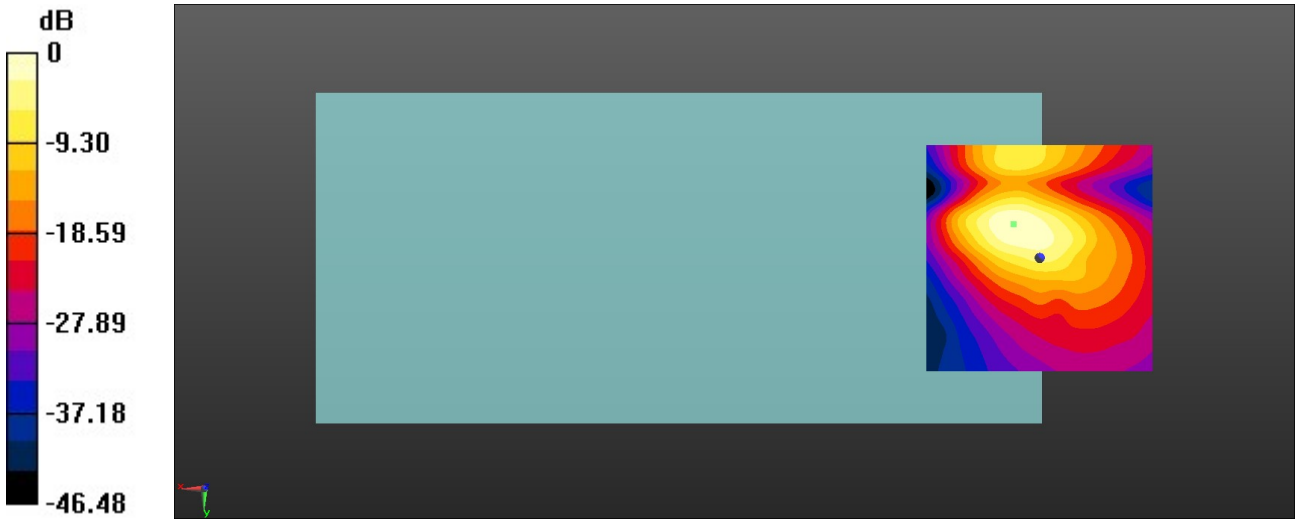
12_HAC T-Coil_LTE Band 41_20M_16QAM_1RB_0Offset_Ch40620(Y)

Communication System: UID 0, LTE-TDD (0); Frequency: 2593 MHz;Duty Cycle: 1:2.33
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

DASY5 Configuration:
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch40620/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 = 60.19 dB
ABM1 comp = 17.56 dBA/m
Location: 5.8, -7.5, 3.7 mm



0 dB = 1022 = 60.19 dB

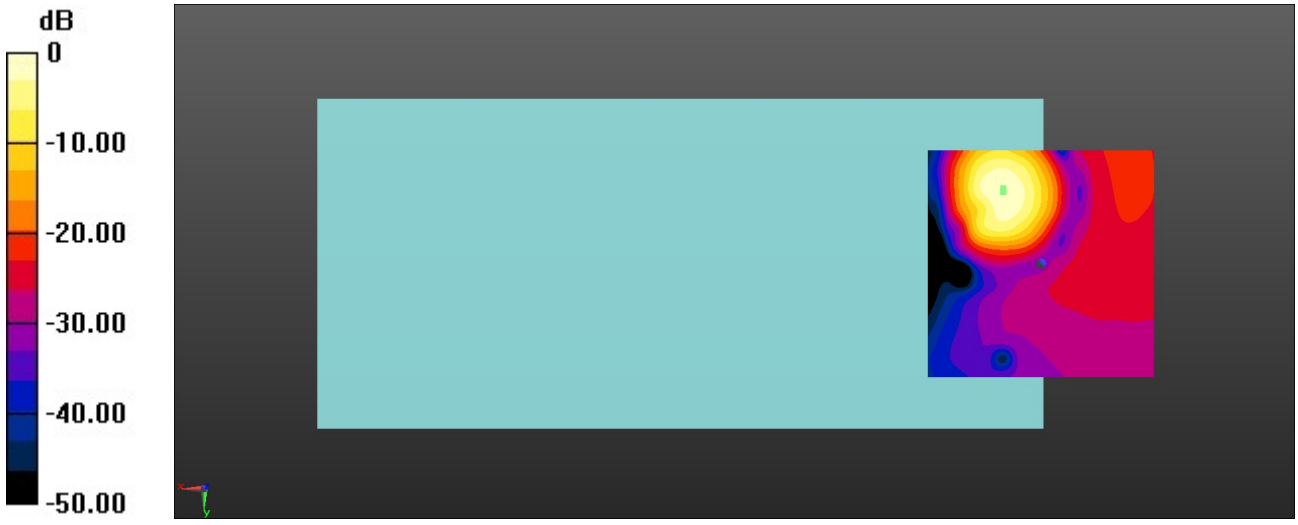
13_HAC T-Coil_LTE Band 42_20M_16QAM_1RB_0Offset_Ch42590(Z)

Communication System: UID 0, LTE-TDD (0); Frequency: 3500 MHz;Duty Cycle: 1:1.59
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

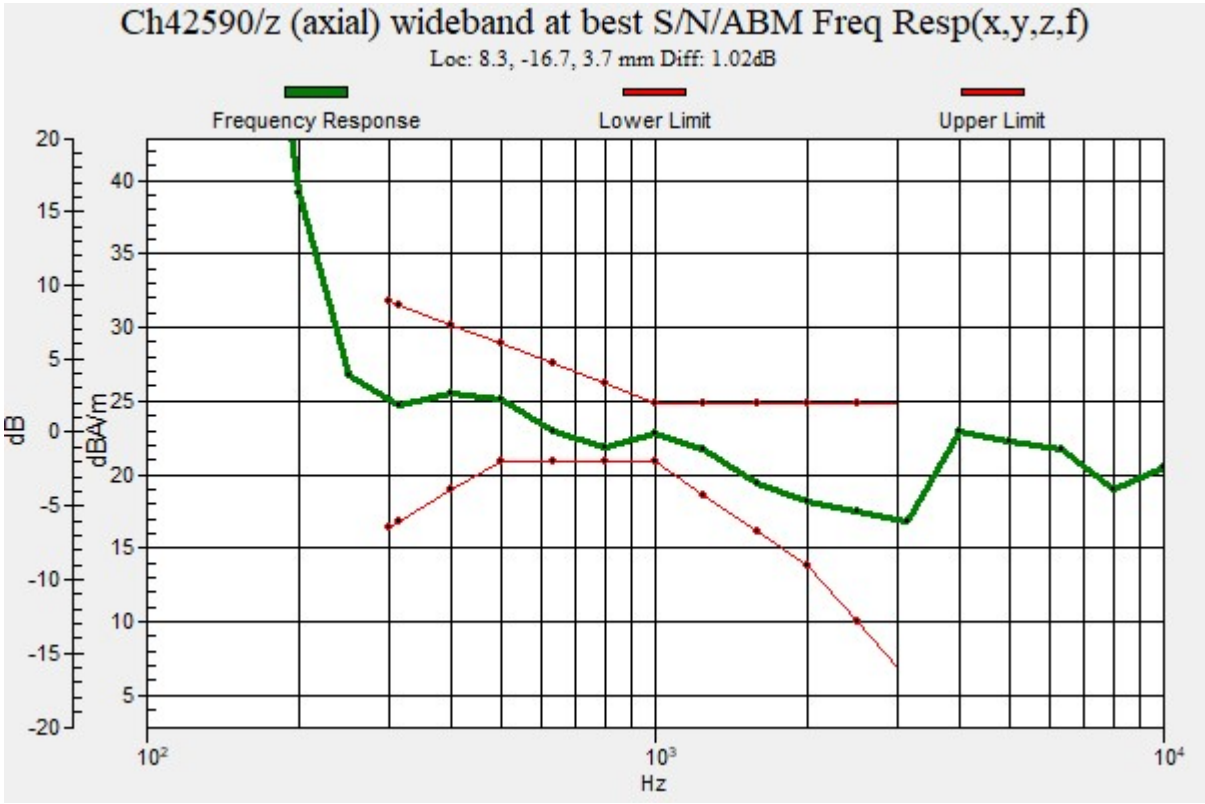
DASY5 Configuration:
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch42590/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 = 57.77 dB
ABM1 comp = 22.67 dBA/m
Location: 8.3, -15.8, 3.7 mm



0 dB = 774.0 = 57.77 dB


Ch42590/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 8.3, -16.7, 3.7 mm Diff: 1.02dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
40
35
30
25
20
15
10
5
10^2
10^3
10^4

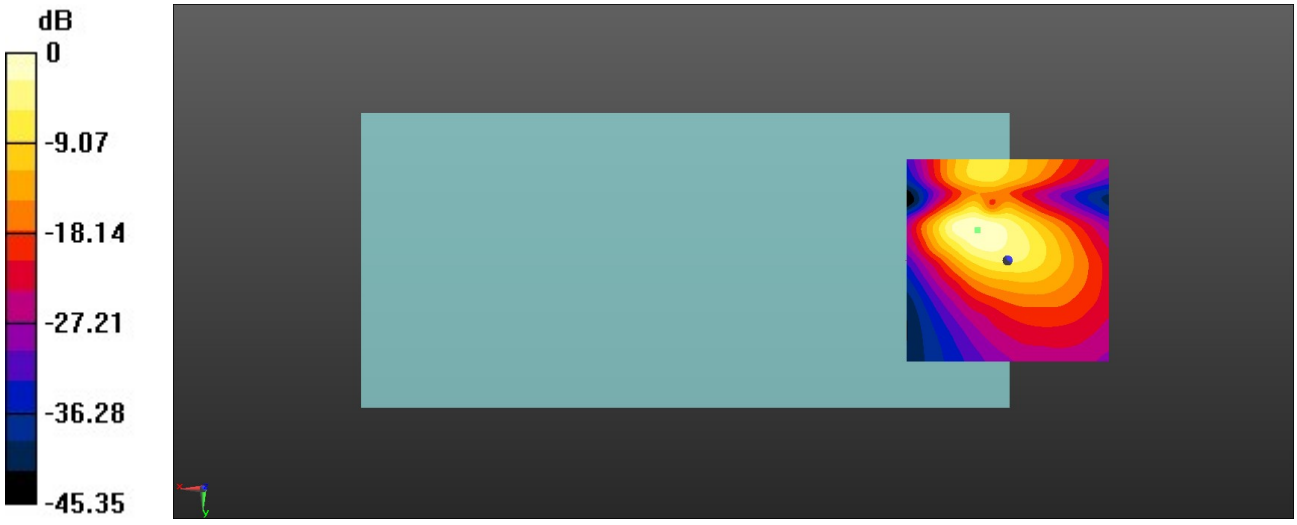
13_HAC T-Coil_LTE Band 42_20M_16QAM_1RB_0Offset_Ch42590(Y)

Communication System: UID 0, LTE-TDD (0); Frequency: 3500 MHz;Duty Cycle: 1:1.59
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

DASY5 Configuration:
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch42590/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 = 55.17 dB
ABM1 comp = 14.83 dBA/m
Location: 7.5, -7.5, 3.7 mm



0 dB = 573.5 = 55.17 dB

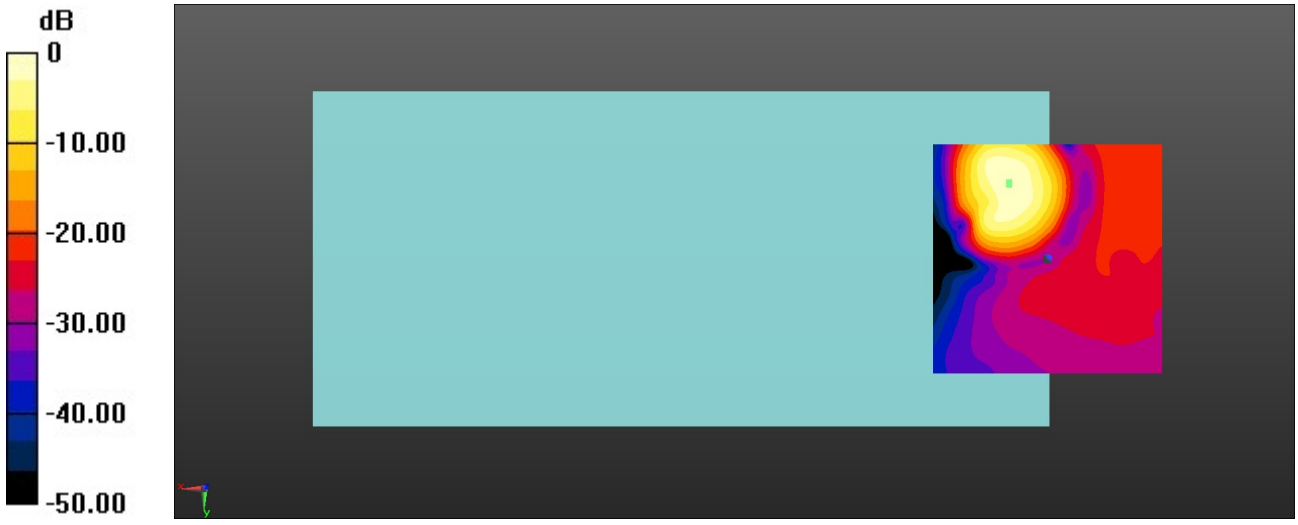
14_HAC T-Coil_LTE Band 48_20M_16QAM_1RB_0Offset_Ch55830(Z)

Communication System: UID 0, LTE-TDD (0); Frequency: 3609 MHz;Duty Cycle: 1:1.59
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

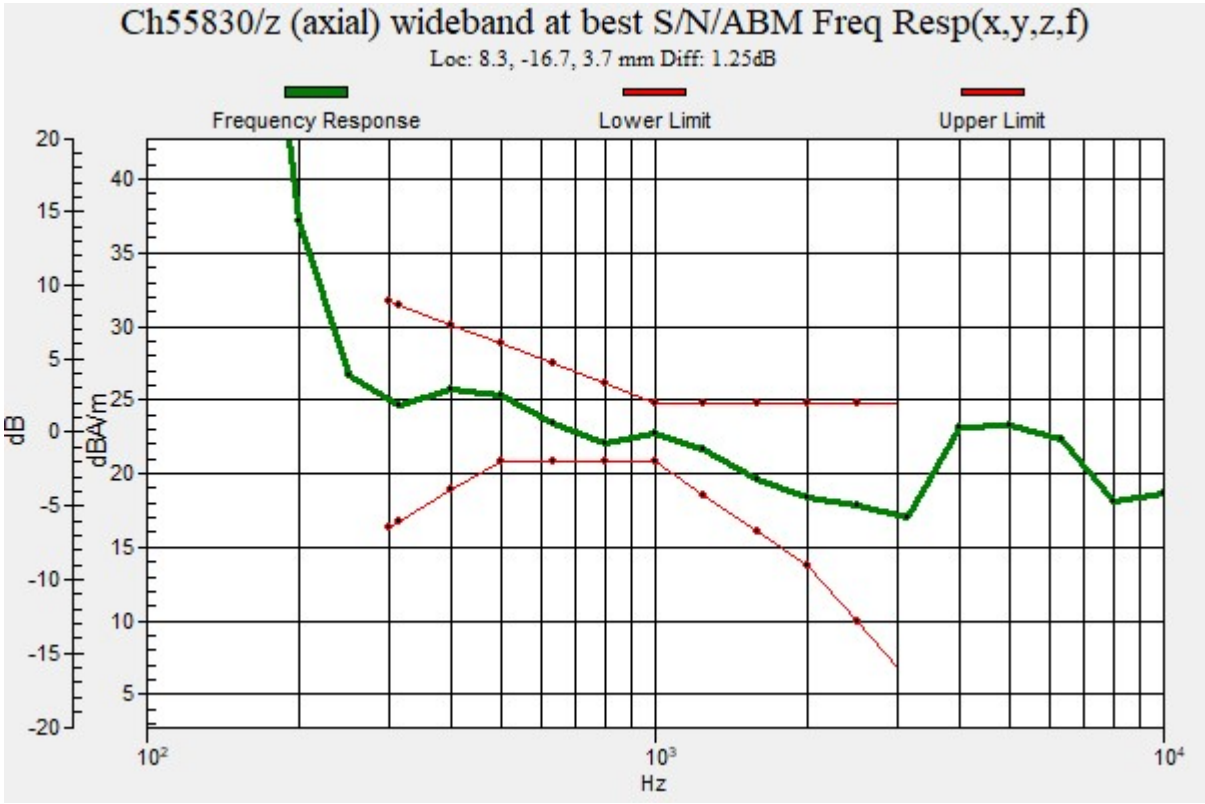
DASY5 Configuration:
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch55830/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 = 59.65 dB
ABM1 comp = 22.72 dBA/m
Location: 8.3, -16.3, 3.7 mm



0 dB = 960.3 = 59.65 dB


Ch55830/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 8.3, -16.7, 3.7 mm Diff: 1.25dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz

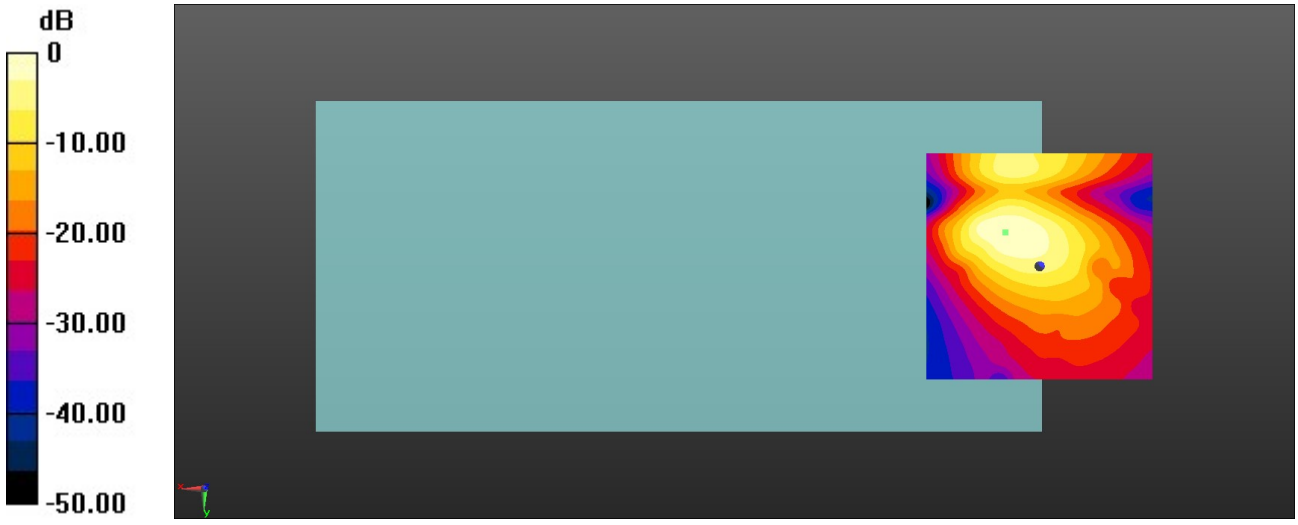
14_HAC T-Coil_LTE Band 48_20M_16QAM_1RB_0Offset_Ch55830(Y)

Communication System: UID 0, LTE-TDD (0); Frequency: 3609 MHz;Duty Cycle: 1:1.59
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

DASY5 Configuration:
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch55830/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 = 57.07 dB
ABM1 comp = 14.85 dBA/m
Location: 7.5, -7.5, 3.7 mm



0 dB = 713.5 = 57.07 dB

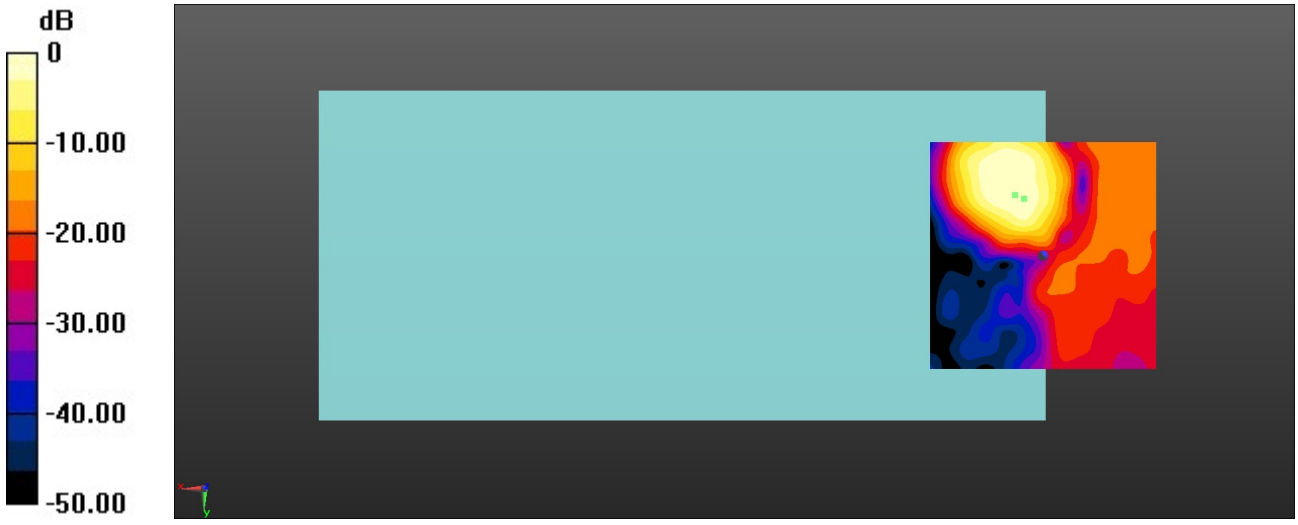
Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2022/9/17

15_HAC T-Coil_WLAN2.4G_802.11b 1Mbps_Ch6(Z)

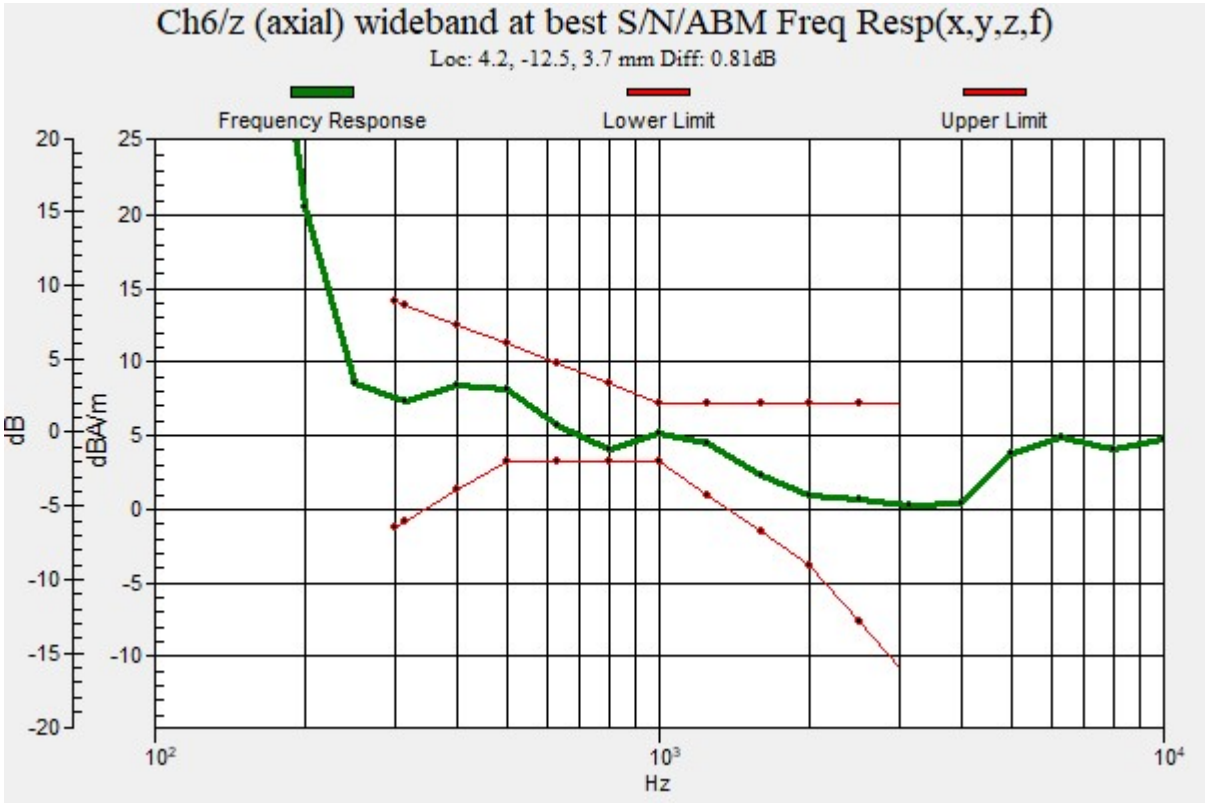
Communication System: UID 0, WLAN2.4GHz (0); Frequency: 2437 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

DASY5 Configuration:
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Ch6/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 = 49.35 dB
ABM1 comp = 10.23 dBA/m
Location: 6.3, -13.3, 3.7 mm



0 dB = 293.3 = 49.35 dB


Ch6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.2, -12.5, 3.7 mm Diff: 0.81dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
25
20
15
10
5
0
-5
-10
10^2
10^3
10^4

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2022/9/17

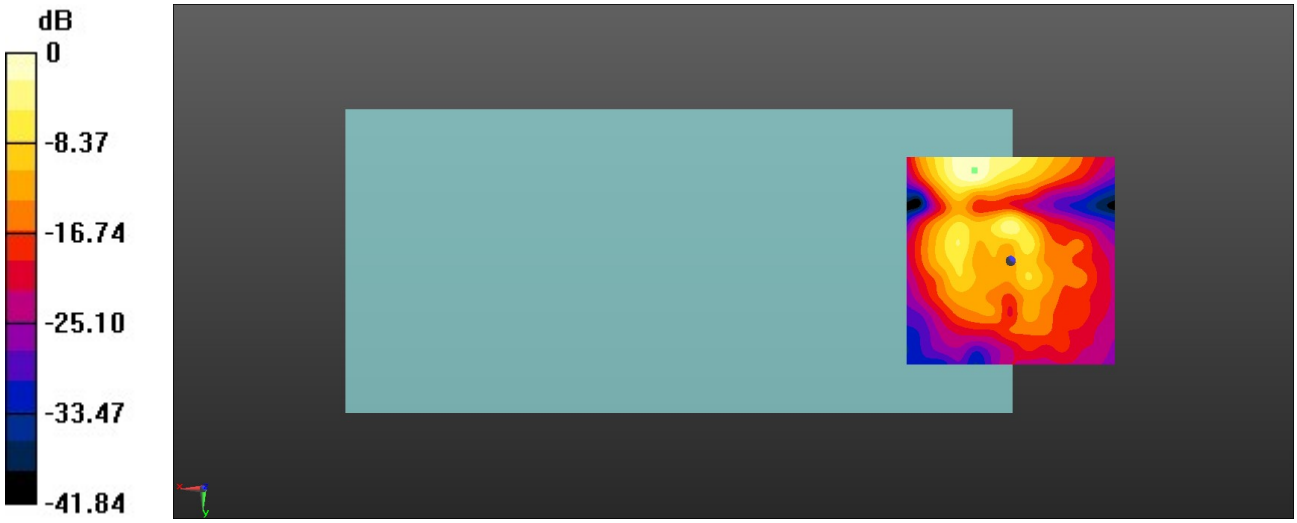
15_HAC T-Coil_WLAN2.4G_802.11b 1Mbps_Ch6(Y)

Communication System: UID 0, WLAN2.4GHz (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
Ambient Temperature：23.3 ℃;

DASY5 Configuration:
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch6/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 = 4.26 dBA/m
Location: 8.8, -21.7, 3.7 mm



0 dB = 193.9 = 45.75 dB

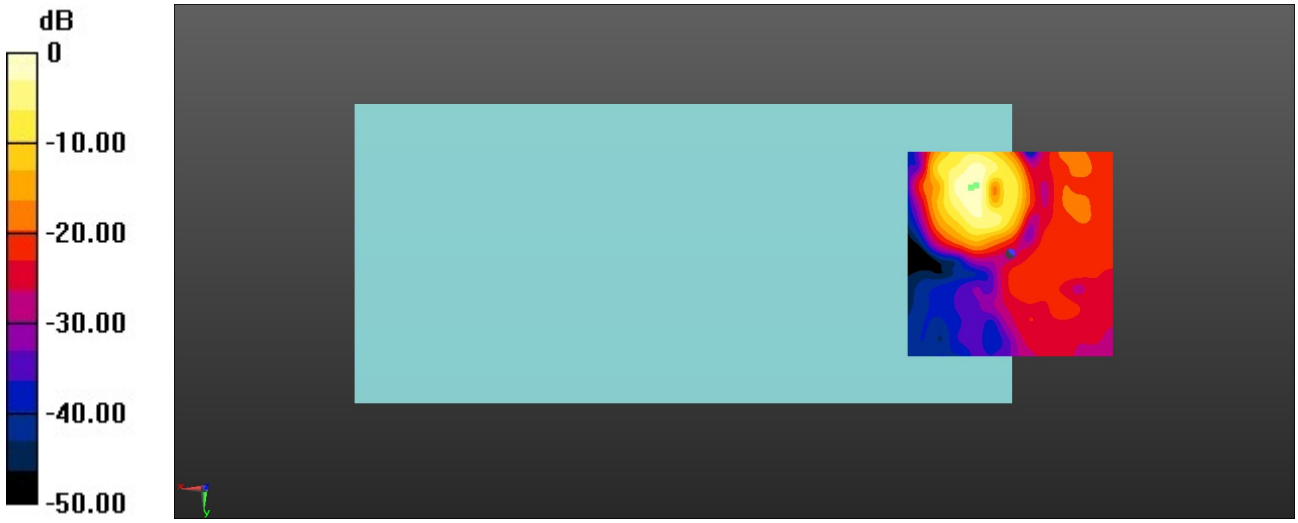
Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2022/9/18

16_HAC T-Coil_WLAN 5GHz_802.11a 6Mbps_Ch40(Z)

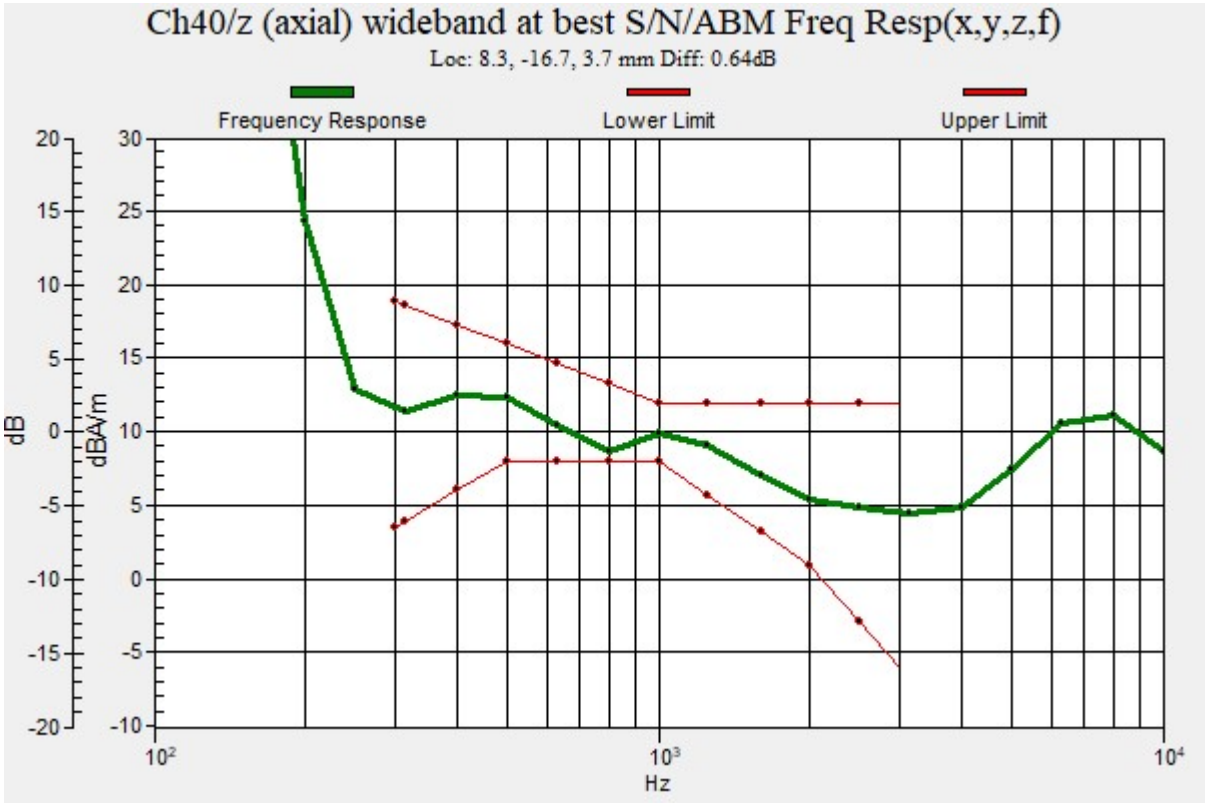
Communication System: UID 0, WLAN5GHz (0); Frequency: 5200 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

DASY5 Configuration:
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch40/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 = 51.70 dB
ABM1 comp = 12.47 dBA/m
Location: 9.6, -16.3, 3.7 mm



0 dB = 384.8 = 51.70 dB


Ch40/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 8.3, -16.7, 3.7 mm Diff: 0.64dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
30
25
20
15
10
5
0
-5
-10
10^2
10^3
10^4

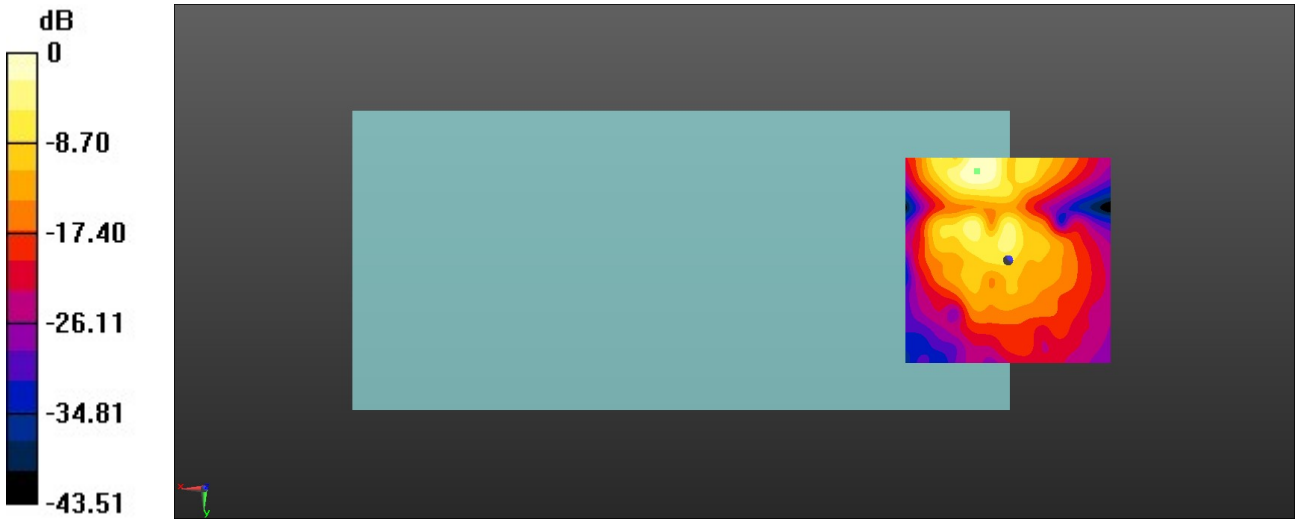
16_HAC T-Coil_WLAN 5GHz_802.11a 6Mbps_Ch40(Y)

Communication System: UID 0, WLAN5GHz (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
Ambient Temperature：23.3 ℃;

DASY5 Configuration:
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch40/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 = 47.57 dB
ABM1 comp = 3.89 dBA/m
Location: 7.5, -21.7, 3.7 mm



0 dB = 239.1 = 47.57 dB

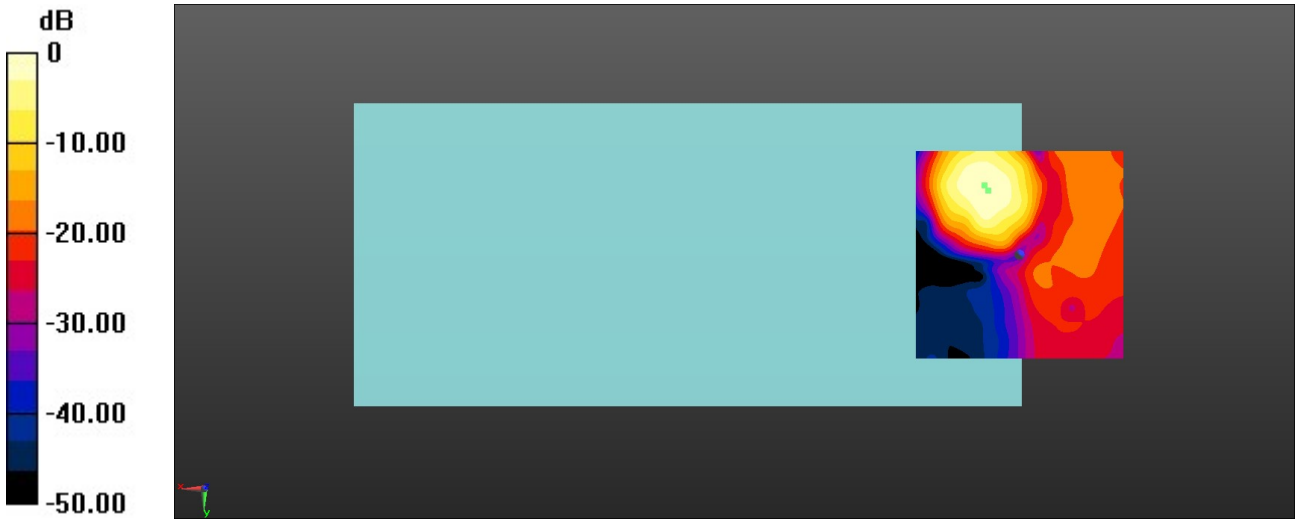
Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2022/9/18

17_HAC T-Coil_WLAN 5GHz_802.11a 6Mbps_Ch60(Z)

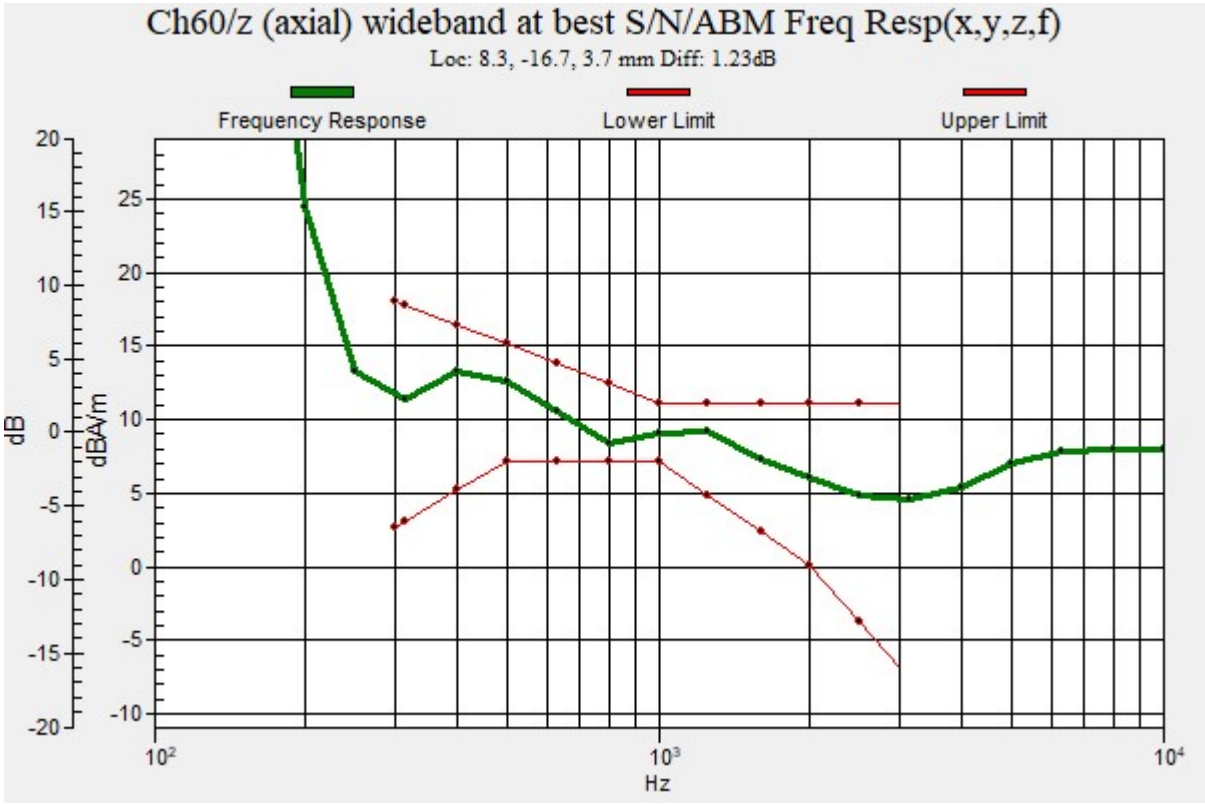
Communication System: UID 0, WLAN5GHz (0); Frequency: 5300 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

DASY5 Configuration:
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch60/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 = 50.13 dB
ABM1 comp = 11.27 dBA/m
Location: 7.5, -15.4, 3.7 mm



0 dB = 321.0 = 50.13 dB


Ch60/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 8.3, -16.7, 3.7 mm Diff: 1.23dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
25
20
15
10
5
0
-5
-10
10^2
10^3
10^4

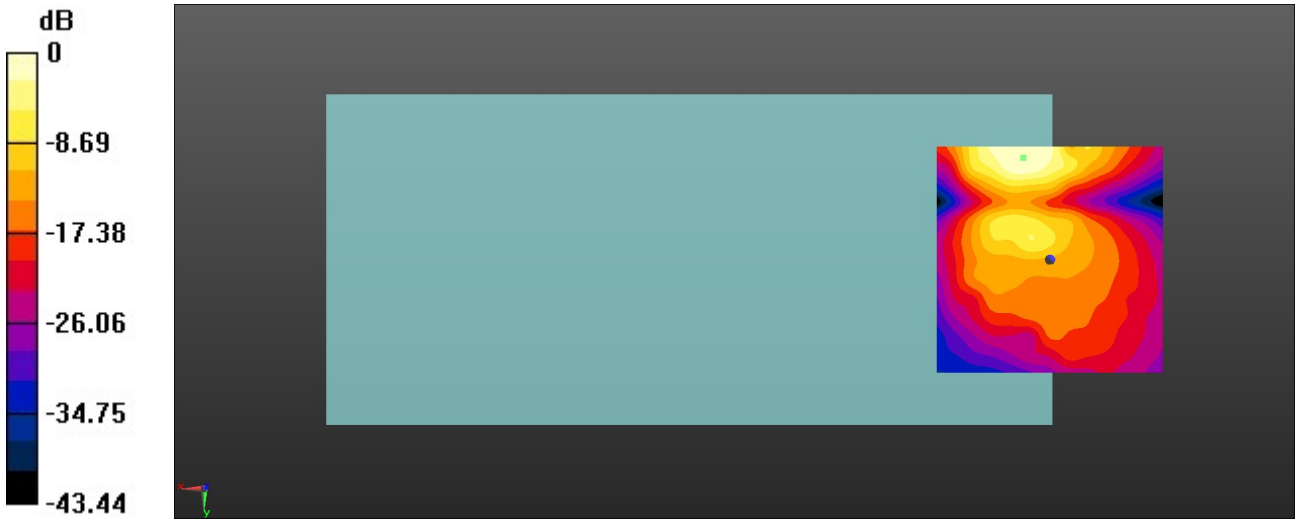
17_HAC T-Coil_WLAN 5GHz_802.11a 6Mbps_Ch60(Y)

Communication System: UID 0, WLAN5GHz (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
Ambient Temperature：23.3 ℃;

DASY5 Configuration:
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch60/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 = 46.93 dB
ABM1 comp = 2.43 dBA/m
Location: 5.8, -22.5, 3.7 mm



0 dB = 222.2 = 46.93 dB

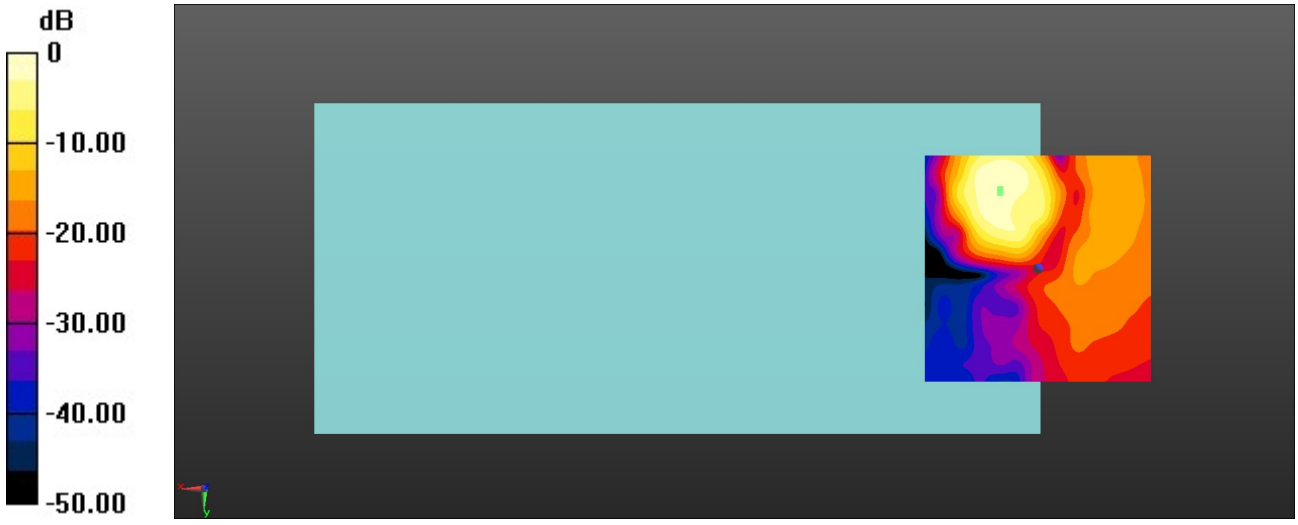
Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2022/9/18

18_HAC T-Coil_WLAN 5GHz_802.11a 6Mbps_Ch116(Z)

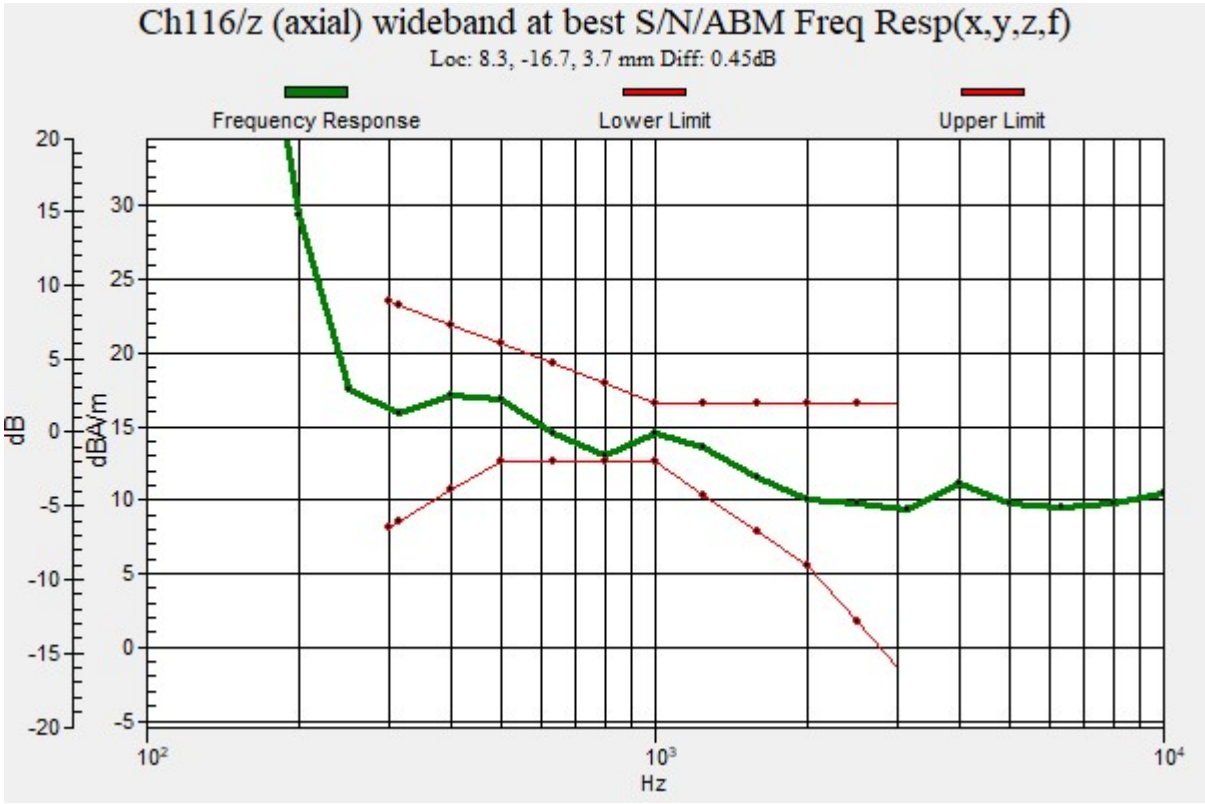
Communication System: UID 0, WLAN5GHz (0); Frequency: 5580 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

DASY5 Configuration:
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch116/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 = 50.68 dB
ABM1 comp = 12.63 dBA/m
Location: 8.3, -17.5, 3.7 mm



0 dB = 342.1 = 50.68 dB


Ch116/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 8.3, -16.7, 3.7 mm Diff: 0.45dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz

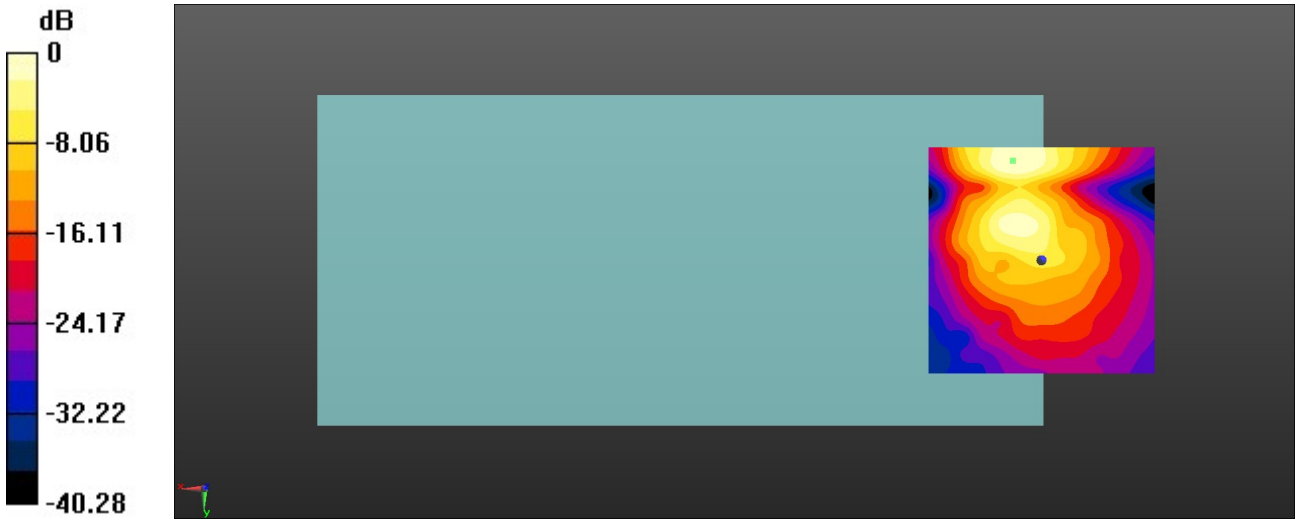
18_HAC T-Coil_WLAN 5GHz_802.11a 6Mbps_Ch116(Y)

Communication System: UID 0, WLAN5GHz (0); Frequency: 5580 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

DASY5 Configuration:
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch116/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 = 50.55 dB
ABM1 comp = 6.43 dBA/m
Location: 6.3, -22.1, 3.7 mm



0 dB = 336.8 = 50.55 dB

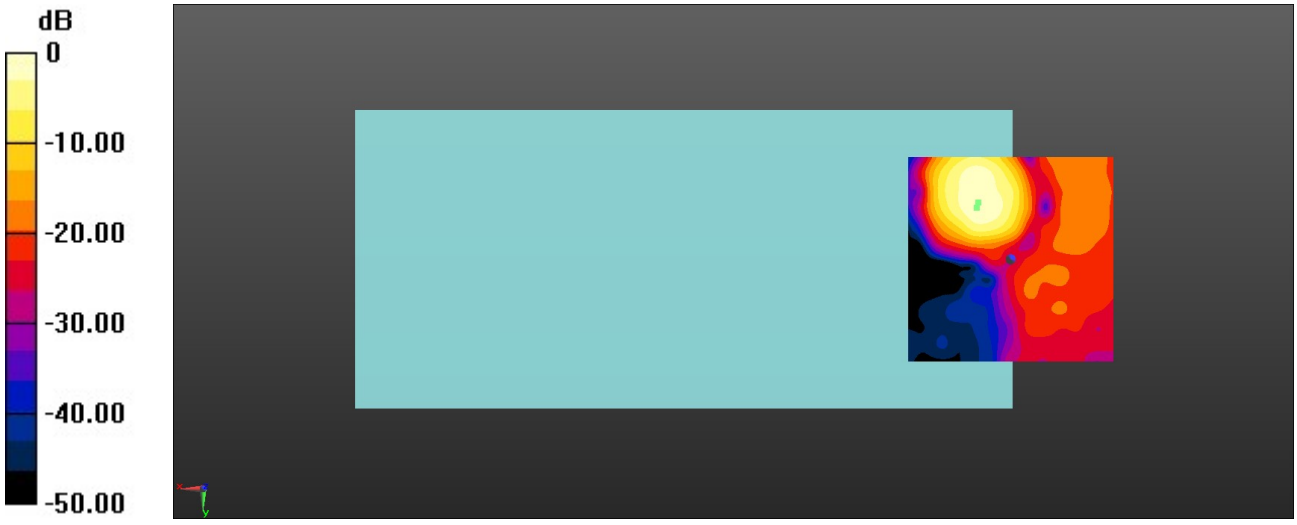
Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2022/9/18

19_HAC T-Coil_WLAN 5GHz_802.11a 6Mbps_Ch157(Z)

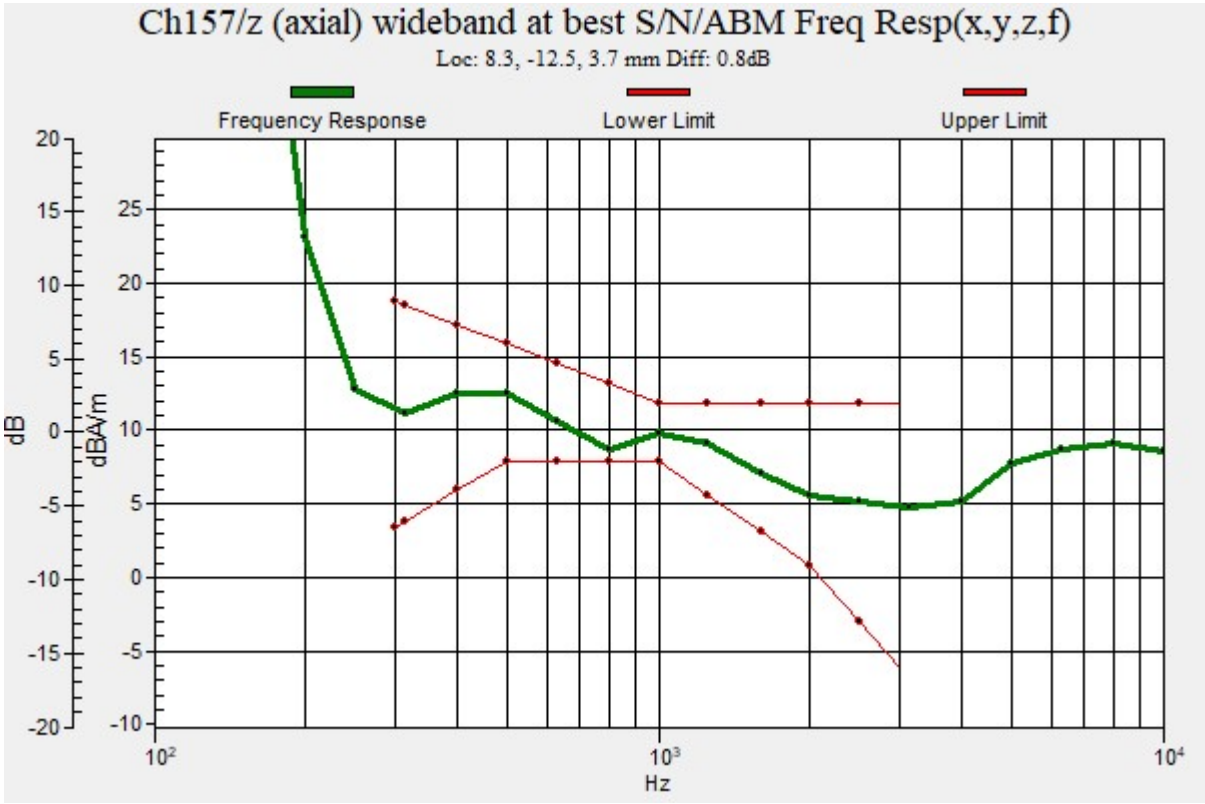
Communication System: UID 0, WLAN5GHz (0); Frequency: 5785 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

DASY5 Configuration:
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch157/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 = 50.71 dB
ABM1 comp = 11.99 dBA/m
Location: 7.9, -13.8, 3.7 mm



0 dB = 343.0 = 50.71 dB


Ch157/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 8.3, -12.5, 3.7 mm Diff: 0.8dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2022/9/18

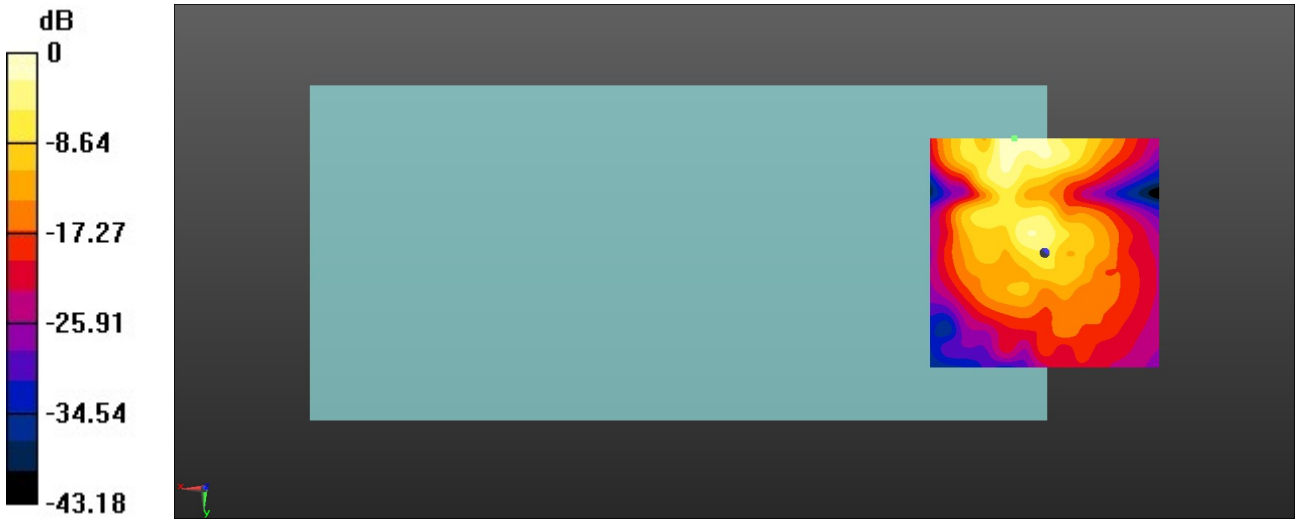
19_HAC T-Coil_WLAN 5GHz_802.11a 6Mbps_Ch157(Y)

Communication System: UID 0, WLAN5GHz (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
Ambient Temperature：23.3 ℃;

DASY5 Configuration:
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch157/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 = 46.49 dB
ABM1 comp = 2.16 dBA/m
Location: 6.7, -25, 3.7 mm



0 dB = 211.1 = 46.49 dB