

Appendix A

Detailed System Check Results

System Performance Check
System Performance Check 835 MHz Head
System Performance Check 1750 MHz Head
System Performance Check 1900 MHz Head
System Performance Check 2450 MHz Head
System Performance Check 2600 MHz Head
System Performance Check 5250 MHz Head
System Performance Check 5600 MHz Head
System Performance Check 5750 MHz Head

Test Laboratory: SGS-SAR Lab

System Performance Check 835 MHz Head

DUT: D835V2; Type: D835V2; Serial: 4d105

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: f = 835 MHz; $\sigma = 0.888$ S/m; $\varepsilon_r = 43.127$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3748; ConvF(8.76, 8.76, 8.76); Calibrated: 2019-06-19

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn1267; Calibrated: 2019-12-17

• Phantom: SAM 7; Type: SAM; Serial: 1027

• DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=15mm, Pin=250mW/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 2.94 W/kg

Body/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

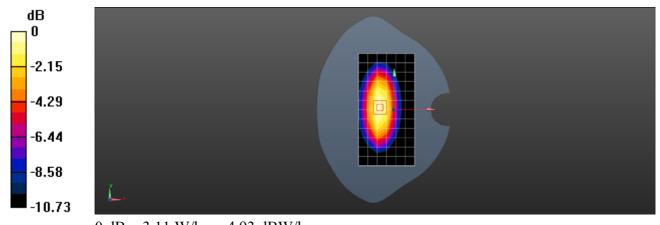
dy=8mm, dz=5mm

Reference Value = 52.11 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.56 W/kg

Maximum value of SAR (measured) = 3.11 W/kg



0 dB = 3.11 W/kg = 4.93 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 835 MHz Head

DUT: D835V2; Type: D835V2; Serial: 4d105

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: f = 835 MHz; $\sigma = 0.886$ S/m; $\varepsilon_r = 40.849$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3748; ConvF(8.76, 8.76, 8.76); Calibrated: 2019-06-19

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn1267; Calibrated: 2019-12-17

• Phantom: SAM 7; Type: SAM; Serial: 1027

• DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=15mm, Pin=250mW/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 2.99 W/kg

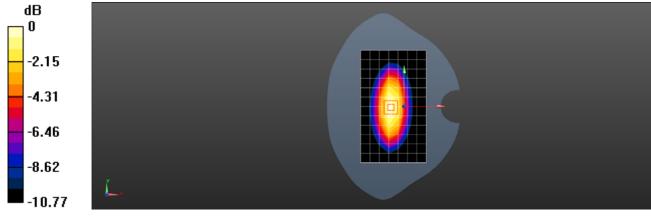
Body/d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 53.85 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.78 W/kg

SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.62 W/kgMaximum value of SAR (measured) = 3.15 W/kg



0 dB = 3.15 W/kg = 4.98 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 1750 MHz Head

DUT: D1750V2; Type: D1750V2; Serial: 1149

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used: f = 1750 MHz; $\sigma = 1.347$ S/m; $\varepsilon_r = 40.949$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3982; ConvF(8.8, 8.8, 8.8); Calibrated: 2019-09-11

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn1428; Calibrated: 2020-03-03

• Phantom: SAM 3; Type: SAM; Serial: 1912

• DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=10mm, Pin=250mW/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 10.4 W/kg

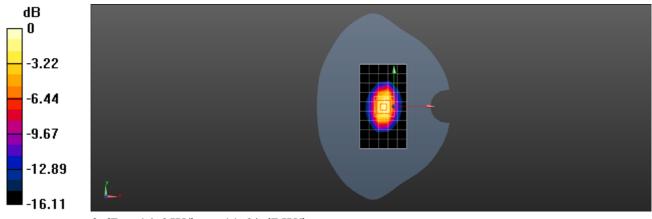
Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 89.65 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 17.1 W/kg

SAR(1 g) = 9.71 W/kg; SAR(10 g) = 5.08 W/kg Maximum value of SAR (measured) = 14.6 W/kg



0 dB = 14.6 W/kg = 11.64 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 1900 MHz Head

DUT: D1900V2; Type: D1900V2; Serial: 5d028

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium parameters used: f = 1900 MHz; $\sigma = 1.431$ S/m; $\varepsilon_r = 39.92$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3982; ConvF(8.48, 8.48, 8.48); Calibrated: 2019-09-11

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn896; Calibrated: 2019-09-18

• Phantom: SAM 3; Type: SAM; Serial: 1912

• DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=10mm, Pin=250mW/Area Scan (8x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 9.98 W/kg

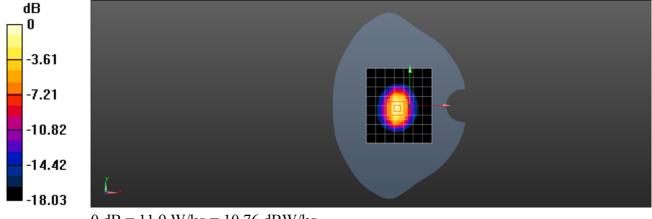
Body/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dv=8mm, dz=5mm

Reference Value = 88.89 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 19.6 W/kg

SAR(1 g) = 10.57 W/kg; SAR(10 g) = 5.47 W/kg

Maximum value of SAR (measured) = 11.9 W/kg



0 dB = 11.9 W/kg = 10.76 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 2450MHz Head

DUT: D2450V2; Type: D2450V2; Serial: 733

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium parameters used: f = 2450 MHz; $\sigma = 1.803$ S/m; $\varepsilon_r = 40.177$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3923; ConvF(7.87, 7.87, 7.87); Calibrated: 2019-10-22

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn896; Calibrated: 2019-09-18

• Phantom: SAM 2; Type: SAM; Serial: 1913

• DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=10mm, Pin=250mW/Area Scan (9x10x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 15.7 W/kg

Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

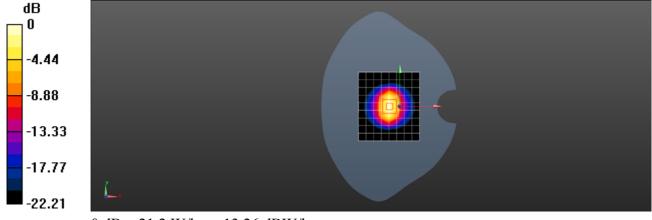
dy=5mm, dz=5mm

Reference Value = 91.5 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 25.6 W/kg

SAR(1 g) = 13 W/kg; SAR(10 g) = 6.08 W/kg

Maximum value of SAR (measured) = 21.2 W/kg



0 dB = 21.2 W/kg = 13.26 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 2600MHz Head

DUT: D2600V2; Type: D2600V2; Serial: 1125

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: f = 2600 MHz; $\sigma = 1.98$ S/m; $\varepsilon_r = 40.375$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn896; Calibrated: 2019-09-18

• Phantom: SAM 2; Type: SAM; Serial: 1913

• DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=10mm, Pin=250mW/Area Scan (9x9x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 14.4 W/kg

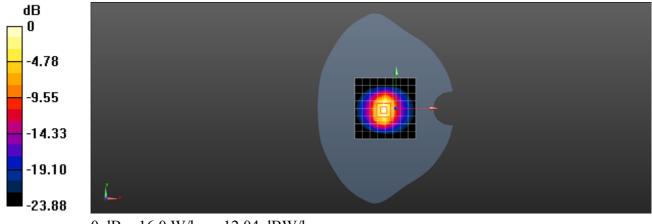
Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dv=5mm, dz=5mm

Reference Value = 88.53 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 31.6 W/kg

SAR(1 g) = 14 W/kg; SAR(10 g) = 6.19 W/kg

Maximum value of SAR (measured) = 16.0 W/kg



0 dB = 16.0 W/kg = 12.04 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 2600MHz Head

DUT: D2600V2; Type: D2600V2; Serial: 1125

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: f = 2600 MHz; $\sigma = 1.993$ S/m; $\varepsilon_r = 39.389$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3923; ConvF(7.74, 7.74, 7.74); Calibrated: 2019-10-22

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn896; Calibrated: 2019-09-18

• Phantom: SAM 2; Type: SAM; Serial: 1913

• DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=10mm, Pin=250mW/Area Scan (9x10x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 17.2 W/kg

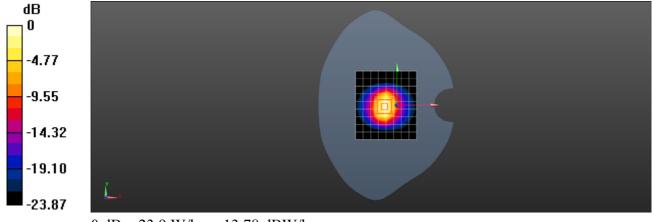
Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 89.93 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 29.3 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.28 W/kgMaximum value of SAR (measured) = 23.9 W/kg



0 dB = 23.9 W/kg = 13.78 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 5.25GHz Head

DUT: D5GHzV2; Type: D5GHzV2; Serial: 1165

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: HSL5G; Medium parameters used: f = 5250 MHz; $\sigma = 4.716$ S/m; $\varepsilon_r = 35.725$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3923; ConvF(5.34, 5.34, 5.34); Calibrated: 2019-10-22

• Sensor-Surface: 2mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn896; Calibrated: 2019-09-18

• Phantom: SAM 1; Type: SAM; Serial: 1640

• DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (10x10x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.5 W/kg

Body/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (8x8x7)/Cube 0: Measurement

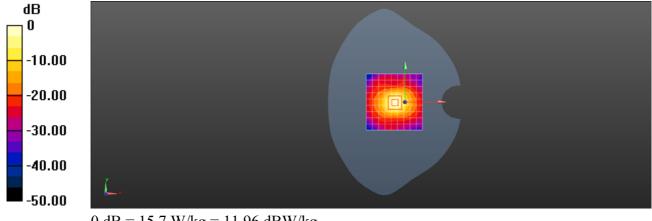
grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 66.10 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 27.4 W/kg

SAR(1 g) = 6.88 W/kg; SAR(10 g) = 2.01 W/kg

Maximum value of SAR (measured) = 15.7 W/kg



0 dB = 15.7 W/kg = 11.96 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 5.6GHz Head

DUT: D5GHzV2; Type: D5GHzV2; Serial: 1165

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: HSL5G; Medium parameters used: f = 5600 MHz; $\sigma = 5.099$ S/m; $\varepsilon_r = 34.858$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3923; ConvF(4.9, 4.9, 4.9); Calibrated: 2019-10-22

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn896; Calibrated: 2019-09-18

• Phantom: SAM 1; Type: SAM; Serial: 1640

• DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=10mm, Pin=100mW, f=5600 MHz/Area Scan (10x10x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 16.2 W/kg

Body/d=10mm, Pin=100mW, f=5600 MHz/Zoom Scan (8x8x7)/Cube 0: Measurement

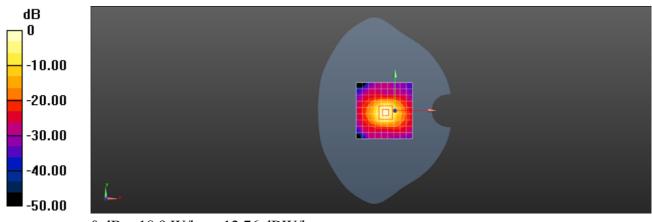
grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 62.20 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 34.5 W/kg

SAR(1 g) = 7.51 W/kg; SAR(10 g) = 2.12 W/kg

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



0 dB = 18.9 W/kg = 12.76 dBW/kg

Test Laboratory: SGS-SAR Lab

System Performance Check 5.75GHz Head

DUT: D5GHzV2; Type: D5GHzV2; Serial: 1165

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: HSL5G; Medium parameters used: f = 5750 MHz; $\sigma = 5.293$ S/m; $\varepsilon_r = 34.677$; $\rho = 1000$

 kg/m^3

Phantom section: Flat Section

DASY 5 Configuration:

• Probe: EX3DV4 - SN3923; ConvF(4.83, 4.83, 4.83); Calibrated: 2019-10-22

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn896; Calibrated: 2019-09-18

• Phantom: SAM 1; Type: SAM; Serial: 1640

• DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Body/d=10mm, Pin=100mW, f=5750 MHz/Area Scan (10x10x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 17.6 W/kg

Body/d=10mm, Pin=100mW, f=5750 MHz/Zoom Scan (8x8x7)/Cube 0: Measurement

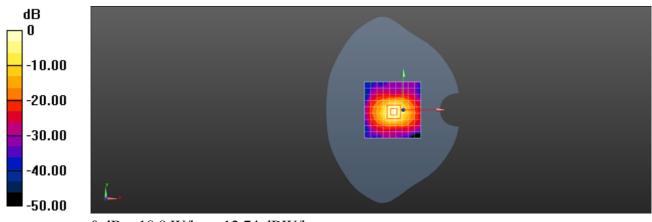
grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 62.99 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 34.6 W/kg

SAR(1 g) = 7.74 W/kg; SAR(10 g) = 2.21 W/kg

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



0 dB = 18.8 W/kg = 12.74 dBW/kg

System Validation

Per FCC KDB 865664 D02, SAR system verification is required to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles are used with the required tissue-equivalent media for system validation, according to the procedures outlined in FCC KDB 865664 D01 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point must be validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

a tabulated summary of the system validation status, measurement frequencies, SAR probes, calibrated signal type(s) and tissue dielectric parameters has been included.

Table of SAR System validation summary:

CMHz	Frequency	Date	Probe	Drobo	Probe CAL Point		PERM (εr)	COND (σ)	CW Validation			MOD.Validation		
T50									Sensitivity			Modulation	,	PAR
B35	750	2019/10/09	3982	EX3DV4	750	Head	42.116	0.857	PASS			N/A		N/A
1900	835	2019/10/09	3982		835	Head	42.233	0.904	PASS	PASS	PASS	GMSK	PASS	N/A
1900	1750	2019/10/09	3982	EX3DV4	1750	Head	40.251	1.375	PASS	PASS	PASS	N/A	N/A	N/A
3300 2019/10/09 3982 EX3DV4 3500 Head 38.739 2.639 PASS PASS PASS TDD PASS N/A 3700 2019/10/09 3982 EX3DV4 3700 Head 37.686 3.256 PASS PASS PASS TDD PASS N/A 3900 2019/10/09 3982 EX3DV4 3900 Head 37.075 3.485 PASS PASS PASS TDD PASS N/A 4100 2019/10/09 3982 EX3DV4 4100 Head 35.944 3.467 PASS PASS PASS TDD PASS N/A 4400 2019/10/09 3982 EX3DV4 4400 Head 35.944 3.467 PASS PASS PASS TDD PASS N/A 4400 2019/10/09 3982 EX3DV4 4400 Head 35.247 3.740 PASS PASS PASS TDD PASS N/A 4600 2019/10/09 3982 EX3DV4 4800 Head 38.343 3.847 PASS PASS PASS TDD PASS N/A 4950 2019/10/09 3982 EX3DV4 4950 Head 37.973 4.216 PASS PASS PASS TDD PASS N/A 4950 2019/10/28 3923 EX3DV4 4950 Head 43.278 0.910 PASS PASS PASS TDD PASS N/A 4950 2019/10/28 3923 EX3DV4 4950 Head 43.278 0.910 PASS PASS	1900	2019/10/09	3982		1900		40.284	1.389	PASS	PASS	PASS	GMSK	PASS	N/A
3700 2019/10/09 3982 EX3DV4 3700 Head 37.686 3.256 PASS PASS PASS TDD PASS N/A 3900 2019/10/09 3982 EX3DV4 3900 Head 37.075 3.485 PASS PASS PASS TDD PASS N/A 4400 2019/10/09 3982 EX3DV4 4400 Head 35.247 3.740 PASS PASS PASS TDD PASS N/A 4400 2019/10/09 3982 EX3DV4 4400 Head 35.247 3.740 PASS PASS PASS TDD PASS N/A 4800 2019/10/09 3982 EX3DV4 4800 Head 38.343 3.847 PASS PASS PASS TDD PASS N/A 4800 2019/10/09 3982 EX3DV4 4800 Head 38.252 4.182 PASS PASS PASS TDD PASS N/A 4950 2019/10/09 3982 EX3DV4 4950 Head 37.973 4.216 PASS PASS PASS TDD PASS N/A 4950 2019/10/28 3923 EX3DV4 4950 Head 43.278 0.910 PASS PASS PASS TDD PASS N/A N/A 835 2019/10/28 3923 EX3DV4 4750 Head 40.769 0.906 PASS PASS PASS PASS DID PASS N/A N/A N/A 1750 2019/10/28 3923 EX3DV4 4750 Head 40.769 0.906 PASS PASS PASS PASS M/A N/A N/A 1900 2019/10/28 3923 EX3DV4 2500 Head 41.105 1.398 PASS PASS PASS PASS M/A N/A N/A 2450 2019/10/28 3923 EX3DV4 2600 Head 38.713 1.996 PASS PASS PASS PASS N/A N/A N/A 2450 2019/10/28 3923 EX3DV4 2600 Head 38.574 1.785 PASS PASS PASS PASS N/A N/A N/A 2450 2019/10/28 3923 EX3DV4 2550 Head 38.574 1.785 PASS PASS PASS PASS N/A N/A N/A 2450 2019/10/28 3923 EX3DV4 5750 Head 38.574 1.596 PASS PASS PASS PASS N/A N/A N/A 2450 2019/10/28 3923 EX3DV4 2500 Head 38.574 1.596 PASS PASS PASS PASS N/A N/A N/A 2450 2019/10/28 3923 EX3DV4 2500 Head 38.574 1.596 PASS PASS PASS PASS OFDM PASS N/A 2500 2019/10/28 3923 EX3DV4 2500 Head 38.574 1.596 PASS PASS PASS OFDM PASS N/A 2500 2019/10/28 3748 EX3DV4 4500	3300	2019/10/09	3982	EX3DV4	3300	Head	38.739	2.639		PASS	PASS	TDD	PASS	N/A
3900 2019/10/09 3982 EX3DV4 3900 Head 37.075 3.485 PASS PASS PASS TDD PASS N/A 4100 2019/10/09 3982 EX3DV4 4400 Head 35.247 3.740 PASS PASS PASS TDD PASS N/A 4600 2019/10/09 3982 EX3DV4 4400 Head 38.343 3.847 PASS PASS PASS TDD PASS N/A 4600 2019/10/09 3982 EX3DV4 4600 Head 38.343 3.847 PASS PASS PASS TDD PASS N/A 4800 2019/10/09 3982 EX3DV4 4800 Head 38.252 4.182 PASS PASS PASS TDD PASS N/A 4950 2019/10/09 3982 EX3DV4 4950 Head 37.973 4.216 PASS PASS PASS TDD PASS N/A 4950 Pass Pass PASS PASS PASS TDD PASS N/A 4950 Pass PAS	3500	2019/10/09	3982	EX3DV4	3500	Head	38.305	3.020	PASS	PASS	PASS	TDD	PASS	N/A
4100 2019/10/09 3982 EX3DV4 4100 Head 35.944 3.467 PASS PASS PASS TDD PASS N/A 4400 2019/10/09 3982 EX3DV4 4400 Head 35.247 3.740 PASS PASS PASS TDD PASS N/A 4600 2019/10/09 3982 EX3DV4 4800 Head 38.245 4.182 PASS PASS PASS TDD PASS N/A 4800 2019/10/09 3982 EX3DV4 4800 Head 38.252 4.182 PASS PASS PASS TDD PASS N/A 4950 2019/10/09 3982 EX3DV4 4950 Head 37.973 4.216 PASS PASS PASS TDD PASS N/A 4950 2019/10/28 3923 EX3DV4 4950 Head 43.278 0.910 PASS PASS PASS PASS TDD PASS N/A 1750 2019/10/28 3923 EX3DV4 4950 Head 40.524 1.336 PASS PASS PASS PASS N/A N/A N/A 1900 2019/10/28 3923 EX3DV4 1750 Head 40.524 1.336 PASS PASS PASS PASS N/A N/A N/A 1900 2019/10/28 3923 EX3DV4 2000 Head 41.235 1.418 PASS PASS PASS PASS N/A N/A N/A 2450 2019/10/28 3923 EX3DV4 2500 Head 38.713 1.785 PASS PASS PASS PASS N/A N/A N/A 2600 2019/10/28 3923 EX3DV4 2600 Head 35.748 5.159 PASS PASS PASS PASS N/A N/A N/A 5250 2019/10/28 3923 EX3DV4 2600 Head 35.748 5.159 PASS PASS PASS PASS PASS N/A N/A N/A 5250 2019/10/28 3923 EX3DV4 2600 Head 35.748 5.159 PASS PASS PASS PASS PASS N/A N/A N/A 5250 2019/10/28 3923 EX3DV4 2600 Head 35.748 5.159 PASS PASS PASS PASS PASS N/A N/A N/A 5250 2019/10/28 3923 EX3DV4 2600 Head 35.748 5.159 PASS PASS PASS PASS PASS N/A N/A N/A 5250 2019/10/28 3923 EX3DV4 2600 Head 35.748 5.159 PASS PASS PASS PASS PASS N/A N/A N/A 5250 2019/10/28 3923 EX3DV4 2600 Head 35.748 5.159 PASS PASS PASS PASS PASS N/A N/A N/A 5250 2019/10/28 3923 EX3DV4 3560 Head 35.748 5.159 PASS PASS PASS PASS OFDM PASS	3700	2019/10/09	3982	EX3DV4	3700	Head	37.686	3.256	PASS	PASS	PASS	TDD	PASS	N/A
4400 2019/10/09 3982 EX3DV4 4400 Head 35.247 3.740 PASS PASS PASS TDD PASS N/A 4600 2019/10/09 3982 EX3DV4 4600 Head 38.343 3.847 PASS PASS PASS TDD PASS N/A 4950 2019/10/09 3982 EX3DV4 4950 Head 37.973 4.182 PASS PASS PASS TDD PASS N/A 4950 2019/10/09 3982 EX3DV4 4950 Head 37.973 4.182 PASS PASS PASS TDD PASS N/A 4950 Pass PASS	3900	2019/10/09	3982	EX3DV4	3900	Head	37.075	3.485	PASS	PASS	PASS	TDD	PASS	N/A
A600 2019/10/09 3982 EX3DV4 4600 Head 38.343 3.847 PASS PASS PASS TDD PASS N/A 4950 2019/10/09 3982 EX3DV4 4950 Head 37.973 4.216 PASS PASS PASS TDD PASS N/A 4950 2019/10/09 3982 EX3DV4 4950 Head 37.973 4.216 PASS PASS PASS TDD PASS N/A N/A N/A N/A N/A N/A A950 Probe SN Probe Probe SN Probe Probe SN Probe Probe SN Probe SN PASS PASS PASS PASS PASS TDD PASS N/A	4100	2019/10/09	3982	EX3DV4	4100	Head	35.944	3.467	PASS	PASS	PASS	TDD	PASS	N/A
A800 2019/10/09 3982 EX3DV4 4800 Head 38.252 4.182 PASS PASS PASS TDD PASS N/A 4950 A950 A950	4400	2019/10/09	3982	EX3DV4	4400	Head	35.247	3.740	PASS	PASS	PASS	TDD	PASS	N/A
Probe (MHz) Probe (MHz) Probe (MHz) Probe (MHz) Probe (NHz)	4600	2019/10/09	3982	EX3DV4	4600	Head	38.343	3.847	PASS	PASS	PASS	TDD	PASS	N/A
Probe CAL Point Probe SN Probe SN Probe CAL Point Probe CAL Point Probe CAL Point Probe Sensitivity Probe CAL Point Probe Sensitivity Probe CAL Point Probe Sensitivity Probe CAL Point Probe Sensitivity Probe Sensitivity Probe CAL Point Probe Sensitivity Probe Sensitivity	4800	2019/10/09	3982	EX3DV4	4800	Head	38.252	4.182	PASS	PASS	PASS	TDD	PASS	N/A
Proble	4950	2019/10/09	3982	EX3DV4	4950	Head	37.973	4.216				TDD	PASS	N/A
Modulation Duty Frobe Probe South Cor Cor Sensitivity Probe Inarity South Sou	Frequency							COND	CW					
750 2019/10/28 3923 EX3DV4 750 Head 43.278 0.910 PASS PASS PASS N/A N/A N/A N/A R35 2019/10/28 3923 EX3DV4 835 Head 40.769 0.906 PASS PASS PASS GMSK PASS N/A N/A									Sensitivity			Modulation	,	PAR
1750 2019/10/28 3923 EX3DV4 1750 Head 40.524 1.336 PASS PASS PASS N/A N/A N/A 1900 2019/10/28 3923 EX3DV4 1900 Head 41.235 1.418 PASS PASS PASS GMSK PASS N/A N/A N/A 2000 2019/10/28 3923 EX3DV4 2000 Head 41.105 1.398 PASS PASS PASS PASS N/A N/A N/A N/A 2450 2019/10/28 3923 EX3DV4 2450 Head 39.345 1.785 PASS PASS PASS PASS OFDM PASS N/A N/A N/A 2600 2019/10/28 3923 EX3DV4 2600 Head 38.713 1.996 PASS PASS PASS PASS DFDM PASS N/A N/A	750	2019/10/28	3923	EX3DV4	750	Head	43.278	0.910	PASS			N/A		N/A
1900 2019/10/28 3923 EX3DV4 1900 Head 41.235 1.418 PASS PASS PASS GMSK PASS N/A	835	2019/10/28	3923	EX3DV4	835	Head	40.769	0.906	PASS	PASS	PASS	GMSK	PASS	N/A
2000 2019/10/28 3923 EX3DV4 2000 Head 41.105 1.398 PASS PASS PASS N/A N/A N/A	1750	2019/10/28	3923	EX3DV4	1750	Head	40.524	1.336	PASS	PASS	PASS	N/A	N/A	N/A
2450 2019/10/28 3923 EX3DV4 2450 Head 39.345 1.785 PASS PASS PASS OFDM PASS N/A	1900	2019/10/28	3923	EX3DV4	1900	Head	41.235	1.418	PASS	PASS	PASS	GMSK	PASS	N/A
2600 2019/10/28 3923 EX3DV4 2600 Head 38.713 1.996 PASS PASS PASS TDD PASS N/A	2000	2019/10/28	3923	EX3DV4	2000	Head	41.105	1.398	PASS	PASS	PASS	N/A	N/A	N/A
5250 2019/10/28 3923 EX3DV4 5250 Head 36.570 4.625 PASS PASS PASS OFDM PASS N/A 5600 2019/10/28 3923 EX3DV4 5600 Head 35.748 5.159 PASS PASS PASS OFDM PASS N/A 5750 2019/10/28 3923 EX3DV4 5750 Head 35.384 5.309 PASS PASS PASS OFDM PASS N/A Frequency (MHz) Date	2450	2019/10/28	3923	EX3DV4	2450	Head	39.345	1.785	PASS	PASS	PASS	OFDM	PASS	N/A
Secondary Sec	2600	2019/10/28	3923	EX3DV4	2600	Head	38.713					TDD		N/A
Frequency (MHz) Date Probe SN Probe	5250	2019/10/28	3923		5250	Head	36.570	4.625				OFDM		
Frequency (MHz) Date Probe SN Probe	5600	2019/10/28	3923	EX3DV4	5600	Head	35.748	5.159	PASS	PASS	PASS	OFDM	PASS	N/A
Production	5750	2019/10/28	3923	EX3DV4	5750	Head	35.384	5.309	PASS	PASS	PASS	OFDM	PASS	N/A
(MHz)Date 750SNTypePoint(εr)(σ)SensitivityProbe Linarity LinarityProbe Isotropy IsotropyModulationDuty. FactorePAR7502019/06/283748EX3DV4750Head42.6530.898PASSPASSPASSN/AN/AN/A8352019/06/283748EX3DV4835Head41.8760.903PASSPASSPASSGMSKPASSN/A17502019/06/283748EX3DV41750Head40.8321.379PASSPASSPASSN/AN/AN/A19002019/06/283748EX3DV41900Head41.2871.415PASSPASSPASSGMSKPASSN/A24502019/06/283748EX3DV42450Head39.5911.807PASSPASSPASSOFDMPASSN/A26002019/06/283748EX3DV42600Head39.3741.993PASSPASSPASSTDDPASSN/A	Frequency		Drohe	Drohe			DEDM	COND						
750 2019/06/28 3748 EX3DV4 750 Head 42.653 0.898 PASS PASS PASS N/A N/A N/A 835 2019/06/28 3748 EX3DV4 835 Head 41.876 0.903 PASS PASS PASS GMSK PASS N/A 1750 2019/06/28 3748 EX3DV4 1750 Head 40.832 1.379 PASS PASS PASS N/A N/A N/A 1900 2019/06/28 3748 EX3DV4 1900 Head 41.287 1.415 PASS PASS PASS GMSK PASS N/A 2450 2019/06/28 3748 EX3DV4 2450 Head 39.374 1.993 PASS PASS PASS OFDM PASS N/A 2600 2019/06/28 3748 EX3DV4 2600 Head 39.374 1.993 PASS PASS PASS TDD PASS N/A		Date							Sensitivity			Modulation		PAR
835	750	2019/06/28	3748	EX3DV4	750	Head	42.653	0.898	PASS			N/A		N/A
1750 2019/06/28 3748 EX3DV4 1750 Head 40.832 1.379 PASS PASS PASS N/A N/A N/A 1900 2019/06/28 3748 EX3DV4 1900 Head 41.287 1.415 PASS PASS PASS GMSK PASS N/A 2450 2019/06/28 3748 EX3DV4 2450 Head 39.591 1.807 PASS PASS PASS OFDM PASS N/A 2600 2019/06/28 3748 EX3DV4 2600 Head 39.374 1.993 PASS PASS PASS TDD PASS N/A														
1900 2019/06/28 3748 EX3DV4 1900 Head 41.287 1.415 PASS PASS PASS GMSK PASS N/A 2450 2019/06/28 3748 EX3DV4 2450 Head 39.591 1.807 PASS PASS PASS OFDM PASS N/A 2600 2019/06/28 3748 EX3DV4 2600 Head 39.374 1.993 PASS PASS PASS TDD PASS N/A														
2450 2019/06/28 3748 EX3DV4 2450 Head 39.591 1.807 PASS PASS PASS OFDM PASS N/A 2600 2019/06/28 3748 EX3DV4 2600 Head 39.374 1.993 PASS PASS PASS TDD PASS N/A														
2600 2019/06/28 3748 EX3DV4 2600 Head 39.374 1.993 PASS PASS PASS TDD PASS N/A														
5250 2019/06/28 3748 EX3DV4 5250 Head 36.480 4.751 PASS PASS PASS OFDM PASS N/A	5250	2019/06/28	3748	EX3DV4	5250	Head	36.480	4.751	PASS	PASS	PASS	OFDM	PASS	N/A
5600 2019/06/28 3748 EX3DV4 5600 Head 35.375 5.194 PASS PASS PASS OFDM PASS N/A														
5750 2019/06/28 3748 EX3DV4 5750 Head 35.081 5.316 PASS PASS PASS OFDM PASS N/A														

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664D01 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5dB), such as OFDM according to KDB 865664.