	Front Face	0	163	Ant 0+1	100.00	1.00	11.00	10.92	1.02	-0.07	0.03	0.03
	WLAN5.9G	802.11ac VHT160	Rear Face	0	163	Ant 0+1	100.00	1.00	11.00	10.92	1.02	0.05	0.00728	0.01
	WLAN5.9G	802.11ac VHT160	Left Side	0	163	Ant 0+1	100.00	1.00	11.00	10.92	1.02	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Right Side	0	163	Ant 0+1	100.00	1.00	11.00	10.92	1.02	0	<0.001	0.00
	WLAN5.9G	802.11ac VHT160	Top Side	0	163	Ant 0+1	100.00	1.00	11.00	10.92	1.02	0	<0.001	0.00
11	WLAN5.9G	802.11ac VHT160	Bottom Side	0	163	Ant 0+1	100.00	1.00	11.00	10.92	1.02	0.11	0.205	0.21
	BT	BDR	Front Face	0	0	Ant 1	77.13	1.30	11.50	11.42	1.02	0	0.054	0.07
	BT	BDR	Rear Face	0	0	Ant 1	77.13	1.30	11.50	11.42	1.02	0	<0.001	0.00
	BT	BDR	Left Side	0	0	Ant 1	77.13	1.30	11.50	11.42	1.02	0	<0.001	0.00
	BT	BDR	Right Side	0	0	Ant 1	77.13	1.30	11.50	11.42	1.02	0	<0.001	0.00
	BT	BDR	Top Side	0	0	Ant 1	77.13	1.30	11.50	11.42	1.02	0	<0.001	0.00
	BT	BDR	Bottom Side	0	0	Ant 1	77.13	1.30	11.50	11.42	1.02	0.02	0.099	0.13
	BT	BDR	Bottom Side	0	39	Ant 1	77.13	1.30	11.50	10.84	1.16	0.01	0.11	0.17
12	BT	BDR	Bottom Side	0	78	Ant 1	77.13	1.30	11.50	11.40	1.02	-0.02	0.13	0.17



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SAR and Power Density Test Result

System & Position						DUT Configuration		SAR										Power Density								
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Power Mode	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)	Measured APD W/m <sup>2</sup> (4cm <sup>2</sup> )	Scaled APD W/m <sup>2</sup> (4cm <sup>2</sup> )	Grid Step [λ]	iPD [W/m <sup>2</sup> ]	Scaling Factor for Measurement Uncertainty	Averaging Area [cm <sup>2</sup> ]	Power Drift [dB]	Normal psPD [W/m <sup>2</sup> ]	Scaled Normal psPD [W/m <sup>2</sup> ]	Total psPD [W/m <sup>2</sup> ]	Scaled Total psPD [W/m <sup>2</sup> ]
	UNII-5	802.11ax HE160	Rear Face	0	15	SP	Ant 0	93.70	1.07	6.00	5.96	1.01	-0.07	0.084	0.09	0.481	0.52									
	UNII-5	802.11ax HE160	Rear Curve	0	15	SP	Ant 0	93.70	1.07	6.00	5.96	1.01	-0.01	0.065	0.07	0.306	0.33									
	UNII-5	802.11ax HE160	Bottom Side	0	15	SP	Ant 0	93.70	1.07	6.00	5.96	1.01	0.19	0.587	0.63	2.28	2.46	0.0502	7.43	1.545	4.00	0.16	1.85	3.06	2.44	4.07
	UNII-5	802.11ax HE160	Rear Face	0	15	SP	Ant 1	92.90	1.08	6.00	5.93	1.02	0.05	0.009	0.01	0.065	0.07									
	UNII-5	802.11ax HE160	Rear Curve	0	15	SP	Ant 1	92.90	1.08	6.00	5.93	1.02	-0.04	0.031	0.03	0.215	0.24									
	UNII-5	802.11ax HE160	Bottom Side	0	15	SP	Ant 1	92.90	1.08	6.00	5.93	1.02	-0.05	0.502	0.55	2.03	2.24									
	UNII-5	802.11ax HE160	Rear Face	0	15	SP	Ant 0+1	93.70	1.07	9.00	8.70	1.07	0.16	0.01	0.01	0.073	0.08									
	UNII-5	802.11ax HE160	Rear Curve	0	15	SP	Ant 0+1	93.70	1.07	9.00	8.70	1.07	-0.15	0.025	0.03	0.164	0.19									
	UNII-5	802.11ax HE160	Bottom Side	0	15	SP	Ant 0+1	93.70	1.07	9.00	8.70	1.07	0.13	0.472	0.54	1.78	2.04									
	UNII-8	802.11ax HE160	Rear Face	0	207	LPI	Ant 0	92.80	1.08	6.00	5.98	1.00	0.05	0.0028	0.00	0.018	0.02									
	UNII-8	802.11ax HE160	Rear Curve	0	207	LPI	Ant 0	92.80	1.08	6.00	5.98	1.00	0.18	0.008	0.01	0.05	0.05									
	UNII-8	802.11ax HE160	Bottom Side	0	207	LPI	Ant 0	92.80	1.08	6.00	5.98	1.00	0.16	0.075	0.08	0.345	0.37									
	UNII-5	802.11ax HE160	Rear Face	0	15	LPI	Ant 1	92.90	1.08	6.00	5.93	1.02	0.16	0.003	0.00	0.016	0.02									
	UNII-5	802.11ax HE160	Rear Curve	0	15	LPI	Ant 1	92.90	1.08	6.00	5.93	1.02	0.09	0.008	0.01	0.056	0.06									
	UNII-5	802.11ax HE160	Bottom Side	0	15	LPI	Ant 1	92.90	1.08	6.00	5.93	1.02	0.09	0.097	0.11	0.547	0.6									
	UNII-8	802.11ax HE160	Rear Face	0	207	LPI	Ant 0+1	92.90	1.08	9.00	8.90	1.02	0.02	0.003	0.00	0.018	0.02									
	UNII-8	802.11ax HE160	Rear Curve	0	207	LPI	Ant 0+1	92.90	1.08	9.00	8.90	1.02	-0.11	0.006	0.01	0.036	0.04									
	UNII-8	802.11ax HE160	Bottom Side	0	207	LPI	Ant 0+1	92.90	1.08	9.00	8.90	1.02	0.04	0.108	0.12	0.51	0.56									
	UNII-5	802.11ax HE160	Bottom Side	0	47	SP	Ant 0	93.70	1.07	6.00	5.59	1.10	-0.17	0.61	0.72	2.42	2.85	0.0515	7.72	1.545	4.00	-0.15	1.92	3.17	2.53	4.6
	UNII-5	802.11ax HE160	Bottom Side	0	79	SP	Ant 0	93.70	1.07	6.00	5.75	1.06	-0.18	0.51	0.58	1.9	2.15	0.0529	6.46	1.545	4.00	-0.04	1.61	2.66	2.12	3.71
13	UNII-7	802.11ax HE160	Bottom Side	0	143	SP	Ant 0	94.50	1.06	6.00	5.80	1.05	-0.05	0.799	0.89	3.17	3.53	0.0563	10.50	1.545	4.00	0.01	2.64	4.32	3.64	6.26
	UNII-7	802.11ax HE160	Bottom Side	0	143	SP	Ant 0	94.50	1.06	6.00	5.80	1.05	-0.05	0.799	0.89	3.17	3.53	0.0563	10.50	1.545	4.00	0.01	2.64	4.32	3.64	6.26



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SAR and Power Density Test Result																											
System & Position						DUT Configuration		SAR										Power Density									
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Power Mode	Ant Status	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)	Measured APD W/m <sup>2</sup> (4cm <sup>2</sup> )	Scaled APD W/m <sup>2</sup> (4cm <sup>2</sup> )	Grid Step [λ]	iPD [W/m <sup>2</sup> ]	Scaling Factor for Measurement Uncertainty	Averaging Area [cm <sup>2</sup> ]	Power Drift [dB]	Normal psPD [W/m <sup>2</sup> ]	Scaled Normal psPD [W/m <sup>2</sup> ]	Total psPD [W/m <sup>2</sup> ]	Scaled Total psPD [W/m <sup>2</sup> ]	
	UNII-5	802.11ax HE160	Front Face	0	15	SP	Ant 0	93.70	1.07	6.00	5.96	1.01	-0.1	0.019	0.02	0.479	0.52					4.00					
	UNII-5	802.11ax HE160	Rear Face	0	15	SP	Ant 0	93.70	1.07	6.00	5.96	1.01	-0.07	0.019	0.02	0.481	0.52					4.00					
	UNII-5	802.11ax HE160	Left Side	0	15	SP	Ant 0	93.70	1.07	6.00	5.96	1.01	0	<0.001	0.00	0	0					4.00					
	UNII-5	802.11ax HE160	Right Side	0	15	SP	Ant 0	93.70	1.07	6.00	5.96	1.01	0	<0.001	0.00	0	0					4.00					
	UNII-5	802.11ax HE160	Top Side	0	15	SP	Ant 0	93.70	1.07	6.00	5.96	1.01	0	<0.001	0.00	0	0					4.00					
	UNII-5	802.11ax HE160	Bottom Side	0	15	SP	Ant 0	93.70	1.07	6.00	5.96	1.01	0.19	0.092	0.10	2.28	2.46	0.0502	7.43	1.545		4.00	0.16	1.85	3.06	2.44	4.07
	UNII-5	802.11ax HE160	Front Face	0	15	SP	Ant 1	92.90	1.08	6.00	5.93	1.02	0	0.019	0.02	0.479	0.53					4.00					
	UNII-5	802.11ax HE160	Rear Face	0	15	SP	Ant 1	92.90	1.08	6.00	5.93	1.02	0.05	0.00266	0.00	0.065	0.07					4.00					
	UNII-5	802.11ax HE160	Left Side	0	15	SP	Ant 1	92.90	1.08	6.00	5.93	1.02	0	<0.001	0.00	0	0					4.00					
	UNII-5	802.11ax HE160	Right Side	0	15	SP	Ant 1	92.90	1.08	6.00	5.93	1.02	0	<0.001	0.00	0	0					4.00					
	UNII-5	802.11ax HE160	Top Side	0	15	SP	Ant 1	92.90	1.08	6.00	5.93	1.02	0	<0.001	0.00	0	0					4.00					
	UNII-5	802.11ax HE160	Bottom Side	0	15	SP	Ant 1	92.90	1.08	6.00	5.93	1.02	-0.05	0.08	0.09	2.03	2.24					4.00					
	UNII-5	802.11ax HE160	Front Face	0	15	SP	Ant 0+1	93.70	1.07	9.00	8.70	1.07	0.01	0.015	0.02	0.385	0.44					4.00					
	UNII-5	802.11ax HE160	Rear Face	0	15	SP	Ant 0+1	93.70	1.07	9.00	8.70	1.07	0.16	0.003	0.00	0.073	0.08					4.00					
	UNII-5	802.11ax HE160	Left Side	0	15	SP	Ant 0+1	93.70	1.07	9.00	8.70	1.07	0	<0.001	0.00	0	0					4.00					
	UNII-5	802.11ax HE160	Right Side	0	15	SP	Ant 0+1	93.70	1.07	9.00	8.70	1.07	0	<0.001	0.00	0	0					4.00					
	UNII-5	802.11ax HE160	Top Side	0	15	SP	Ant 0+1	93.70	1.07	9.00	8.70	1.07	0	<0.001	0.00	0	0					4.00					
	UNII-5	802.11ax HE160	Bottom Side	0	15	SP	Ant 0+1	93.70	1.07	9.00	8.70	1.07	0.13	0.072	0.08	1.78	2.04					4.00					
	UNII-8	802.11ax HE160	Front Face	0	207	LPI	Ant 0	92.80	1.08	6.00	5.98	1.00	-0.01	0.00204	0.00	0.05	0.05					4.00					
	UNII-8	802.11ax HE160	Rear Face	0	207	LPI	Ant 0	92.80	1.08	6.00	5.98	1.00	0.05	0.000751	0.00	0.018	0.02					4.00					
	UNII-8	802.11ax HE160	Left Side	0	207	LPI	Ant 0	92.80	1.08	6.00	5.98	1.00	0	<0.001	0.00	0	0					4.00					
	UNII-8	802.11ax HE160	Right Side	0	207	LPI	Ant 0	92.80	1.08	6.00	5.98	1.00	0	<0.001	0.00	0	0					4.00					
	UNII-8	802.11ax HE160	Top Side	0	207	LPI	Ant 0	92.80	1.08	6.00	5.98	1.00	0	<0.001	0.00	0	0					4.00					
	UNII-8	802.11ax HE160	Bottom Side	0	207	LPI	Ant 0	92.80	1.08	6.00	5.98	1.00	0.16	0.014	0.02	0.345	0.37					4.00					
	UNII-5	802.11ax HE160	Front Face	0	15	LPI	Ant 1	92.90	1.08	6.00	5.93	1.02	-0.09	0.006	0.01	0.147	0.16					4.00					
	UNII-5	802.11ax HE160	Rear Face	0	15	LPI	Ant 1	92.90	1.08	6.00	5.93	1.02	0.16	0.000673	0.00	0.016	0.02					4.00					
	UNII-5	802.11ax HE160	Left Side	0	15	LPI	Ant 1	92.90	1.08	6.00	5.93	1.02	0	<0.001	0.00	0	0					4.00					
	UNII-5	802.11ax HE160	Right Side	0	15	LPI	Ant 1	92.90	1.08	6.00	5.93	1.02	0	<0.001	0.00	0	0					4.00					
	UNII-5	802.11ax HE160	Top Side	0	15	LPI	Ant 1	92.90	1.08	6.00	5.93	1.02	0	<0.001	0.00	0	0					4.00					
	UNII-5	802.11ax HE160	Bottom Side	0	15	LPI	Ant 1	92.90	1.08	6.00	5.93	1.02	0.09	0.022	0.02	0.547	0.6					4.00					
	UNII-8	802.11ax HE160	Front Face	0	207	LPI	Ant 0+1	92.90	1.08	9.00	8.90	1.02	0.09	0.00178	0.00	0.043	0.05					4.00					
	UNII-8	802.11ax HE160	Rear Face	0	207	LPI	Ant 0+1	92.90	1.08	9.00	8.90	1.02	0.02	0.000751	0.00	0.018	0.02					4.00					
	UNII-8	802.11ax HE160	Left Side	0	207	LPI	Ant 0+1	92.90	1.08	9.00	8.90	1.02	0	<0.001	0.00	0	0					4.00					
	UNII-8	802.11ax HE160	Right Side	0	207	LPI	Ant 0+1	92.90	1.08	9.00	8.90	1.02	0	<0.001	0.00	0	0					4.00					
	UNII-8	802.11ax HE160	Top Side	0	207	LPI	Ant 0+1	92.90	1.08	9.00	8.90	1.02	0	<0.001	0.00	0	0					4.00					
	UNII-8	802.11ax HE160	Bottom Side	0	207	LPI	Ant 0+1	92.90	1.08	9.00	8.90	1.02	0.04	0.02	0.02	0.51	0.56					4.00					
	UNII-5	802.11ax HE160	Bottom Side	0	47	SP	Ant 0	93.70	1.07	6.00	5.59	1.10	-0.17	0.098	0.12	2.42	2.85	0.0515	7.72	1.545		4.00	-0.15	1.92	3.17	2.53	4.60
	UNII-5	802.11ax HE160	Bottom Side	0	79	SP	Ant 0	93.70	1.07	6.00	5.75	1.06	-0.18	0.087	0.10	1.11	1.26	0.0529	6.46	1.545		4.00	-0.04	1.61	2.66	2.12	3.71
	UNII-6	802.11ax HE160	Bottom Side	0	111	SP	Ant 0	93.80	1.07	6.00	5.94	1.01	-0.01	0.094	0.10	2.32	2.51	0.0542	8.65	1.545		4.00	-0.15	2.15	3.55	2.84	4.74
14	UNII-7	802.11ax HE160	Bottom Side	0	143	SP	Ant 0	94.50	1.06	6.00	5.80	1.05	-0.05	0.129	0.14	3.17	3.53	0.0563	10.50	1.545		4.00	0.01	2.62	4.29	3.64	6.26

## Appendix H. Analysis of Simultaneous Transmission.

The analysis of simultaneous transmission SAR are shown as below.

### <Possibilities of Simultaneous Transmission>

The simultaneous transmission possibilities for this device are listed as below.

Simultaneous TX Combination	Capable Transmit Configurations	Body / Extremity Exposure Condition
A	MAX WLAN 5G + BT_Ant 1	Yes
B	MAX WLAN 6G + BT_Ant 1	Yes

### Notes

1. The WLAN 2.4G, WLAN 5G and WLAN 6G cannot transmit simultaneously.



Simultaneous Transmission SAR Evaluation (Body)					
Position	1	2	3	A(1+3)	B(2+3)
	Max WLAN 5GHz	Max WLAN 6GHz	Max BT Ant 1	Summing result 1g SAR W/kg	Summing result 1g SAR W/kg
	1g SAR W/kg	1g SAR W/kg	1g SAR W/kg		
Rear Face	0.03	0.09	0.00	0.03	0.09
Rear Curve	0.13	0.07	0.00	0.13	0.07
Bottom Side	1.14	0.89	0.39	1.53	1.28

Simultaneous Transmission SAR Evaluation (Extremity)					
Position	1	2	3	A(1+3)	B(2+3)
	Max WLAN 5GHz	Max WLAN 6GHz	Max BT Ant 1	Summing result 10g SAR W/kg	Summing result 10g SAR W/kg
	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg		
Front Face	0.06	0.02	0.07	0.13	0.09
Rear Face	0.01	0.02	0.00	0.01	0.02
Left Side	0.00	0.00	0.00	0.00	0.00
Right Side	0.00	0.00	0.00	0.00	0.00
Top Side	0.00	0.00	0.00	0.00	0.00
Bottom Side	0.25	0.14	0.17	0.42	0.31

Total Exposure Ratio ( Body )			
Position	2	3	B(2+3)
	Max WLAN 6GHz	Max BT Ant 1	Total Exposure Ratio
	4cm <sup>2</sup> W/m <sup>2</sup>	1g SAR W/kg	
Rear Face	0.00	0.00	0.00
Rear Curve	0.00	0.00	0.00
Bottom Side	6.26	0.39	0.87

Total Exposure Ratio ( Extremity )			
Position	2	3	B(2+3)
	Max WLAN 6GHz	Max BT Ant 1	Total Exposure Ratio
	4cm <sup>2</sup> W/m <sup>2</sup>	10g SAR W/kg	
Front Face	0.00	0.07	0.02
Rear Face	0.00	0.00	0.00
Left Side	0.00	0.00	0.00
Right Side	0.00	0.00	0.00
Top Side	0.00	0.00	0.00
Bottom Side	6.26	0.17	0.67

## Appendix Z. Calibration Certificate for Probe and Dipole

The SPEAG calibration certificates are shown as follows.



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

Accreditation No.: **SCS 0108**

Client **B.V. ADT**  
Taoyuan City

Certificate No. **D2450V2-737\_Feb24**

## CALIBRATION CERTIFICATE

Object **D2450V2 - SN:737**

Calibration procedure(s) **QA CAL-05.v12  
Calibration Procedure for SAR Validation Sources between 0.7-3 GHz**

Calibration date: **February 19, 2024**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 7349	03-Nov-23 (No. EX3-7349_Nov23)	Nov-24
DAE4	SN: 601	30-Jan-24 (No. DAE4-601_Jan24)	Jan-25
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

Calibrated by: **Krešimir Franjić**      **Laboratory Technician**

Approved by: **Sven Kühn**      **Technical Manager**

Issued: February 19, 2024

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The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

### Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

### Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Additional Documentation:

- DASY System Handbook

### Methods Applied and Interpretation of Parameters:

- Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:* The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss:* This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured:* SAR measured at the stated antenna input power.
- SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

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%.

## Measurement Conditions

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

<b>DASY Version</b>	DASY52	V52.10.4
<b>Extrapolation</b>	Advanced Extrapolation	
<b>Phantom</b>	Modular Flat Phantom	
<b>Distance Dipole Center - TSL</b>	10 mm	with Spacer
<b>Zoom Scan Resolution</b>	dx, dy, dz = 5 mm	
<b>Frequency</b>	2450 MHz $\pm$ 1 MHz	

## Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
<b>Nominal Head TSL parameters</b>	22.0 °C	39.2	1.80 mho/m
<b>Measured Head TSL parameters</b>	(22.0 $\pm$ 0.2) °C	38.5 $\pm$ 6 %	1.87 mho/m $\pm$ 6 %
<b>Head TSL temperature change during test</b>	< 0.5 °C	----	----

## SAR result with Head TSL

<b>SAR averaged over 1 cm<sup>3</sup> (1 g) of Head TSL</b>	Condition	
SAR measured	250 mW input power	13.5 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>52.9 W/kg <math>\pm</math> 17.0 % (k=2)</b>

<b>SAR averaged over 10 cm<sup>3</sup> (10 g) of Head TSL</b>	condition	
SAR measured	250 mW input power	6.26 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>24.7 W/kg <math>\pm</math> 16.5 % (k=2)</b>



## Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters with Head TSL

Impedance, transformed to feed point	54.2 $\Omega$ + 5.2 j $\Omega$
Return Loss	- 23.8 dB

### General Antenna Parameters and Design

Electrical Delay (one direction)	1.161 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

Manufactured by	SPEAG
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# DASY5 Validation Report for Head TSL

Date: 19.02.2024

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:737**

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.87$  S/m;  $\epsilon_r = 38.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(7.96, 7.96, 7.96) @ 2450 MHz; Calibrated: 03.11.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.01.2024
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

## Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 117.0 V/m; Power Drift = 0.03 dB

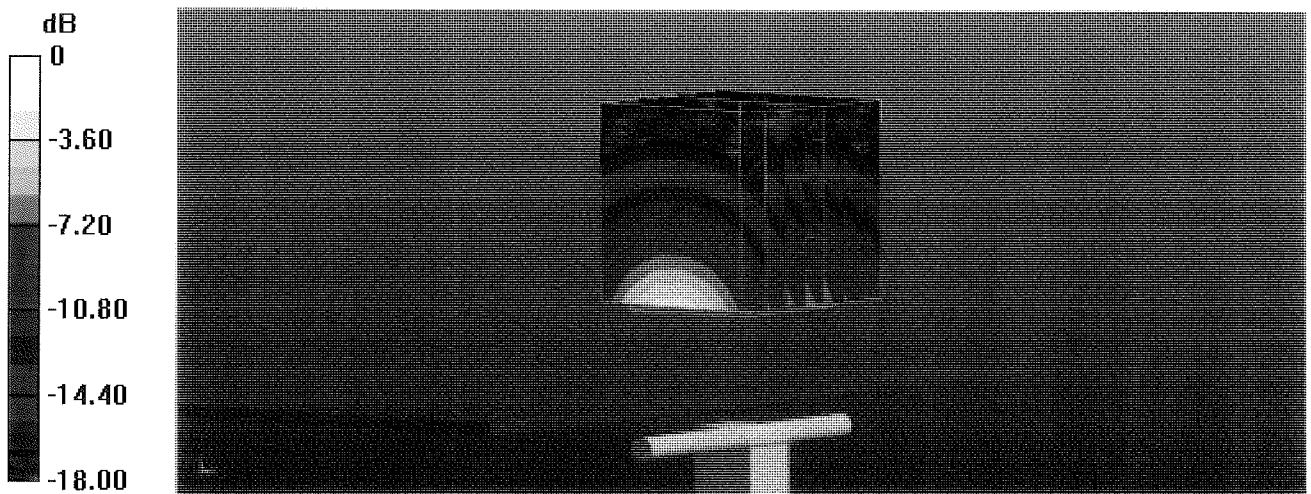
Peak SAR (extrapolated) = 27.0 W/kg

**SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.26 W/kg**

Smallest distance from peaks to all points 3 dB below = 9 mm

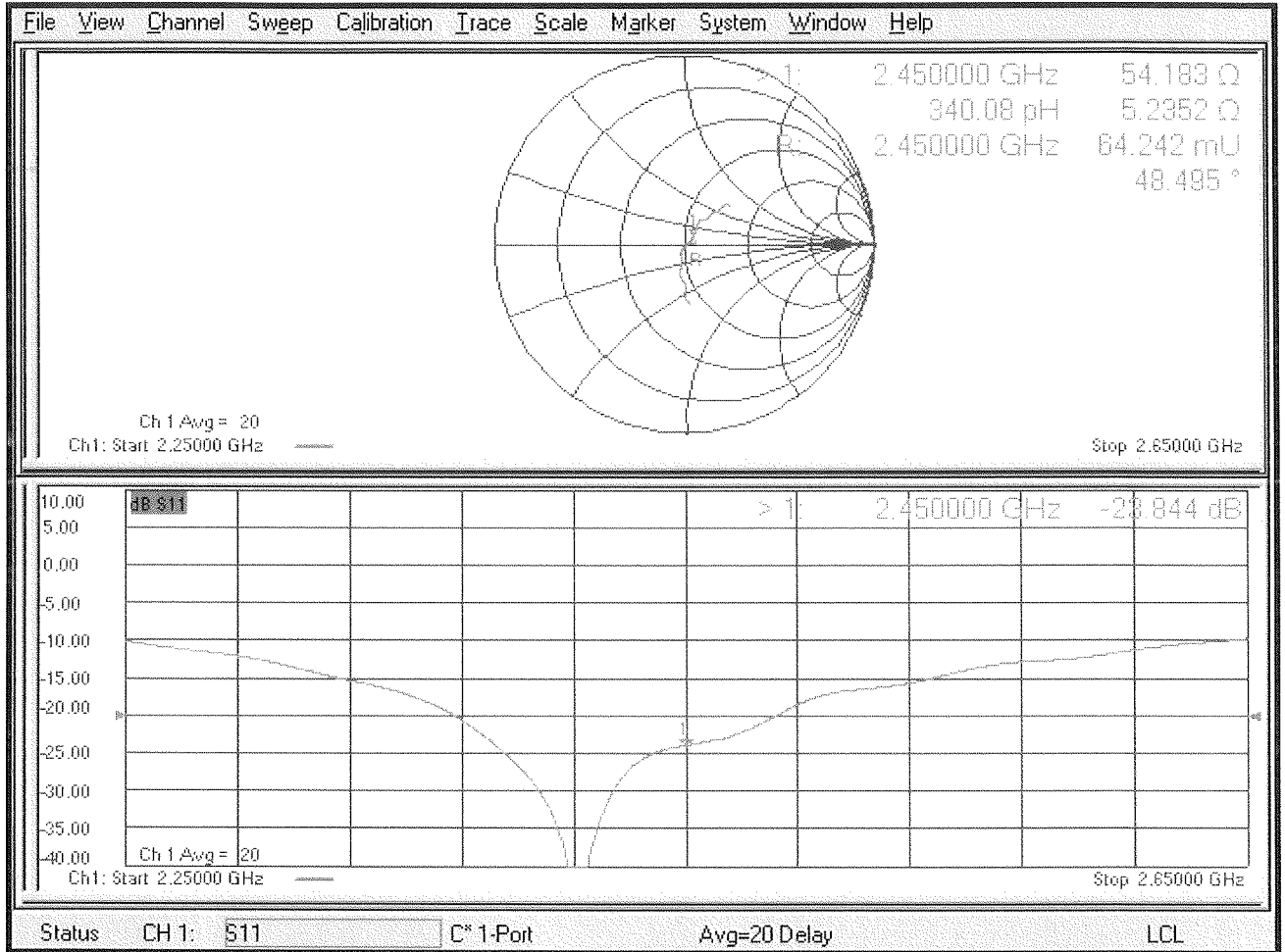
Ratio of SAR at M2 to SAR at M1 = 50.9%

Maximum value of SAR (measured) = 21.6 W/kg



0 dB = 21.6 W/kg = 13.34 dBW/kg

# Impedance Measurement Plot for Head TSL





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Client **B.V. ADT**  
Taoyuan City

Certificate No. **D5GHzV2-1019\_Feb24**

**CALIBRATION CERTIFICATE**

Object **D5GHzV2 - SN.1019**

Calibration procedure(s) **QA CAL-22 v7  
Calibration Procedure for SAR Validation Sources between 3-10 GHz**

Calibration date: **February 13, 2024**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 3503	07-Mar-23 (No. EX3-3503_Mar23)	Mar-24
DAE4	SN: 601	30-Jan-24 (No. DAE4-601_Jan24)	Jan-25

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

Calibrated by: **Paulo Pina** (Name) / **Laboratory Technician** (Function) / *[Signature]* (Signature)

Approved by: **Sven Kühn** (Name) / **Technical Manager** (Function) / *[Signature]* (Signature)

Issued: February 16, 2024

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Accreditation No.: **SCS 0108**

### Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

### Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Additional Documentation:

- DASY System Handbook

### Methods Applied and Interpretation of Parameters:

- Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:* The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss:* This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured:* SAR measured at the stated antenna input power.
- SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

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%.

## Measurement Conditions

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5250 MHz ± 1 MHz 5600 MHz ± 1 MHz 5800 MHz ± 1 MHz	

## Head TSL parameters at 5250 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.71 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.0 ± 6 %	4.53 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

## SAR result with Head TSL at 5250 MHz

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.03 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>80.2 W/kg ± 19.9 % (k=2)</b>

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.30 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>23.0 W/kg ± 19.5 % (k=2)</b>

## Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.3 ± 6 %	4.89 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

## SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.31 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>82.9 W/kg ± 19.9 % (k=2)</b>

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.37 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>23.6 W/kg ± 19.5 % (k=2)</b>

## Head TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.1 ± 6 %	5.12 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

## SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.05 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>80.3 W/kg ± 19.9 % (k=2)</b>

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.28 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>22.7 W/kg ± 19.5 % (k=2)</b>

## Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters with Head TSL at 5250 MHz

Impedance, transformed to feed point	52.1 $\Omega$ - 3.6 j $\Omega$
Return Loss	- 27.8 dB

### Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	56.8 $\Omega$ - 0.4 j $\Omega$
Return Loss	- 23.9 dB

### Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	57.4 $\Omega$ + 5.9 j $\Omega$
Return Loss	- 21.1 dB

### General Antenna Parameters and Design

Electrical Delay (one direction)	1.203 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

Manufactured by	SPEAG
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## DASY5 Validation Report for Head TSL

Date: 13.02.2024

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1019**

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.53$  S/m;  $\epsilon_r = 36$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 4.89$  S/m;  $\epsilon_r = 35.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.12$  S/m;  $\epsilon_r = 35.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(5.5, 5.5, 5.5) @ 5250 MHz, ConvF(5.1, 5.1, 5.1) @ 5600 MHz, ConvF(5.01, 5.01, 5.01) @ 5800 MHz; Calibrated: 07.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.01.2024
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

**Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 71.48 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 27.5 W/kg

**SAR(1 g) = 8.03 W/kg; SAR(10 g) = 2.30 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 70.4%

Maximum value of SAR (measured) = 18.2 W/kg

**Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.93 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 31.0 W/kg

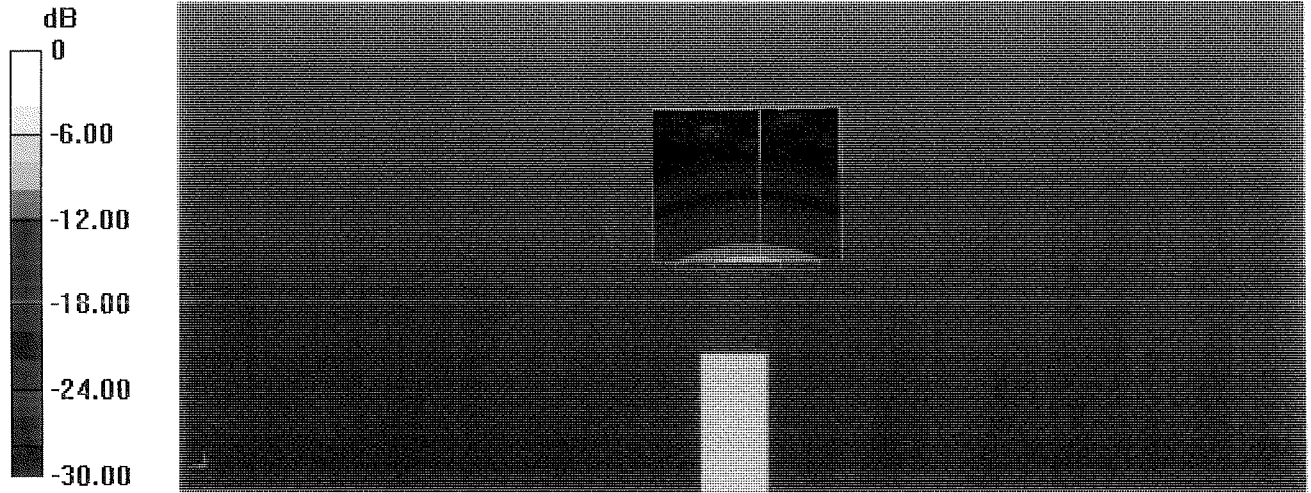
**SAR(1 g) = 8.31 W/kg; SAR(10 g) = 2.37 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 67.6%

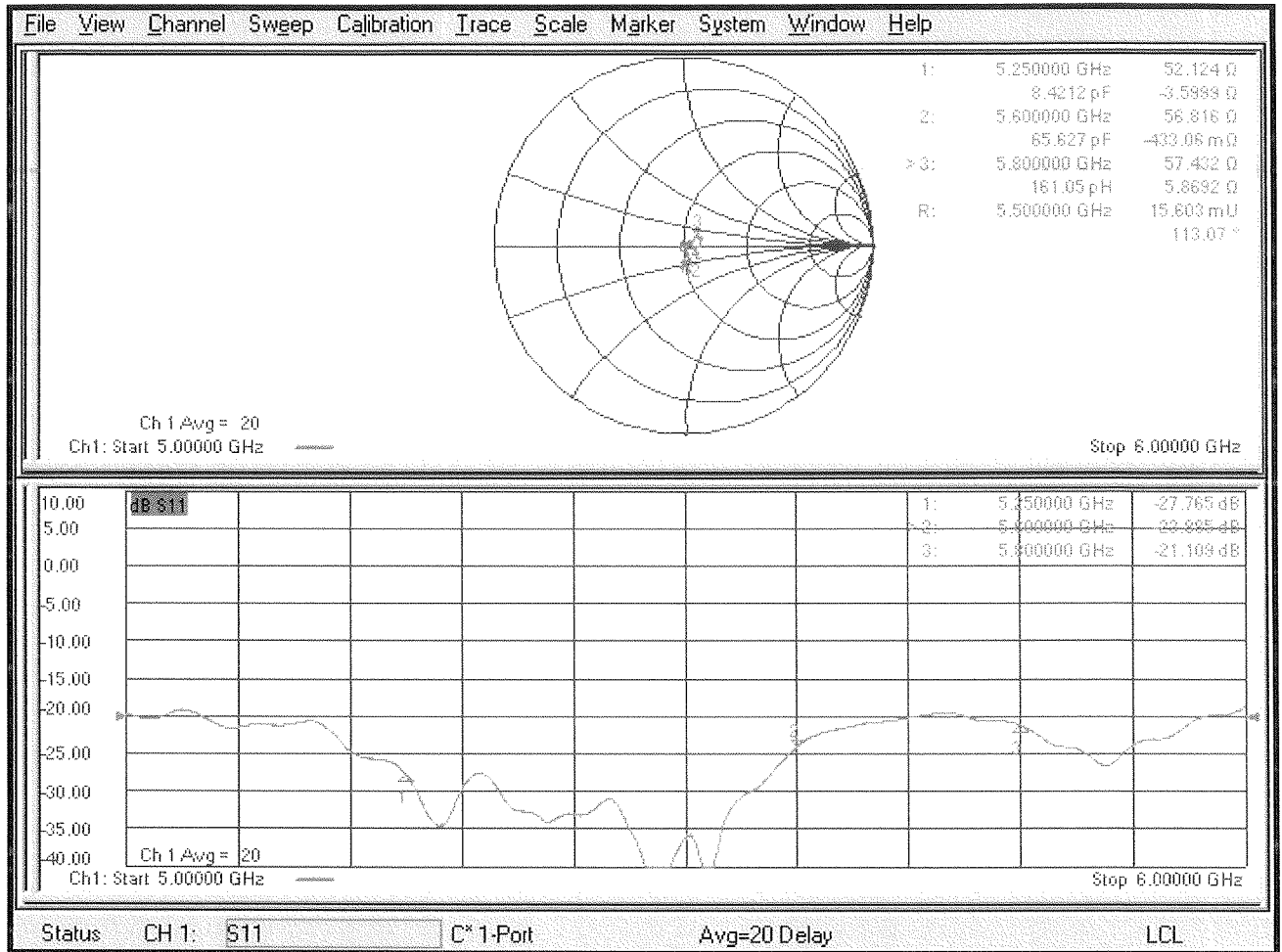
Maximum value of SAR (measured) = 19.7 W/kg

**Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm  
Reference Value = 68.71 V/m; Power Drift = 0.09 dB  
Peak SAR (extrapolated) = 31.9 W/kg  
**SAR(1 g) = 8.05 W/kg; SAR(10 g) = 2.28 W/kg**  
Smallest distance from peaks to all points 3 dB below = 7.5 mm  
Ratio of SAR at M2 to SAR at M1 = 65.5%  
Maximum value of SAR (measured) = 19.2 W/kg



0 dB = 19.7 W/kg = 12.93 dBW/kg

# Impedance Measurement Plot for Head TSL





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Multilateral Agreement for the recognition of calibration certificates

Client **Auden**  
Taoyuan City

Certificate No. **D5GHzV2-1203\_Dec23**

## CALIBRATION CERTIFICATE

Object **D5GHzV2 - SN:1203**

Calibration procedure(s) **QA CAL-22.v7  
Calibration Procedure for SAR Validation Sources between 3-10 GHz**

Calibration date: **December 14, 2023**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 3503	07-Mar-23 (No. EX3-3503_Mar23)	Mar-24
DAE4	SN: 601	03-Oct-23 (No. DAE4-601_Oct23)	Oct-24
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

Calibrated by: **Krešimir Franjić**      Name: **Krešimir Franjić**      Function: **Laboratory Technician**

Approved by: **Sven Kühn**      Name: **Sven Kühn**      Function: **Technical Manager**

Signature

Issued: December 14, 2023

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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:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

### Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Additional Documentation:

- DASY System Handbook

### Methods Applied and Interpretation of Parameters:

- Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:* The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss:* This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured:* SAR measured at the stated antenna input power.
- SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

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%.

## Measurement Conditions

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

<b>DASY Version</b>	DASY52	V52.10.4
<b>Extrapolation</b>	Advanced Extrapolation	
<b>Phantom</b>	Modular Flat Phantom V5.0	
<b>Distance Dipole Center - TSL</b>	10 mm	with Spacer
<b>Zoom Scan Resolution</b>	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
<b>Frequency</b>	5250 MHz ± 1 MHz 5600 MHz ± 1 MHz 5750 MHz ± 1 MHz 5850 MHz ± 1 MHz	

## Head TSL parameters at 5250 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
<b>Nominal Head TSL parameters</b>	22.0 °C	35.9	4.71 mho/m
<b>Measured Head TSL parameters</b>	(22.0 ± 0.2) °C	36.1 ± 6 %	4.63 mho/m ± 6 %
<b>Head TSL temperature change during test</b>	< 0.5 °C	----	----

## SAR result with Head TSL at 5250 MHz

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.90 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>79.0 W/kg ± 19.9 % (k=2)</b>

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.27 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>22.7 W/kg ± 19.5 % (k=2)</b>

### Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.7 ± 6 %	5.02 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

### SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.16 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.6 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.33 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.3 W/kg ± 19.5 % (k=2)

### Head TSL parameters at 5750 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.4	5.22 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.6 ± 6 %	5.16 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

### SAR result with Head TSL at 5750 MHz

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.83 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	78.4 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.24 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.4 W/kg ± 19.5 % (k=2)

## Head TSL parameters at 5850 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.2	5.32 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.4 ± 6 %	5.24 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

## SAR result with Head TSL at 5850 MHz

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.94 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	79.4 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.26 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.6 W/kg ± 19.5 % (k=2)



## Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters with Head TSL at 5250 MHz

Impedance, transformed to feed point	47.6 $\Omega$ - 3.5 j $\Omega$
Return Loss	- 27.2 dB

### Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	50.8 $\Omega$ + 1.9 j $\Omega$
Return Loss	- 33.6 dB

### Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	54.7 $\Omega$ + 6.6 j $\Omega$
Return Loss	- 22.3 dB

### Antenna Parameters with Head TSL at 5850 MHz

Impedance, transformed to feed point	50.6 $\Omega$ + 7.2 j $\Omega$
Return Loss	- 22.8 dB

### General Antenna Parameters and Design

Electrical Delay (one direction)	1.190 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

Manufactured by	SPEAG
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Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1203**

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750 MHz, Frequency: 5850 MHz

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.63$  S/m;  $\epsilon_r = 36.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.02$  S/m;  $\epsilon_r = 35.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.16$  S/m;  $\epsilon_r = 35.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Medium parameters used:  $f = 5850$  MHz;  $\sigma = 5.24$  S/m;  $\epsilon_r = 35.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(5.5, 5.5, 5.5) @ 5250 MHz, ConvF(5.1, 5.1, 5.1) @ 5600 MHz, ConvF(5.08, 5.08, 5.08) @ 5750 MHz, ConvF(4.99, 4.99, 4.99) @ 5850 MHz; Calibrated: 07.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 03.10.2023
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

**Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 71.59 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 26.3 W/kg

**SAR(1 g) = 7.90 W/kg; SAR(10 g) = 2.27 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 71.7%

Maximum value of SAR (measured) = 17.9 W/kg

**Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 72.06 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 29.3 W/kg

**SAR(1 g) = 8.16 W/kg; SAR(10 g) = 2.33 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 69%

Maximum value of SAR (measured) = 18.8 W/kg

**Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan,**

**dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 69.04 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 29.8 W/kg

**SAR(1 g) = 7.83 W/kg; SAR(10 g) = 2.24 W/kg**

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 67.1%

Maximum value of SAR (measured) = 18.5 W/kg

**Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5850 MHz/Zoom Scan,**

**dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 69.65 V/m; Power Drift = 0.08 dB

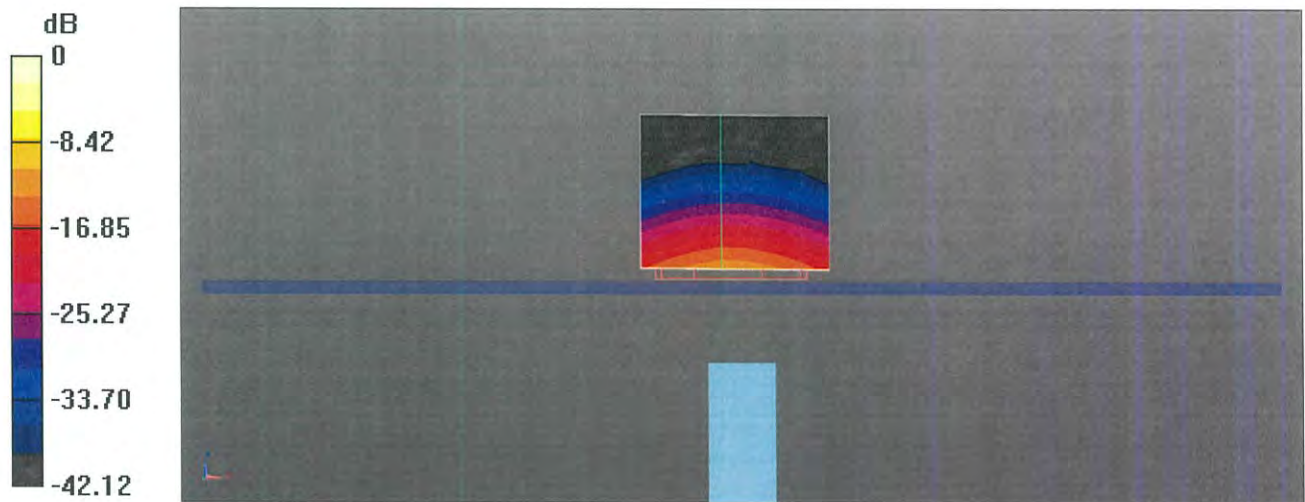
Peak SAR (extrapolated) = 30.8 W/kg

**SAR(1 g) = 7.94 W/kg; SAR(10 g) = 2.26 W/kg**

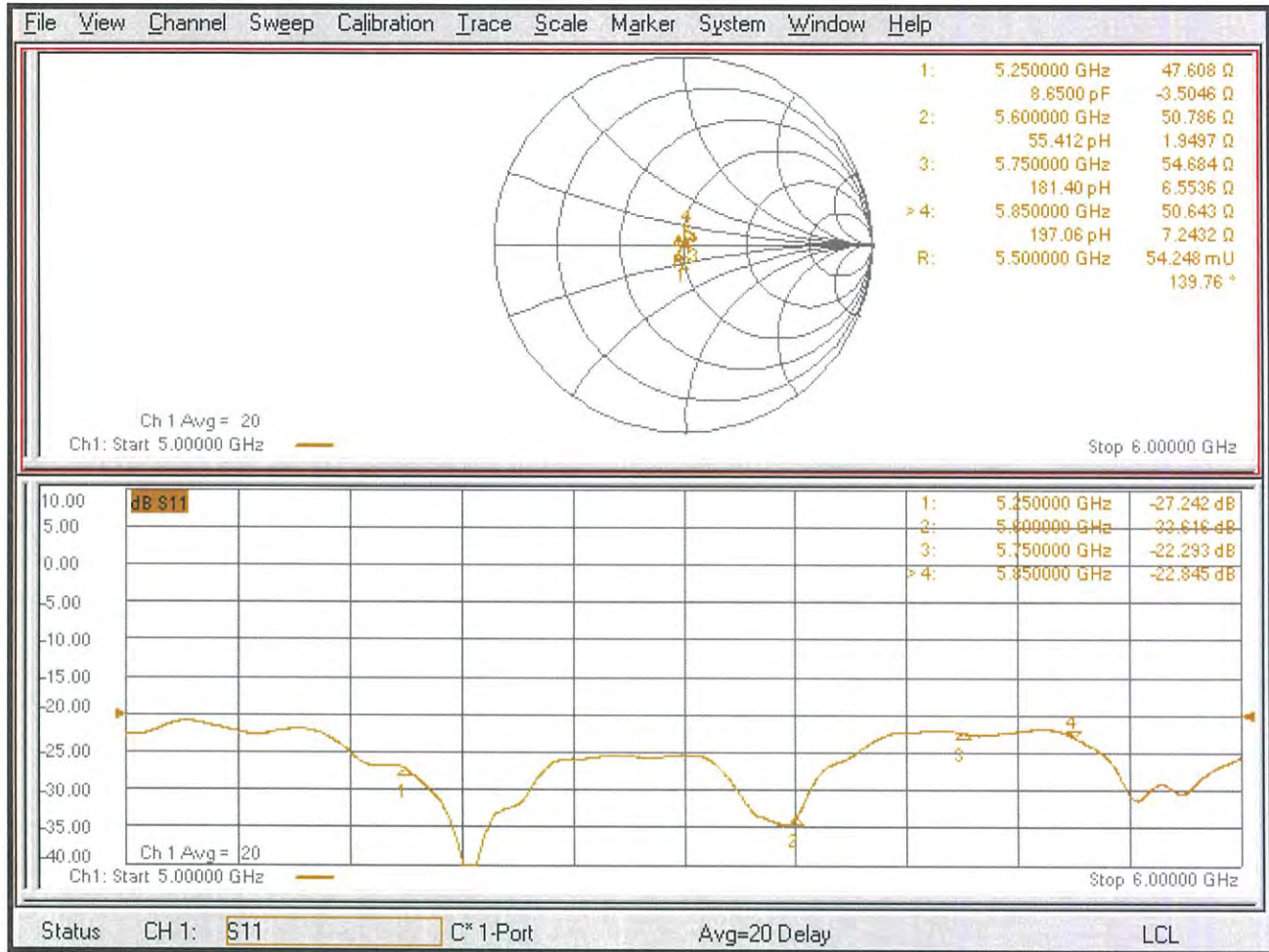
Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 66.3%

Maximum value of SAR (measured) = 18.9 W/kg



# Impedance Measurement Plot for Head TSL





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The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **B.V. ADT**  
Taoyuan City

Certificate No. **D6.5GHzV2-1008\_Sep23**

**CALIBRATION CERTIFICATE**

Object **D6.5GHzV2 - SN:1008**

Calibration procedure(s) **QA CAL-22 v7  
Calibration Procedure for SAR Validation Sources between 3-10 GHz**

Calibration date: **September 21, 2023**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power sensor R&S NRP33T	SN: 100967	03-Apr-23 (No. 217-03806)	Apr-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Mismatch combination	SN: 84224 / 360D	03-Apr-23 (No. 217-03812)	Apr-24
Reference Probe EX3DV4	SN: 7405	12-Jun-23 (No. EX3-7405_Jun23)	Jun-24
DAE4	SN: 908	03-Jul-23 (No. DAE4-908_Jul23)	Jul-24

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator Anapico APSIN20G	SN: 827	18-Dec-18 (in house check Dec-21)	In house check: Dec-23
Power sensor NRP-Z23	SN: 100169	10-Jan-19 (in house check Nov-22)	In house check: Nov-23
Power sensor NRP-18T	SN: 100950	28-Sep-22 (in house check Nov-22)	In house check: Nov-23
Network Analyzer Keysight E5063A	SN:MY54504221	31-Oct-19 (in house check Oct-22)	In house check: Oct-25

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Sven Kühn	Technical Manager	

Issued: September 21, 2023

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



### Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

### Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range Of 4 MHz To 10 GHz)", October 2020.

### Additional Documentation:

- b) DASY System Handbook

### Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The Return Loss ensures low reflected power. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.
- *The absorbed power density (APD):* The absorbed power density is evaluated according to Samaras T, Christ A, Kuster N, "Compliance assessment of the epithelial or absorbed power density above 6 GHz using SAR measurement systems", Bioelectromagnetics, 2021 (submitted). The additional evaluation uncertainty of 0.55 dB (rectangular distribution) is considered.

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%.



## Measurement Conditions

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

<b>DASY Version</b>	DASY6	V16.2
<b>Extrapolation</b>	Advanced Extrapolation	
<b>Phantom</b>	Modular Flat Phantom	
<b>Distance Dipole Center - TSL</b>	5 mm	with Spacer
<b>Zoom Scan Resolution</b>	dx, dy = 3.4 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
<b>Frequency</b>	6500 MHz ± 1 MHz	

## Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
<b>Nominal Head TSL parameters</b>	22.0 °C	34.5	6.07 mho/m
<b>Measured Head TSL parameters</b>	(22.0 ± 0.2) °C	33.3 ± 6 %	6.09 mho/m ± 6 %
<b>Head TSL temperature change during test</b>	< 0.5 °C	----	----

## SAR result with Head TSL

<b>SAR averaged over 1 cm<sup>3</sup> (1 g) of Head TSL</b>	Condition	
SAR measured	100 mW input power	29.4 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>292 W/kg ± 24.7 % (k=2)</b>

<b>SAR averaged over 8 cm<sup>3</sup> (8 g) of Head TSL</b>	Condition	
SAR measured	100 mW input power	6.65 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>65.9 W/kg ± 24.4 % (k=2)</b>

<b>SAR averaged over 10 cm<sup>3</sup> (10 g) of Head TSL</b>	condition	
SAR measured	100 mW input power	5.44 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	<b>53.9 W/kg ± 24.4 % (k=2)</b>

## Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.2 $\Omega$ - 6.9 j $\Omega$
Return Loss	- 23.0 dB

### APD (Absorbed Power Density)

APD averaged over 1 cm <sup>2</sup>	Condition	
APD measured	100 mW input power	291 W/m <sup>2</sup>
APD measured	normalized to 1W	<b>2910 W/m<sup>2</sup> <math>\pm</math> 29.2 % (k=2)</b>

APD averaged over 4 cm <sup>2</sup>	condition	
APD measured	100 mW input power	133 W/m <sup>2</sup>
APD measured	normalized to 1W	<b>1330 W/m<sup>2</sup> <math>\pm</math> 28.9 % (k=2)</b>

\*The reported APD values have been derived using the psSAR1g and psSAR8g.

### General Antenna Parameters and Design

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

Manufactured by	SPEAG
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# DASY6 Validation Report for Head TSL

Measurement Report for D6.5GHz-1008, UID 0 -, Channel 6500 (6500.0MHz)

## Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D6.5GHz	10.0 x 10.0 x 10.0	SN: 1008	-

## Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz]	Conversion Factor	TSL Cond. [S/m]	TSL Permittivity
Flat, HSL	5.00	Band	CW,	6500	5.50	6.09	33.3

## Hardware Setup

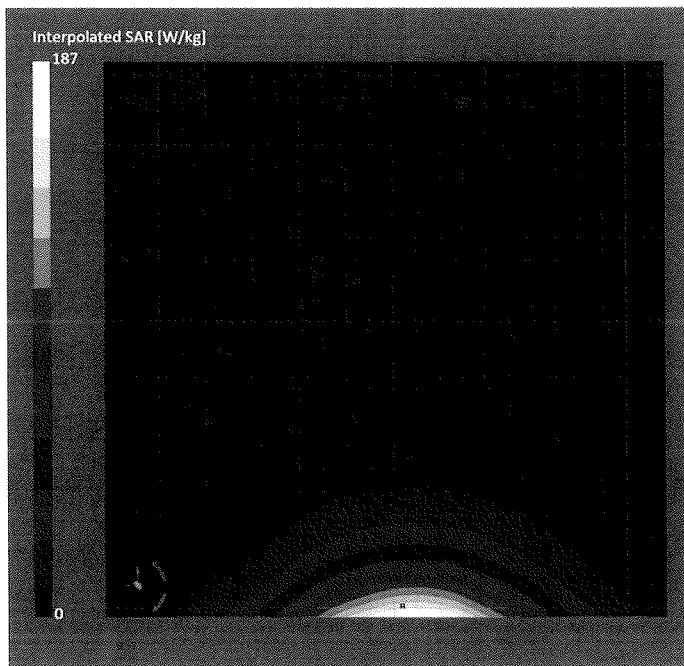
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
MFP V8.0 Center - 1182	HBBL600-10000V6	EX3DV4 - SN7405, 2023-06-12	DAE4 Sn908, 2023-07-03

## Scan Setup

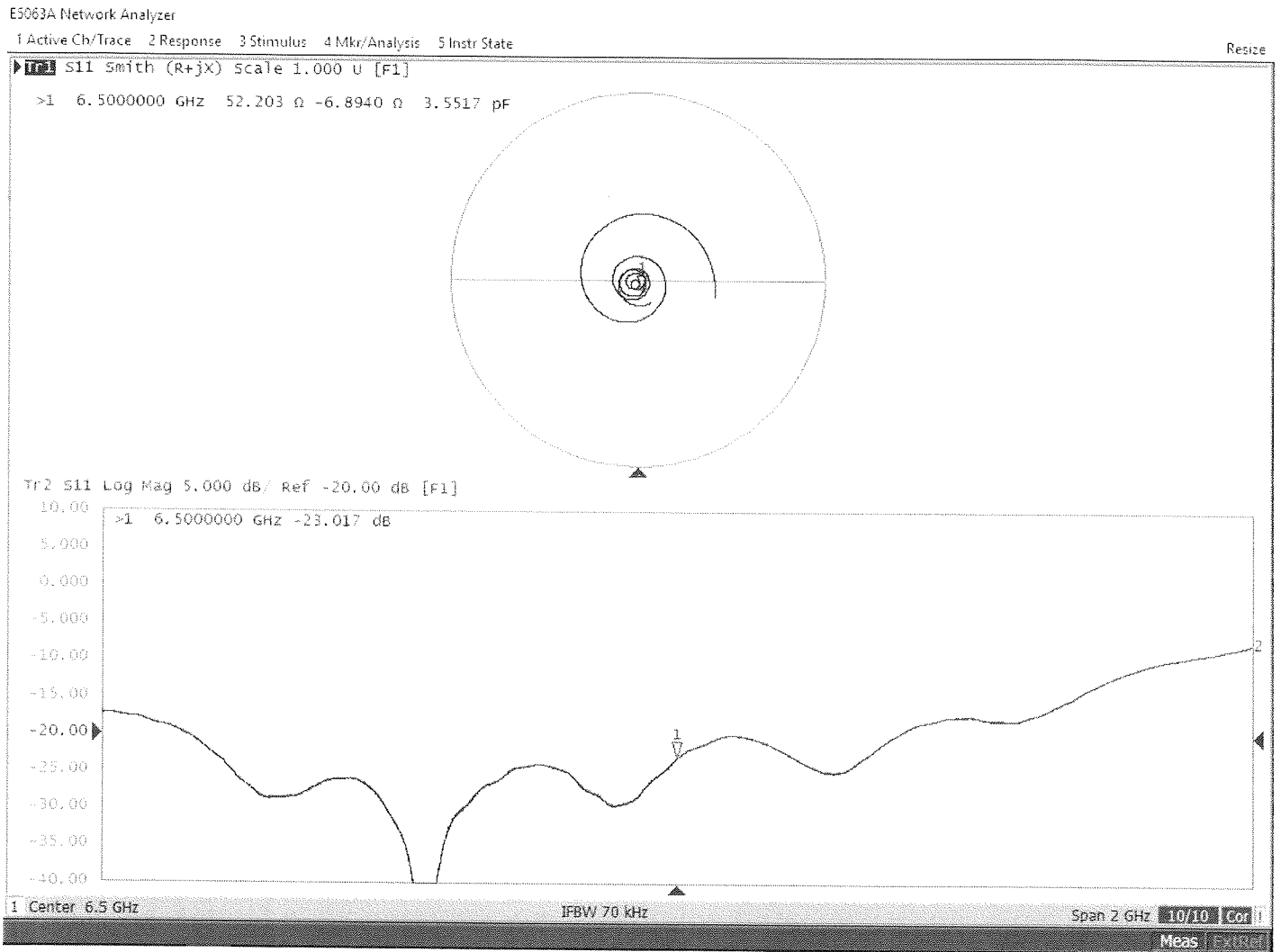
	Zoom Scan
Grid Extents [mm]	22.0 x 22.0 x 22.0
Grid Steps [mm]	3.4 x 3.4 x 1.4
Sensor Surface [mm]	1.4
Graded Grid	Yes
Grading Ratio	1.4
MAIA	N/A
Surface Detection	VMS + 6p
Scan Method	Measured

## Measurement Results

	Zoom Scan
Date	2023-09-21, 12:35
psSAR1g [W/Kg]	29.4
psSAR8g [W/Kg]	6.65
psSAR10g [W/Kg]	5.44
Power Drift [dB]	0.02
Power Scaling	Disabled
Scaling Factor [dB]	
TSL Correction	No correction
M2/M1 [%]	50.7
Dist 3dB Peak [mm]	4.6



# Impedance Measurement Plot for Head TSL





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

Client **B.V. ADT**  
Taoyuan City

Certificate No. **5G-Veri10-1025\_Jan24**

## CALIBRATION CERTIFICATE

Object **5G Verification Source 10 GHz - SN: 1025**

Calibration procedure(s) **QA CAL-45.v4**  
Calibration procedure for sources in air above 6 GHz

Calibration date: **January 18, 2024**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Reference Probe EUmmWV3	SN: 9374	04-Dec-23 (No. EUmm-9374_Dec23)	Dec-24
DAE4	SN: 1215	29-Jun-23 (No. DAE4-1215_Jun23)	Jun-24
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator R&S SMF100A	SN: 100184	29-Nov-23 (in house check Nov-23)	In house check: Nov-24
Power sensor R&S NRP18S-10	SN: 101258	29-Nov-23 (in house check Nov-23)	In house check: Nov-24
Network Analyzer Keysight E5063A	SN: MY54504221	31-Oct-19 (in house check Oct-22)	In house check: Oct-25

Calibrated by:	Name Joanna Lleshaj	Function Laboratory Technician	Signature 
Approved by:	Sven Kühn	Technical Manager	

Issued: January 19, 2024

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.





## Glossary

Accredited by the Swiss Accreditation Service (SAS)

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Accreditation No.: **SCS 0108**

CW                                      Continuous wave

## Calibration is Performed According to the Following Standards

- Internal procedure QA CAL-45, Calibration procedure for sources in air above 6 GHz.
- IEC/IEEE 63195-1, "Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz)", May 2022

## 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 +  $\lambda/4$ ) with a vectorial E-field probe. The E-field value stated as calibration value represents the E-field-maxima and the averaged (1cm<sup>2</sup> and 4cm<sup>2</sup>) 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/m<sup>2</sup>) averaged over the surface area of 1 cm<sup>2</sup> and 4cm<sup>2</sup> 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%.

## Measurement Conditions

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

DASY Version	DASY8 Module mmWave	V3.2
Phantom	5G Phantom	
Distance Horn Aperture - plane	10 mm	
Number of measured planes	2 (10mm, 10mm + $\lambda/4$ )	
Frequency	10 GHz $\pm$ 10 MHz	

## Calibration Parameters, 10 GHz

### Circular Averaging

Distance Horn Aperture to Measured Plane	$Prad^1$ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m <sup>2</sup> )		Uncertainty (k = 2)
				1 cm <sup>2</sup>	4 cm <sup>2</sup>	
10 mm	93.3	153	1.27 dB	60.4	56.2	1.28 dB

Distance Horn Aperture to Measured Plane	$Prad^1$ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Power Density psPDn+, psPDtot+, psPDmod+ (W/m <sup>2</sup> )		Uncertainty (k = 2)
				1 cm <sup>2</sup>	4 cm <sup>2</sup>	
10 mm	93.3	153	1.27 dB	60.2, 60.4, 60.6	55.9, 56.2, 56.4	1.28 dB

### Square Averaging

Distance Horn Aperture to Measured Plane	$Prad^1$ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m <sup>2</sup> )		Uncertainty (k = 2)
				1 cm <sup>2</sup>	4 cm <sup>2</sup>	
10 mm	93.3	153	1.27 dB	60.4	56.0	1.28 dB

Distance Horn Aperture to Measured Plane	$Prad^1$ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Power Density psPDn+, psPDtot+, psPDmod+ (W/m <sup>2</sup> )		Uncertainty (k = 2)
				1 cm <sup>2</sup>	4 cm <sup>2</sup>	
10 mm	93.3	153	1.27 dB	60.2, 60.4, 60.6	55.7, 56.0, 56.3	1.28 dB

### Max Power Density

Distance Horn Aperture to Measured Plane	$Prad^1$ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Max Power Density Sn, Stot,  Stot  (W/m <sup>2</sup> )	Uncertainty (k = 2)
				10 mm	

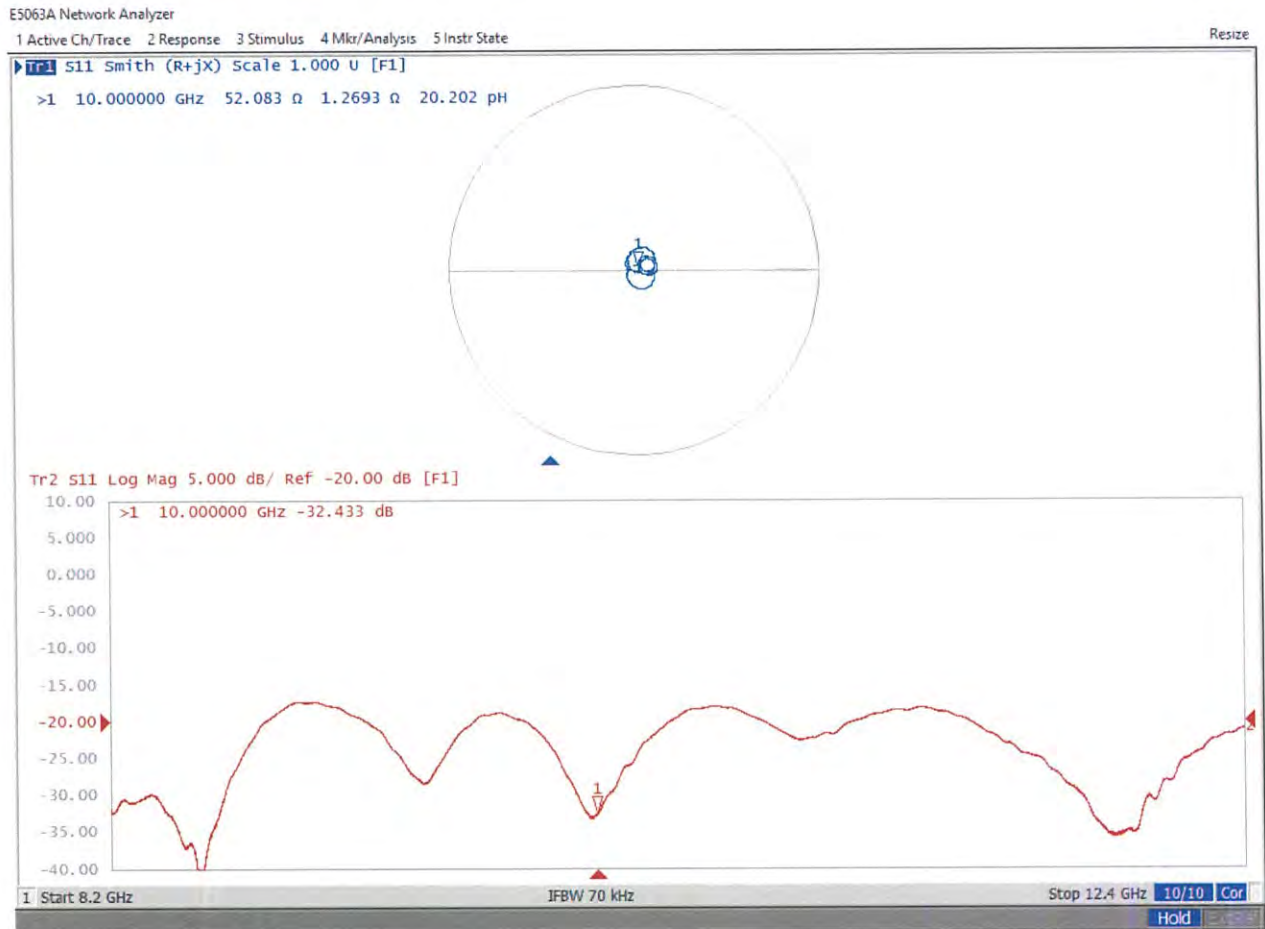
<sup>1</sup> Assessed ohmic and mismatch loss plus numerical offset: 0.30 dB

## Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters

Impedance, transformed to feed point	52.0 $\Omega$ + 1.2 j $\Omega$
Return Loss	- 32.4 dB

### Impedance Measurement Plot





# DASY Report

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

### Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz	100.0 x 100.0 x 172.0	SN: 1025	-

### 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

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2023-12-04	DAE4 Sn1215, 2023-06-29

### Scan Setup

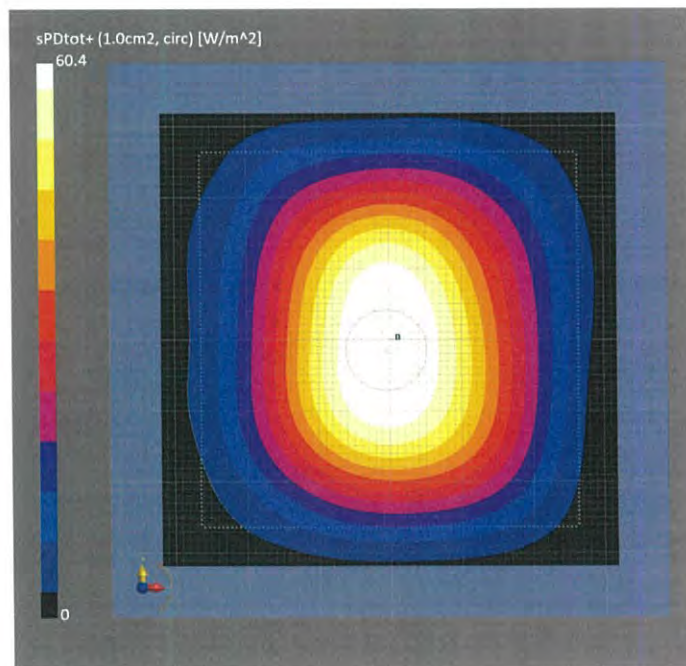
Sensor Surface [mm]  
MAIA

5G Scan  
10.0  
MAIA not used

### Measurement Results

Date  
Avg. Area [cm<sup>2</sup>]  
Avg. Type  
psPDn+ [W/m<sup>2</sup>]  
psPDtot+ [W/m<sup>2</sup>]  
psPDmod+ [W/m<sup>2</sup>]  
Max(Sn) [W/m<sup>2</sup>]  
Max(Stot) [W/m<sup>2</sup>]  
Max(|Stot|) [W/m<sup>2</sup>]  
E<sub>max</sub> [V/m]  
Power Drift [dB]

5G Scan  
2024-01-18, 12:50  
1.00  
Circular Averaging  
60.2  
60.4  
60.6  
61.9  
61.9  
62.1  
153  
-0.04



# DASY Report

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

### Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz	100.0 x 100.0 x 172.0	SN: 1025	-

### 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

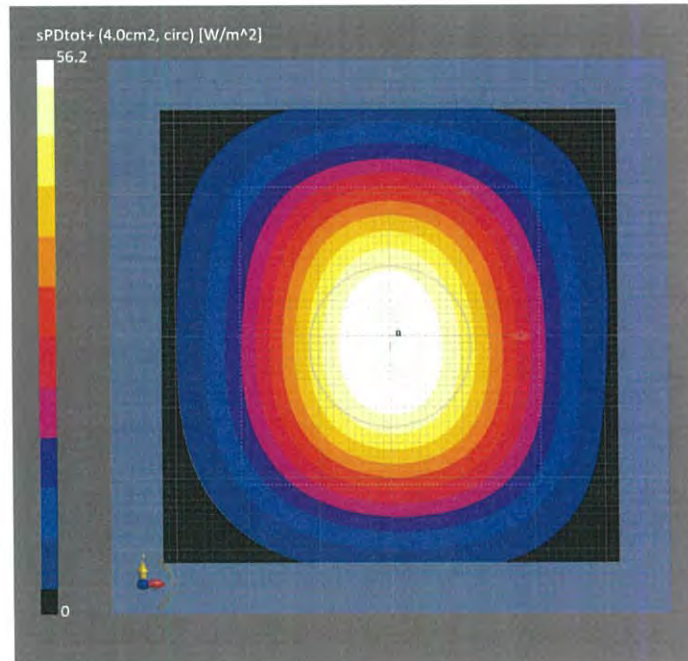
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2023-12-04	DAE4 Sn1215, 2023-06-29

### Scan Setup

Sensor Surface [mm]	5G Scan
MAIA	10.0 MAIA not used

### Measurement Results

	5G Scan
Date	2024-01-18, 12:50
Avg. Area [cm <sup>2</sup> ]	4.00
Avg. Type	Circular Averaging
psPDn+ [W/m <sup>2</sup> ]	55.9
psPDtot+ [W/m <sup>2</sup> ]	56.2
psPDmod+ [W/m <sup>2</sup> ]	56.4
Max(Sn) [W/m <sup>2</sup> ]	61.9
Max(Stot) [W/m <sup>2</sup> ]	61.9
Max( Stot ) [W/m <sup>2</sup> ]	62.1
E <sub>max</sub> [V/m]	153
Power Drift [dB]	-0.04





# DASY Report

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

### Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz	100.0 x 100.0 x 172.0	SN: 1025	-

### 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

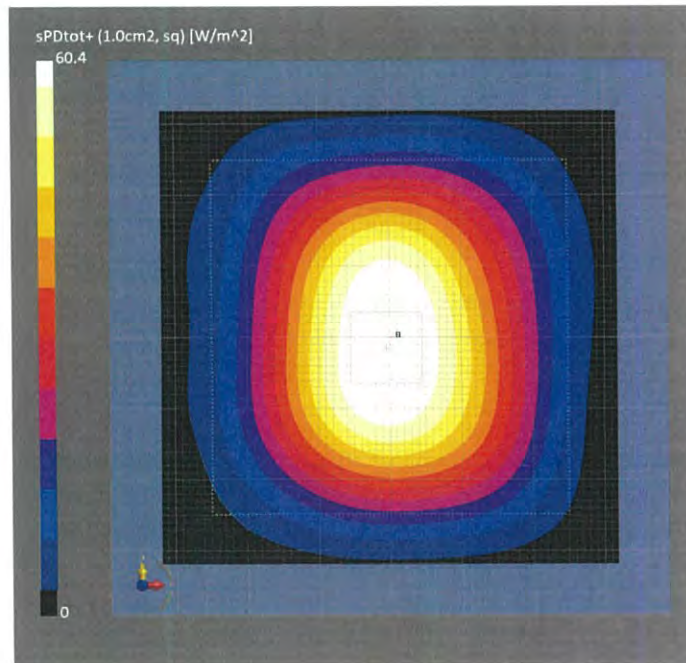
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2023-12-04	DAE4 Sn1215, 2023-06-29

### Scan Setup

Sensor Surface [mm]	5G Scan
MAIA	10.0 MAIA not used

### Measurement Results

Date	5G Scan
2024-01-18, 12:50	2024-01-18, 12:50
Avg. Area [cm <sup>2</sup> ]	1.00
Avg. Type	Square Averaging
psPDn+ [W/m <sup>2</sup> ]	60.2
psPDtot+ [W/m <sup>2</sup> ]	60.4
psPDmod+ [W/m <sup>2</sup> ]	60.6
Max(Sn) [W/m <sup>2</sup> ]	61.9
Max(Stot) [W/m <sup>2</sup> ]	61.9
Max( Stot ) [W/m <sup>2</sup> ]	62.1
E <sub>max</sub> [V/m]	153
Power Drift [dB]	-0.04



# DASY Report

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

### Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz	100.0 x 100.0 x 172.0	SN: 1025	-

### 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

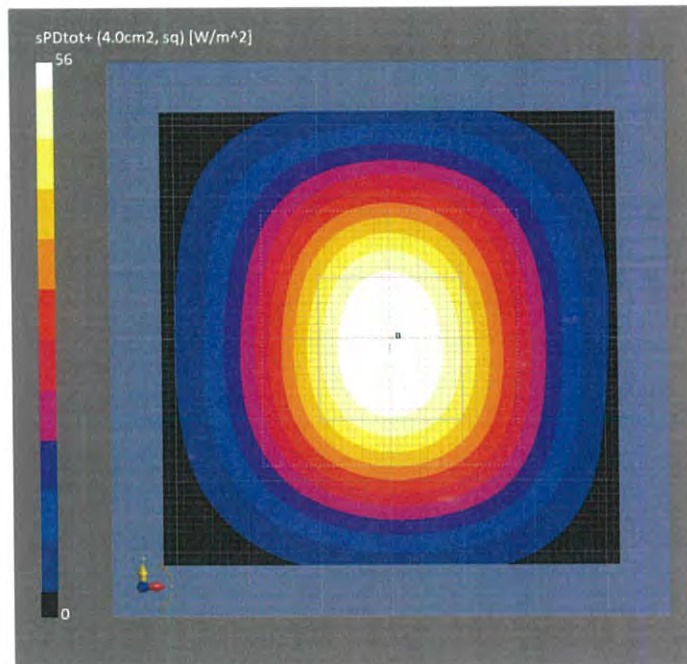
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2023-12-04	DAE4 Sn1215, 2023-06-29

### Scan Setup

Sensor Surface [mm]	5G Scan
MAIA	10.0 MAIA not used

### Measurement Results

	5G Scan
Date	2024-01-18, 12:50
Avg. Area [cm <sup>2</sup> ]	4.00
Avg. Type	Square Averaging
psPDn+ [W/m <sup>2</sup> ]	55.7
psPDtot+ [W/m <sup>2</sup> ]	56.0
psPDmod+ [W/m <sup>2</sup> ]	56.3
Max(Sn) [W/m <sup>2</sup> ]	61.9
Max(Stot) [W/m <sup>2</sup> ]	61.9
Max( Stot ) [W/m <sup>2</sup> ]	62.1
E <sub>max</sub> [V/m]	153
Power Drift [dB]	-0.04



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**S** Servizio svizzero di taratura  
**S** Swiss Calibration Service

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**Accreditation No.: **SCS 0108**

Client

**B.V. ADT**  
Taoyuan City

Certificate No.

**EX-7472\_Oct23****CALIBRATION CERTIFICATE**Object **EX3DV4 - SN:7472**Calibration procedure(s) **QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,  
QA CAL-25.v8  
Calibration procedure for dosimetric E-field probes**Calibration date **October 23, 2023**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature  $(22 \pm 3) ^\circ\text{C}$  and humidity  $< 70\%$ .

Calibration Equipment used (M&amp;TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
OCP DAK-3.5 (weighted)	SN: 1249	05-Oct-23 (OCP-DAK3.5-1249_Oct23)	Oct-24
OCP DAK-12	SN: 1016	05-Oct-23 (OCP-DAK12-1016_Oct23)	Oct-24
Reference 20 dB Attenuator	SN: CC2552 (20x)	30-Mar-23 (No. 217-03809)	Mar-24
DAE4	SN: 660	16-Mar-23 (No. DAE4-660_Mar23)	Mar-24
Reference Probe ES3DV2	SN: 3013	06-Jan-23 (No. ES3-3013_Jan23)	Jan-24

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check: Jun-24
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

	Name	Function	Signature
Calibrated by	Jeton Kastrati	Laboratory Technician	
Approved by	Sven Kühn	Technical Manager	

Issued: October 23, 2023

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

## Calibration Laboratory of

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**S** Servizio svizzero di taratura  
**S** Swiss Calibration Service

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

Accreditation No.: **SCS 0108**

## Glossary

TSL	tissue simulating liquid
NORM <sub>x,y,z</sub>	sensitivity in free space
ConvF	sensitivity in TSL / NORM <sub>x,y,z</sub>
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization $\varphi$	$\varphi$ rotation around probe axis
Polarization $\vartheta$	$\vartheta$ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

## Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices – Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

## Methods Applied and Interpretation of Parameters:

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(f)<sub>x,y,z</sub> = NORM<sub>x,y,z</sub> \* frequency\_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A<sub>x,y,z</sub>; B<sub>x,y,z</sub>; C<sub>x,y,z</sub>; D<sub>x,y,z</sub>; VR<sub>x,y,z</sub>; A, B, C, D** are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for  $f \leq 800$  MHz) and inside waveguide using analytical field distributions based on power measurements for  $f > 800$  MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM<sub>x,y,z</sub> \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from  $\pm 50$  MHz to  $\pm 100$  MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM<sub>x</sub> (no uncertainty required).

### Parameters of Probe: EX3DV4 - SN:7472

#### Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm ( $\mu V/(V/m)^2$ ) <sup>A</sup>	0.59	0.48	0.42	±10.1%
DCP (mV) <sup>B</sup>	99.6	99.6	100.2	±4.7%

#### Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\sqrt{\mu V}$	C	D dB	VR mV	Max dev.	Max Unc <sup>E</sup> k = 2
0	CW	X	0.00	0.00	1.00	0.00	176.3	±3.5%	±4.7%
		Y	0.00	0.00	1.00		184.9		
		Z	0.00	0.00	1.00		190.5		
10352	Pulse Waveform (200Hz, 10%)	X	20.00	88.79	18.92	10.00	60.0	±3.3%	±9.6%
		Y	1.46	60.58	6.72		60.0		
		Z	2.27	64.91	9.56		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	20.00	91.18	18.95	6.99	80.0	±2.3%	±9.6%
		Y	0.84	60.00	5.44		80.0		
		Z	1.03	62.21	7.30		80.0		
10354	Pulse Waveform (200Hz, 40%)	X	20.00	99.86	21.71	3.98	95.0	±1.5%	±9.6%
		Y	4.00	68.00	7.00		95.0		
		Z	0.38	60.00	4.92		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	20.00	138.84	37.51	2.22	120.0	±2.0%	±9.6%
		Y	11.53	156.07	5.46		120.0		
		Z	8.66	159.67	15.32		120.0		
10387	QPSK Waveform, 1 MHz	X	2.12	71.77	18.07	1.00	150.0	±3.6%	±9.6%
		Y	1.45	66.38	14.45		150.0		
		Z	1.26	64.93	13.25		150.0		
10388	QPSK Waveform, 10 MHz	X	2.82	73.06	18.56	0.00	150.0	±1.2%	±9.6%
		Y	1.93	66.74	15.15		150.0		
		Z	1.76	65.59	14.33		150.0		
10396	64-QAM Waveform, 100 kHz	X	3.27	73.66	21.00	3.01	150.0	±1.1%	±9.6%
		Y	2.04	65.70	16.67		150.0		
		Z	1.97	65.18	16.28		150.0		
10399	64-QAM Waveform, 40 MHz	X	3.75	68.79	16.97	0.00	150.0	±2.3%	±9.6%
		Y	3.29	66.43	15.44		150.0		
		Z	3.31	66.68	15.42		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	4.98	66.44	16.24	0.00	150.0	±4.1%	±9.6%
		Y	4.55	65.27	15.35		150.0		
		Z	4.62	65.70	15.49		150.0		

Note: For details on UID parameters see Appendix

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%.

<sup>A</sup> The uncertainties of Norm X,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Pages 5 and 6).

<sup>B</sup> Linearization parameter uncertainty for maximum specified field strength.

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

## Parameters of Probe: EX3DV4 - SN:7472

### Sensor Model Parameters

	C1 fF	C2 fF	$\alpha$ $V^{-1}$	T1 $ms V^{-2}$	T2 $ms V^{-1}$	T3 ms	T4 $V^{-2}$	T5 $V^{-1}$	T6
x	42.9	324.96	36.75	10.65	0.00	5.08	0.53	0.36	1.01
y	31.1	233.63	35.81	6.22	0.00	4.93	0.22	0.20	1.00
z	29.6	223.83	36.12	3.43	0.00	5.03	0.00	0.24	1.01

### Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	-96.3°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

**Note:** Measurement distance from surface can be increased to 3–4 mm for an *Area Scan* job.

## Parameters of Probe: EX3DV4 - SN:7472

### Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
750	41.9	0.89	10.35	10.35	10.35	0.45	0.85	±12.0%
835	41.5	0.90	10.16	10.16	10.16	0.46	0.80	±12.0%
1450	40.5	1.20	9.10	9.10	9.10	0.35	0.85	±12.0%
1750	40.1	1.37	9.00	9.00	9.00	0.31	0.86	±12.0%
1900	40.0	1.40	8.37	8.37	8.37	0.31	0.86	±12.0%
2000	40.0	1.40	8.29	8.29	8.29	0.29	0.86	±12.0%
2300	39.5	1.67	8.12	8.12	8.12	0.33	0.90	±12.0%
2450	39.2	1.80	7.82	7.82	7.82	0.39	0.90	±12.0%
2600	39.0	1.96	7.61	7.61	7.61	0.38	0.90	±12.0%
3300	38.2	2.71	7.31	7.31	7.31	0.35	1.35	±14.0%
3500	37.9	2.91	7.24	7.24	7.24	0.35	1.35	±14.0%
3700	37.7	3.12	7.19	7.19	7.19	0.40	1.35	±14.0%
3900	37.5	3.32	6.98	6.98	6.98	0.40	1.60	±14.0%
4100	37.2	3.53	6.61	6.61	6.61	0.40	1.60	±14.0%
4200	37.1	3.63	6.54	6.54	6.54	0.40	1.60	±14.0%
4400	36.9	3.84	6.41	6.41	6.41	0.40	1.70	±14.0%
4600	36.7	4.04	6.38	6.38	6.38	0.40	1.70	±14.0%
4800	36.4	4.25	6.34	6.34	6.34	0.40	1.80	±14.0%
4950	36.3	4.40	6.03	6.03	6.03	0.40	1.80	±14.0%
5250	35.9	4.71	5.92	5.92	5.92	0.40	1.80	±14.0%
5600	35.5	5.07	5.04	5.04	5.04	0.40	1.80	±14.0%
5750	35.4	5.22	5.31	5.31	5.31	0.40	1.80	±14.0%

<sup>C</sup> Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

<sup>F</sup> The probes are calibrated using tissue simulating liquids (TSL) that deviate for  $\epsilon$  and  $\sigma$  by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10%. If TSL with deviations from the target of less than ±5% are used, the calibration uncertainties are 11.1% for 0.7 - 3 GHz and 13.1% for 3 - 6 GHz.

<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

## Parameters of Probe: EX3DV4 - SN:7472

### Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
6500	34.5	6.07	5.70	5.70	5.70	0.20	2.50	±18.6%

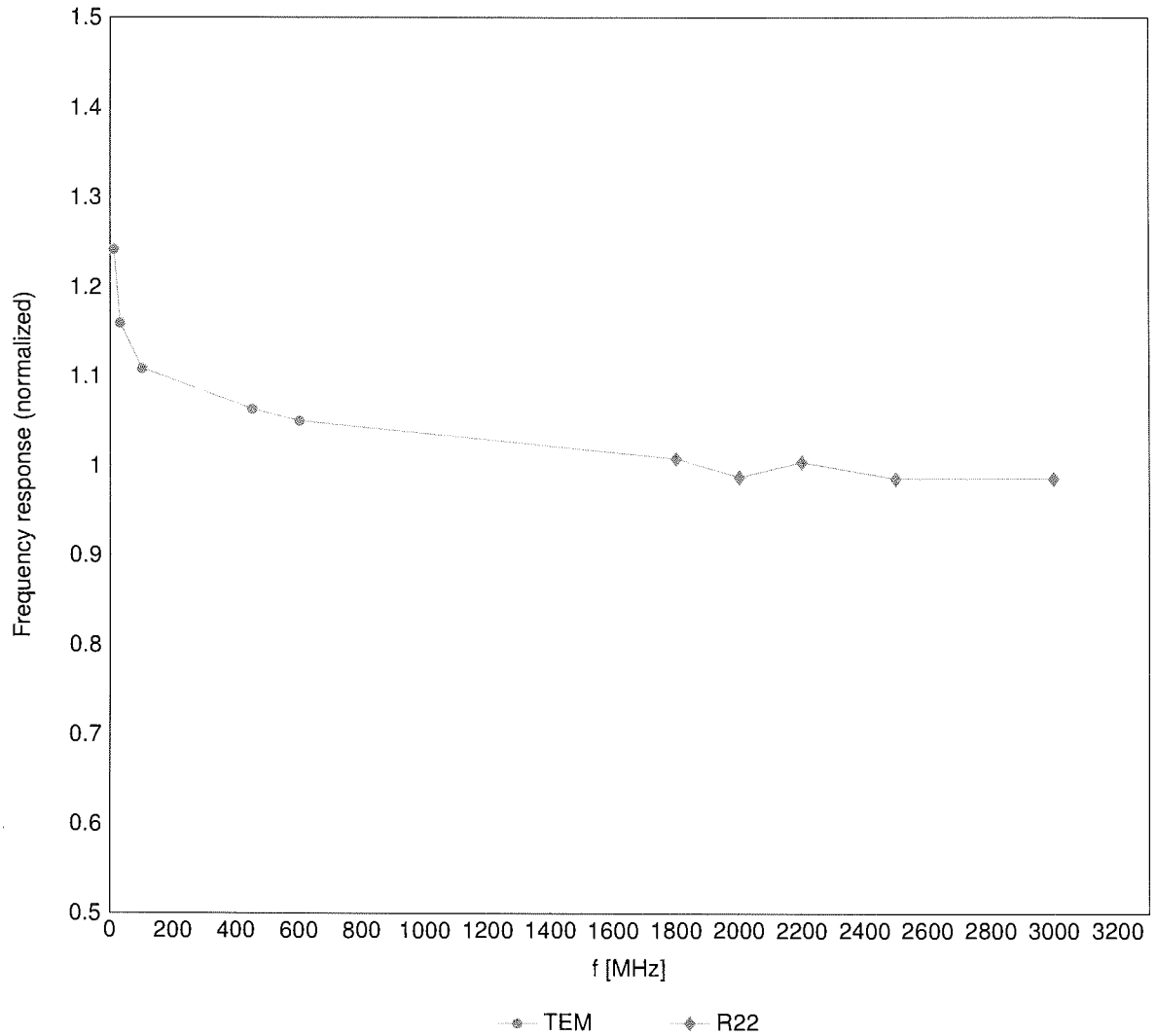
<sup>C</sup> Frequency validity at 6.5 GHz is -600/+700 MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

<sup>F</sup> The probes are calibrated using tissue simulating liquids (TSL) that deviate for  $\epsilon$  and  $\sigma$  by less than ±10% from the target values (typically better than ±6%) and are valid for TSL with deviations of up to ±10%.

<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz; below ±2% for frequencies between 3–6 GHz; and below ±4% for frequencies between 6–10 GHz at any distance larger than half the probe tip diameter from the boundary.

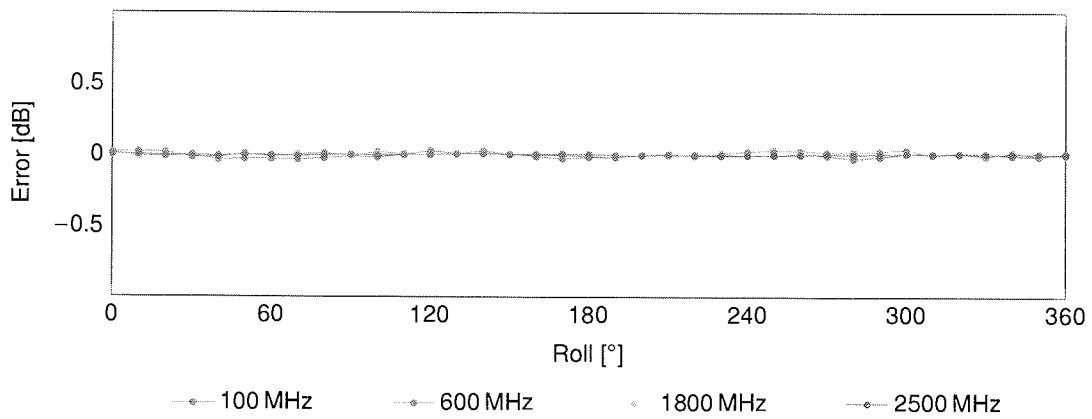
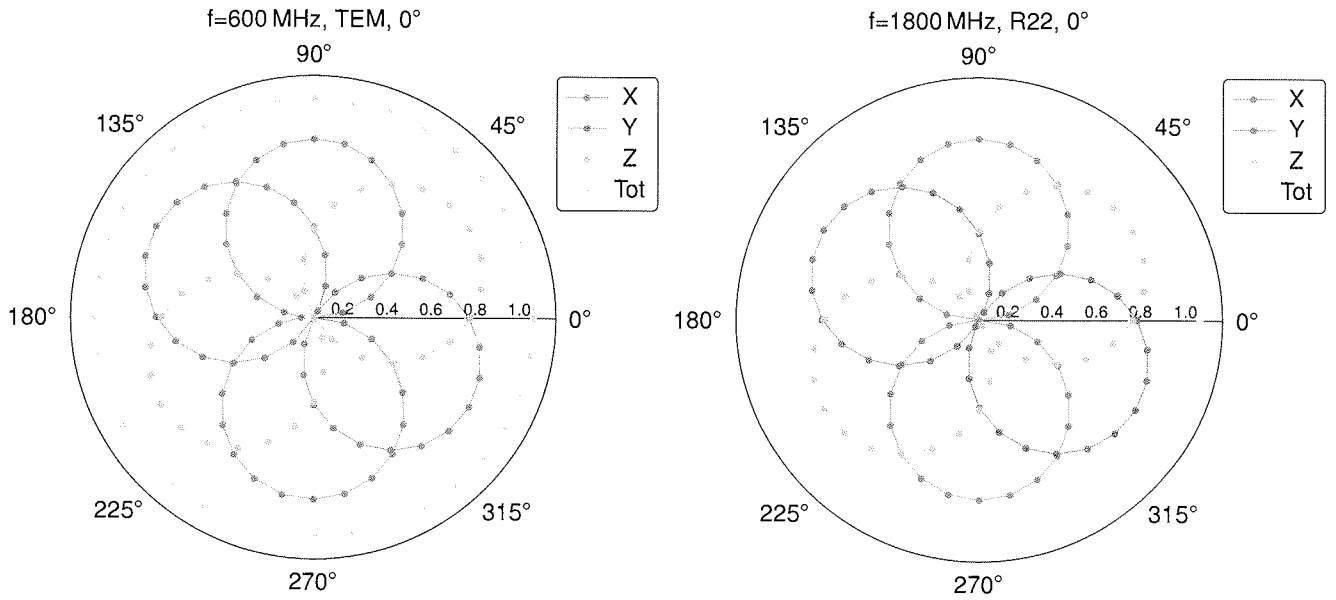


### Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide:R22)



Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  (k=2)

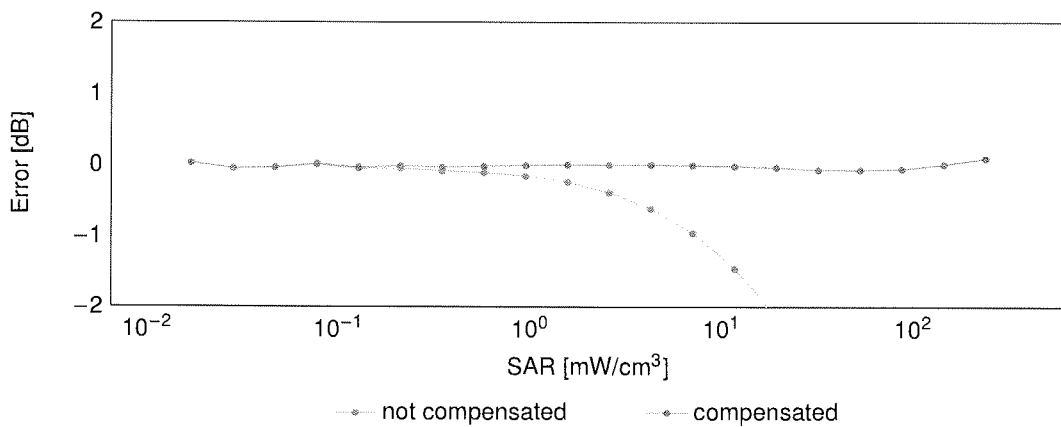
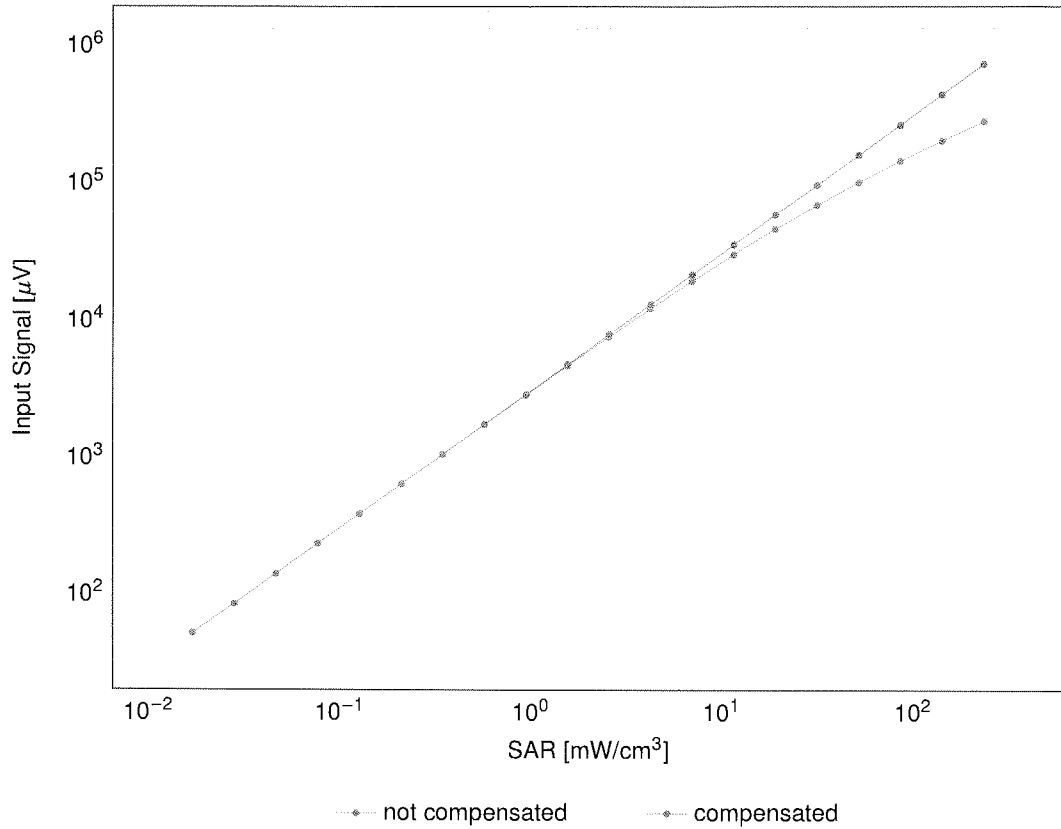
### Receiving Pattern ( $\phi$ ), $\vartheta = 0^\circ$



Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  (k=2)

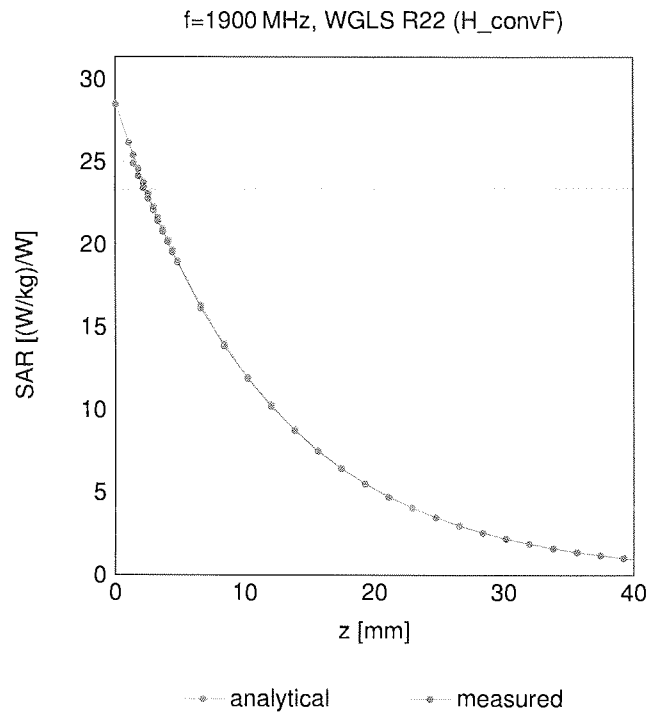
### Dynamic Range $f(\text{SAR}_{\text{head}})$

(TEM cell,  $f_{\text{eval}} = 1900\text{MHz}$ )



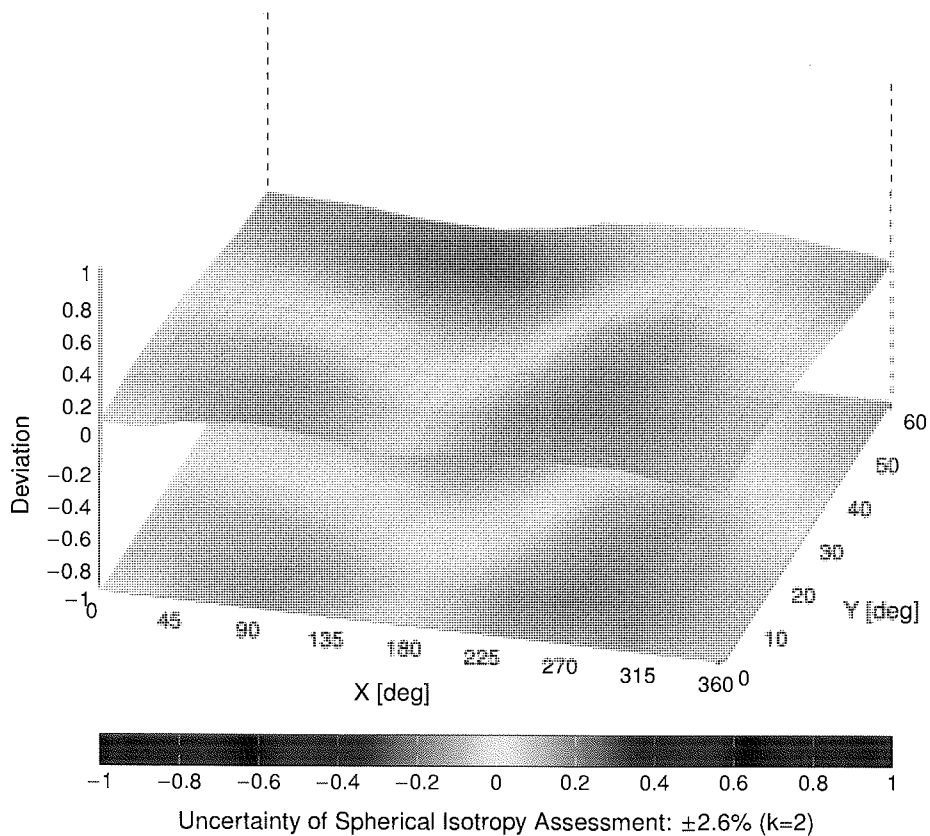
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

### Conversion Factor Assessment



### Deviation from Isotropy in Liquid

Error ( $\phi, \theta$ ), f = 900 MHz



## Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
0		CW	CW	0.00	±4.7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
10011	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	±9.6
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	±9.6
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±9.6
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	±9.6
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	±9.6
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9.6
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	±9.6
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±9.6
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	±9.6
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6
10062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
10065	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10066	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6
10067	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6
10068	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
10069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±9.6
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6
10098	CAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.6
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6
10104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6
10105	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
10108	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
10109	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10110	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6
10111	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6
10113	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10114	CAD	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10115	CAD	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6
10116	CAD	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6
10117	CAD	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6
10118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	±9.6
10119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6
10140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6
10142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6
10144	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
10147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6
10149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6
10152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6
10154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
10155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6
10157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6
10160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
10161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	±9.6
10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6
10172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10174	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.6
10176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10177	CAJ	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	±9.6
10178	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10179	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6
10182	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6
10186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10189	AAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10193	CAD	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6
10194	CAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6
10195	CAD	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6
10196	CAD	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6
10197	CAD	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6
10198	CAD	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6
10219	CAD	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6
10220	CAD	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6
10221	CAD	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6
10222	CAD	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6
10223	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6
10224	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10226	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6
10227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6
10228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6
10229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6
10232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	±9.6
10235	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10236	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	±9.6
10238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	±9.6
10241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6
10242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6
10243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	±9.6
10244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
10246	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6
10247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6
10248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6
10249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6
10250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6
10251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6
10252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6
10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6
10254	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6
10255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	±9.6
10257	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.6
10258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6
10259	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6
10260	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6
10261	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	±9.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	±9.6
10263	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	±9.6
10264	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6
10265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10266	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	±9.6
10267	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6
10268	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10269	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	±9.6
10270	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	±9.6
10274	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	±9.6
10275	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6
10277	CAA	PHS (QPSK)	PHS	11.81	±9.6
10278	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
10279	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	±9.6
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.6
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6
10297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	±9.6
10298	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6
10299	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6
10300	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10301	AAA	IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WiMAX	12.03	±9.6
10302	AAA	IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WiMAX	12.57	±9.6
10303	AAA	IEEE 802.16e WiMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)	WiMAX	12.52	±9.6
10304	AAA	IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC)	WiMAX	11.86	±9.6
10305	AAA	IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WiMAX	15.24	±9.6
10306	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)	WiMAX	14.67	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10307	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WiMAX	14.49	±9.6
10308	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WiMAX	14.46	±9.6
10309	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WiMAX	14.58	±9.6
10310	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WiMAX	14.57	±9.6
10311	AAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	±9.6
10313	AAA	iDEN 1:3	iDEN	10.51	±9.6
10314	AAA	iDEN 1:6	iDEN	13.48	±9.6
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10317	AAD	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	±9.6
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	±9.6
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.6
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	±9.6
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6
10400	AAE	IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6
10401	AAE	IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
10402	AAE	IEEE 802.11ac WiFi (80 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	±9.6
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6
10406	AAB	CDMA2000, RC3, SQ32, SCH0, Full Rate	CDMA2000	5.22	±9.6
10410	AAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	7.82	±9.6
10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	±9.6
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10417	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)	WLAN	8.14	±9.6
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)	WLAN	8.19	±9.6
10422	AAC	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	±9.6
10423	AAC	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	±9.6
10424	AAC	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	±9.6
10425	AAC	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	±9.6
10426	AAC	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	±9.6
10427	AAC	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	±9.6
10430	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	±9.6
10431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	±9.6
10432	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10433	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10434	AAB	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	±9.6
10435	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10447	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6
10448	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.53	±9.6
10449	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	±9.6
10450	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9.6
10451	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6
10453	AAE	Validation (Square, 10 ms, 1 ms)	Test	10.00	±9.6
10456	AAC	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	±9.6
10457	AAB	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	±9.6
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	±9.6
10460	AAB	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9.6
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.30	±9.6
10463	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10465	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10466	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10467	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10468	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10469	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10470	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10471	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6



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10472	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10473	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10474	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10475	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10477	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10478	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10480	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	±9.6
10481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10482	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	±9.6
10483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	±9.6
10484	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	±9.6
10485	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	±9.6
10486	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.38	±9.6
10487	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	±9.6
10488	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	±9.6
10489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10490	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	±9.6
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10495	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	±9.6
10496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10497	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	±9.6
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	±9.6
10500	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	±9.6
10502	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	±9.6
10503	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	±9.6
10504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10505	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10506	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10507	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	±9.6
10508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	±9.6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	±9.6
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	±9.6
10512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10513	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	±9.6
10514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10518	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10519	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	±9.6
10520	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6
10521	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	±9.6
10522	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10523	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6
10524	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	±9.6
10525	AAC	IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.36	±9.6
10526	AAC	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.42	±9.6
10527	AAC	IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.21	±9.6
10528	AAC	IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.36	±9.6
10529	AAC	IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.36	±9.6
10531	AAC	IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.43	±9.6
10532	AAC	IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10533	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.38	±9.6
10534	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.45	±9.6
10535	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	±9.6
10536	AAC	IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±9.6
10537	AAC	IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
10538	AAC	IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.54	±9.6
10540	AAC	IEEE 802.11ac WiFi (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.39	±9.6

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10541	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.46	±9.6
10542	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.65	±9.6
10543	AAC	IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6
10544	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6
10545	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10546	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6
10547	AAC	IEEE 802.11ac WiFi (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	±9.6
10548	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±9.6
10550	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	±9.6
10551	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.50	±9.6
10552	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	±9.6
10553	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.45	±9.6
10554	AAD	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.48	±9.6
10555	AAD	IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
10556	AAD	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6
10557	AAD	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.52	±9.6
10558	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.61	±9.6
10560	AAD	IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.73	±9.6
10561	AAD	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.56	±9.6
10562	AAD	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	±9.6
10563	AAD	IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	±9.6
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10583	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10584	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10585	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10586	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10587	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10588	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10589	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10590	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10591	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6
10592	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10593	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6
10594	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10595	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6
10596	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6
10597	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)	WLAN	8.72	±9.6
10598	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6
10599	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6
10600	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10601	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6
10602	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6
10603	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6
10604	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN	8.76	±9.6
10605	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9.6
10606	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10607	AAC	IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.64	±9.6
10608	AAC	IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.77	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10609	AAC	IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6
10610	AAC	IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6
10611	AAC	IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10612	AAC	IEEE 802.11ac WiFi (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10613	AAC	IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6
10614	AAC	IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6
10615	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10616	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
10617	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
10618	AAC	IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10619	AAC	IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6
10620	AAC	IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
10621	AAC	IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10622	AAC	IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6
10623	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10624	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9.6
10625	AAC	IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6
10626	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10627	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10628	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.71	±9.6
10629	AAC	IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10630	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6
10631	AAC	IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.81	±9.6
10632	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10633	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6
10634	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6
10635	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6
10636	AAD	IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10637	AAD	IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10638	AAD	IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6
10639	AAD	IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10640	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9.6
10641	AAD	IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6
10642	AAD	IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10643	AAD	IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644	AAD	IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6
10645	AAD	IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10647	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10653	AAF	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6
10654	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6
10655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6
10658	AAB	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6
10659	AAB	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6
10660	AAB	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6
10661	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	±9.6
10671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6
10674	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10675	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6
10676	AAC	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
10678	AAC	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
10679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
10680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6
10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6
10685	AAC	IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10686	AAC	IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.28	±9.6

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10687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6
10688	AAC	IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6
10689	AAC	IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9.6
10690	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10691	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6
10692	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6
10693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6
10694	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±9.6
10695	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.78	±9.6
10696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6
10697	AAC	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.61	±9.6
10698	AAC	IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6
10699	AAC	IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.82	±9.6
10700	AAC	IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.73	±9.6
10701	AAC	IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.86	±9.6
10702	AAC	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.70	±9.6
10703	AAC	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6
10705	AAC	IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN	8.69	±9.6
10706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6
10707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9.6
10708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.6
10711	AAC	IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6
10712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)	WLAN	8.67	±9.6
10713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.33	±9.6
10714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.26	±9.6
10715	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.45	±9.6
10716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.30	±9.6
10717	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle)	WLAN	8.48	±9.6
10718	AAC	IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	±9.6
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.81	±9.6
10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	±9.6
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10724	AAC	IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.90	±9.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10726	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.72	±9.6
10727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6
10728	AAC	IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	±9.6
10730	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	±9.6
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.46	±9.6
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	±9.6
10734	AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.25	±9.6
10735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	±9.6
10736	AAC	IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	±9.6
10737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.36	±9.6
10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6
10739	AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.29	±9.6
10740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6
10741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	±9.6
10742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6
10743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	±9.6
10744	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	9.16	±9.6
10745	AAC	IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.93	±9.6
10746	AAC	IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN	9.11	±9.6
10747	AAC	IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN	9.04	±9.6
10748	AAC	IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle)	WLAN	8.93	±9.6
10749	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN	8.90	±9.6
10750	AAC	IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.79	±9.6
10751	AAC	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10752	AAC	IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6

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10753	AAC	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±9.6
10754	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN	8.94	±9.6
10755	AAC	IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.64	±9.6
10756	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6
10757	AAC	IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.77	±9.6
10758	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.69	±9.6
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6
10760	AAC	IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	8.49	±9.6
10761	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.58	±9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.49	±9.6
10763	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.53	±9.6
10764	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	±9.6
10765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN	8.54	±9.6
10766	AAC	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±9.6
10767	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.6
10768	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10770	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10771	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10772	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6
10773	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	±9.6
10774	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10775	AAD	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10776	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10778	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6
10779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	±9.6
10780	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10781	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10782	AAD	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±9.6
10783	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10784	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	±9.6
10785	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	±9.6
10786	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±9.6
10787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	±9.6
10788	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10789	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	±9.6
10790	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10791	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
10792	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9.6
10794	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9.6
10796	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10797	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	±9.6
10798	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10799	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10801	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10802	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
10803	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	±9.6
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10810	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10812	AAD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10817	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10818	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	±9.6
10820	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	±9.6
10821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10822	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10823	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	±9.6
10824	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	±9.6
10825	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10827	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	±9.6
10828	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	±9.6
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	±9.6
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	±9.6
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	±9.6
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	±9.6
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10836	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	±9.6
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	±9.6
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	±9.6
10841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	±9.6
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	±9.6
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	±9.6
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	±9.6
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10864	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	±9.6
10869	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10870	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	±9.6
10871	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10872	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	±9.6
10873	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10874	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10875	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	±9.6
10878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10879	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	±9.6
10880	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	±9.6
10881	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10882	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	±9.6
10883	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
10884	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9.6
10885	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10886	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10887	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10888	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	±9.6
10889	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	±9.6
10890	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	±9.6
10891	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	±9.6
10892	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10897	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	±9.6
10898	AAB	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10900	AAB	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10901	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10902	AAB	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10903	AAB	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10904	AAB	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10905	AAB	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10906	AAB	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10907	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6
10908	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10909	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	±9.6
10910	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6



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10911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10912	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10913	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10914	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
10915	AAB	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6
10916	AAB	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10917	AAB	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10918	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10919	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10921	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	±9.6
10923	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10924	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10925	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	±9.6
10926	AAB	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10927	AAB	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10929	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10931	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10937	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.6
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
10940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10944	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9.6
10945	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10948	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	±9.6
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	±9.6
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	±9.6
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.6
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	±9.6
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	±9.6
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	±9.6
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.6
10960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	±9.6
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	±9.6
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	±9.6
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	±9.6
10964	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	±9.6
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	±9.6
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	±9.6
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	±9.6
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	±9.6
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	±9.6
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	±9.6
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	±9.6
10978	AAA	ULLA BDR	ULLA	1.16	±9.6
10979	AAA	ULLA HDR4	ULLA	8.58	±9.6
10980	AAA	ULLA HDR8	ULLA	10.32	±9.6
10981	AAA	ULLA HDRp4	ULLA	3.19	±9.6
10982	AAA	ULLA HDRp8	ULLA	3.43	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> <i>k</i> = 2
10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	±9.6
10984	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	±9.6
10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	±9.6
10986	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	±9.6
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.53	±9.6
10988	AAA	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.38	±9.6
10989	AAA	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	±9.6
10990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	±9.6
11003	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	10.24	±9.6
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	10.73	±9.6
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.70	±9.6
11006	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.55	±9.6
11007	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.46	±9.6
11008	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.51	±9.6
11009	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.76	±9.6
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.95	±9.6
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.96	±9.6
11012	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.68	±9.6
11013	AAA	IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
11014	AAA	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	±9.6
11015	AAA	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
11016	AAA	IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)	WLAN	8.44	±9.6
11017	AAA	IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)	WLAN	8.41	±9.6
11018	AAA	IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle)	WLAN	8.40	±9.6
11019	AAA	IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
11020	AAA	IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.27	±9.6
11021	AAA	IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8.46	±9.6
11022	AAA	IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.36	±9.6
11023	AAA	IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8.09	±9.6
11024	AAA	IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	±9.6
11025	AAA	IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.37	±9.6
11026	AAA	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	±9.6

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.





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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **B.V. ADT**  
**Taoyuan City**

Certificate No. **EX-7736\_Feb24**

**CALIBRATION CERTIFICATE**

Object **EX3DV4 - SN:7736**

Calibration procedure(s) **QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,  
QA CAL-25.v8**  
**Calibration procedure for dosimetric E-field probes**

Calibration date **February 01, 2024**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.  
All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3) °C and humidity < 70%.  
Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
OCP DAK-3.5 (weighted)	SN: 1249	05-Oct-23 (OCP-DAK3.5-1249_Oct23)	Oct-24
OCP DAK-12	SN: 1016	05-Oct-23 (OCP-DAK12-1016_Oct23)	Oct-24
Reference 20 dB Attenuator	SN: CC2552 (20x)	30-Mar-23 (No. 217-03809)	Mar-24
DAE4	SN: 660	16-Mar-23 (No. DAE4-660_Mar23)	Mar-24
Reference Probe EX3DV4	SN: 7349	03-Nov-23 (No. EX3-7349_Nov23)	Nov-24

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check: Jun-24
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

	Name	Function	Signature
Calibrated by	Jeton Kastrati	Laboratory Technician	
Approved by	Sven Kühn	Technical Manager	

Issued: February 01, 2024

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

## Glossary

TSL	tissue simulating liquid
NORM <sub>x,y,z</sub>	sensitivity in free space
ConvF	sensitivity in TSL / NORM <sub>x,y,z</sub>
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization $\varphi$	$\varphi$ rotation around probe axis
Polarization $\vartheta$	$\vartheta$ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

## Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices – Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

## Methods Applied and Interpretation of Parameters:

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(f)<sub>x,y,z</sub> = NORM<sub>x,y,z</sub> \* frequency\_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A<sub>x,y,z</sub>; B<sub>x,y,z</sub>; C<sub>x,y,z</sub>; D<sub>x,y,z</sub>; VR<sub>x,y,z</sub>; A, B, C, D** are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for  $f \leq 800$  MHz) and inside waveguide using analytical field distributions based on power measurements for  $f > 800$  MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM<sub>x,y,z</sub> \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from  $\pm 50$  MHz to  $\pm 100$  MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM<sub>x</sub> (no uncertainty required).

### Parameters of Probe: EX3DV4 - SN:7736

#### Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm ( $\mu V/(V/m)^2$ ) <sup>A</sup>	0.47	0.47	0.47	±10.1%
DCP (mV) <sup>B</sup>	106.3	103.9	105.0	±4.7%

#### Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\sqrt{\mu V}$	C	D dB	VR mV	Max dev.	Max Unc <sup>E</sup> k = 2
0	CW	X	0.00	0.00	1.00	0.00	144.4	±1.4%	±4.7%
		Y	0.00	0.00	1.00		127.6		
		Z	0.00	0.00	1.00		142.5		
10352	Pulse Waveform (200Hz, 10%)	X	1.36	60.00	5.92	10.00	60.0	±3.0%	±9.6%
		Y	1.60	61.31	7.13		60.0		
		Z	1.37	60.00	5.91		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	0.82	60.00	4.80	6.99	80.0	±2.6%	±9.6%
		Y	0.77	60.00	5.30		80.0		
		Z	0.81	60.00	4.74		80.0		
10354	Pulse Waveform (200Hz, 40%)	X	0.13	141.95	0.05	3.98	95.0	±2.9%	±9.6%
		Y	0.00	119.29	0.79		95.0		
		Z	0.04	130.28	0.14		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	5.20	72.38	0.59	2.22	120.0	±1.9%	±9.6%
		Y	2.97	159.97	0.71		120.0		
		Z	5.59	160.00	13.53		120.0		
10387	QPSK Waveform, 1 MHz	X	0.79	71.23	17.00	1.00	150.0	±4.0%	±9.6%
		Y	0.46	62.34	11.14		150.0		
		Z	0.66	66.43	13.81		150.0		
10388	QPSK Waveform, 10 MHz	X	1.74	70.73	16.59	0.00	150.0	±0.9%	±9.6%
		Y	1.22	64.78	13.21		150.0		
		Z	1.47	67.32	14.70		150.0		
10396	64-QAM Waveform, 100 kHz	X	1.76	65.73	17.07	3.01	150.0	±1.2%	±9.6%
		Y	1.57	63.49	15.39		150.0		
		Z	1.62	63.99	15.78		150.0		
10399	64-QAM Waveform, 40 MHz	X	3.01	67.78	16.10	0.00	150.0	±2.3%	±9.6%
		Y	2.70	65.63	14.76		150.0		
		Z	2.92	66.84	15.47		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	3.96	67.03	15.97	0.00	150.0	±3.8%	±9.6%
		Y	3.85	66.09	15.33		150.0		
		Z	3.90	66.37	15.54		150.0		

Note: For details on UID parameters see Appendix

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%.

<sup>A</sup> The uncertainties of Norm X,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Pages 5 and 6).

<sup>B</sup> Linearization parameter uncertainty for maximum specified field strength.

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

**Parameters of Probe: EX3DV4 - SN:7736****Sensor Model Parameters**

	C1 fF	C2 fF	$\alpha$ V <sup>-1</sup>	T1 msV <sup>-2</sup>	T2 msV <sup>-1</sup>	T3 ms	T4 V <sup>-2</sup>	T5 V <sup>-1</sup>	T6
x	9.3	67.58	33.71	4.34	0.00	4.90	0.48	0.00	1.00
y	10.0	73.66	34.82	2.52	0.00	4.98	0.18	0.04	1.00
z	9.8	71.92	34.16	3.69	0.00	4.90	0.39	0.00	1.00

**Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle	-40.3°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

**Note:** Measurement distance from surface can be increased to 3–4 mm for an *Area Scan* job.

**Parameters of Probe: EX3DV4 - SN:7736****Calibration Parameter Determined in Head Tissue Simulating Media**

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
750	41.9	0.89	8.34	9.42	8.80	0.39	1.27	±12.0%
835	41.5	0.90	8.36	9.09	8.77	0.39	1.27	±12.0%
1450	40.5	1.20	7.40	8.34	8.02	0.50	1.27	±12.0%
1750	40.1	1.37	7.24	8.18	7.82	0.28	1.27	±12.0%
1900	40.0	1.40	6.94	7.82	7.55	0.29	1.27	±12.0%
2000	40.0	1.40	6.91	7.74	7.48	0.30	1.27	±12.0%
2300	39.5	1.67	6.79	7.58	7.34	0.31	1.27	±12.0%
2450	39.2	1.80	6.71	7.47	7.25	0.31	1.27	±12.0%
2600	39.0	1.96	6.65	7.40	7.18	0.30	1.27	±12.0%
3300	38.2	2.71	6.42	7.13	6.91	0.36	1.27	±14.0%
3500	37.9	2.91	6.32	7.02	6.79	0.36	1.27	±14.0%
3700	37.7	3.12	6.26	6.97	6.72	0.37	1.27	±14.0%
3900	37.5	3.32	6.17	6.86	6.62	0.38	1.27	±14.0%
4100	37.2	3.53	6.06	6.71	6.48	0.38	1.27	±14.0%
4200	37.1	3.63	6.00	6.65	6.40	0.38	1.27	±14.0%
4400	36.9	3.84	5.93	6.55	6.32	0.38	1.27	±14.0%
4600	36.7	4.04	5.86	6.47	6.24	0.38	1.27	±14.0%
4800	36.4	4.25	5.79	6.41	6.18	0.38	1.27	±14.0%
4950	36.3	4.40	5.50	6.03	5.85	0.46	1.36	±14.0%
5250	35.9	4.71	5.16	5.63	5.42	0.38	1.62	±14.0%
5600	35.5	5.07	4.49	4.85	4.71	0.42	1.75	±14.0%
5800	35.3	5.27	4.31	4.81	4.60	0.43	1.86	±14.0%

<sup>C</sup> Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

<sup>F</sup> The probes are calibrated using tissue simulating liquids (TSL) that deviate for  $\epsilon$  and  $\sigma$  by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10%. If TSL with deviations from the target of less than ±5% are used, the calibration uncertainties are 11.1% for 0.7 - 3 GHz and 13.1% for 3 - 6 GHz.

<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

## Parameters of Probe: EX3DV4 - SN:7736

### Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
6500	34.5	6.07	4.99	5.45	5.32	0.20	2.00	±18.6%

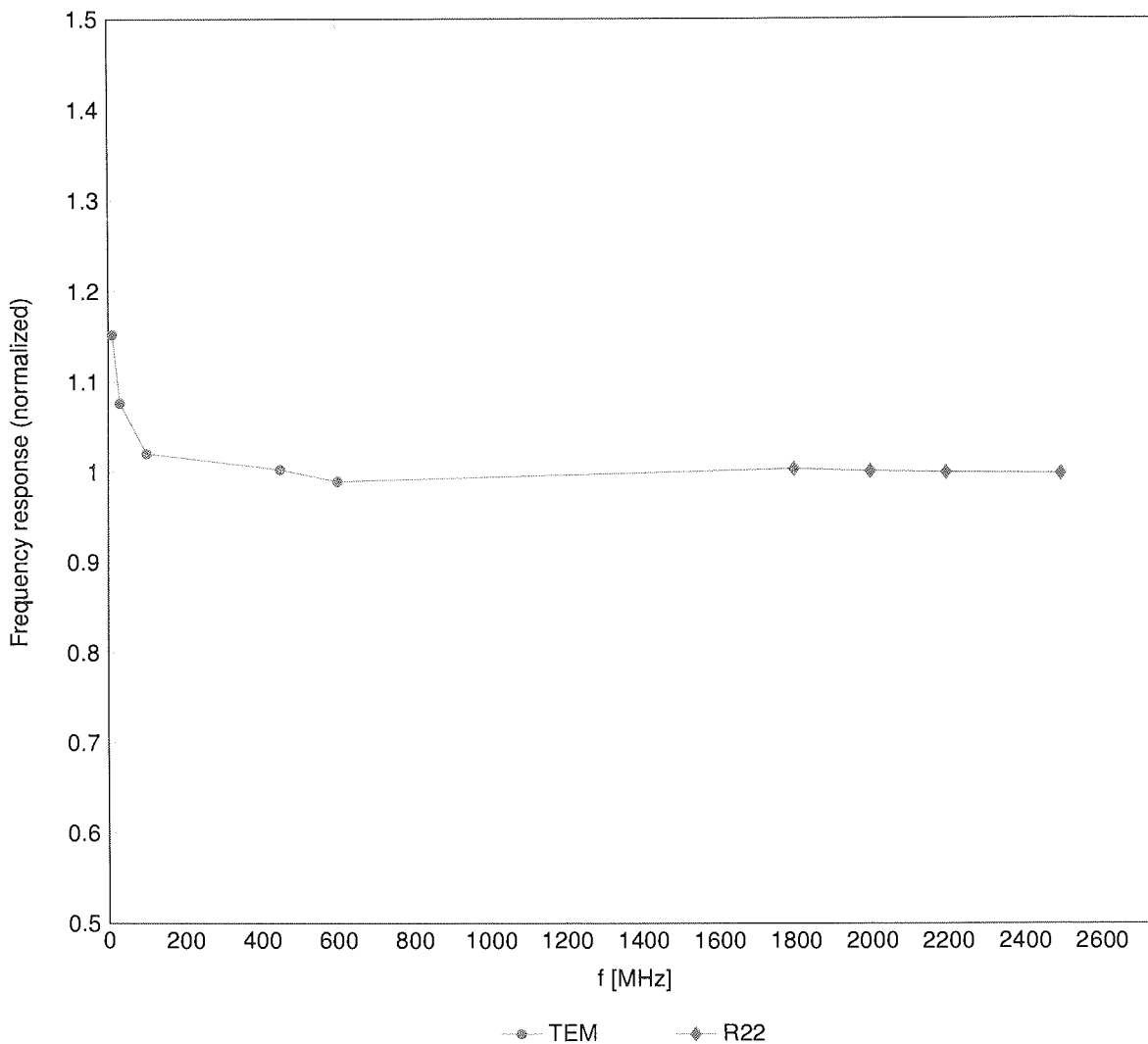
<sup>C</sup> Frequency validity at 6.5 GHz is -600/+700 MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

<sup>F</sup> The probes are calibrated using tissue simulating liquids (TSL) that deviate for  $\epsilon$  and  $\sigma$  by less than ±10% from the target values (typically better than ±6%) and are valid for TSL with deviations of up to ±10%.

<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz; below ±2% for frequencies between 3–6 GHz; and below ±4% for frequencies between 6–10 GHz at any distance larger than half the probe tip diameter from the boundary.

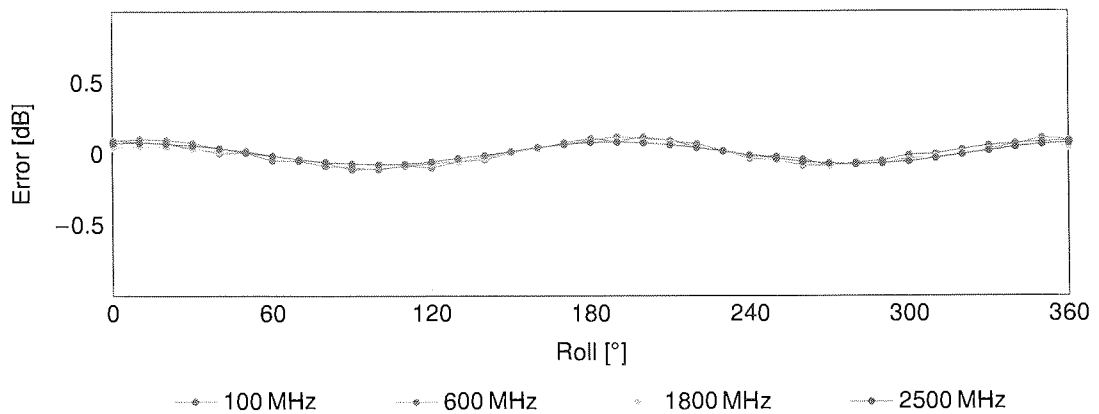
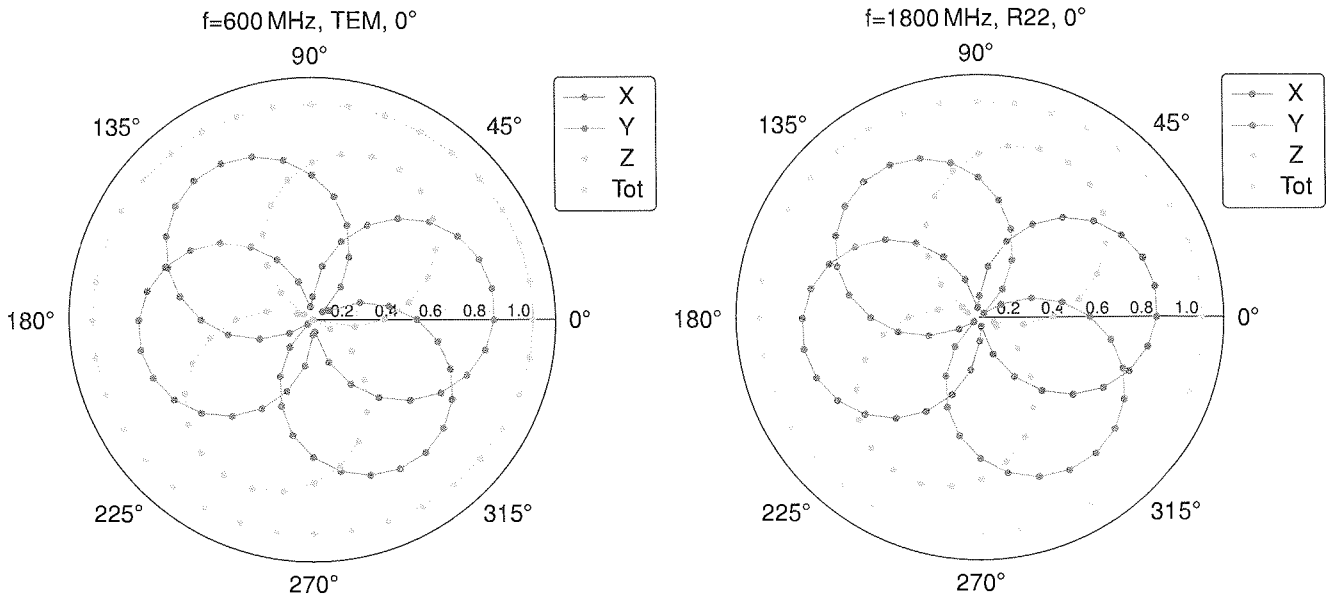
### Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide:R22)



Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  (k=2)

### Receiving Pattern ( $\phi$ ), $\vartheta = 0^\circ$

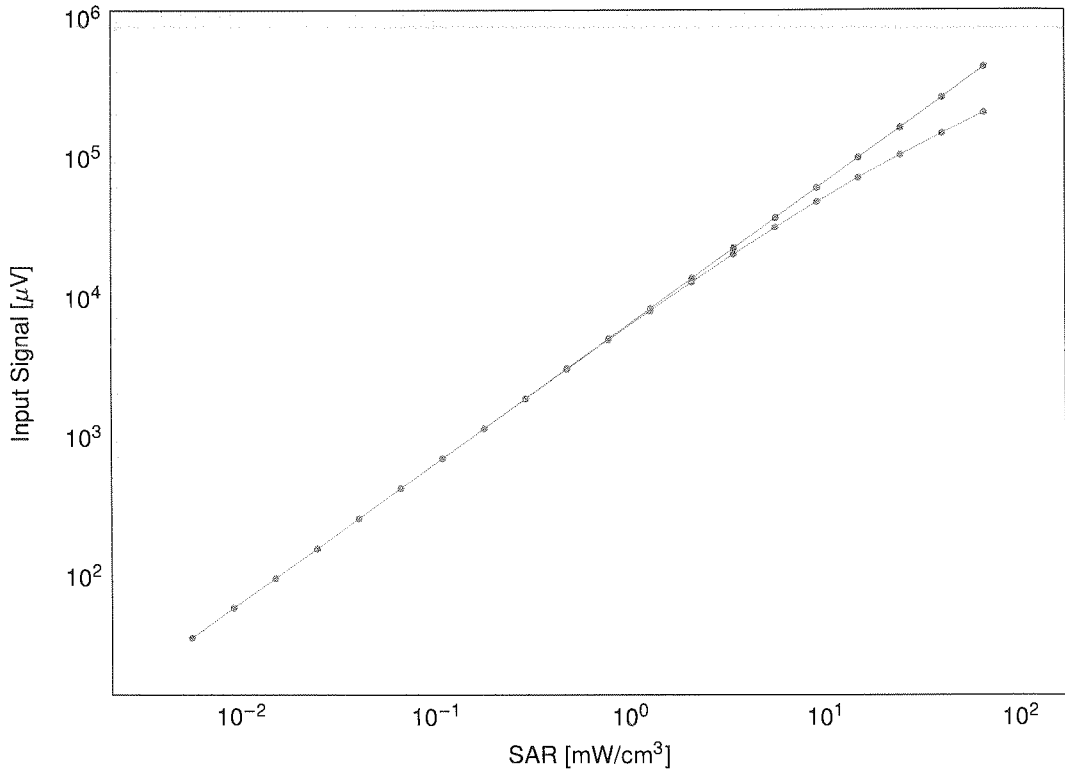


Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

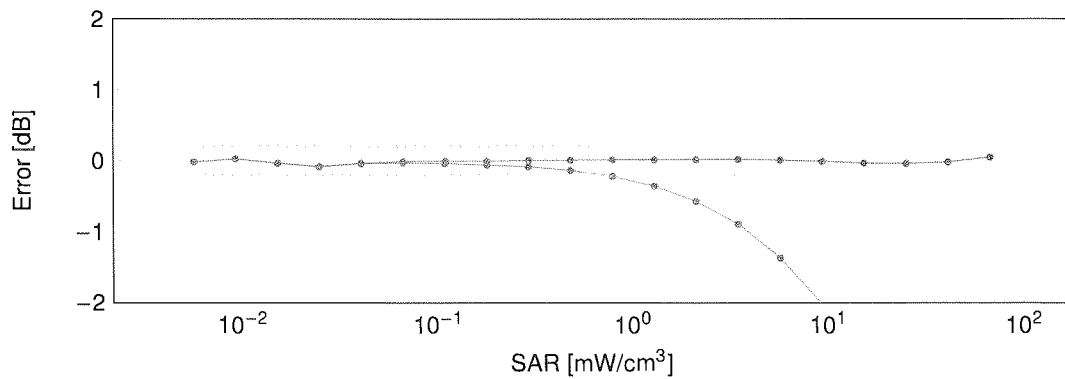


### Dynamic Range $f(\text{SAR}_{\text{head}})$

(TEM cell,  $f_{\text{eval}} = 1900\text{MHz}$ )



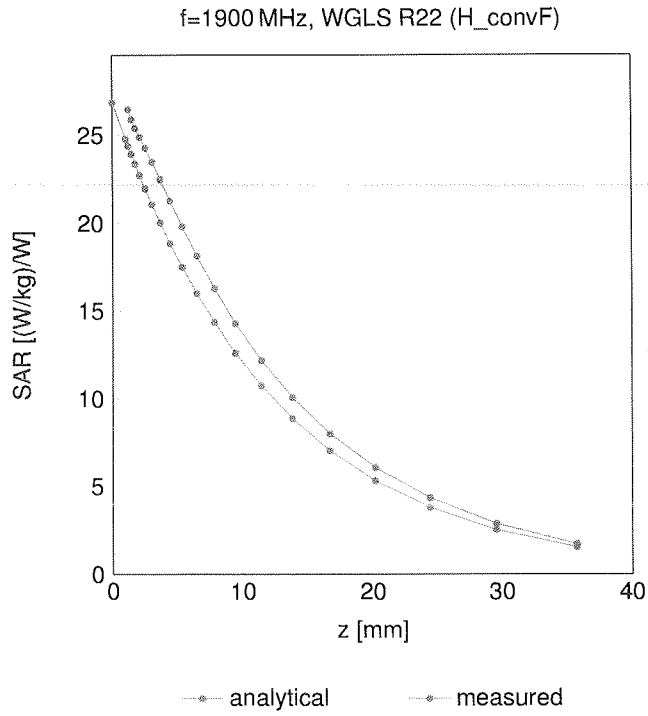
—○— not compensated      - -○- - compensated



—○— not compensated      - -○- - compensated

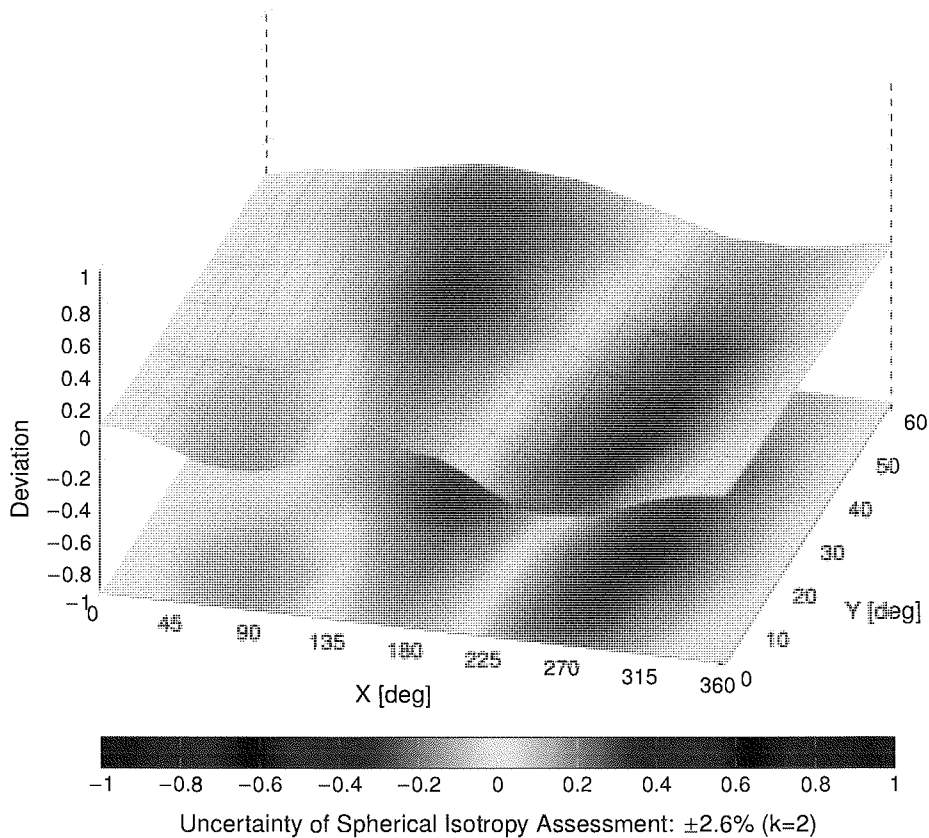
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

### Conversion Factor Assessment



### Deviation from Isotropy in Liquid

Error ( $\phi, \theta$ ), f = 900 MHz



### Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
0		CW	CW	0.00	±4.7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
10011	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	±9.6
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	±9.6
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±9.6
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	±9.6
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	±9.6
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9.6
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	±9.6
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±9.6
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	±9.6
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6
10062	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
10063	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
10065	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10066	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6
10067	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6
10068	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
10069	CAE	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±9.6
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6
10098	CAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.6
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6
10104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6
10105	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
10108	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
10109	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10110	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6
10111	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	±9.6