Appendix A

Detailed Test Results

1. WCDMA
WCDMA Band II
WCDMA Band IV
WCDMA Band V
2. LTE
LTE Band 2
LTE Band 4
LTE Band 5
LTE Band 7
LTE Band 12
LTE Band 14
LTE band 30
LTE Band 66
3. WLAN
WLAN 2.4GHz
WLAN 5GHz
4. OTT
WCDMA Band II
LTE Band 66
WLAN 2.4GHz
WLAN 5GHz

Date: 2023-04-17

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-WCDMA Band II AMR Voice 9400CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz;Duty Cycle: 1:1

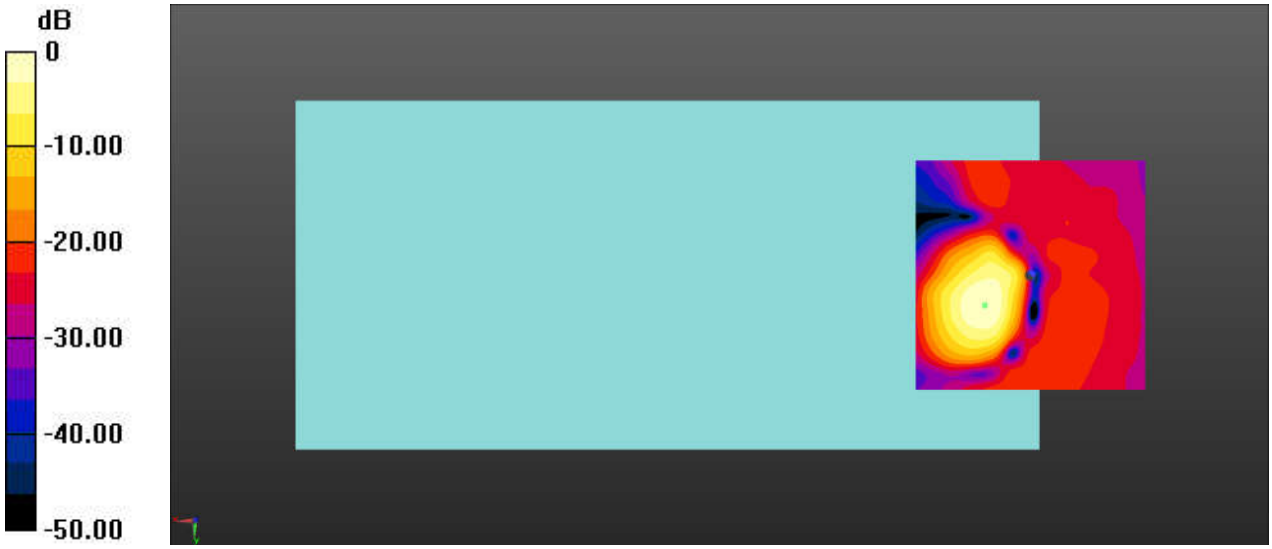
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

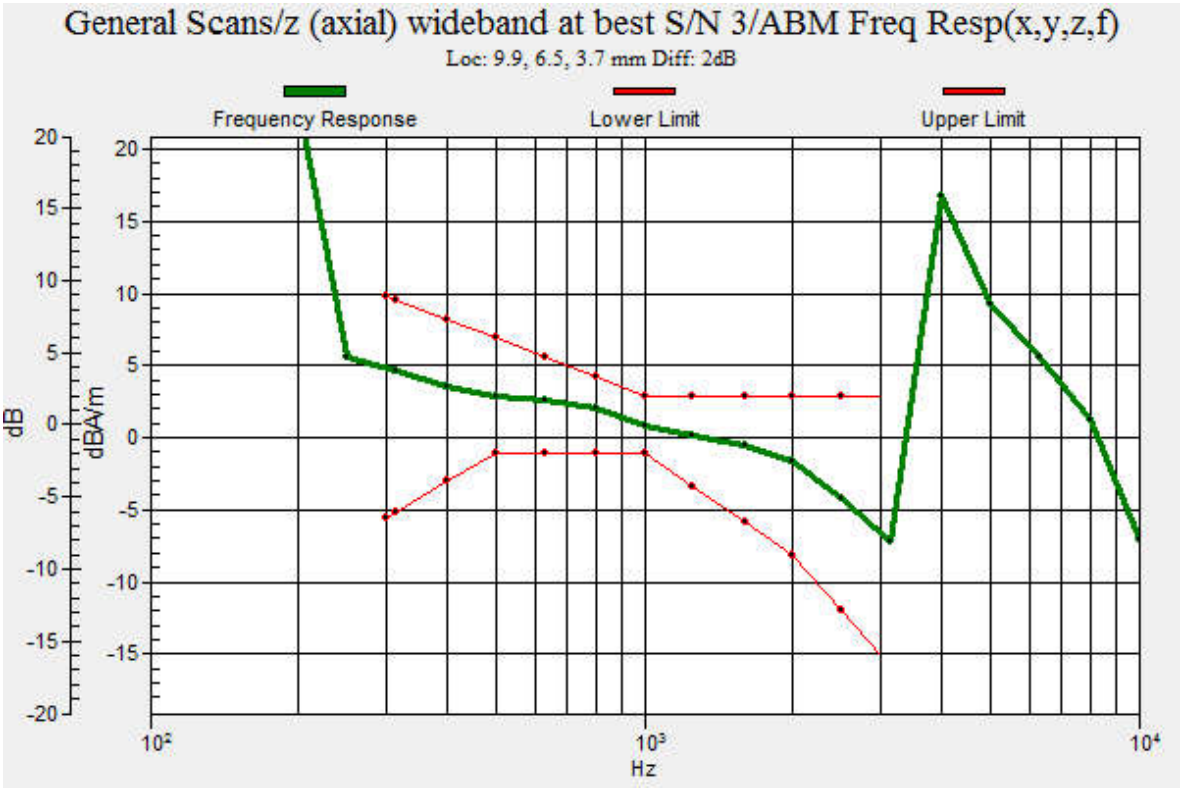
- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 46.67 dB
ABM1 comp = 2.74 dBA/m
BWC Factor = 0.16 dB
Location: 10, 6.7, 3.7 mm



0 dB = 215.4 = 46.67 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 9.9, 6.5, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
10²
10³
10⁴

Date: 2023-04-17

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-WCDMA Band II AMR Voice 9400CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz;Duty Cycle: 1:1

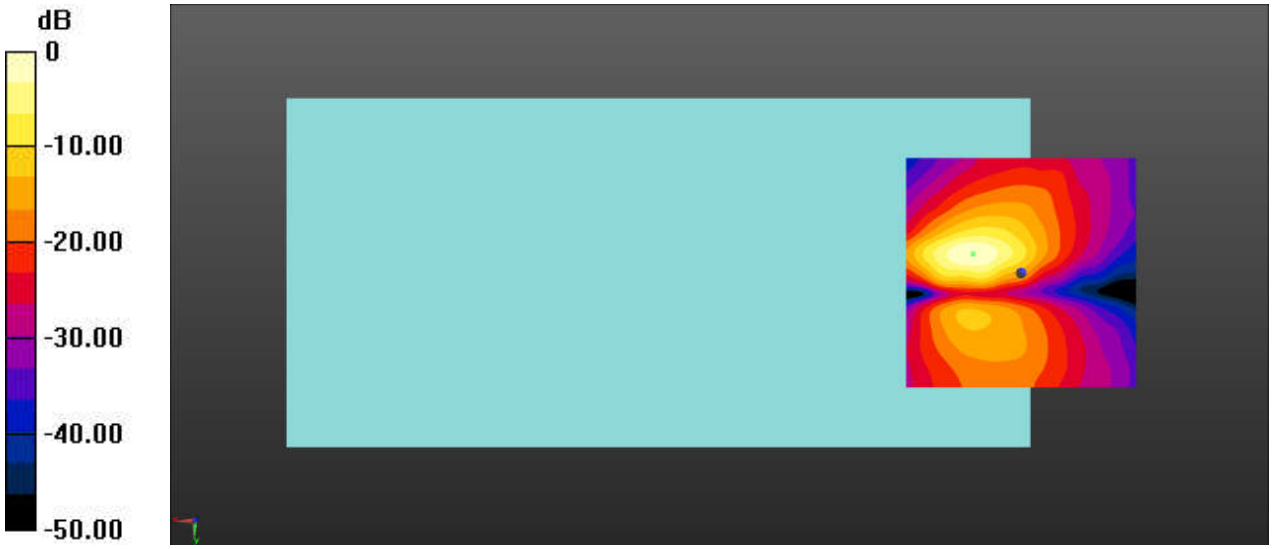
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 48.44 dB
ABM1 comp = -1.32 dBA/m
BWC Factor = 0.16 dB
Location: 10.4, -4.2, 3.7 mm



0 dB = 264.3 = 48.44 dB

Date: 2023-04-17

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-WCDMA Band IV AMR Voice 1412CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

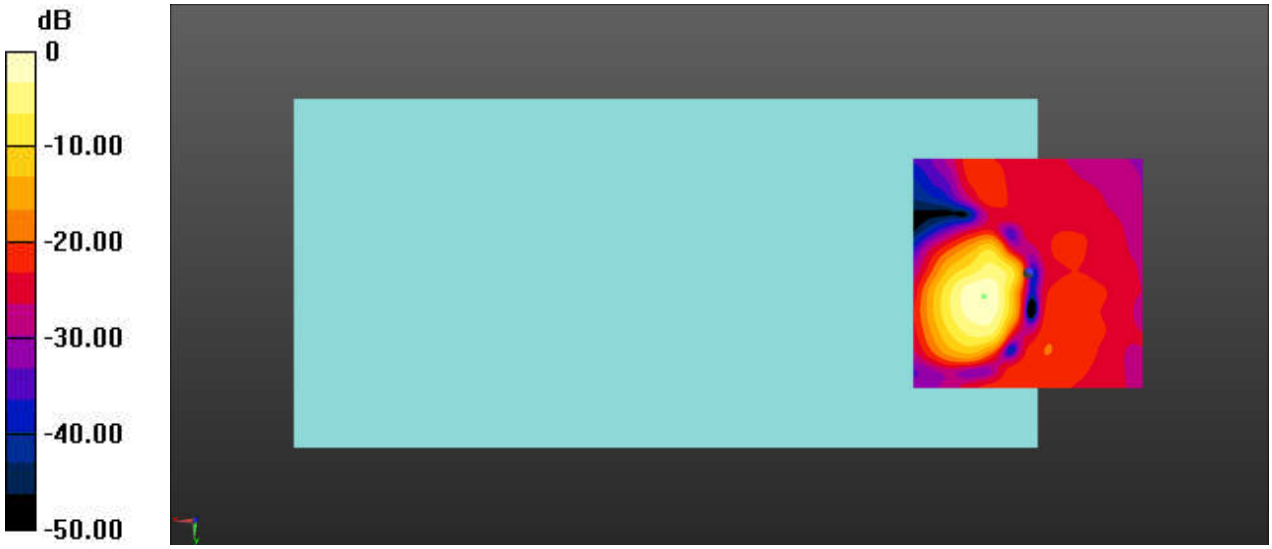
Communication System: UID 0, WCDMA (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1

Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

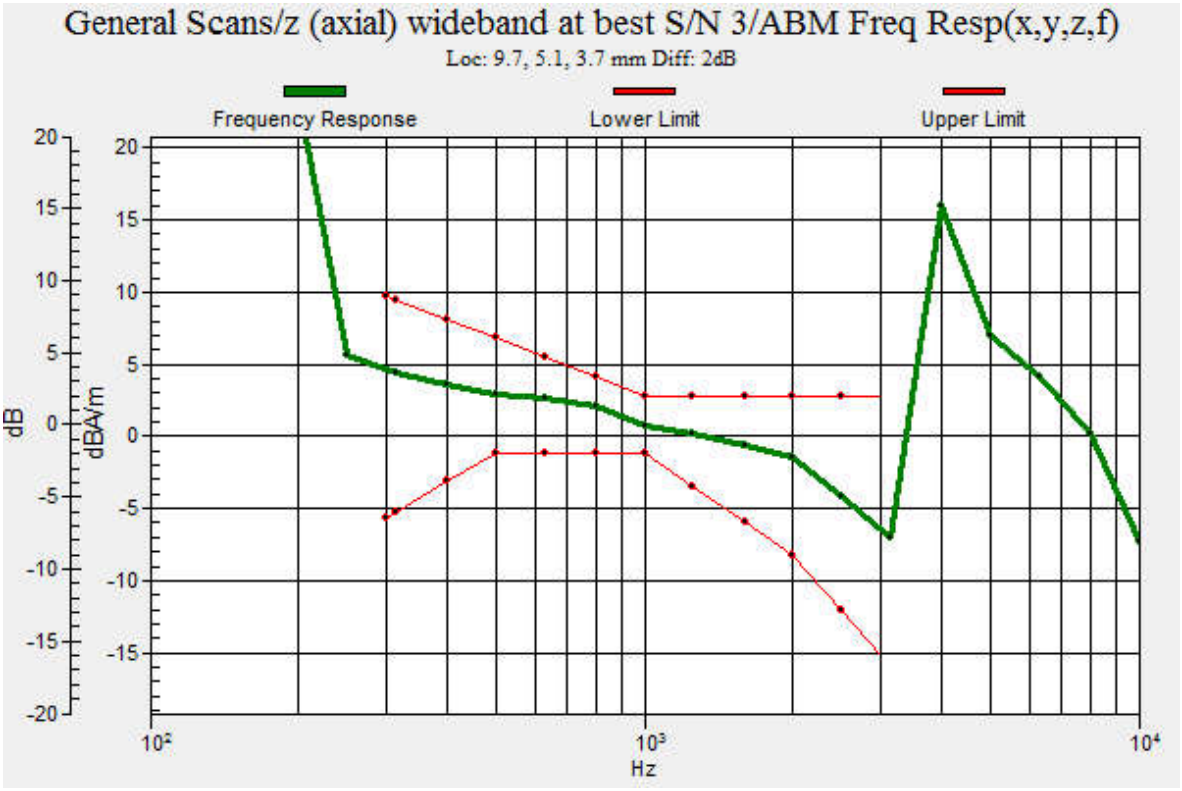
DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 46.33 dB
ABM1 comp = 2.48 dBA/m
BWC Factor = 0.16 dB
Location: 9.6, 5, 3.7 mm



0 dB = 207.4 = 46.33 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 9.7, 5.1, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
10²
10³
10⁴

Date: 2023-04-17

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-WCDMA Band IV AMR Voice 1412CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, WCDMA (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1

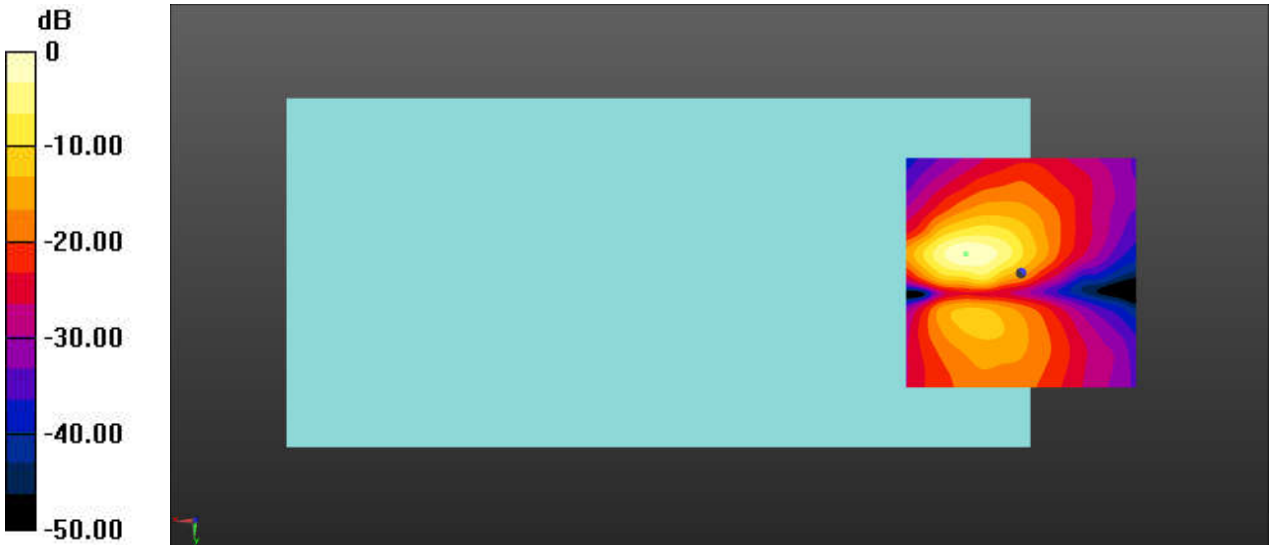
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 48.21 dB
ABM1 comp = -0.58 dBA/m
BWC Factor = 0.16 dB
Location: 12.1, -4.2, 3.7 mm



0 dB = 257.5 = 48.21 dB

Date: 2023-04-17

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-WCDMA Band V AMR Voice 4182CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

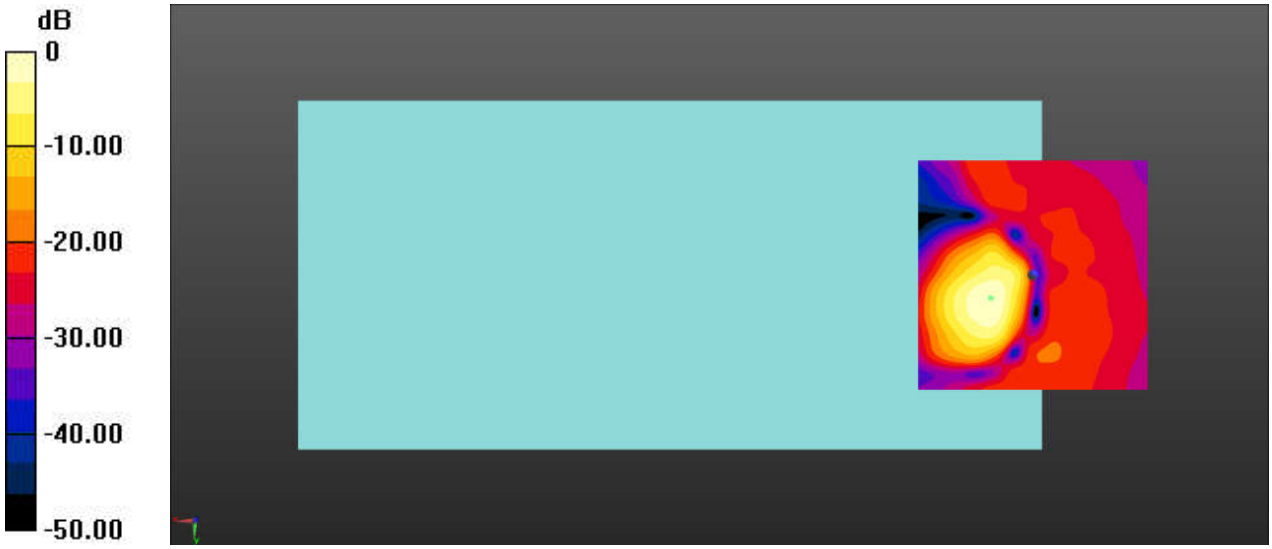
Communication System: UID 0, WCDMA (0); Frequency: 836.4 MHz;Duty Cycle: 1:1

Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

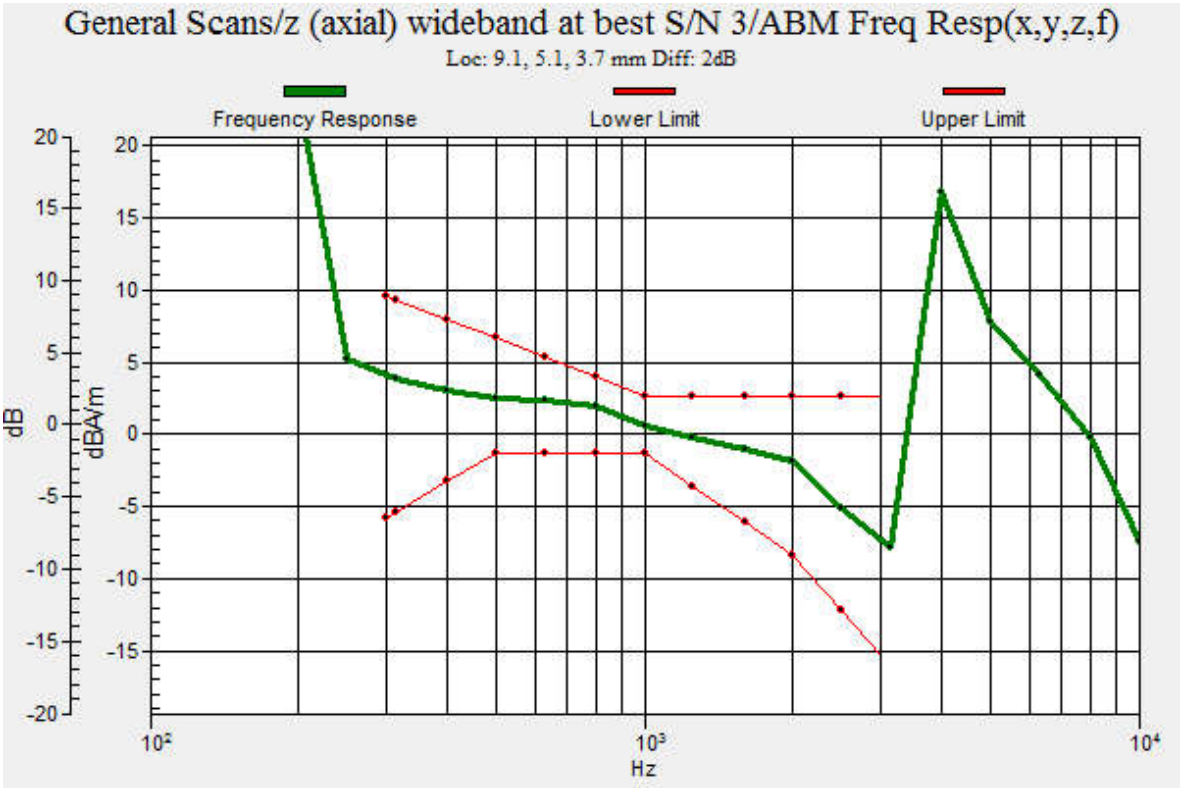
DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 46.50 dB
ABM1 comp = 1.60 dBA/m
BWC Factor = 0.16 dB
Location: 9.2, 5, 3.7 mm



0 dB = 211.4 = 46.50 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 9.1, 5.1, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4
Hz

Date: 2023-04-17

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-WCDMA Band V AMR Voice 4182CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, WCDMA (0); Frequency: 836.4 MHz;Duty Cycle: 1:1

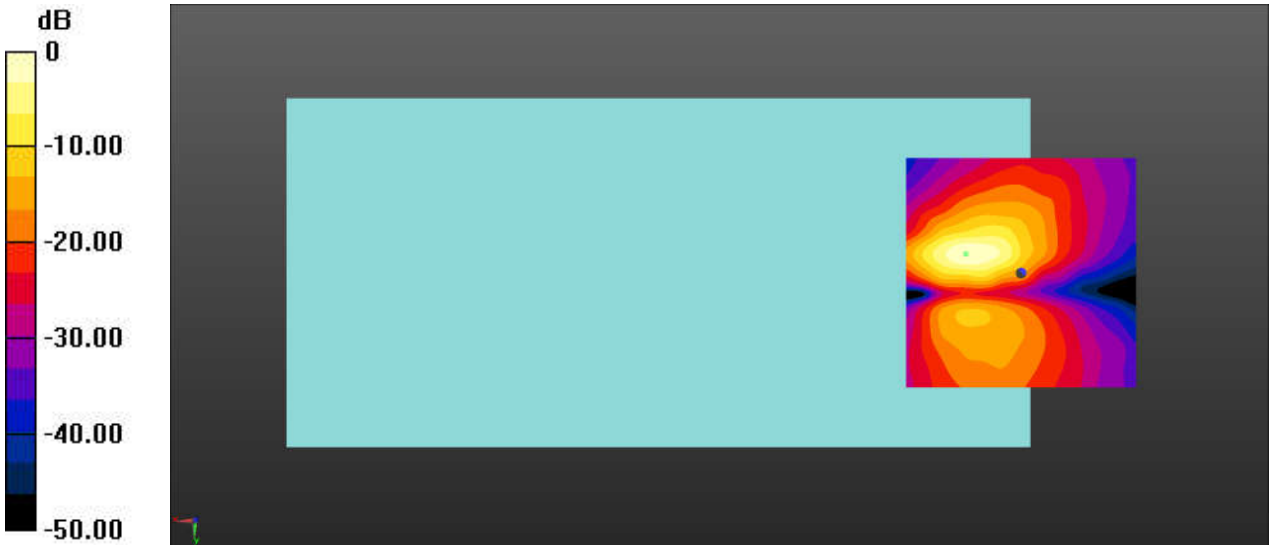
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 49.07 dB
ABM1 comp = -0.76 dBA/m
BWC Factor = 0.16 dB
Location: 12.1, -4.2, 3.7 mm



0 dB = 284.0 = 49.07 dB

Date: 2023-04-18

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-LTE Band 2 20M QPSK 100RB0 18900CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 1880 MHz;Duty Cycle: 1:1

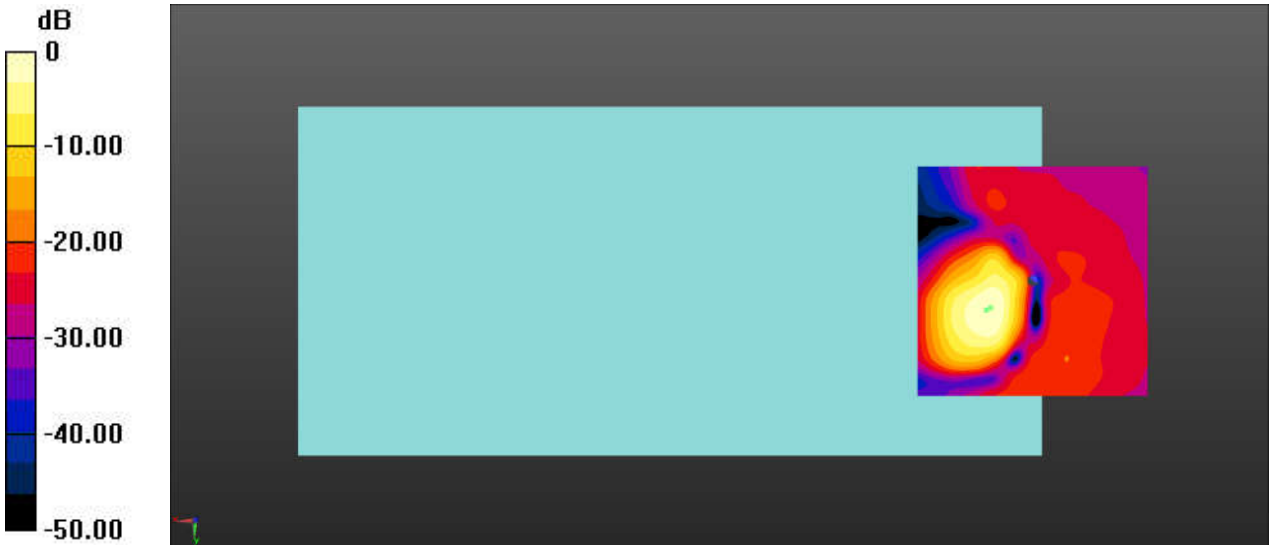
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

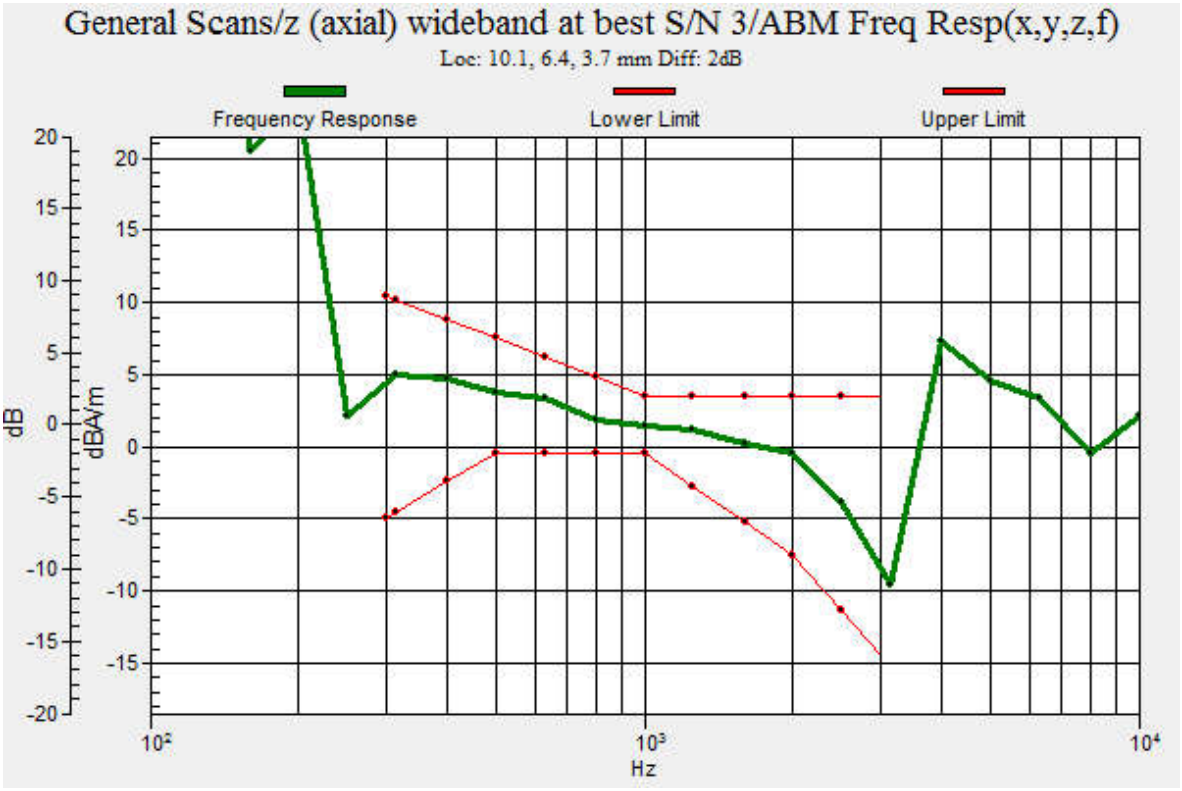
- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 45.30 dB
ABM1 comp = 0.95 dBA/m
BWC Factor = 0.16 dB
Location: 9.2, 5.8, 3.7 mm



0 dB = 184.0 = 45.30 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 10.1, 6.4, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4
Hz

Date: 2023-04-18

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-LTE Band 2 20M QPSK 100RB0 18900CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 1880 MHz;Duty Cycle: 1:1

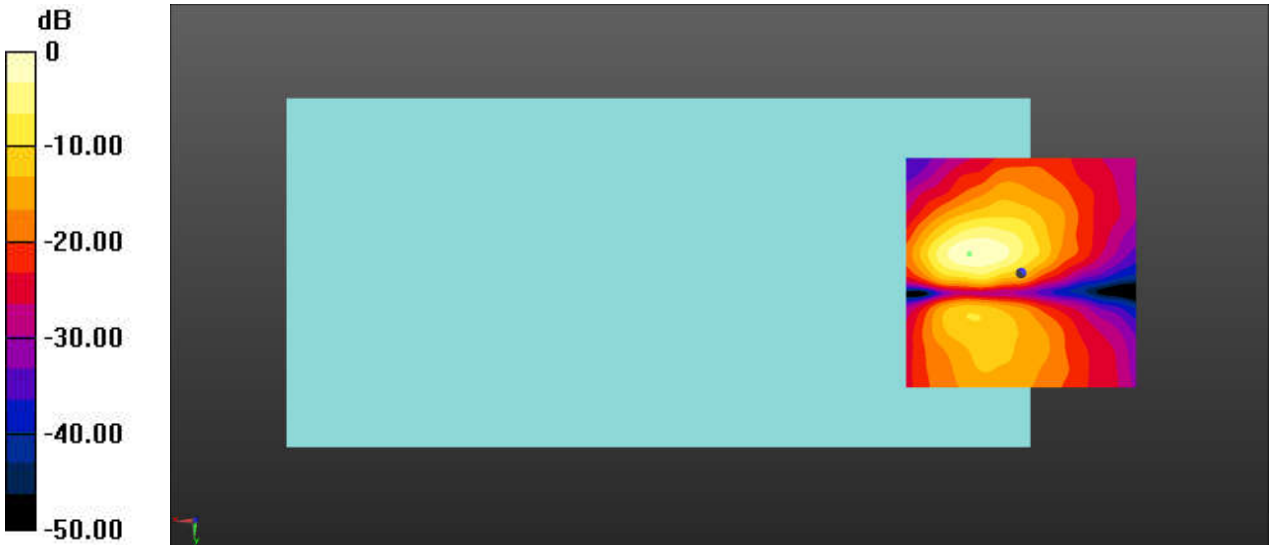
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 43.60 dB
ABM1 comp = -0.74 dBA/m
BWC Factor = 0.16 dB
Location: 11.3, -4.2, 3.7 mm



0 dB = 151.3 = 43.60 dB

Date: 2023-04-18

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-LTE Band 4 20M QPSK 100RB0 20175CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1

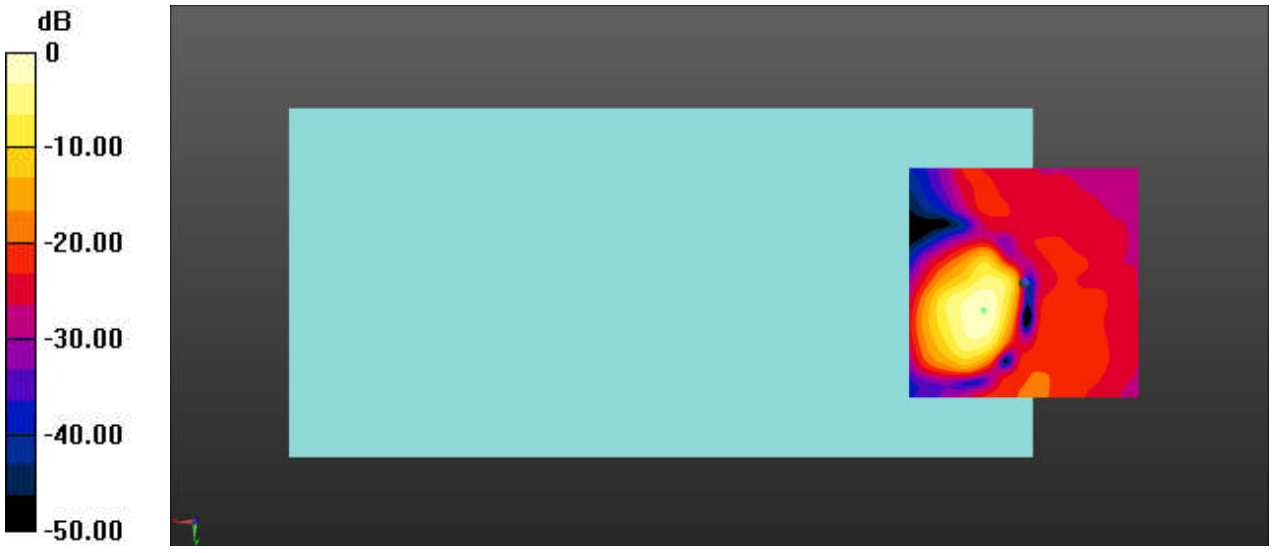
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

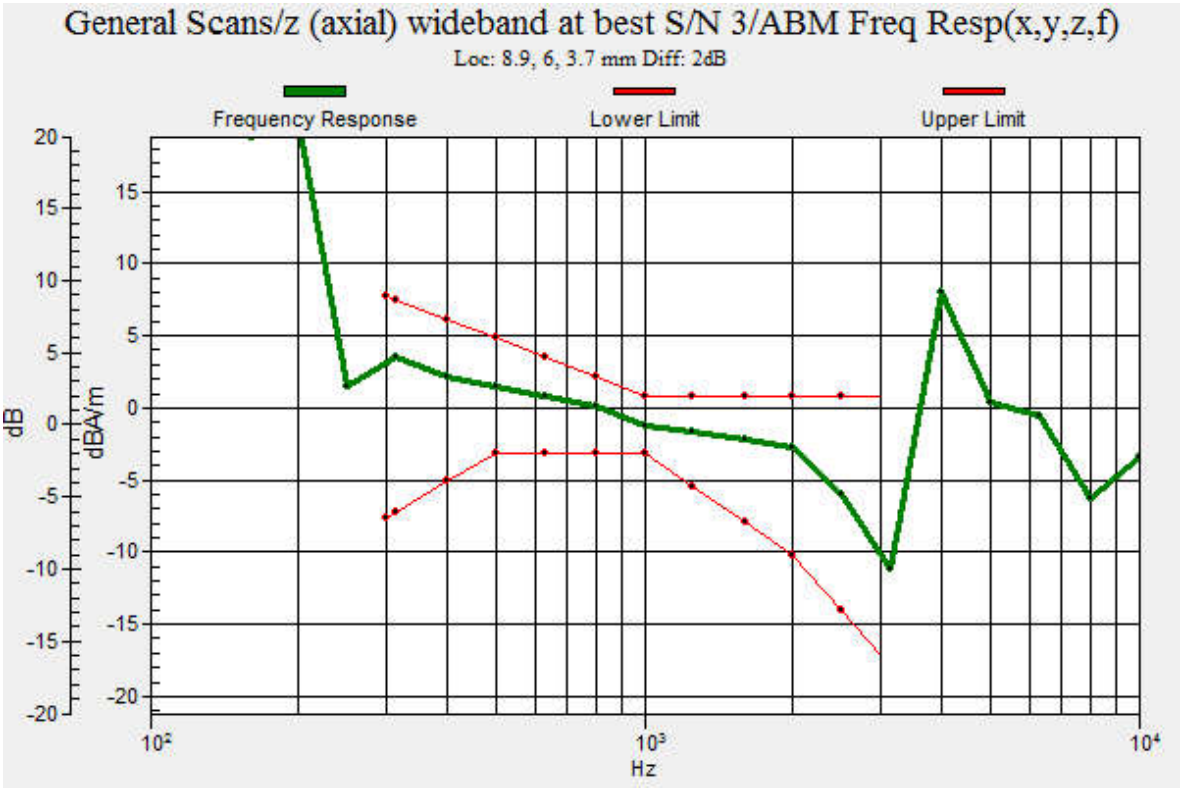
- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 45.38 dB
ABM1 comp = 0.28 dBA/m
BWC Factor = 0.16 dB
Location: 8.8, 5.8, 3.7 mm



0 dB = 185.7 = 45.38 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 8.9, 6, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz

Date: 2023-04-18

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-LTE Band 4 20M QPSK 100RB0 20175CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1

Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 44.99 dB
ABM1 comp = -3.06 dBA/m
BWC Factor = 0.16 dB
Location: 8.8, -4.2, 3.7 mm

0 dB = 177.6 = 44.99 dB

Date: 2023-04-18

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-LTE Band 5 10M QPSK 50RB0 20525CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, LTE-FDD BW 10MHZ (0); Frequency: 836.5 MHz;Duty Cycle: 1:1

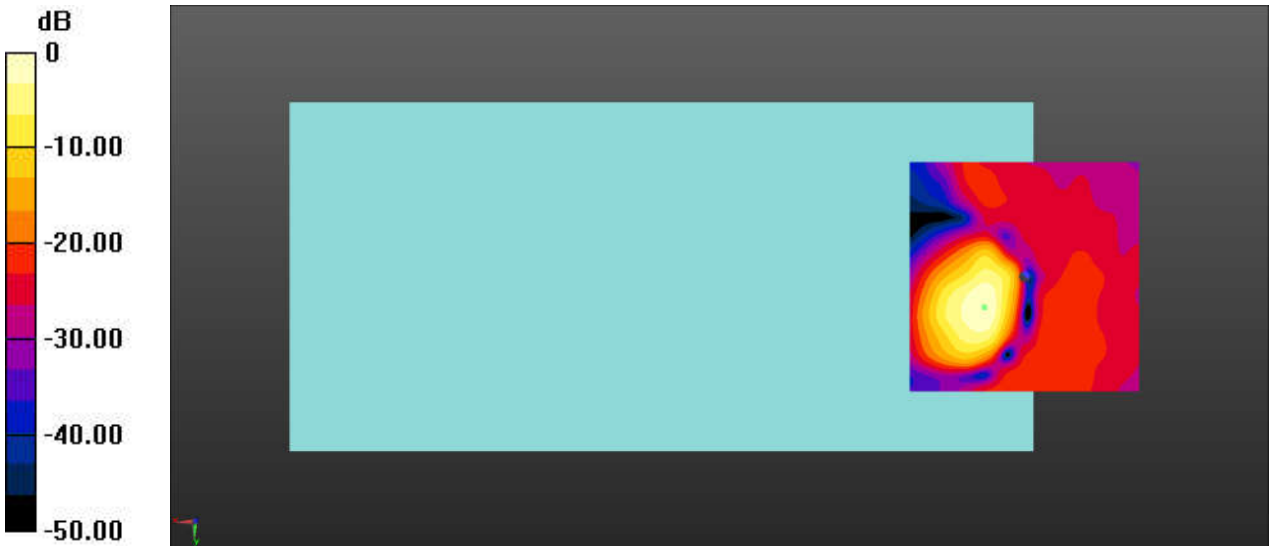
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

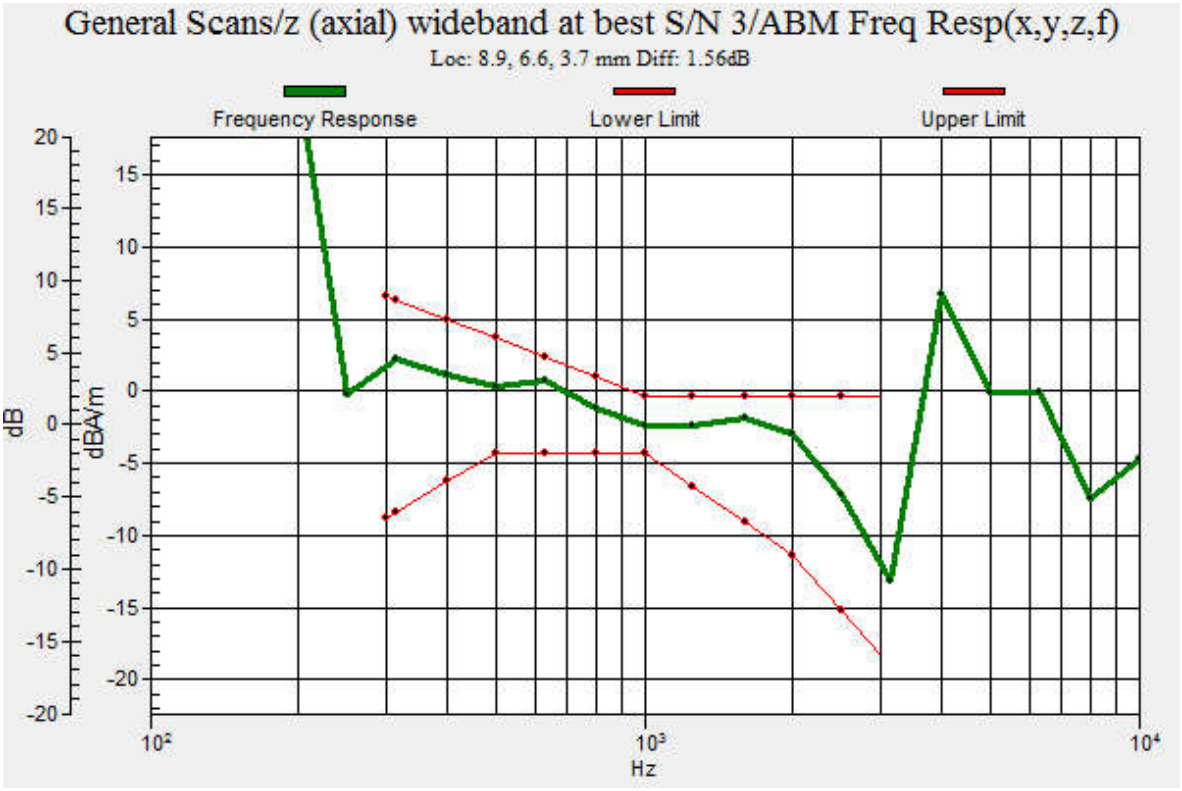
- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 45.49 dB
ABM1 comp = 0.01 dBA/m
BWC Factor = 0.16 dB
Location: 8.8, 6.7, 3.7 mm



0 dB = 188.0 = 45.49 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 8.9, 6.6, 3.7 mm Diff: 1.56dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz

Date: 2023-04-18

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-LTE Band 5 10M QPSK 50RB0 20525CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, LTE-FDD BW 10MHZ (0); Frequency: 836.5 MHz;Duty Cycle: 1:1

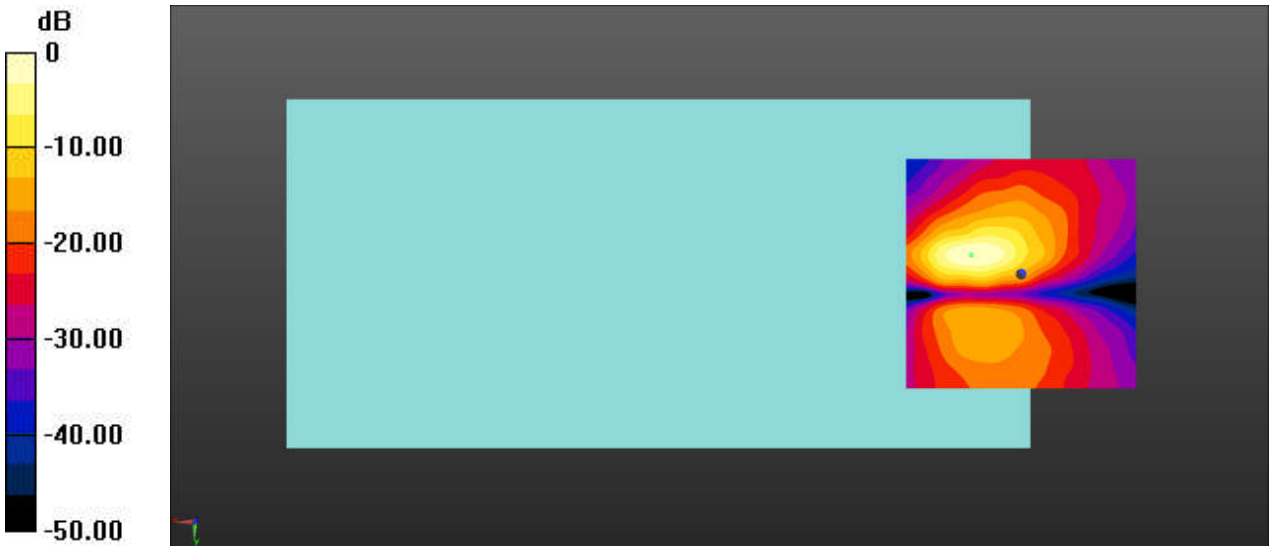
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 46.53 dB
ABM1 comp = -1.19 dBA/m
BWC Factor = 0.16 dB
Location: 10.8, -4.2, 3.7 mm



0 dB = 212.0 = 46.53 dB

Date: 2023-04-18

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-LTE Band 7 20M QPSK 100RB0 21100CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

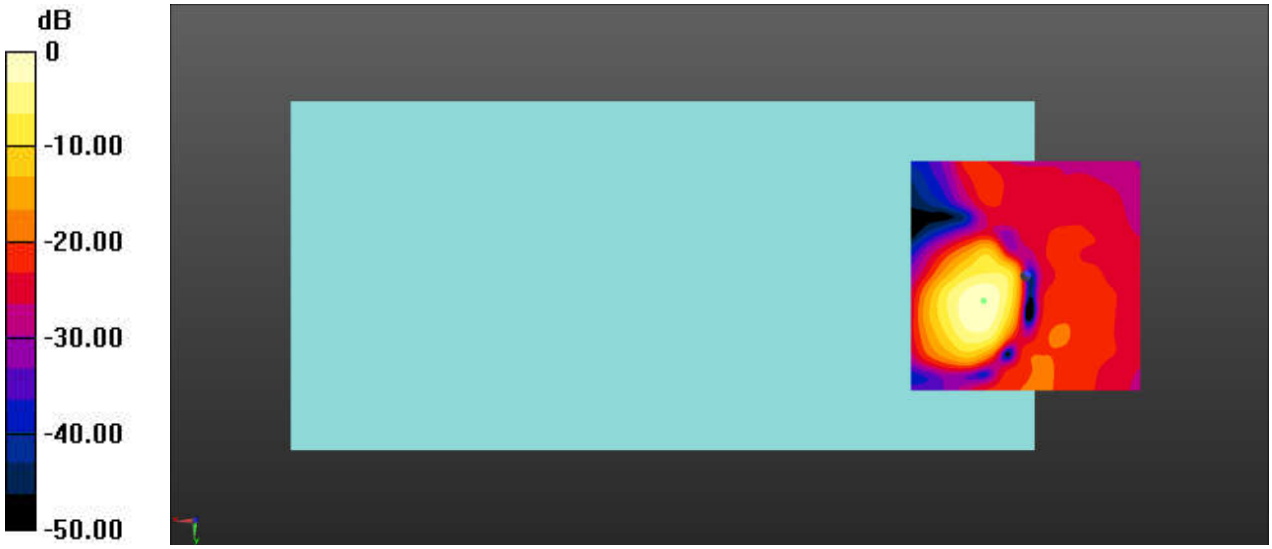
Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 2535 MHz;Duty Cycle: 1:1

Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

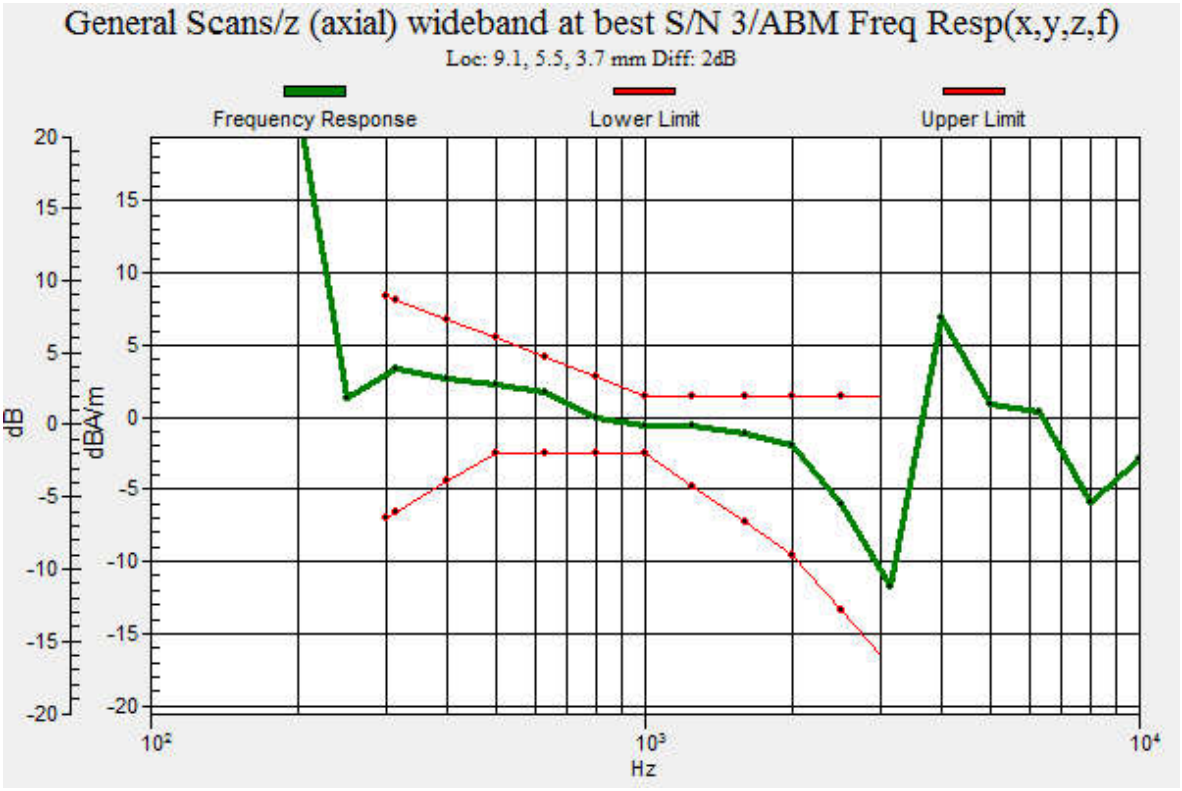
DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 44.86 dB
ABM1 comp = 1.62 dBA/m
BWC Factor = 0.16 dB
Location: 9.2, 5.4, 3.7 mm



0 dB = 174.9 = 44.86 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 9.1, 5.5, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz

Date: 2023-04-18

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-LTE Band 7 20M QPSK 100RB0 21100CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 2535 MHz;Duty Cycle: 1:1

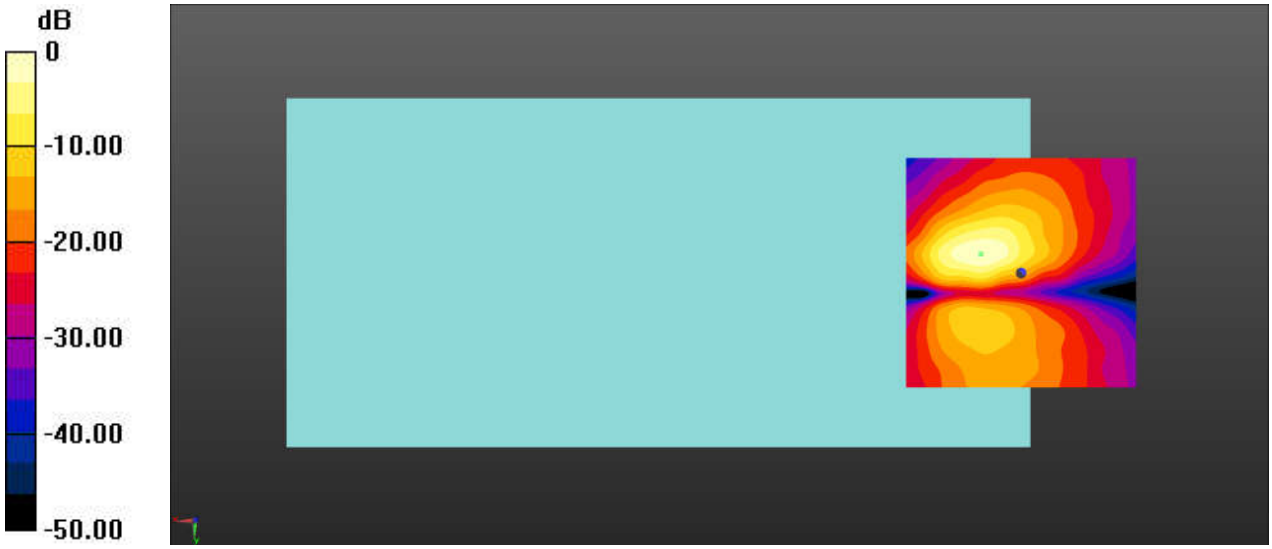
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 44.71 dB
ABM1 comp = -3.17 dBA/m
BWC Factor = 0.16 dB
Location: 8.8, -4.2, 3.7 mm



0 dB = 172.1 = 44.71 dB

Date: 2023-04-18

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-LTE Band 12 10M QPSK 50RB0 23095CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, LTE-FDD BW 10MHZ (0); Frequency: 707.5 MHz;Duty Cycle: 1:1

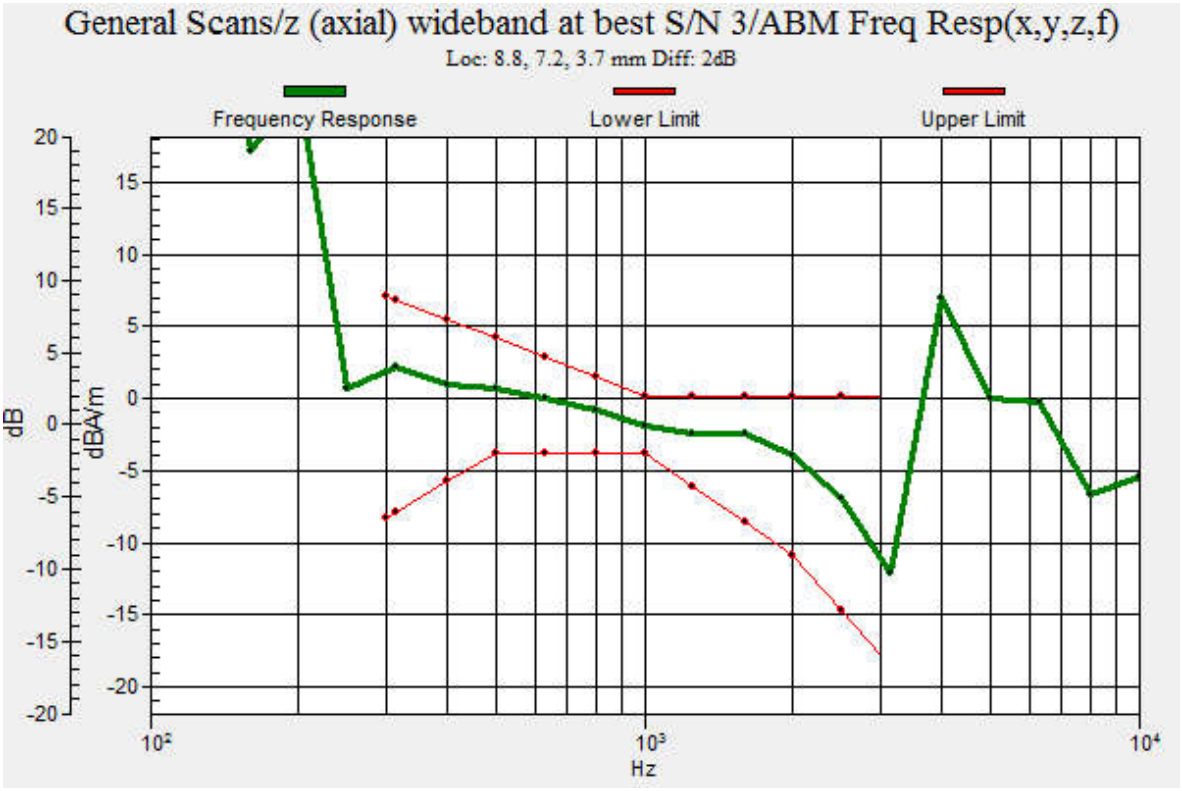
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 45.87 dB
ABM1 comp = 0.19 dBA/m
BWC Factor = 0.16 dB
Location: 8.8, 7.1, 3.7 mm

0 dB = 196.6 = 45.87 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 8.8, 7.2, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz

Date: 2023-04-18

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-LTE Band 12 10M QPSK 50RB0 23095CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, LTE-FDD BW 10MHZ (0); Frequency: 707.5 MHz;Duty Cycle: 1:1

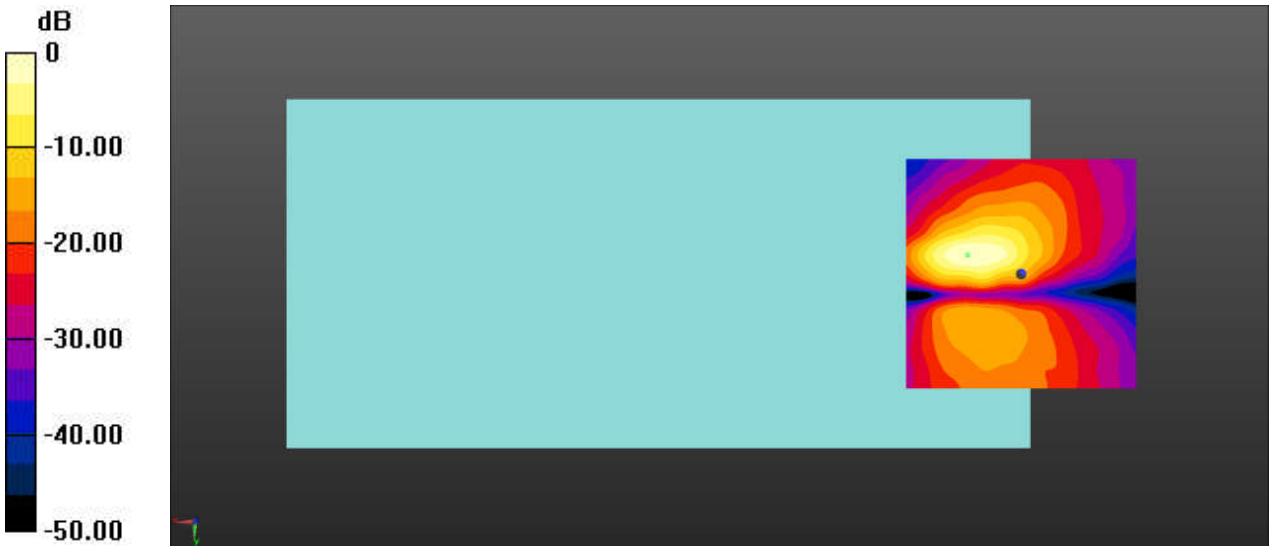
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 46.22 dB
ABM1 comp = -0.95 dBA/m
BWC Factor = 0.16 dB
Location: 11.7, -4.2, 3.7 mm



0 dB = 204.5 = 46.22 dB

Date: 2023-04-18

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-LTE Band 14 10M QPSK 50RB0 23330CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

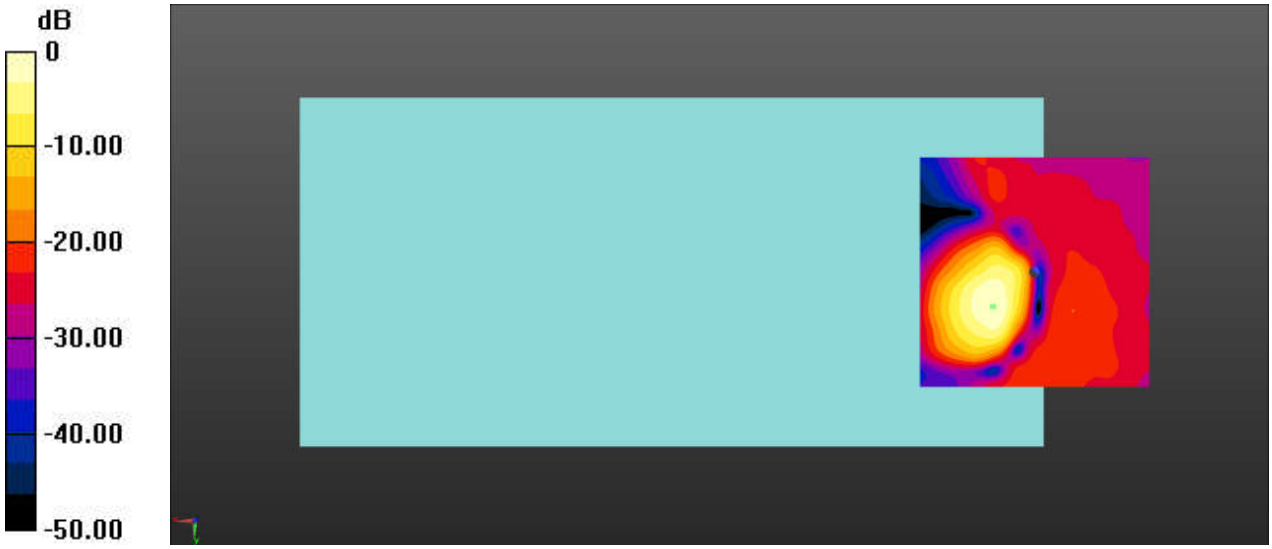
Communication System: UID 0, LTE-FDD BW 10MHZ (0); Frequency: 793 MHz;Duty Cycle: 1:1

Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

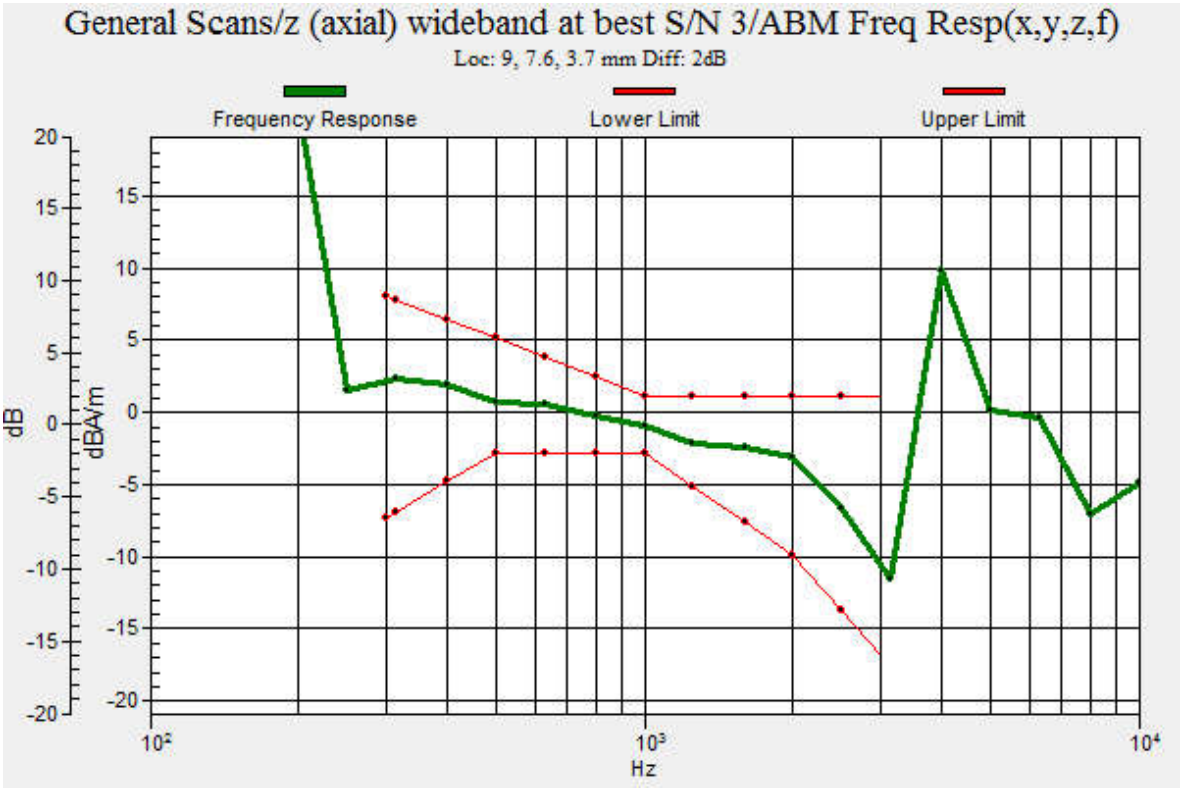
DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 45.85 dB
ABM1 comp = 0.90 dBA/m
BWC Factor = 0.16 dB
Location: 9.2, 7.5, 3.7 mm



0 dB = 196.1 = 45.85 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 9, 7.6, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz

Date: 2023-04-18

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-LTE Band 14 10M QPSK 50RB0 23330CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, LTE-FDD BW 10MHZ (0); Frequency: 793 MHz;Duty Cycle: 1:1

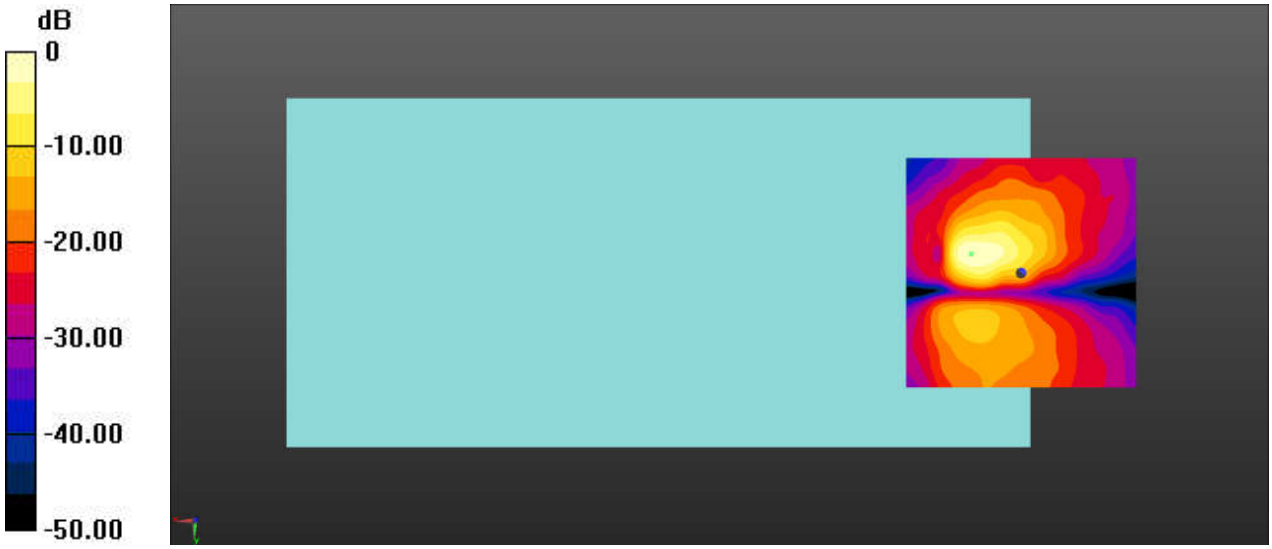
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 45.75 dB
ABM1 comp = -1.97 dBA/m
BWC Factor = 0.16 dB
Location: 10.8, -4.2, 3.7 mm



0 dB = 194.0 = 45.75 dB

Date: 2023-04-18

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-LTE Band 30 10M QPSK 50RB0 27710CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, LTE-FDD BW 10MHZ (0); Frequency: 2310 MHz;Duty Cycle: 1:1

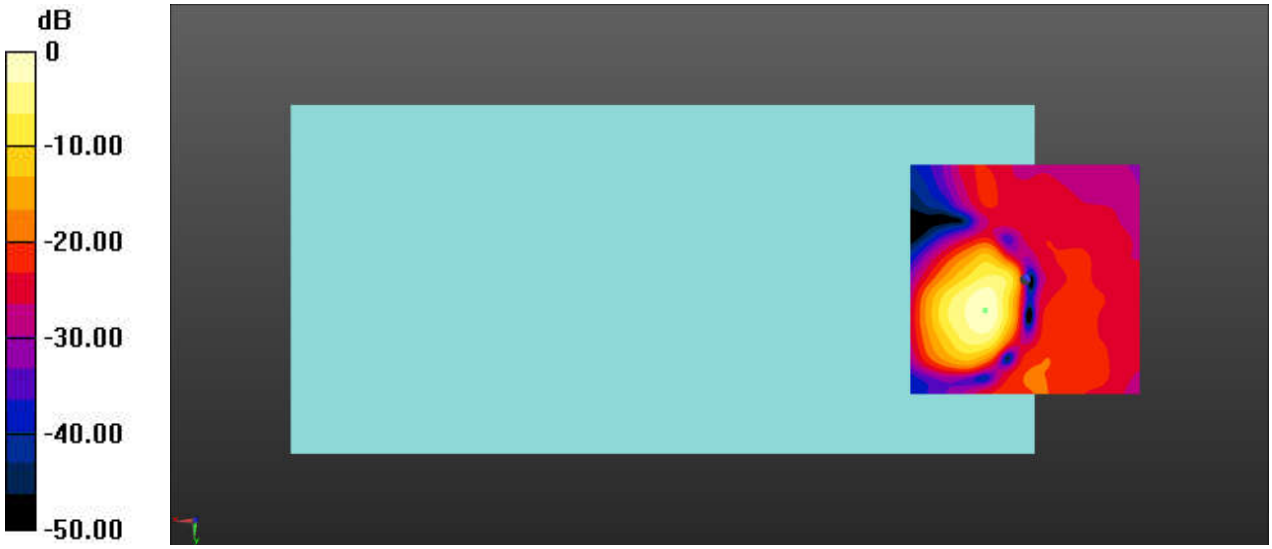
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

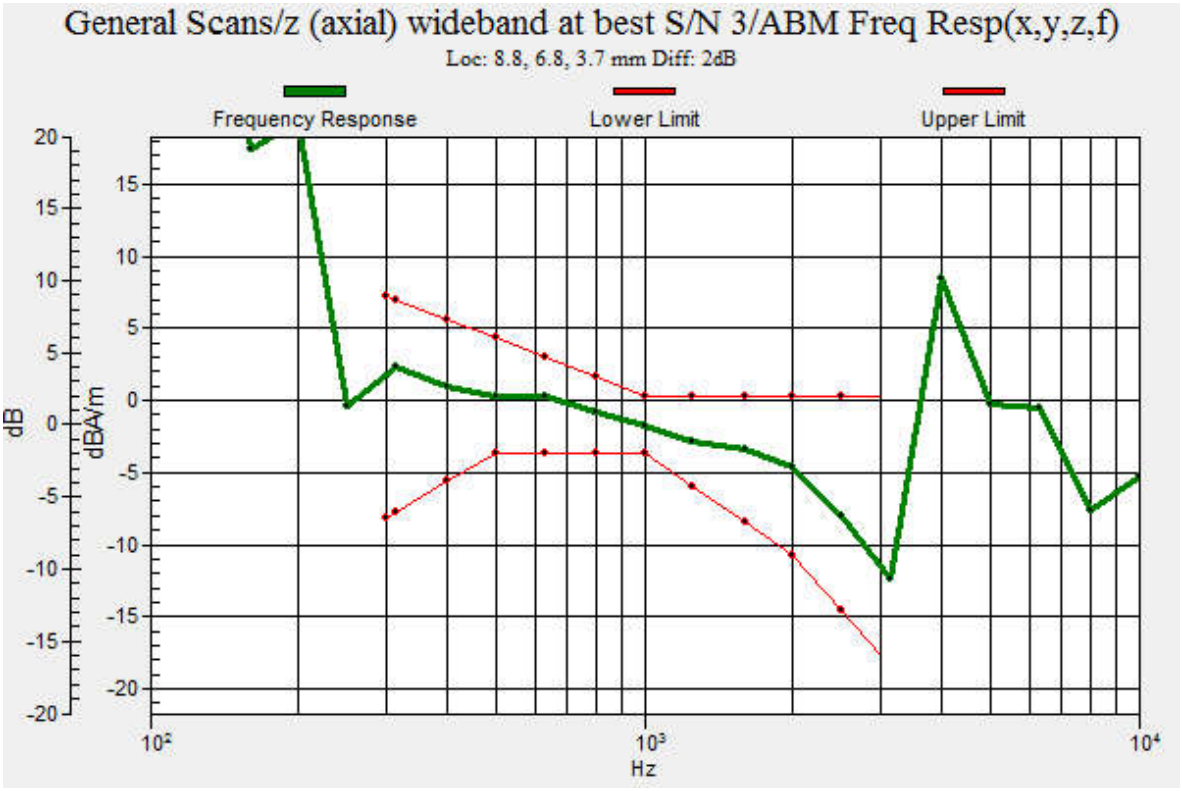
- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 45.87 dB
ABM1 comp = 0.33 dBA/m
BWC Factor = 0.16 dB
Location: 8.8, 6.7, 3.7 mm



0 dB = 196.5 = 45.87 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 8.8, 6.8, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4
Hz

Date: 2023-04-18

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-LTE Band 30 10M QPSK 50RB0 27710CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, LTE-FDD BW 10MHZ (0); Frequency: 2310 MHz;Duty Cycle: 1:1

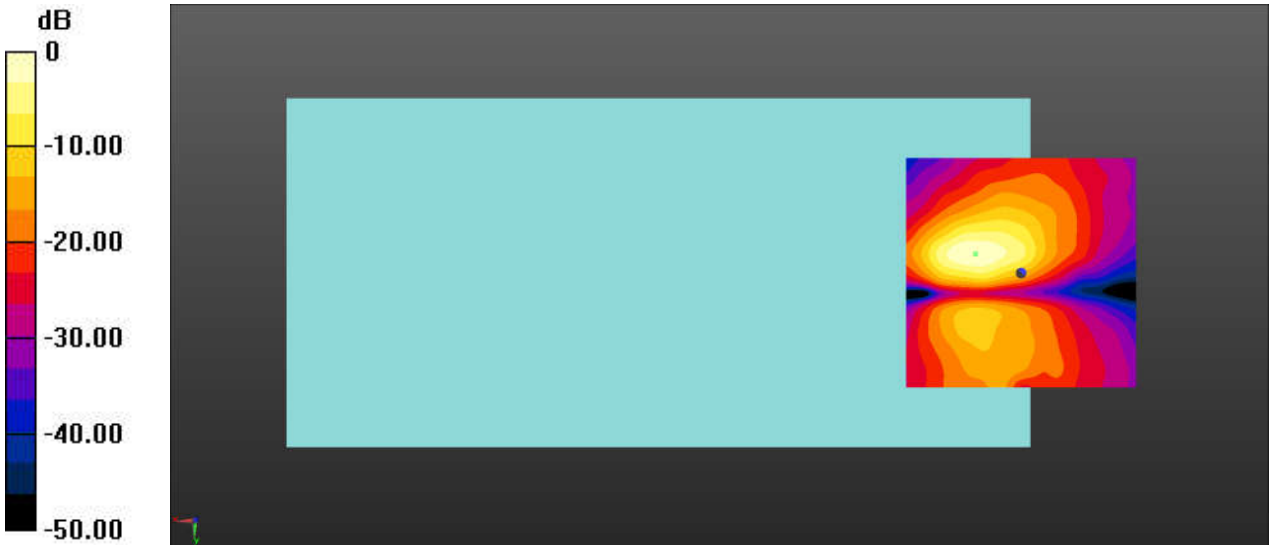
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 45.23 dB
ABM1 comp = -2.25 dBA/m
BWC Factor = 0.16 dB
Location: 10, -4.2, 3.7 mm



0 dB = 182.7 = 45.23 dB

Date: 2023-04-18

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-LTE Band 66 20M QPSK 100RB0 132322CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 1745 MHz;Duty Cycle: 1:1

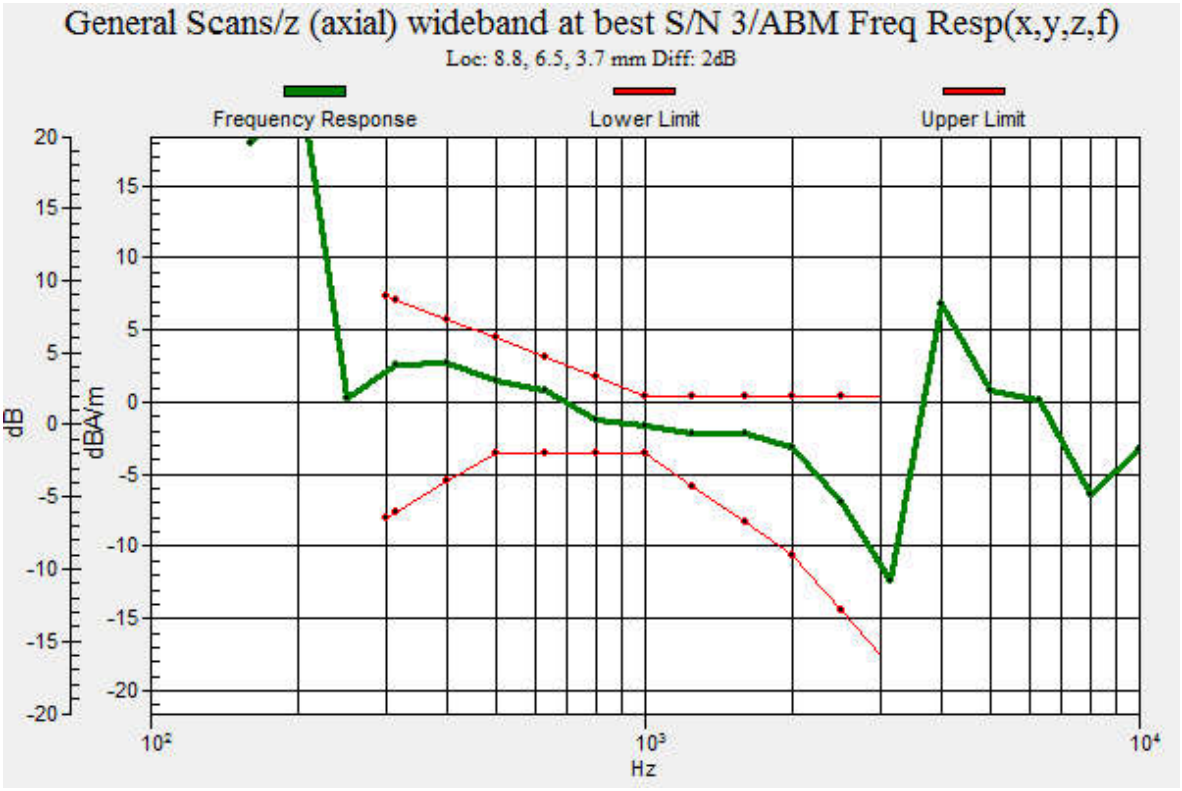
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 45.44 dB
ABM1 comp = 0.53 dBA/m
BWC Factor = 0.16 dB
Location: 8.8, 6.7, 3.7 mm

0 dB = 187.0 = 45.44 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 8.8, 6.5, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz

Date: 2023-04-18

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-LTE Band 66 20M QPSK 100RB0 132322CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 1745 MHz;Duty Cycle: 1:1

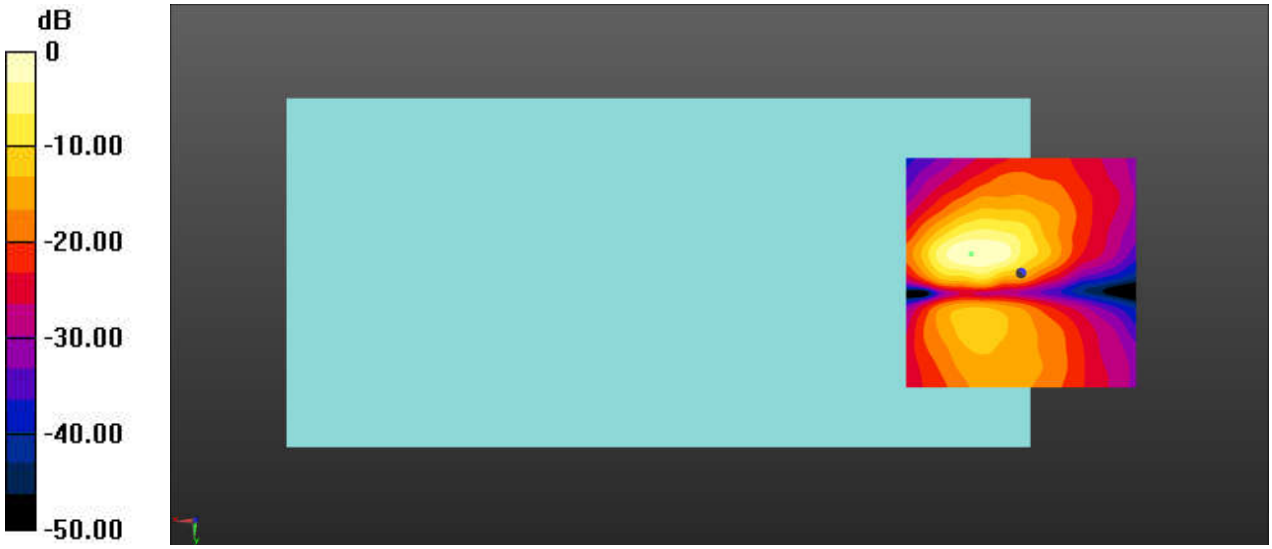
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 44.35 dB
ABM1 comp = -1.80 dBA/m
BWC Factor = 0.16 dB
Location: 10.8, -4.2, 3.7 mm



0 dB = 165.0 = 44.35 dB

Date: 2023-04-20

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-WiFi 2.4G 802.11b 6CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

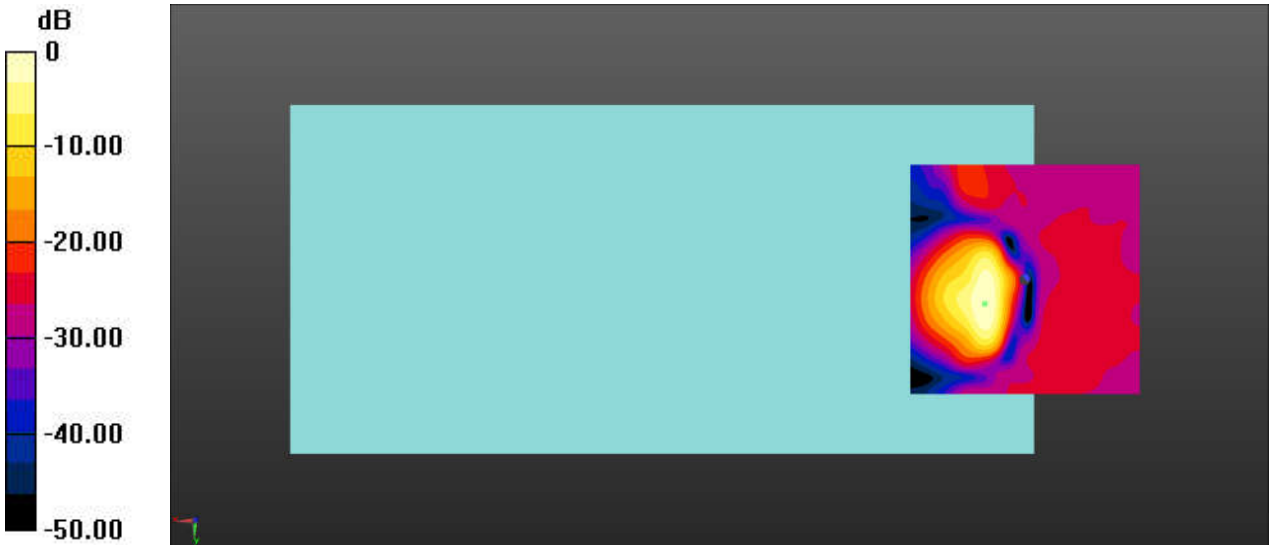
Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2437 MHz;Duty Cycle: 1:1

Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

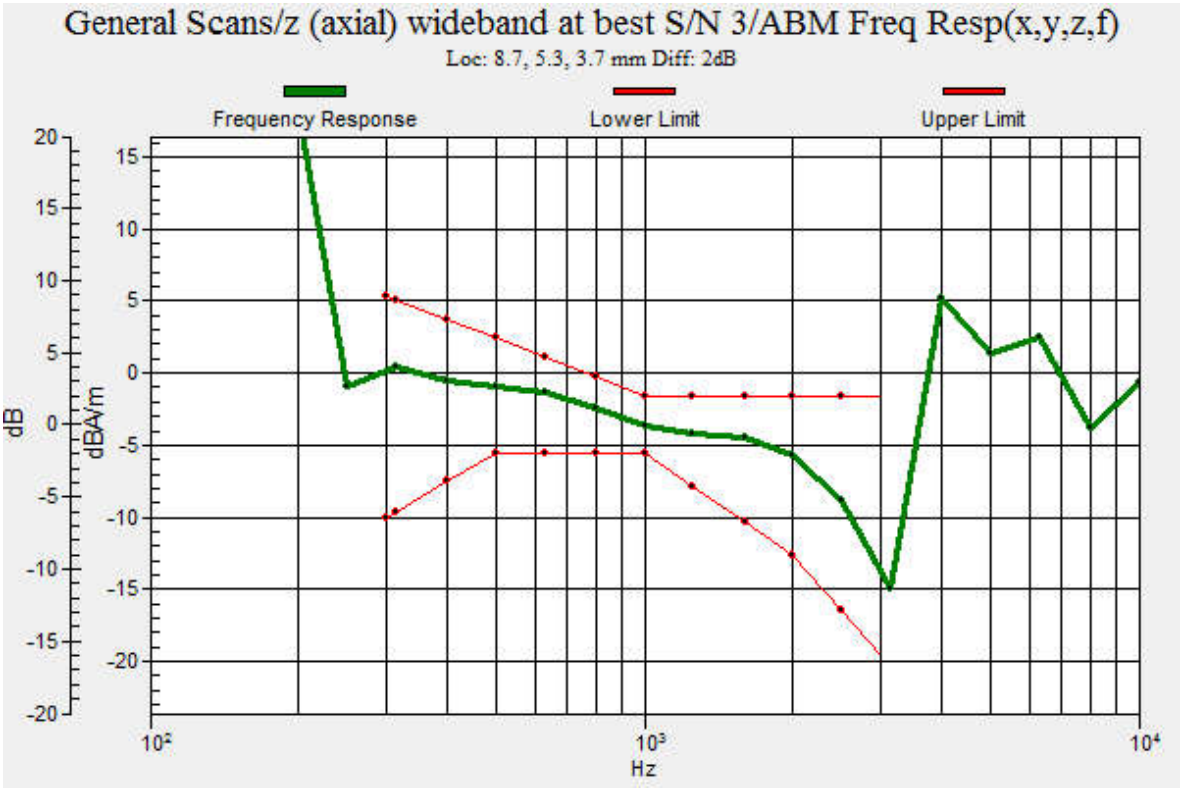
DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 41.56 dB
ABM1 comp = -1.96 dBA/m
BWC Factor = 0.16 dB
Location: 8.8, 5.4, 3.7 mm



0 dB = 119.7 = 41.56 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 8.7, 5.3, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4

Date: 2023-04-20

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-WiFi 2.4G 802.11b 6CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2437 MHz;Duty Cycle: 1:1

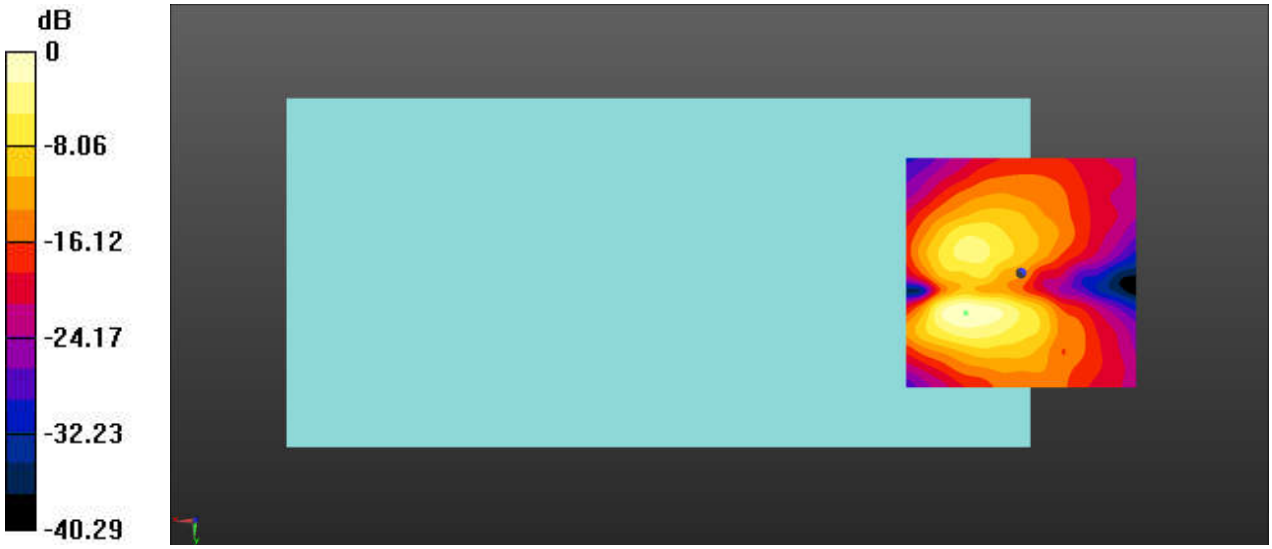
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 35.70 dB
ABM1 comp = 0.74 dBA/m
BWC Factor = 0.16 dB
Location: 12.1, 8.7, 3.7 mm



0 dB = 60.98 = 35.70 dB

Date: 2023-04-20

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-WiFi 5G 802.11a 40CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

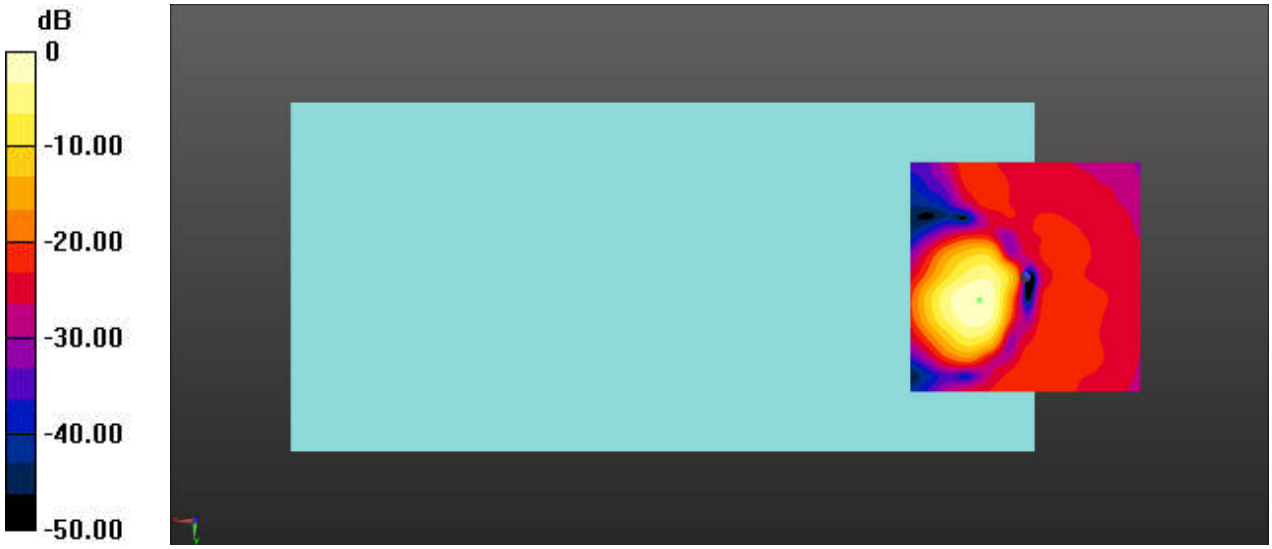
Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5200 MHz;Duty Cycle: 1:1

Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

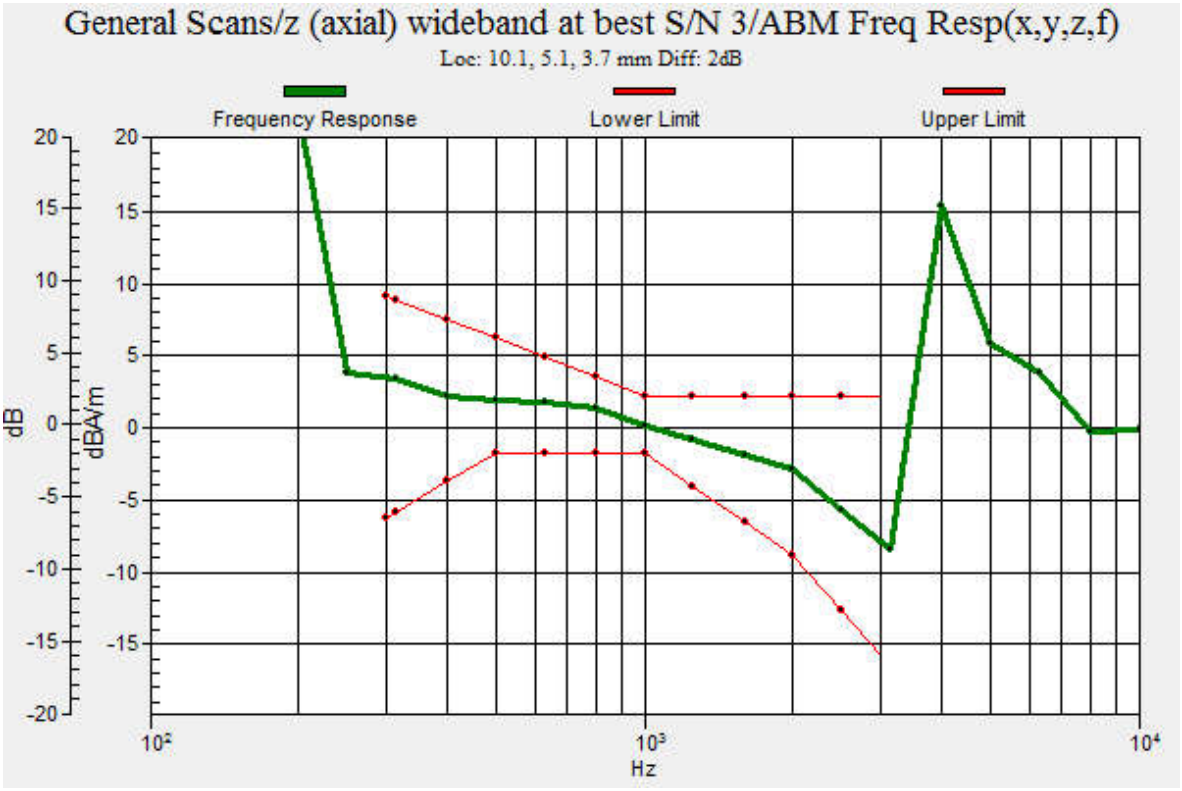
DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 43.65 dB
ABM1 comp = 1.13 dBA/m
BWC Factor = 0.16 dB
Location: 10, 5, 3.7 mm



0 dB = 152.3 = 43.65 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 10.1, 5.1, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4
Hz

Date: 2023-04-20

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-WiFi 5G 802.11a 40CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5200 MHz;Duty Cycle: 1:1

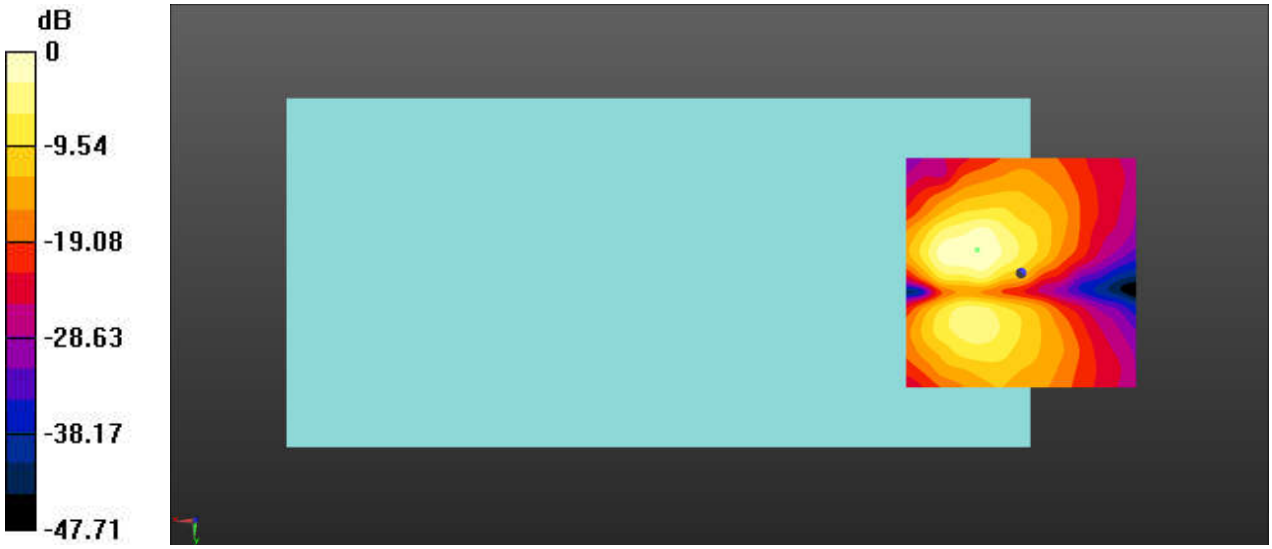
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 40.59 dB
ABM1 comp = -2.98 dBA/m
BWC Factor = 0.16 dB
Location: 9.6, -5, 3.7 mm



0 dB = 107.0 = 40.59 dB

Date: 2023-04-21

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-WiFi 5G 802.11a 60CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

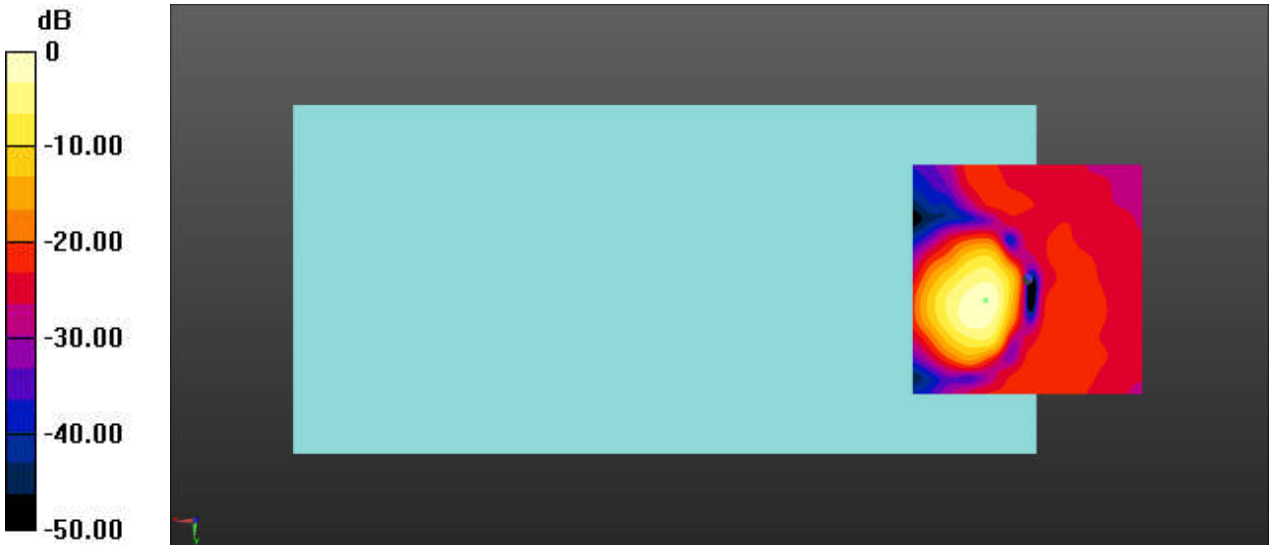
Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5300 MHz;Duty Cycle: 1:1

Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

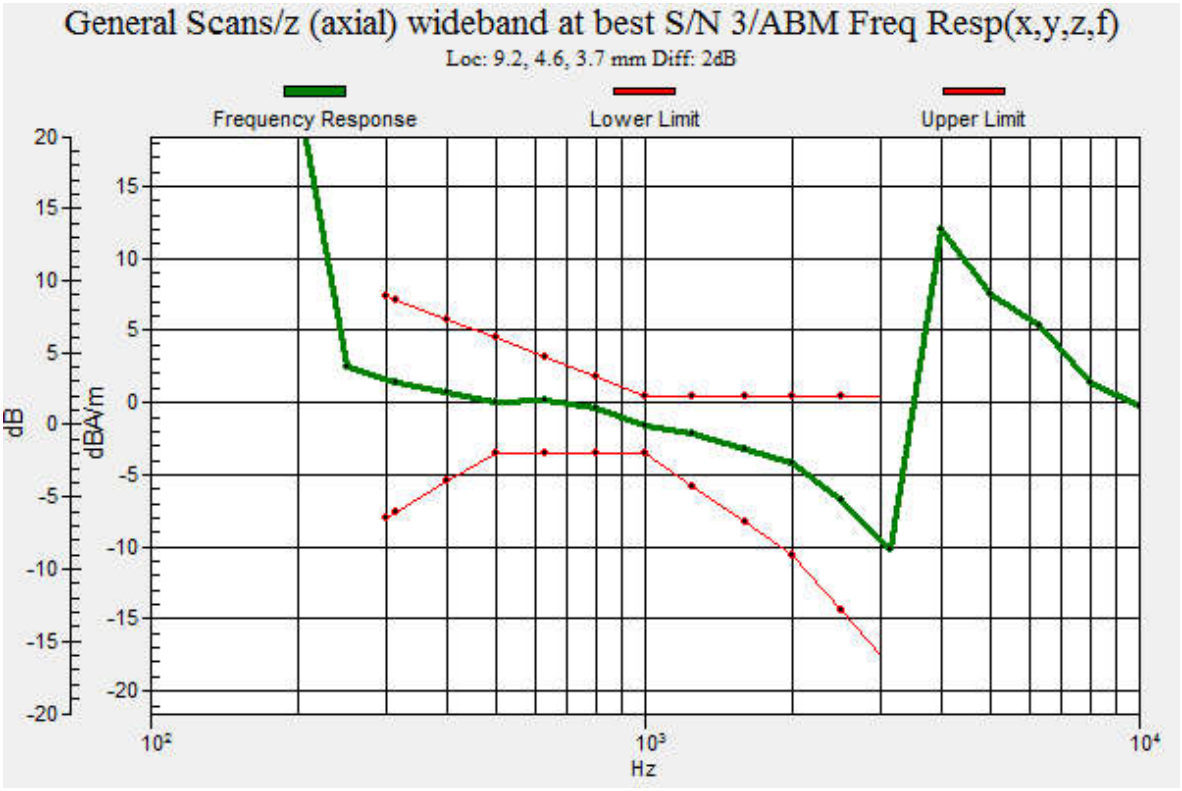
DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 44.11 dB
ABM1 comp = -1.21 dBA/m
BWC Factor = 0.16 dB
Location: 9.2, 4.6, 3.7 mm



0 dB = 160.5 = 44.11 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 9.2, 4.6, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4
Hz

Date: 2023-04-21

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-WiFi 5G 802.11a 60CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5300 MHz;Duty Cycle: 1:1

Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 42.08 dB
ABM1 comp = -0.36 dBA/m
BWC Factor = 0.16 dB
Location: 11.7, -4.6, 3.7 mm

0 dB = 127.1 = 42.08 dB

Date: 2023-04-21

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-WiFi 5G 802.11a 124CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

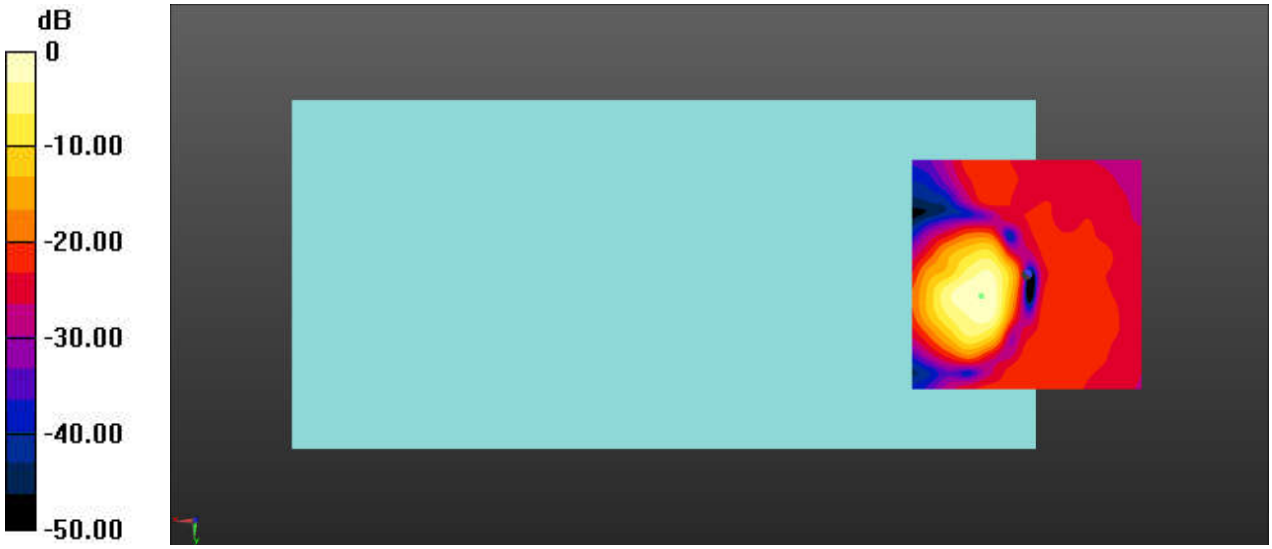
Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5620 MHz;Duty Cycle: 1:1

Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

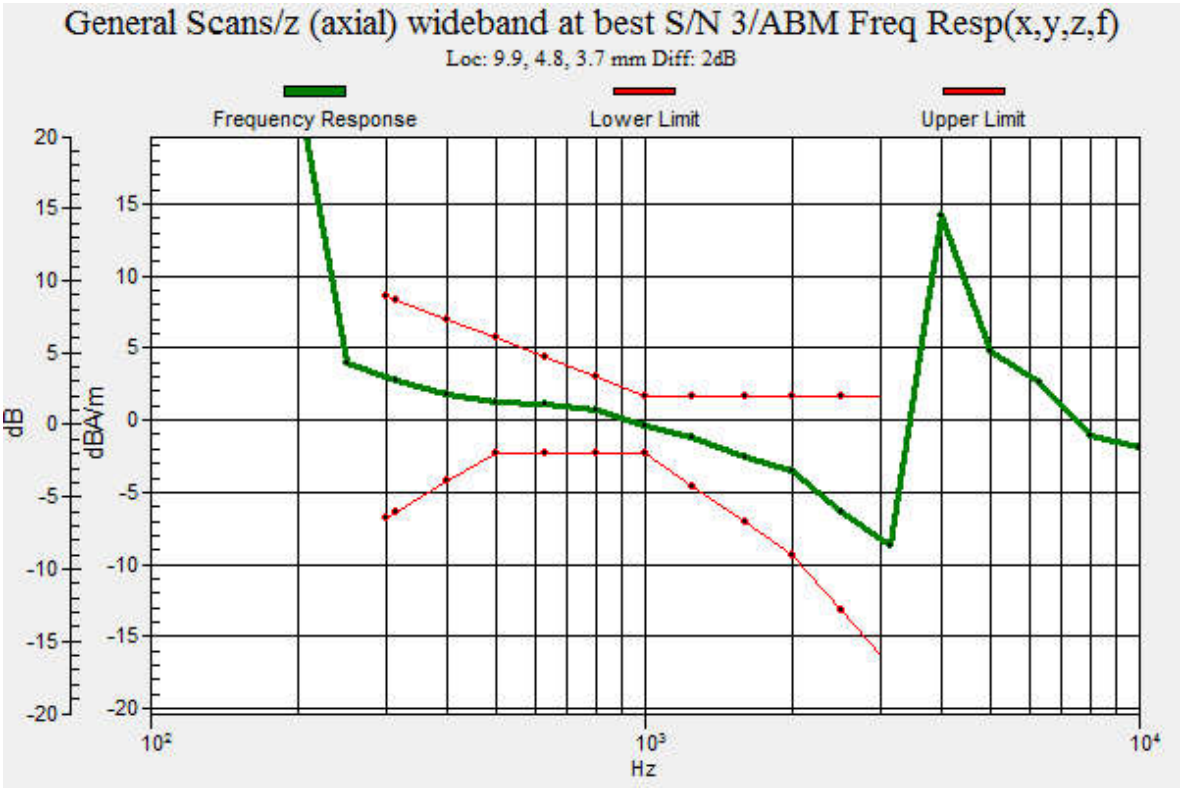
DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 43.73 dB
ABM1 comp = 0.35 dBA/m
BWC Factor = 0.16 dB
Location: 10, 4.6, 3.7 mm



0 dB = 153.6 = 43.73 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 9.9, 4.8, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz

Date: 2023-04-21

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-WiFi 5G 802.11a 124CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5620 MHz;Duty Cycle: 1:1

Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 41.14 dB
ABM1 comp = -2.67 dBA/m
BWC Factor = 0.16 dB
Location: 10, -4.6, 3.7 mm

0 dB = 114.0 = 41.14 dB

Date: 2023-04-21

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-WiFi 5G 802.11a 157CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

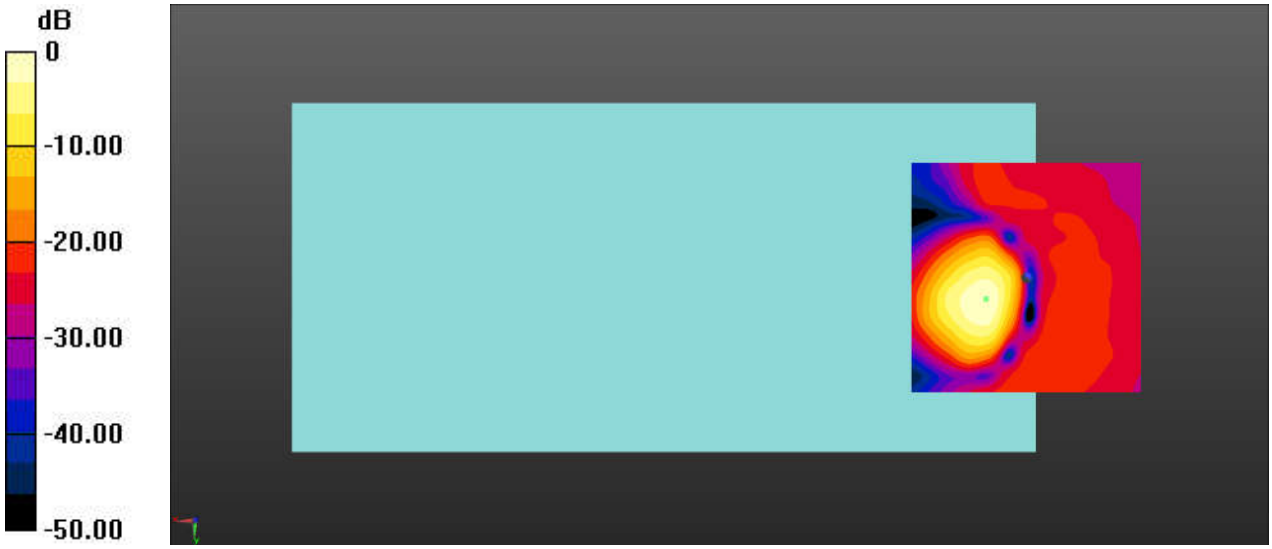
Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5785 MHz;Duty Cycle: 1:1

Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

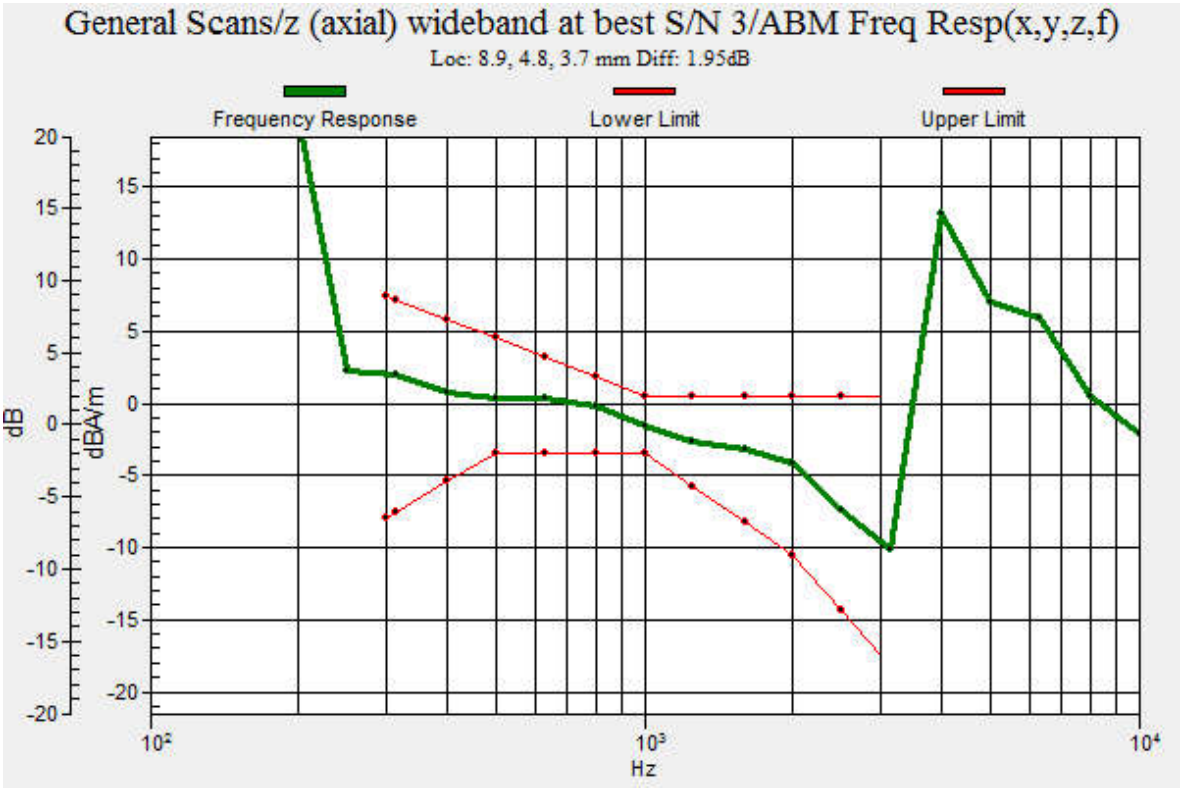
DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 44.37 dB
ABM1 comp = -0.81 dBA/m
BWC Factor = 0.16 dB
Location: 8.8, 4.6, 3.7 mm



0 dB = 165.4 = 44.37 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 8.9, 4.8, 3.7 mm Diff: 1.95dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
20
15
10
5
0
-5
-10
-15
-20
10²
10³
10⁴
Hz

Date: 2023-04-21

Test Laboratory: SGS-SAR Lab

U680AA HAC-T-Coil-WiFi 5G 802.11a 157CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5785 MHz;Duty Cycle: 1:1

Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 40.71 dB
ABM1 comp = -2.23 dBA/m
BWC Factor = 0.16 dB
Location: 10.4, -4.6, 3.7 mm

0 dB = 108.6 = 40.71 dB

Date: 2023-04-27

Test Laboratory: SGS-SAR Lab

U680AA HAC-VOIP-WCDMA Band IV AMR Voice 1412CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, WCDMA (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1

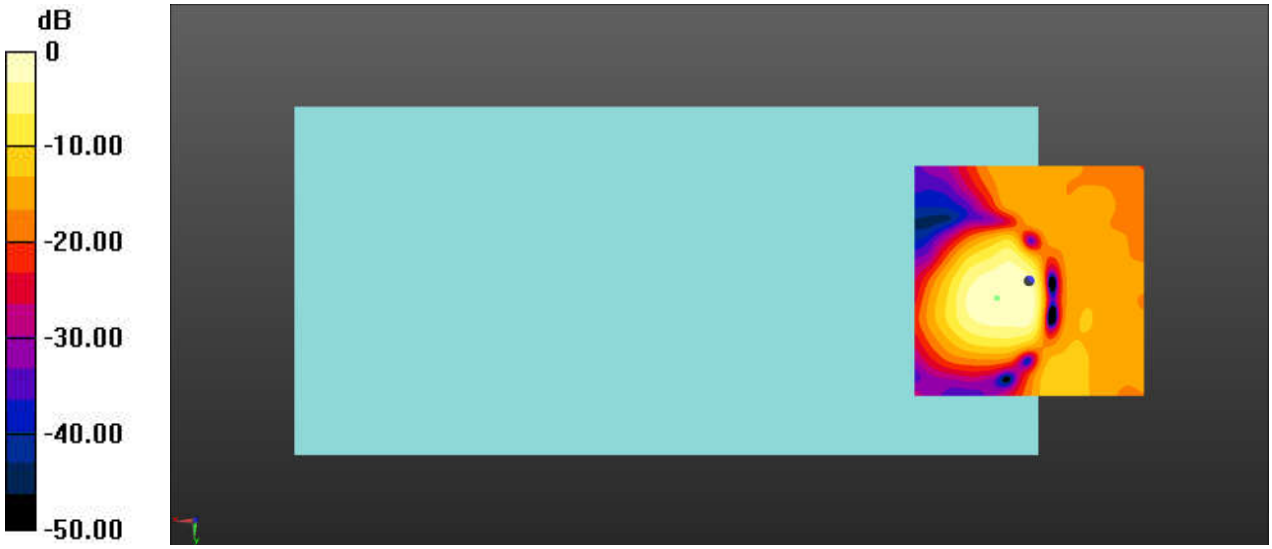
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

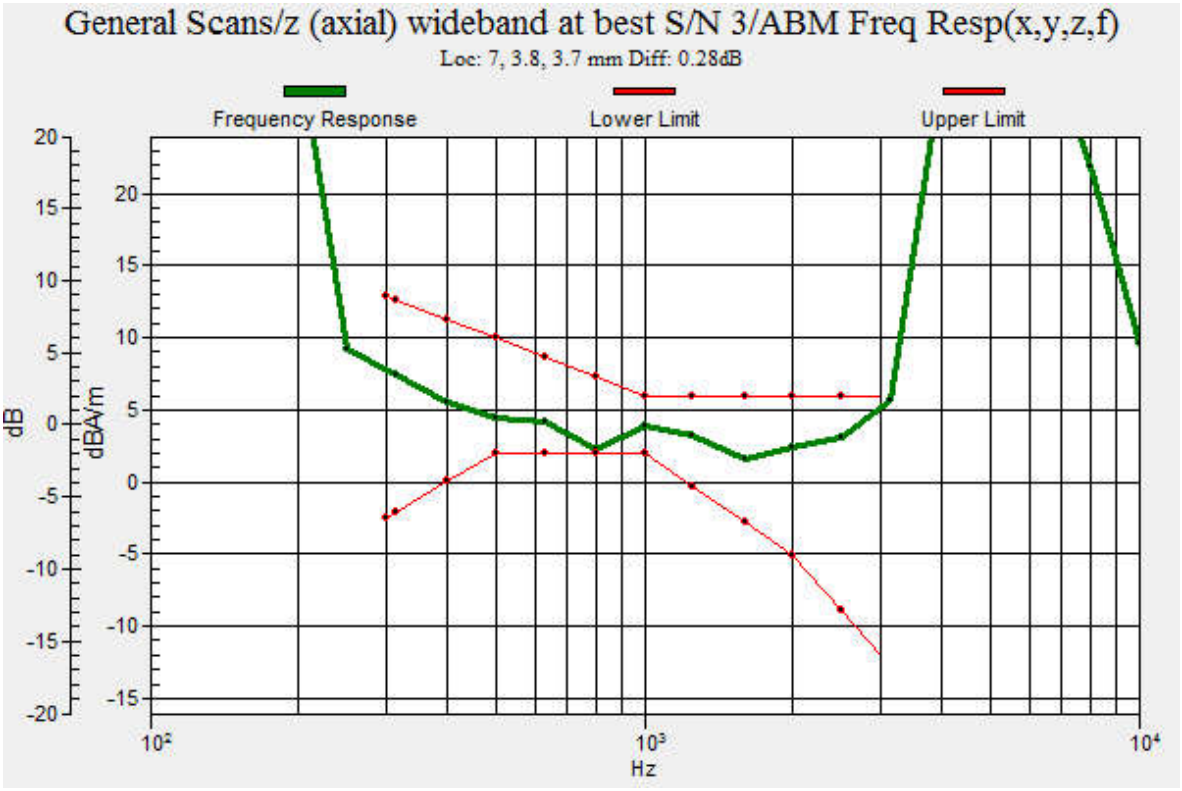
- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 38.91 dB
ABM1 comp = 7.63 dBA/m
BWC Factor = 0.16 dB
Location: 7.1, 3.7, 3.7 mm



0 dB = 88.20 = 38.91 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 7, 3.8, 3.7 mm Diff: 0.28dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
10²
10³
10⁴

Date: 2023-04-27

Test Laboratory: SGS-SAR Lab

U680AA HAC-VOIP-WCDMA Band IV AMR Voice 1412CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, WCDMA (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1

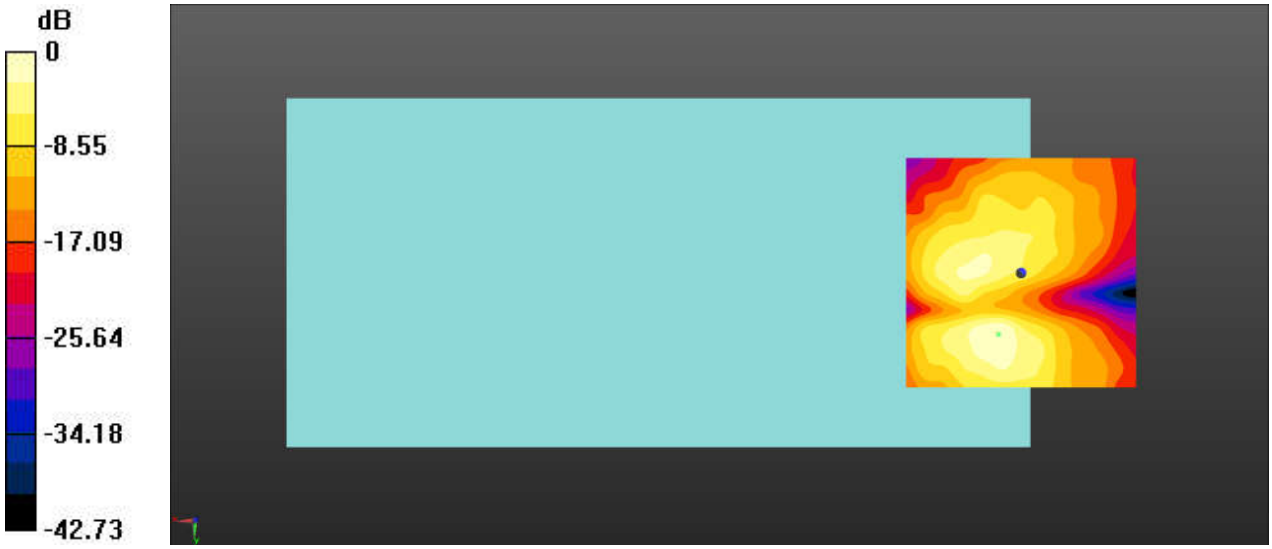
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 37.25 dB
ABM1 comp = -2.28 dBA/m
BWC Factor = 0.16 dB
Location: 5, 13.3, 3.7 mm



0 dB = 72.86 = 37.25 dB

Date: 2023-04-27

Test Laboratory: SGS-SAR Lab

U680AA HAC-VOIP-LTE Band 2 20M QPSK 100RB0 18900CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

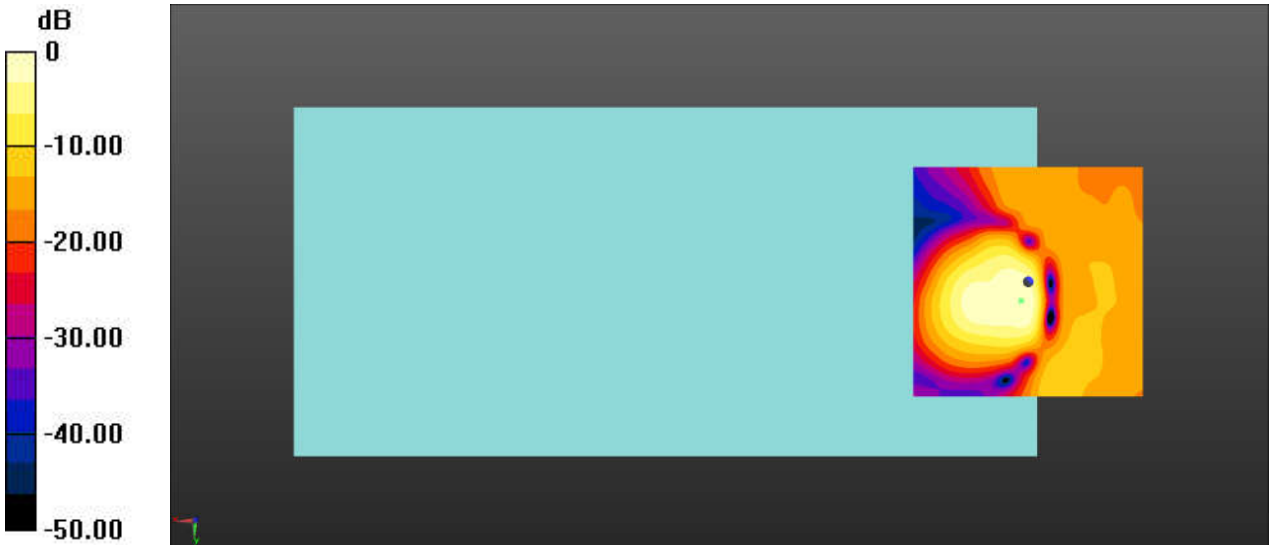
Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 1880 MHz;Duty Cycle: 1:1

Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

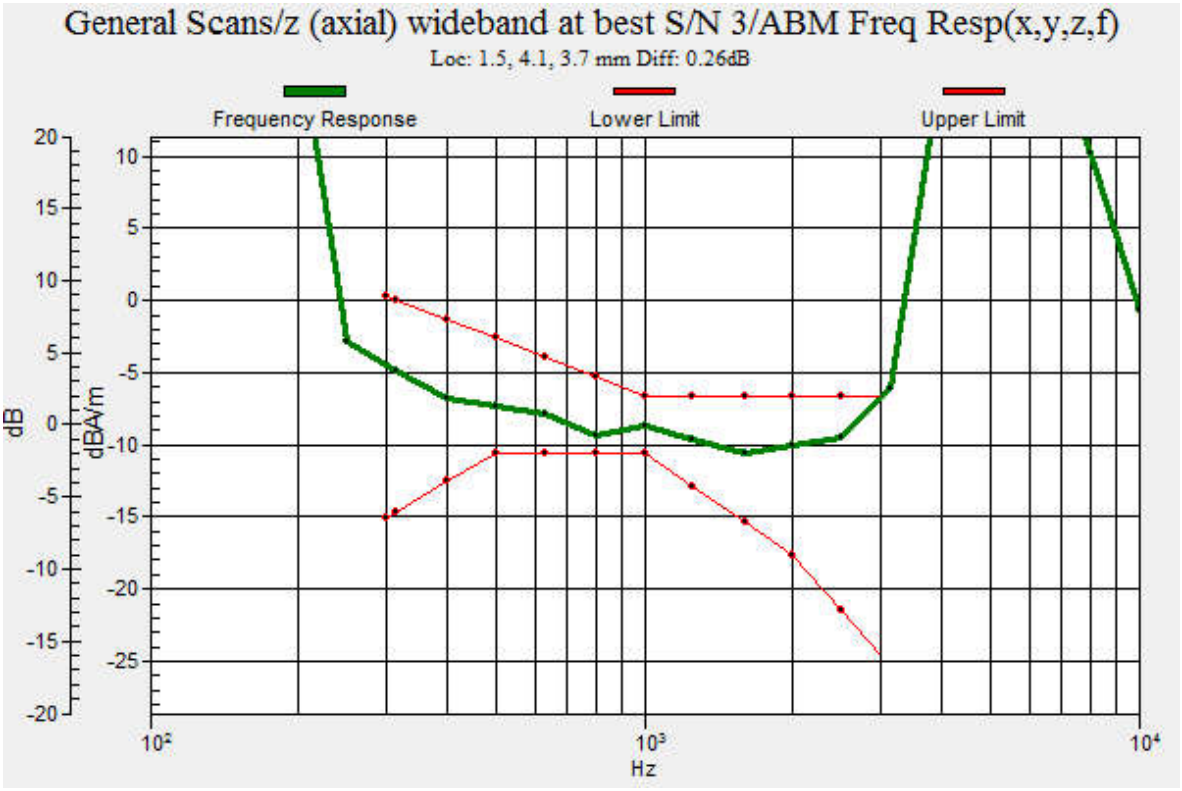
DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 38.61 dB
ABM1 comp = -4.94 dBA/m
BWC Factor = 0.16 dB
Location: 1.7, 4.2, 3.7 mm



0 dB = 85.26 = 38.61 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 1.5, 4.1, 3.7 mm Diff: 0.26dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
10
5
0
-5
-10
-15
-20
-25
10²
10³
10⁴

Date: 2023-04-27

Test Laboratory: SGS-SAR Lab

U680AA HAC-VOIP-LTE Band 2 20M QPSK 100RB0 18900CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 1880 MHz;Duty Cycle: 1:1

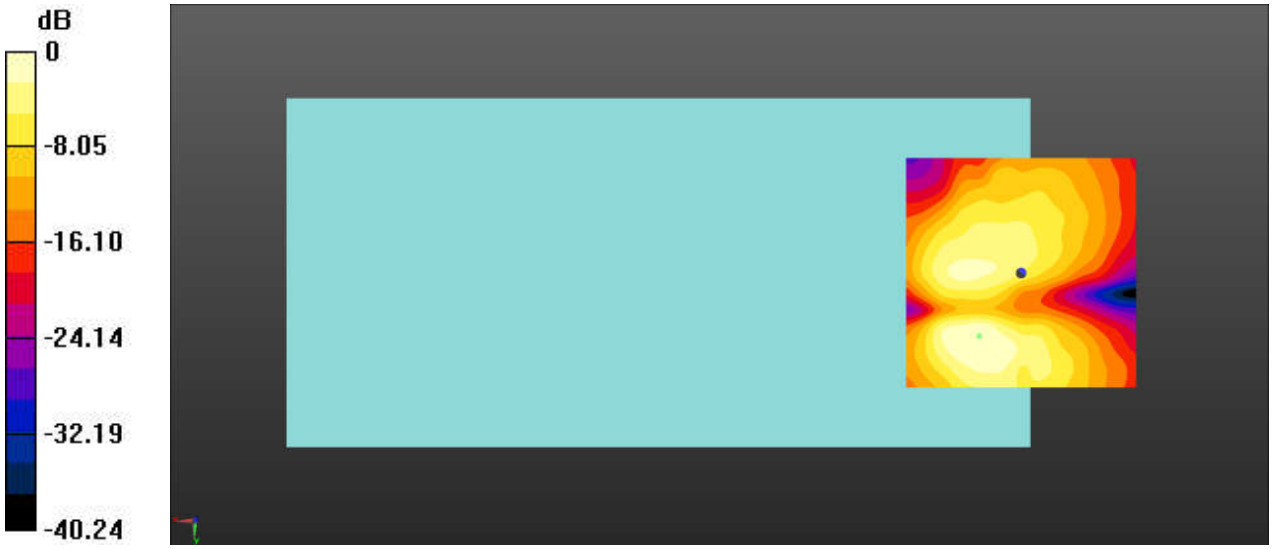
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 35.62 dB
ABM1 comp = 1.28 dBA/m
BWC Factor = 0.16 dB
Location: 9.2, 13.7, 3.7 mm



0 dB = 60.38 = 35.62 dB

Date: 2023-04-27

Test Laboratory: SGS-SAR Lab

U680AA HAC-VOIP-WiFi 2.4G 802.11b 6CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2437 MHz;Duty Cycle: 1:1

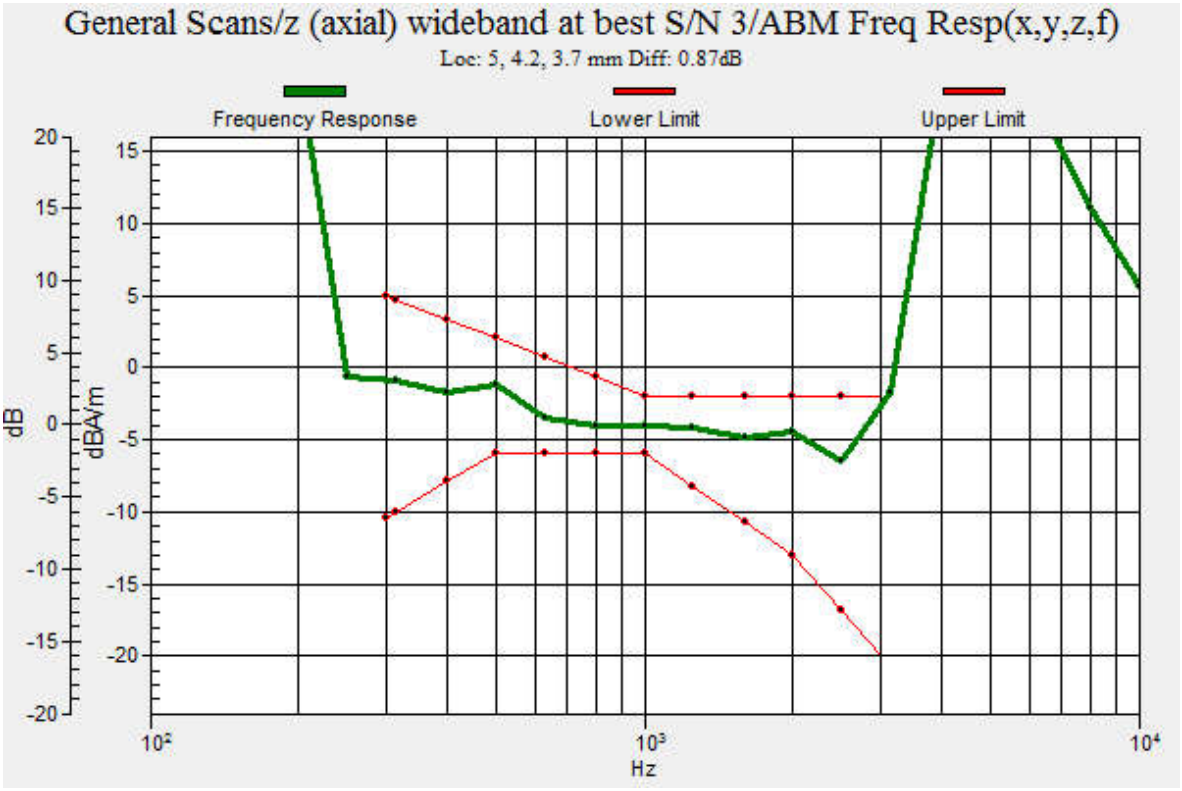
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 37.65 dB
ABM1 comp = 1.36 dBA/m
BWC Factor = 0.16 dB
Location: 5, 4.2, 3.7 mm

0 dB = 76.31 = 37.65 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 5, 4.2, 3.7 mm Diff: 0.87dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz

Date: 2023-04-27

Test Laboratory: SGS-SAR Lab

U680AA HAC-VOIP-WiFi 2.4G 802.11b 6CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2437 MHz;Duty Cycle: 1:1

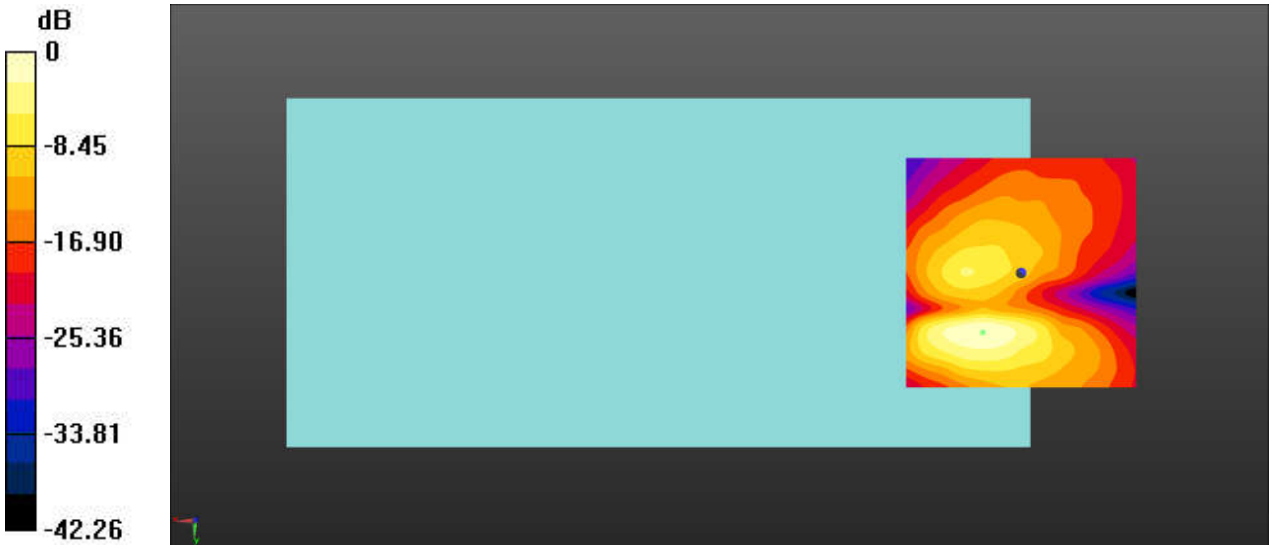
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 37.58 dB
ABM1 comp = 0.01 dBA/m
BWC Factor = 0.16 dB
Location: 8.3, 12.9, 3.7 mm



0 dB = 75.66 = 37.58 dB

Date: 2023-04-27

Test Laboratory: SGS-SAR Lab

U680AA HAC-VOIP-WiFi 5G 802.11a 40CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

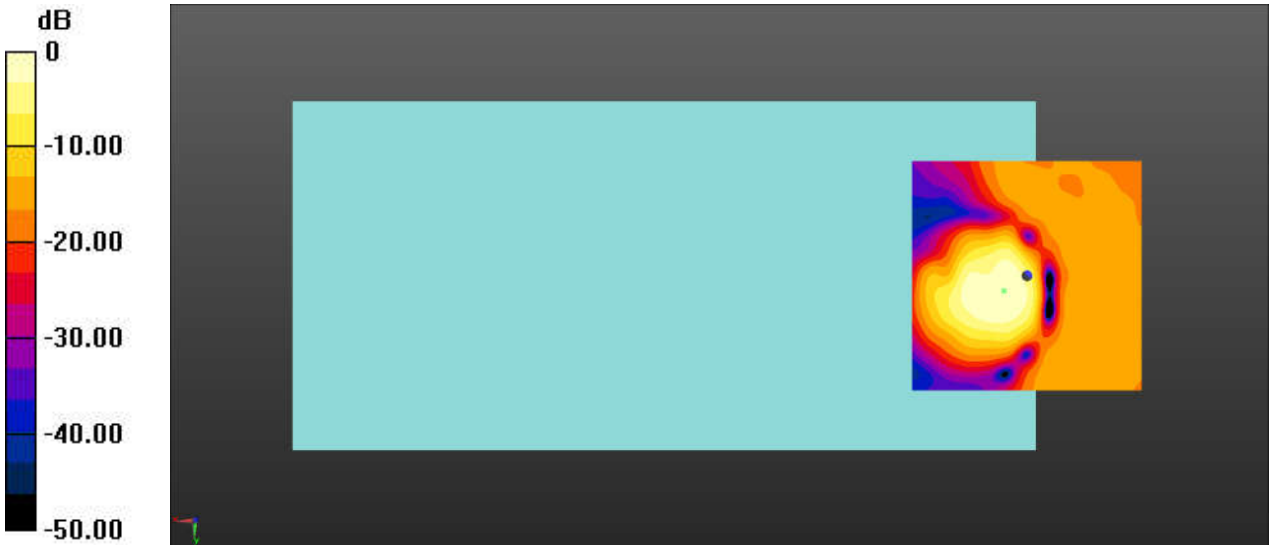
Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5200 MHz;Duty Cycle: 1:1

Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

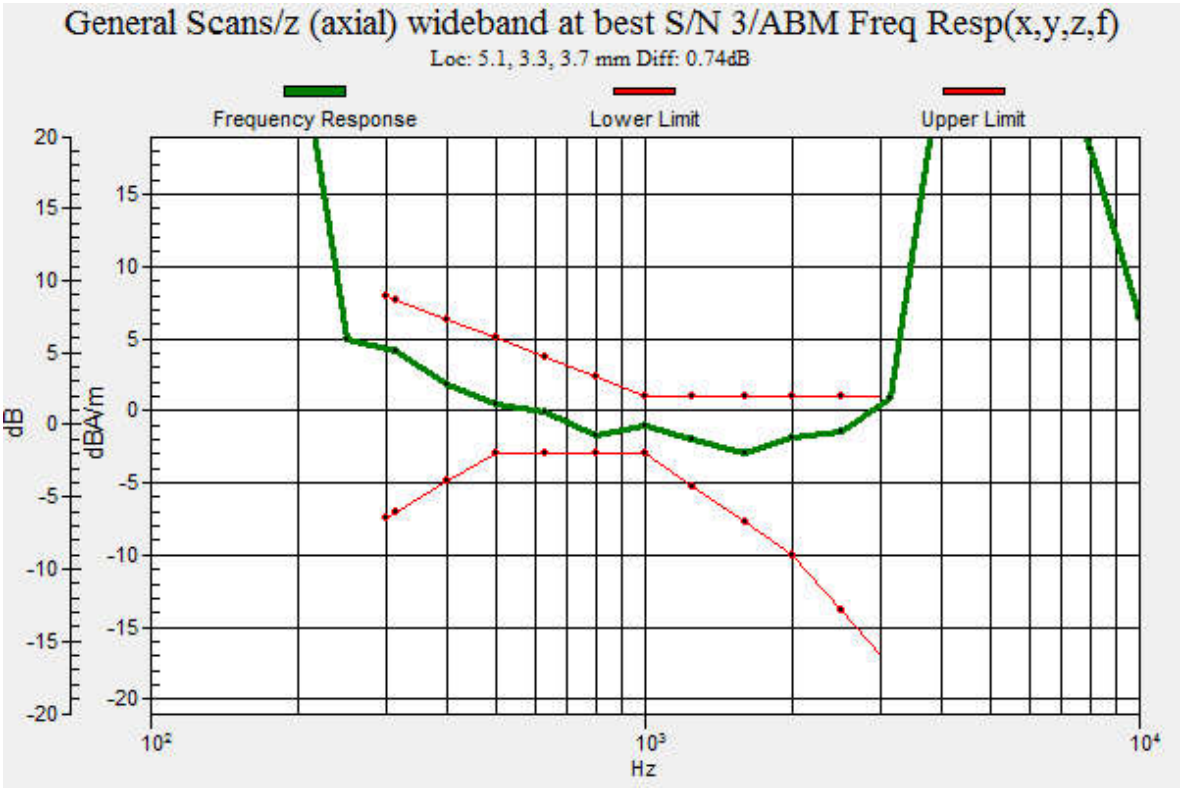
DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 38.09 dB
ABM1 comp = 2.06 dBA/m
BWC Factor = 0.16 dB
Location: 5, 3.3, 3.7 mm



0 dB = 80.24 = 38.09 dB


General Scans/z (axial) wideband at best S/N 3/ABM Freq Resp(x,y,z,f)
Loc: 5.1, 3.3, 3.7 mm Diff: 0.74dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz

Date: 2023-04-27

Test Laboratory: SGS-SAR Lab

U680AA HAC-VOIP-WiFi 5G 802.11a 40CH

DUT: U680AA; Type: Smart Phone; Serial: 861745060002092

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5200 MHz;Duty Cycle: 1:1

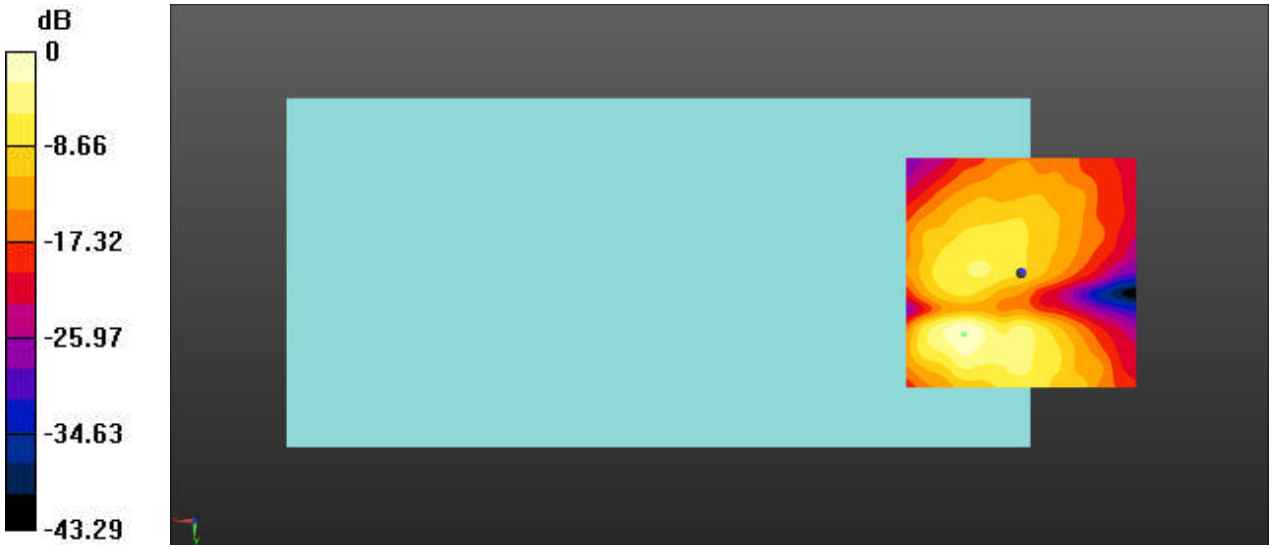
Medium: Air;Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Phantom section: TCoil Section

DASY 5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2022-06-13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1324; Calibrated: 2022-10-17
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

T-Coil scan/General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR (x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

ABM1/ABM2 = 38.79 dB
ABM1 comp = 3.63 dBA/m
BWC Factor = 0.16 dB
Location: 12.5, 13.3, 3.7 mm



0 dB = 86.96 = 38.79 dB