Hearing Aid Compatibility (HAC) Test Report

<For T-Coil Measurement>

Applicant Name	MoJoose Inc.
Address of Applicant	65 Enterprise, Aliso Viejo, CA 92656, USA
EUT Name	mJoose 3-in-1 Case
Brand Name	Mjoose
Model No.	MJ-i68-1001
Date of receive	Feb. 01, 2016
Date of Test(s)	Jan. 19, 2016 ~ Jan. 29, 2016
Date of Issue	Apr. 08, 2016

Standards:

ANSI C63.19-2011

FCC RULE PART(S): 47 CFR PART 20.19(B)
HAC CATEGORY: T4 (T Category)

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS Taiwan Electronics & Communication Laboratory or testing done by SGS Taiwan Electronics & Communication Laboratory in connection with distribution or use of the product described in this report must be approved by SGS Taiwan Electronics & Communication Laboratory in writing.

Signed on behalf of SGS

Engineer	**Supervisor**
Matt Kuo	John Yeh
Matt Kuo	**John Yeh**
Date: Apr. 08, 2016	**Date: Apr. 08, 2016**

Revision History

Report Number	Revision	Description	Issue Date
E5/2016/20001A-01	Rev.00	Initial creation of document	Feb. 04, 2016
E5/2016/20001A-01	Rev.01	1st Modification	Feb. 05, 2016
E5/2016/20001A-01	Rev.02	2nd Modification	Apr. 08, 2016

1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Electronics & Communication Laboratory	
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TEL	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	http://www.tw.sgs.com/

1.2 Details of Applicant

Company Name	MoJoose Inc.
Company Address	65 Enterprise, Aliso Viejo, CA 92656, USA

2. Summary of Results

Host phone: Apple iPhone 6
FCC ID: BCG-E2816A
T-coil Test Results Without MoJoose Case

Mode	CH. No/Freq.	Probe orientation	ABM1 ≥-18dBm (A/m)	ABM SNR (dB)	T-Rating
GSM 850 Voice Coder: Speechcod./Handset Low	190/ 836.6 MHz	z (Axial):	9.29	51.30	T4
		y (transversal):	2.62	50.06	T4
GSM 1900 Voice Coder: Speechcod./Handset Low	661/ 1880 MHz	z (Axial):	9.95	53.45	T4
		y (transversal):	3.20	50.94	T4
WCDMA Band 2 Voice Coder: Speechcod./Handset Low	9400/ 1880 MHz	z (Axial):	10.47	57.50	T4
		y (transversal):	2.94	51.80	T4
WCDMA Band 4 Voice Coder: Speechcod./Handset Low	1413/ 1732.6 MHz	z (Axial):	10.80	55.42	T4
		y (transversal):	3.22	51.62	T4
WCDMA Band 5 Voice Coder: Speechcod./Handset Low	4183/ 836.6 MHz	z (Axial):	10.50	55.51	T4
		y (transversal):	3.71	50.34	T4
CDMA2000, BC0 RC1/SO3 Voice Coder: 8k EVRC (Low)	384/ 836.52 MHz	z (Axial):	3.29	52.45	T4
		y (transversal):	-1.98	47.19	T4
CDMA2000, BC1 RC1/SO3 Voice Coder: 8k EVRC (Low)	600/ 1880 MHz	z (Axial):	5.36	50.38	T4
		y (transversal):	-2.71	44.28	T4
CDMA2000, BC10 RC1/SO3 Voice Coder: 8k EVRC (Low)	580/ 820.5 MHz	z (Axial):	5.01	50.31	T4
		y (transversal):	-3.60	43.57	T4
CDMA2000, BC15 RC1/SO3 Voice Coder: 8k EVRC (Low)	450/ 1732.5 MHz	z (Axial):	5.52	48.68	T4
		y (transversal):	-2.62	44.51	T4

T-coil Test Results With MoJoose Case

Mode	CH. No/Freq.	Probe orientation	ABM1 ≥-18dBm (A/m)	ABM SNR (dB)	T-Rating
GSM 850 Voice Coder: Speechcod./Handset Low	190/ 836.6 MHz	z (Axial):	11.45	48.82	T4
		y (transversal):	1.85	38.82	T4
GSM 1900 Voice Coder: Speechcod./Handset Low	661/ 1880 MHz	z (Axial):	11.21	51.48	T4
		y (transversal):	2.76	45.08	T4
WCDMA Band 2 Voice Coder: Speechcod./Handset Low	9400/ 1880 MHz	z (Axial):	10.20	56.35	T4
		y (transversal):	3.76	52.07	T4
WCDMA Band 4 Voice Coder: Speechcod./Handset Low	1413/ 1732.6 MHz	z (Axial):	8.52	56.80	T4
		y (transversal):	0.96	50.13	T4
WCDMA Band 5 Voice Coder: Speechcod./Handset Low	4183/ 836.6 MHz	z (Axial):	9.71	56.11	T4
		y (transversal):	3.48	51.32	T4
CDMA2000, BC0 RC1/SO3 Voice Coder: 8k EVRC (Low)	384/ 836.52 MHz	z (Axial):	4.42	49.69	T4
		y (transversal):	-5.68	40.92	T4
CDMA2000, BC1 RC1/SO3 Voice Coder: 8k EVRC (Low)	600/ 1880 MHz	z (Axial):	4.14	50.88	T4
		y (transversal):	-3.77	43.81	T4
CDMA2000, BC10 RC1/SO3 Voice Coder: 8k EVRC (Low)	580/ 820.5 MHz	z (Axial):	3.92	49.56	T4
		y (transversal):	-3.98	42.22	T4
CDMA2000, BC15 RC1/SO3 Voice Coder: 8k EVRC (Low)	450/ 1732.5 MHz	z (Axial):	3.87	47.90	T4
		y (transversal):	-4.51	41.92	T4

3. Measurement Data

Date: 2016/1/19

T-Coil-GSM 850_CH 190
Communication System: GSM; Frequency: 836.6 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

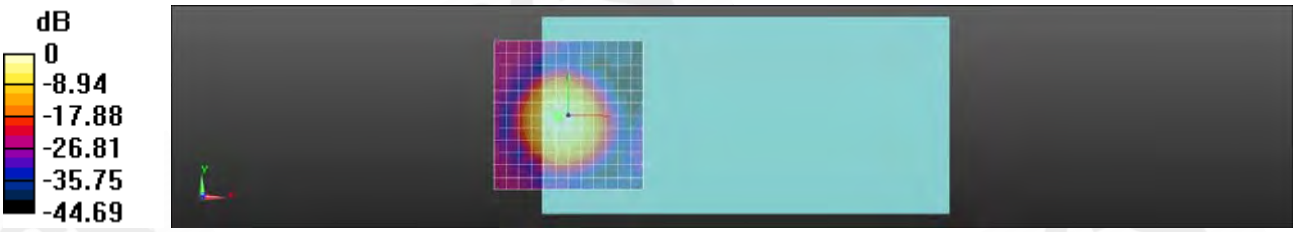
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.14 dB
Device Reference Point: 0, 0, -6.3 mm

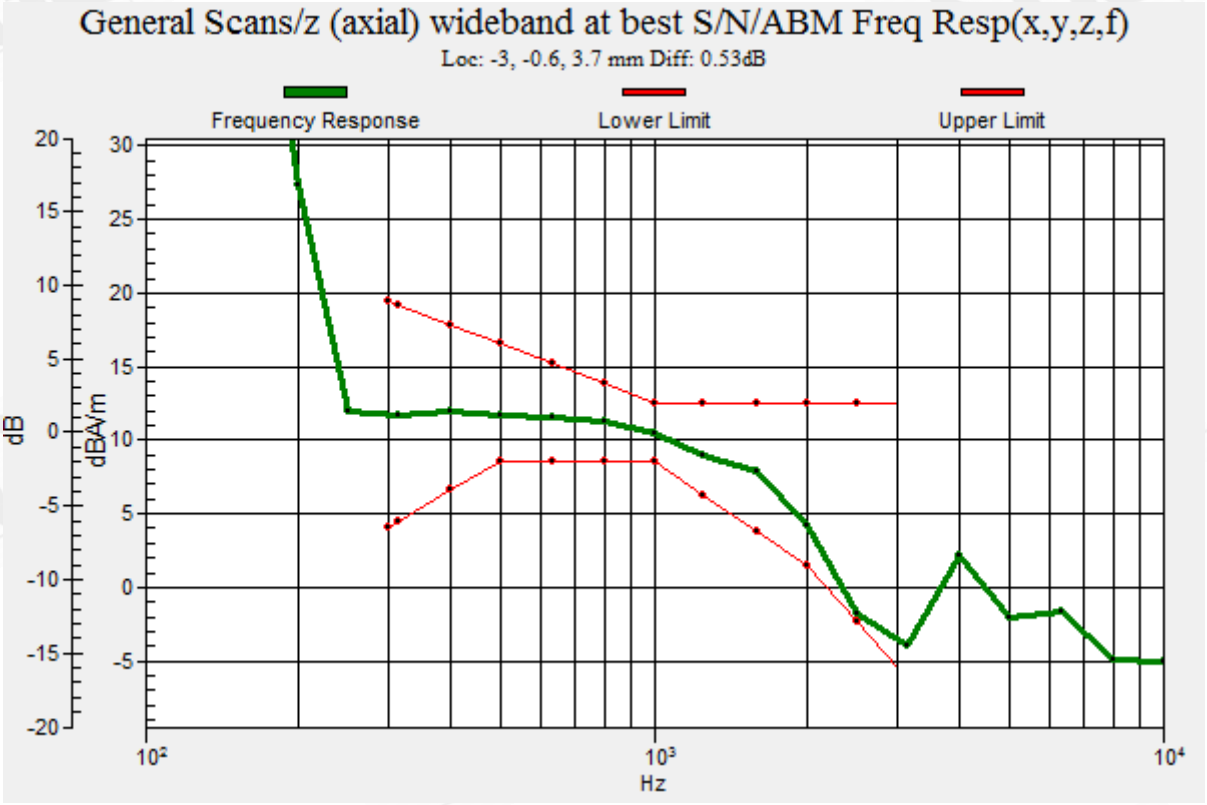
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 51.30 dB
ABM1 comp = 9.29 dBA/m
BWC Factor = 0.14 dB
Location: -4.2, 0, 3.7 mm

Cursor:
Diff = 0.53 dB
BWC Factor = 10.78 dB
Location: -3, -0.6, 3.7 mm



0 dB = 367.1 = 51.30 dB



Date: 2016/1/19

T-Coil-GSM 850_CH 190

Communication System: GSM; Frequency: 836.6 MHz
Medium parameters used: σ = 0 S/m, ε_r = 1; ρ = 1 kg/m^3
Phantom section: TCoil Section

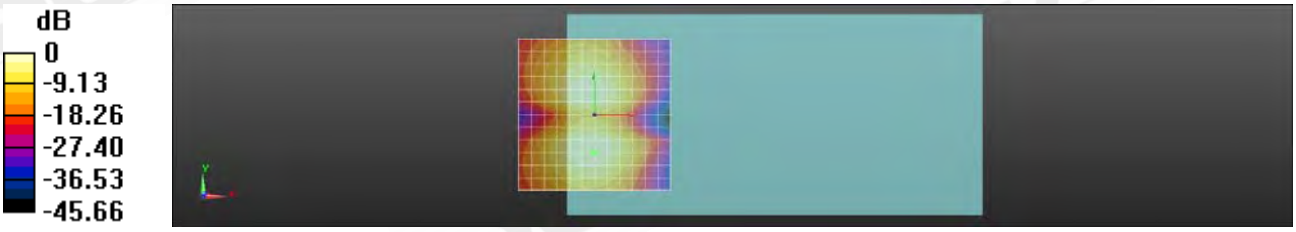
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.14 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 50.06 dB
ABM1 comp = 2.62 dBA/m
BWC Factor = 0.14 dB
Location: 0, -12.5, 3.7 mm



0 dB = 318.3 = 50.06 dB

Date: 2016/1/21

T-Coil-GSM 1900_CH 661

Communication System: GSM; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

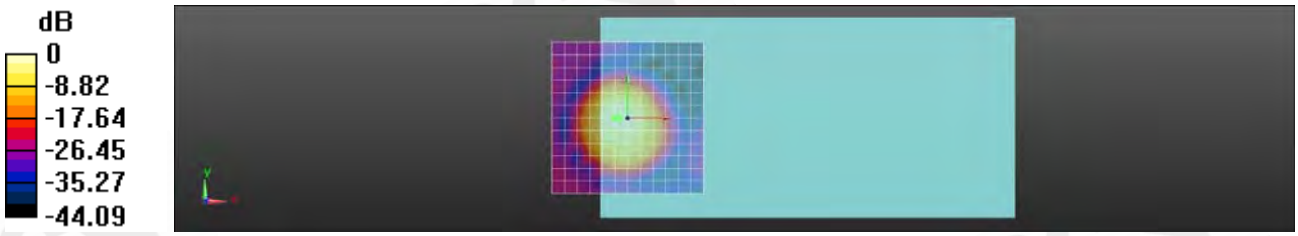
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

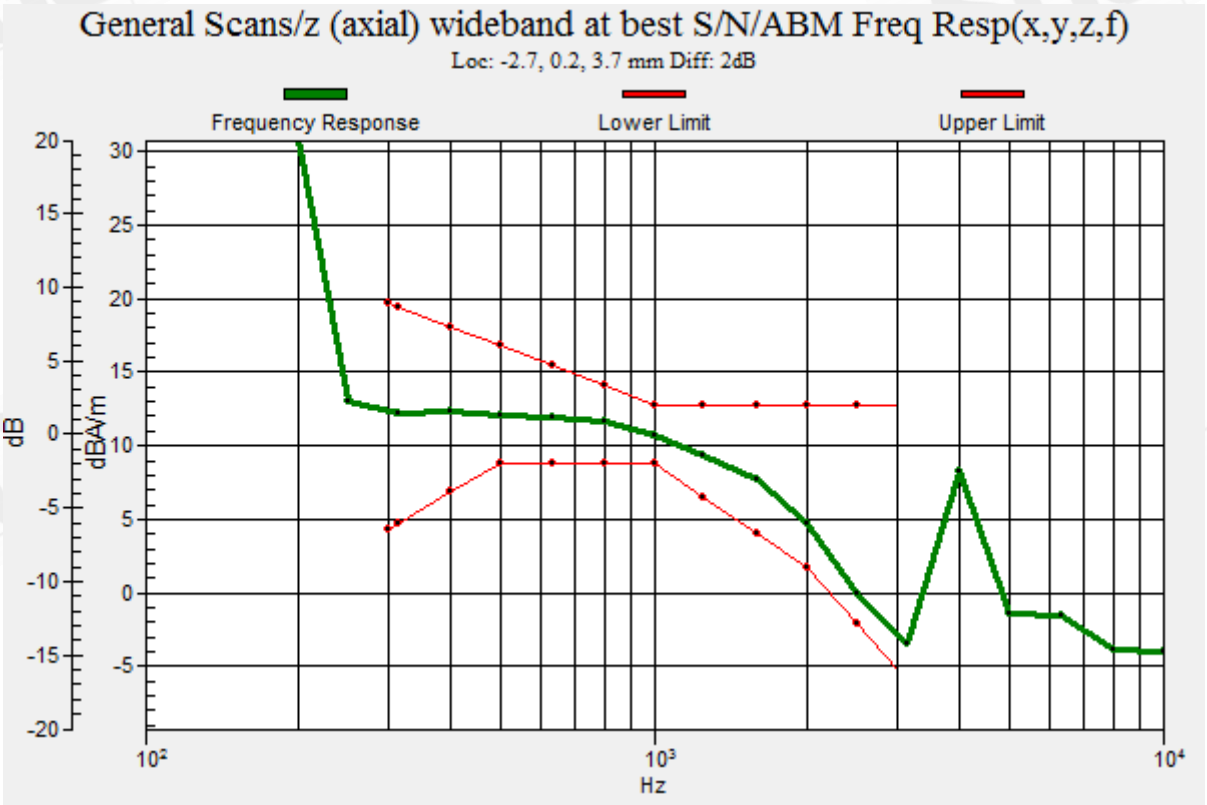
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 53.45 dB
ABM1 comp = 9.95 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, 0, 3.7 mm

Cursor:
Diff = 2.00 dB
BWC Factor = 10.80 dB
Location: -2.7, 0.2, 3.7 mm



0 dB = 470.3 = 53.45 dB



Date: 2016/1/21

T-Coil-GSM 1900_CH 661

Communication System: GSM; Frequency: 1880 MHz
Medium parameters used: σ = 0 S/m, ε_r = 1; ρ = 1 kg/m^3
Phantom section: TCoil Section

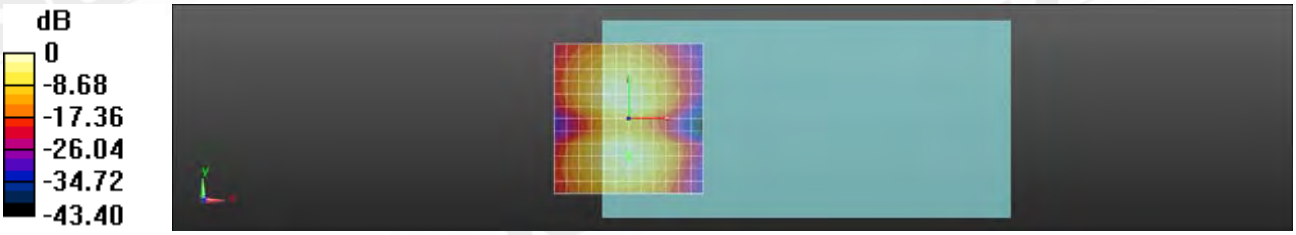
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 50.94 dB
ABM1 comp = 3.20 dBA/m
BWC Factor = 0.16 dB
Location: 0, -12.5, 3.7 mm



0 dB = 352.2 = 50.94 dB

Date: 2016/1/20

T-Coil-WCDMA Band 2_CH 9400
Communication System: WCDMA; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

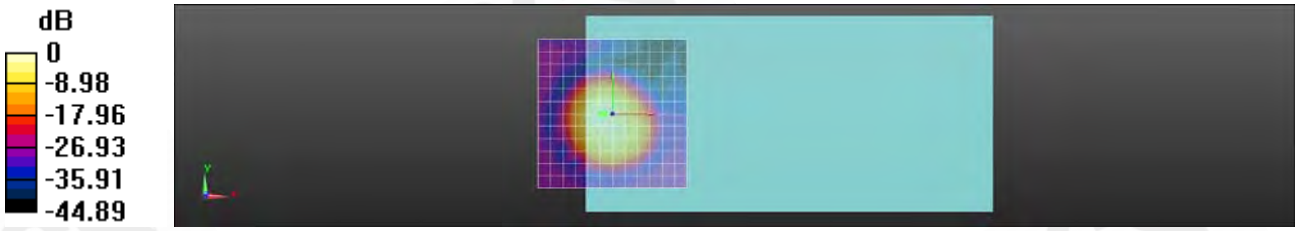
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.14 dB
Device Reference Point: 0, 0, -6.3 mm

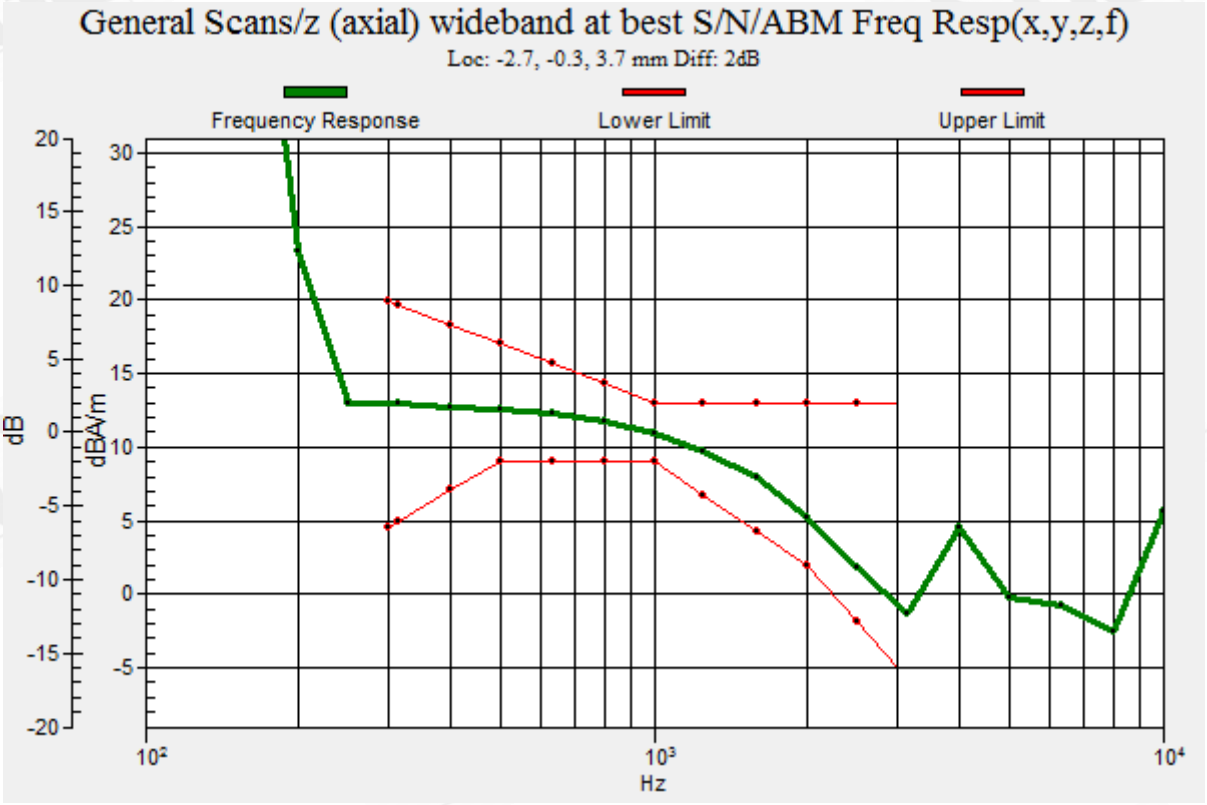
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 57.50 dB
ABM1 comp = 10.47 dBA/m
BWC Factor = 0.14 dB
Location: -4.2, 0, 3.7 mm

Cursor:
Diff = 2.00 dB
BWC Factor = 10.79 dB
Location: -2.7, -0.3, 3.7 mm



0 dB = 749.5 = 57.50 dB



Date: 2016/1/20

T-Coil-WCDMA Band 2_CH 9400

Communication System: WCDMA; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

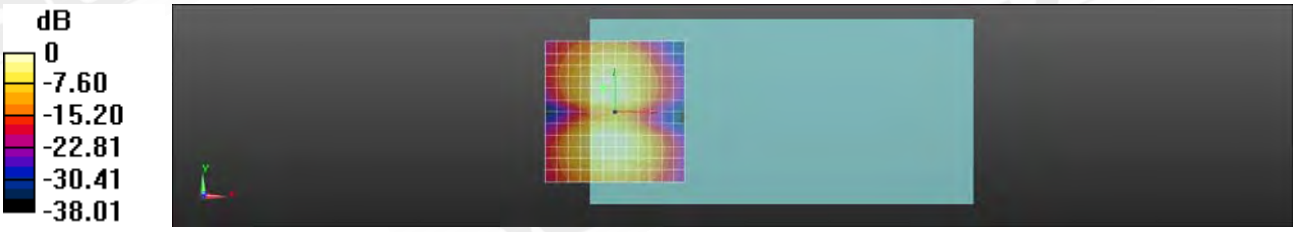
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.14 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 51.80 dB
ABM1 comp = 2.94 dBA/m
BWC Factor = 0.14 dB
Location: -4.2, 8.3, 3.7 mm



0 dB = 389.0 = 51.80 dB

Date: 2016/1/20

T-Coil-WCDMA Band 4_CH 1413

Communication System: WCDMA; Frequency: 1732.6 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

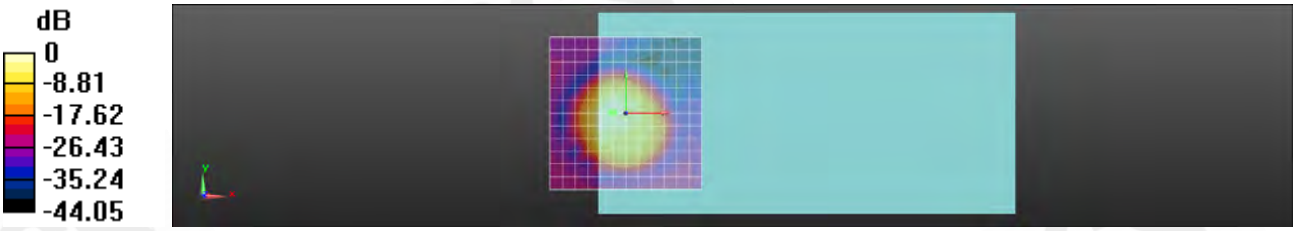
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.15 dB
Device Reference Point: 0, 0, -6.3 mm

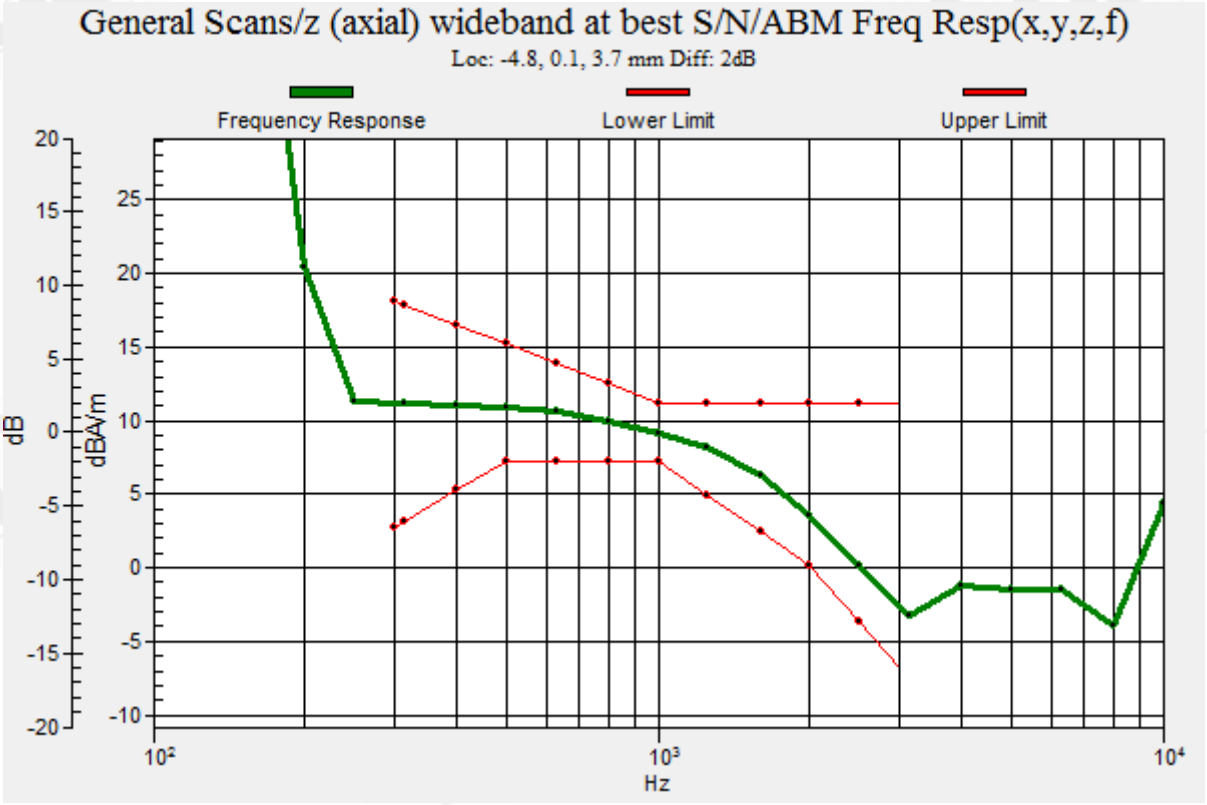
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 55.42 dB
ABM1 comp = 10.80 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, 0, 3.7 mm

Cursor:
Diff = 2.00 dB
BWC Factor = 10.79 dB
Location: -4.8, 0.1, 3.7 mm



0 dB = 590.5 = 55.42 dB



Date: 2016/1/20

T-Coil-WCDMA Band 4_CH 1413

Communication System: WCDMA; Frequency: 1732.6 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

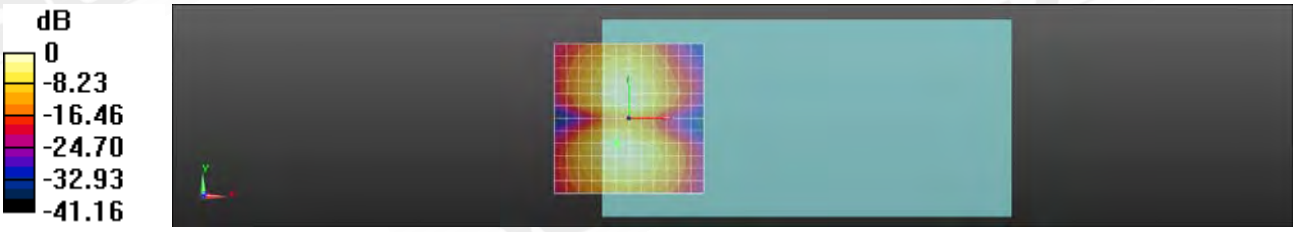
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.15 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 51.62 dB
ABM1 comp = 3.22 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, -8.3, 3.7 mm



0 dB = 381.2 = 51.62 dB

Date: 2016/1/20

T-Coil-WCDMA Band 5_CH 4183

Communication System: WCDMA; Frequency: 836.6 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

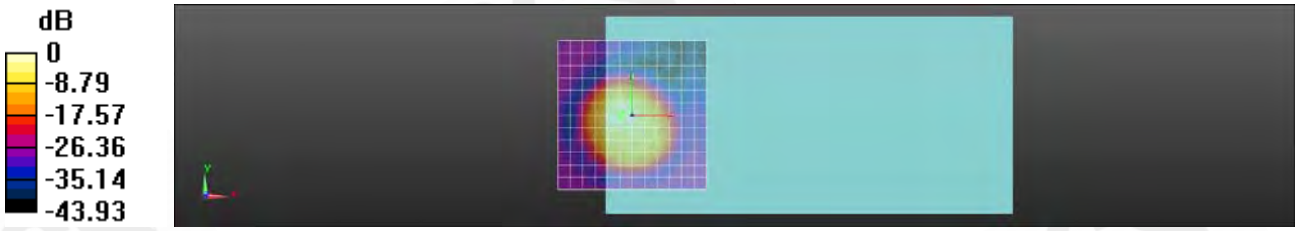
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.15 dB
Device Reference Point: 0, 0, -6.3 mm

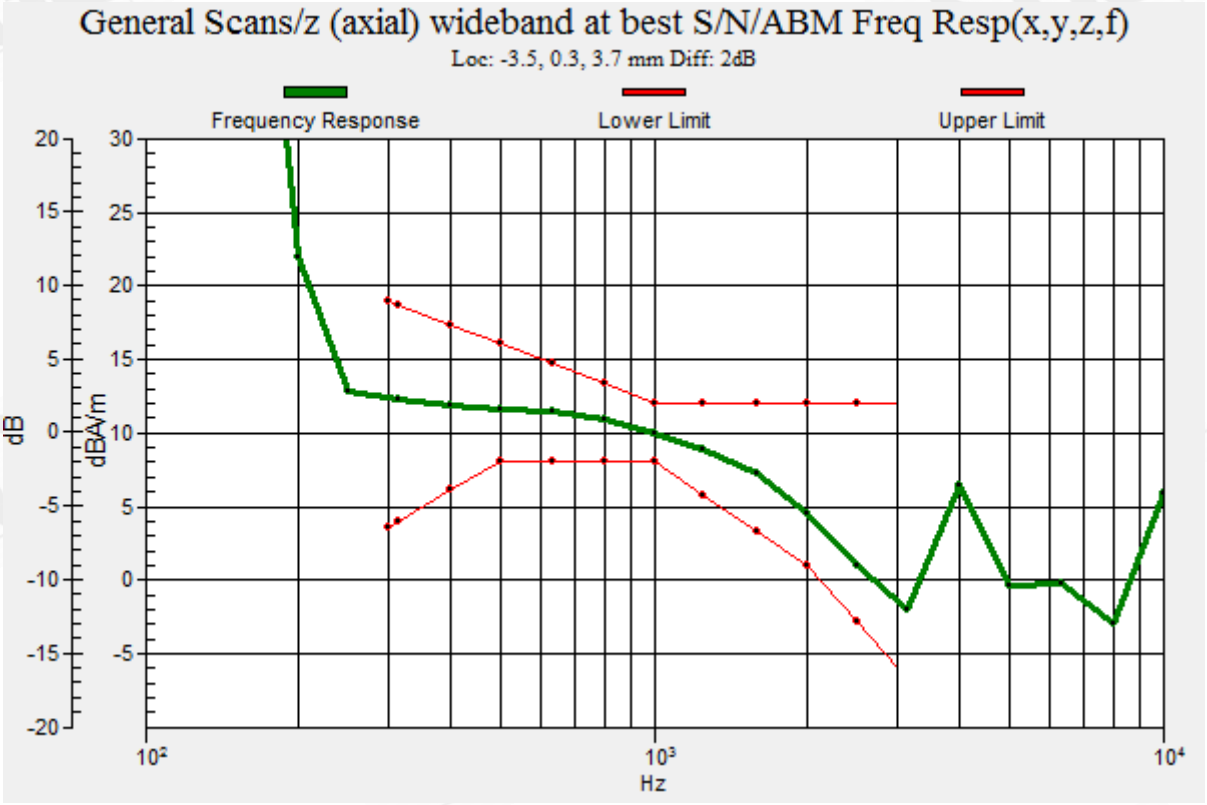
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 55.51 dB
ABM1 comp = 10.50 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, 0, 3.7 mm

Cursor:
Diff = 2.00 dB
BWC Factor = 10.79 dB
Location: -3.5, 0.3, 3.7 mm



0 dB = 596.5 = 55.51 dB



Date: 2016/1/20

T-Coil-WCDMA Band 5_CH 4183

Communication System: WCDMA; Frequency: 836.6 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

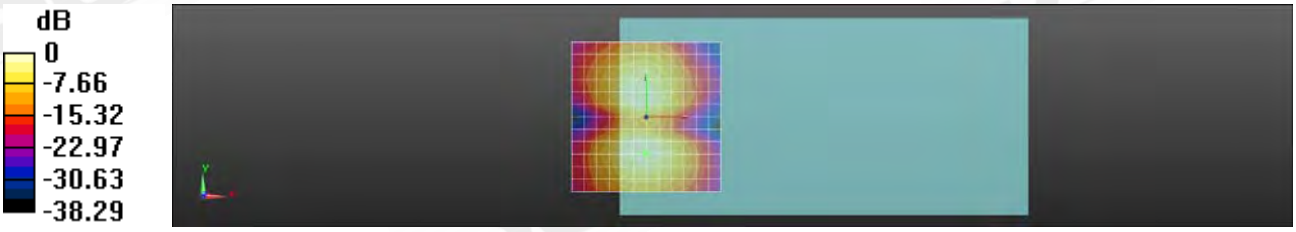
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.15 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 50.34 dB
ABM1 comp = 3.71 dBA/m
BWC Factor = 0.15 dB
Location: 0, -12.5, 3.7 mm



0 dB = 328.9 = 50.34 dB

Date: 2016/1/28

HAC-T-Coil-CDMA_BC0_CH 384
Communication System: CDMA; Frequency: 836.52 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

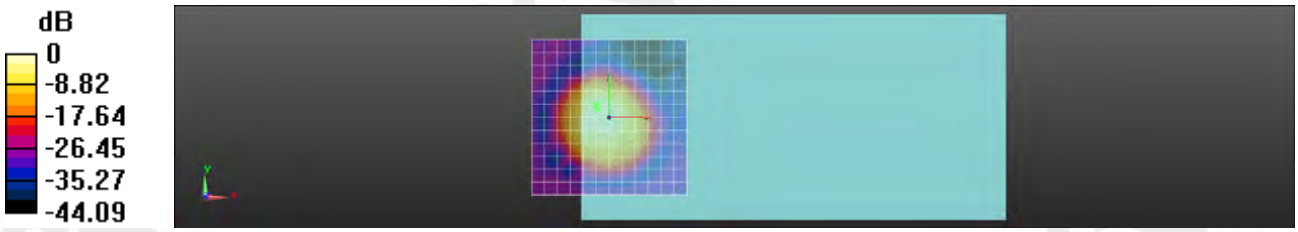
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 27.3834
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

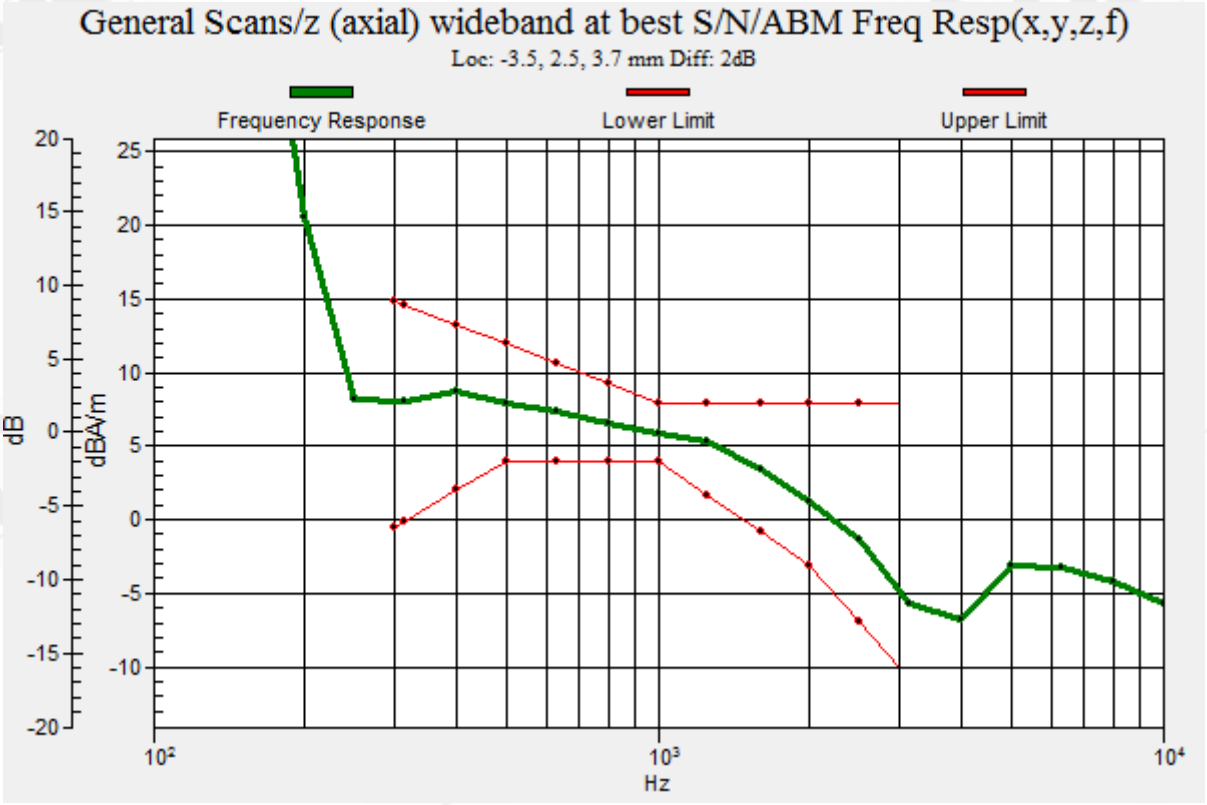
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 52.45 dB
ABM1 comp = 3.29 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, 4.2, 3.7 mm

Cursor:
Diff = 2.00 dB
BWC Factor = 10.80 dB
Location: -3.5, 2.5, 3.7 mm



0 dB = 419.4 = 52.45 dB



Date: 2016/1/28

HAC-T-Coil-CDMA_BC0_CH 384

Communication System: CDMA; Frequency: 836.52 MHz
Medium parameters used: σ = 0 S/m, ε_r = 1; ρ = 1 kg/m^3
Phantom section: TCoil Section

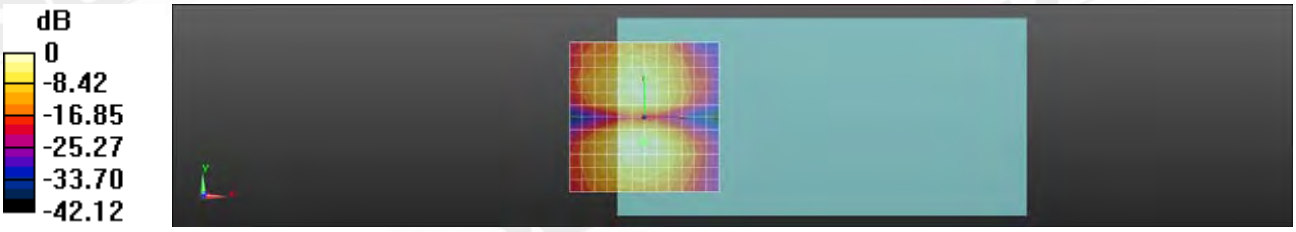
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 27.3834
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 47.19 dB
ABM1 comp = -1.98 dBA/m
BWC Factor = 0.16 dB
Location: 0, -8.3, 3.7 mm



0 dB = 228.7 = 47.19 dB

Date: 2016/1/28

HAC-T-Coil-CDMA_BC1_CH 600
Communication System: CDMA; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

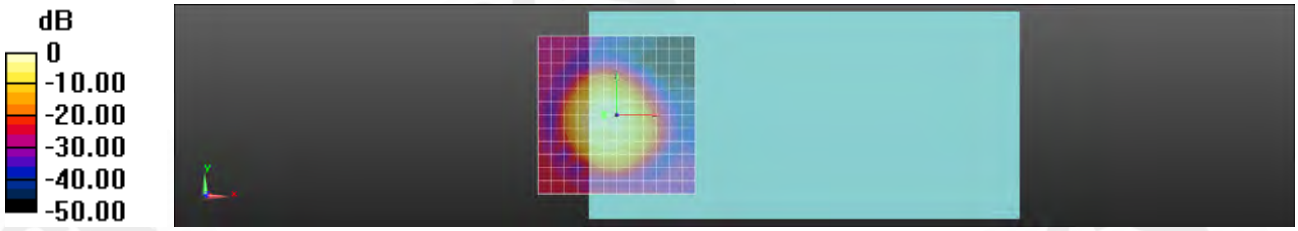
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 27.3834
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

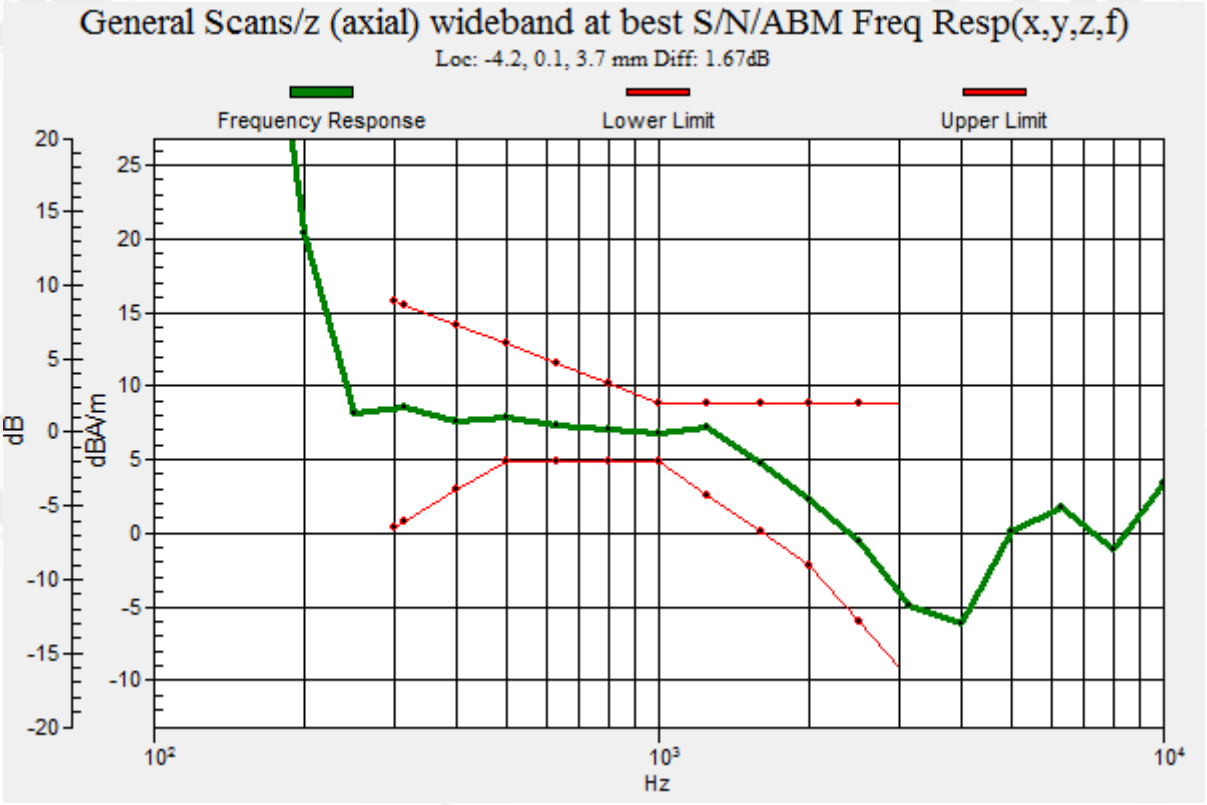
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 50.38 dB
ABM1 comp = 5.36 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, 0, 3.7 mm

Cursor:
Diff = 1.67 dB
BWC Factor = 10.80 dB
Location: -4.2, 0.1, 3.7 mm



0 dB = 330.5 = 50.38 dB



Date: 2016/1/28

HAC-T-Coil-CDMA_BC1_CH 600

Communication System: CDMA; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

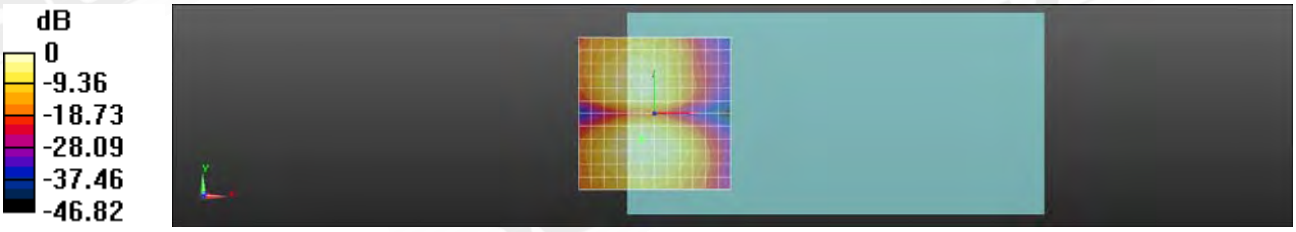
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 27.3834
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 44.28 dB
ABM1 comp = -2.71 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, -8.3, 3.7 mm



0 dB = 163.7 = 44.28 dB

Date: 2016/1/28

HAC-T-Coil-CDMA_BC10_CH 580
Communication System: CDMA; Frequency: 820.5 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

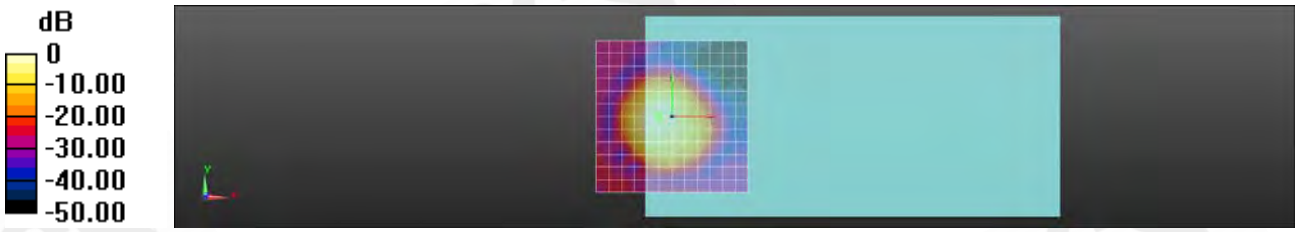
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 27.3834
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

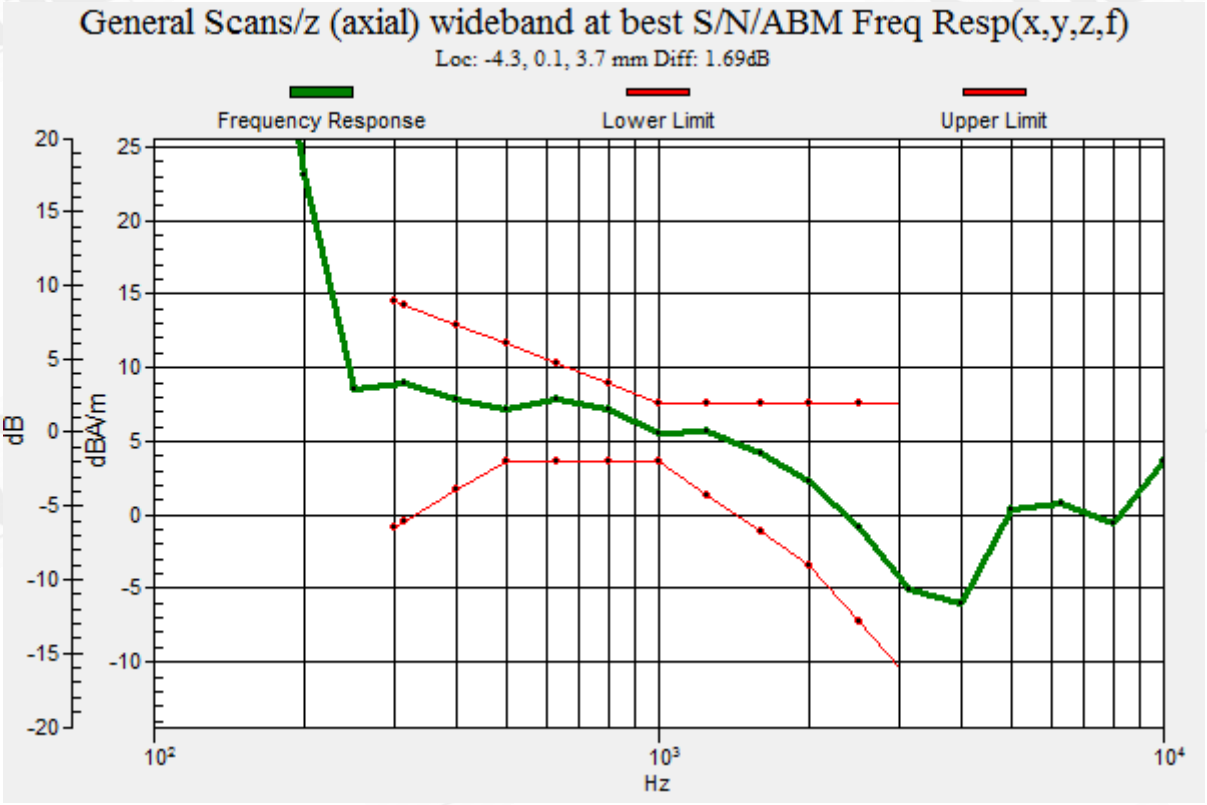
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 50.31 dB
ABM1 comp = 5.01 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, 0, 3.7 mm

Cursor:
Diff = 1.69 dB
BWC Factor = 10.80 dB
Location: -4.3, 0.1, 3.7 mm



0 dB = 327.8 = 50.31 dB



Date: 2016/1/28

HAC-T-Coil-CDMA_BC10_CH 580

Communication System: CDMA; Frequency: 820.5 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

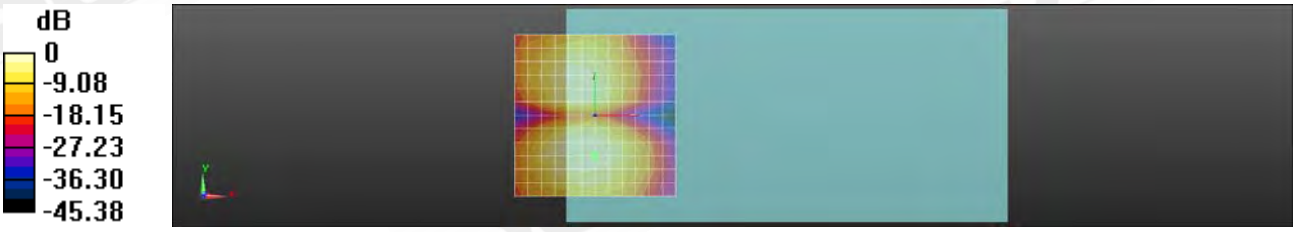
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 27.3834
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 43.57 dB
ABM1 comp = -3.60 dBA/m
BWC Factor = 0.16 dB
Location: 0, -12.5, 3.7 mm



0 dB = 150.8 = 43.57 dB

Date: 2016/1/29

HAC-T-Coil-CDMA_BC15_CH 450
Communication System: CDMA; Frequency: 1732.5 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

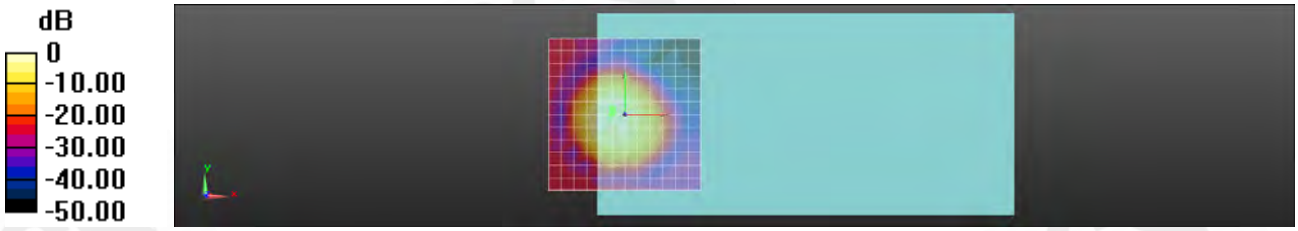
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 27.3834
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

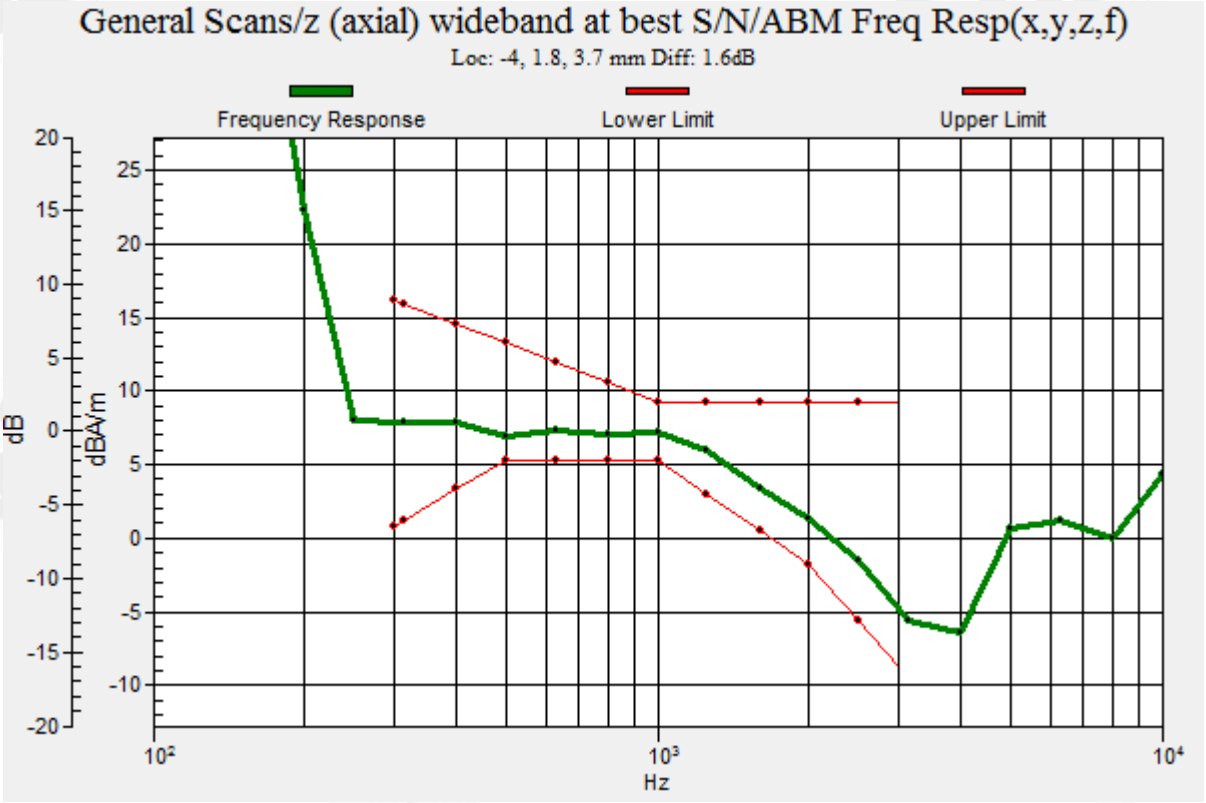
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 48.68 dB
ABM1 comp = 5.52 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, 0, 3.7 mm

Cursor:
Diff = 1.60 dB
BWC Factor = 10.80 dB
Location: -4, 1.8, 3.7 mm



0 dB = 271.7 = 48.68 dB



Date: 2016/1/29

HAC-T-Coil-CDMA_BC15_CH 450

Communication System: CDMA; Frequency: 1732.5 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

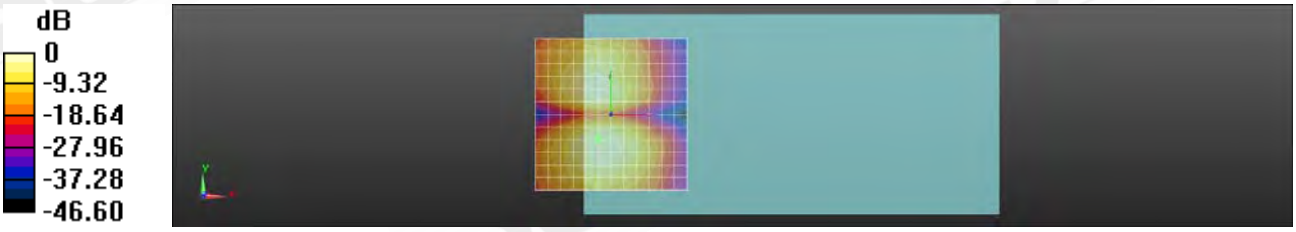
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 27.3834
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 44.51 dB
ABM1 comp = -2.62 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, -8.3, 3.7 mm



0 dB = 168.0 = 44.51 dB

Date: 2016/1/21

T-Coil-GSM 850_CH 190

Communication System: GSM; Frequency: 836.6 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

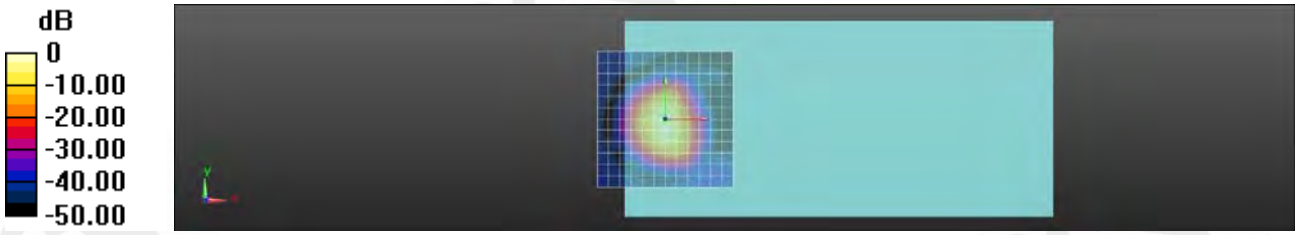
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.15 dB
Device Reference Point: 0, 0, -6.3 mm

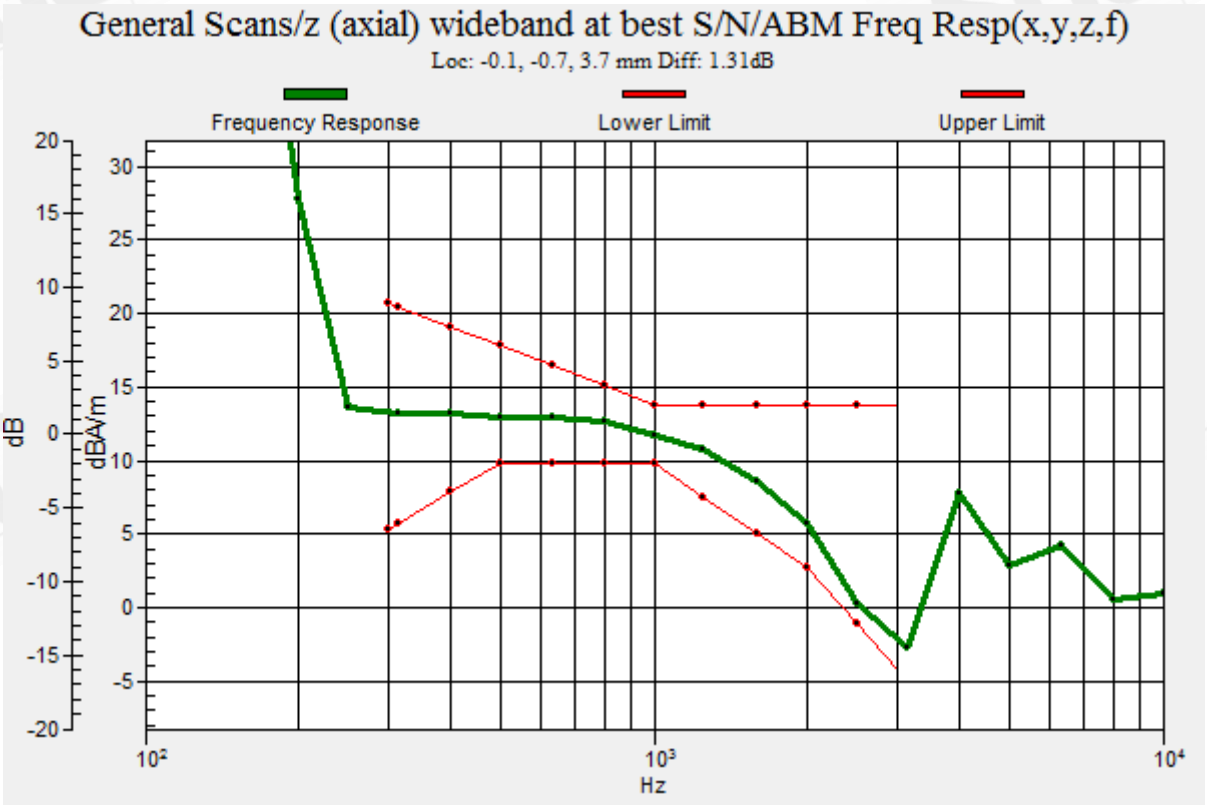
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 48.82 dB
ABM1 comp = 11.45 dBA/m
BWC Factor = 0.15 dB
Location: 0, 0, 3.7 mm

Cursor:
Diff = 1.31 dB
BWC Factor = 10.79 dB
Location: -0.1, -0.7, 3.7 mm



0 dB = 275.9 = 48.82 dB



Date: 2016/1/21

T-Coil-GSM 850_CH 190

Communication System: GSM; Frequency: 836.6 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

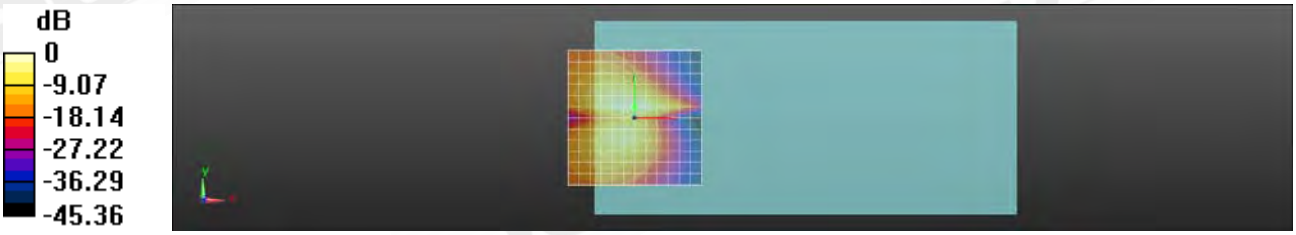
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.15 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 38.82 dB
ABM1 comp = 1.85 dBA/m
BWC Factor = 0.15 dB
Location: 0, 4.2, 3.7 mm



0 dB = 87.25 = 38.82 dB

Date: 2016/1/20

T-Coil-GSM 1900_CH 661

Communication System: GSM; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

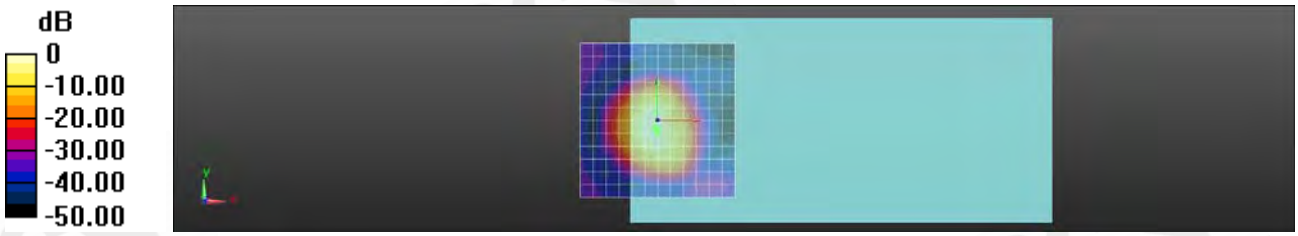
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.14 dB
Device Reference Point: 0, 0, -6.3 mm

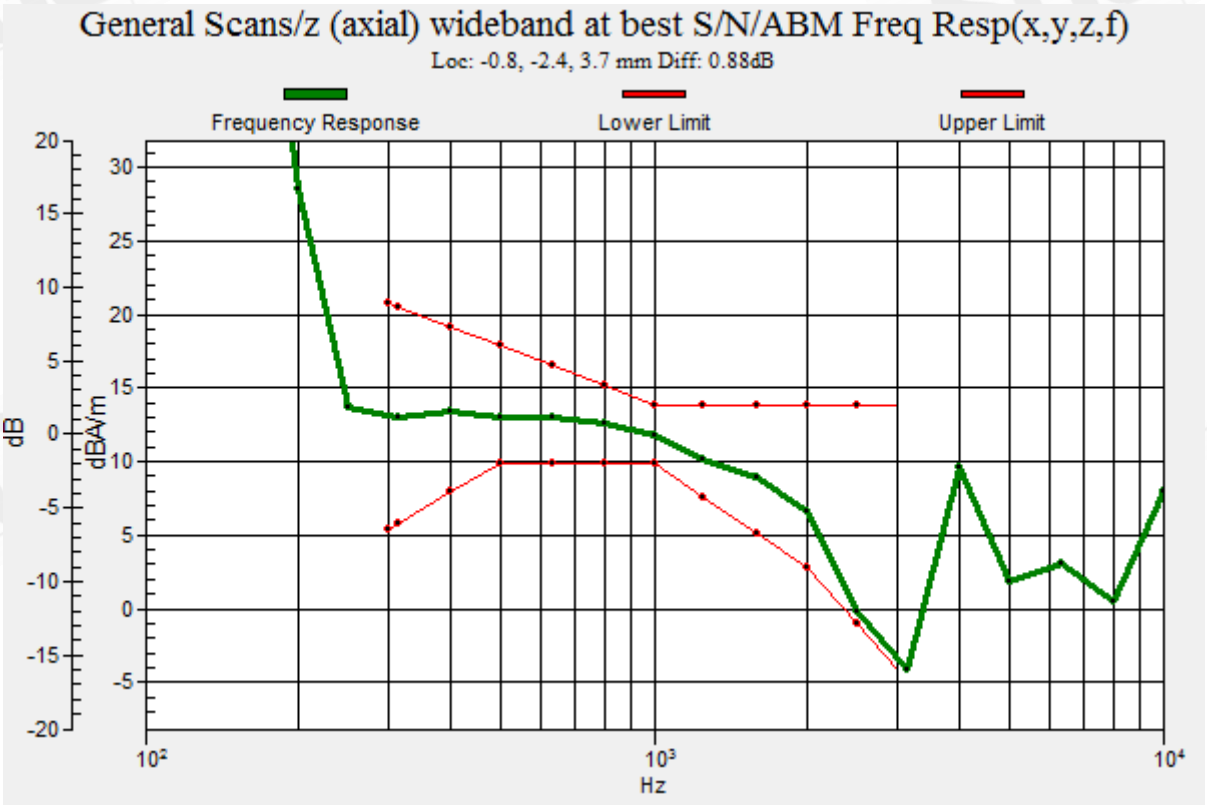
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 51.48 dB
ABM1 comp = 11.21 dBA/m
BWC Factor = 0.14 dB
Location: 0, -4.2, 3.7 mm

Cursor:
Diff = 0.88 dB
BWC Factor = 10.79 dB
Location: -0.8, -2.4, 3.7 mm



0 dB = 375.1 = 51.48 dB



Date: 2016/1/20

T-Coil-GSM 1900_CH 661

Communication System: GSM; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

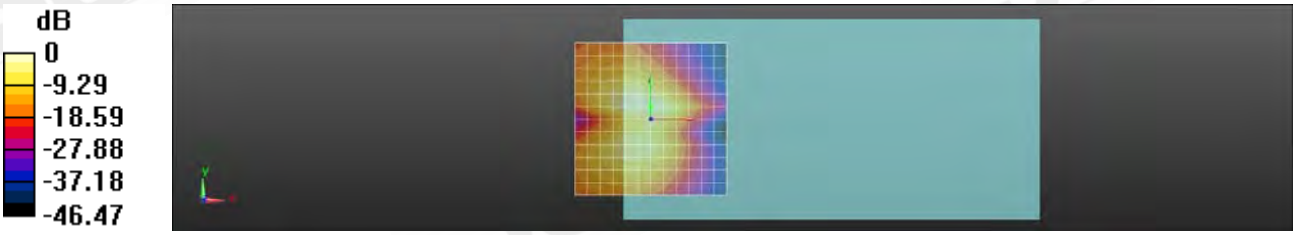
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.14 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 45.08 dB
ABM1 comp = 2.76 dBA/m
BWC Factor = 0.14 dB
Location: 0, 4.2, 3.7 mm



0 dB = 179.4 = 45.08 dB

Date: 2016/1/21

T-Coil-WCDMA Band 2_CH 9400
Communication System: WCDMA; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

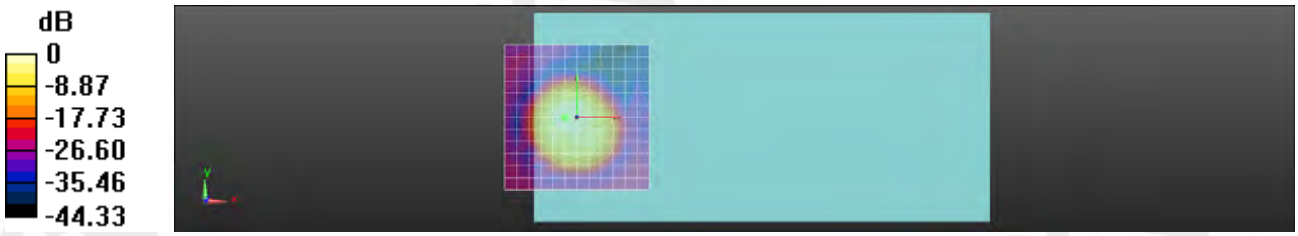
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.15 dB
Device Reference Point: 0, 0, -6.3 mm

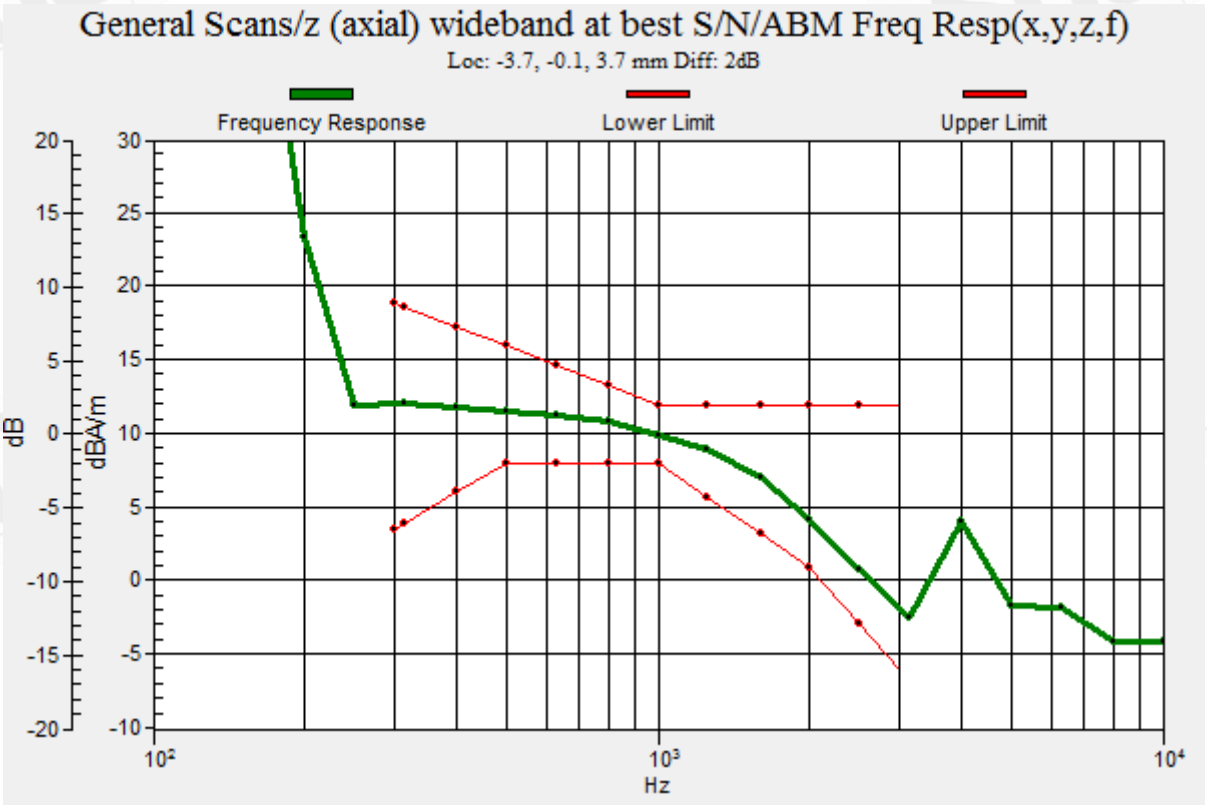
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 56.35 dB
ABM1 comp = 10.20 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, 0, 3.7 mm

Cursor:
Diff = 2.00 dB
BWC Factor = 10.79 dB
Location: -3.7, -0.1, 3.7 mm



0 dB = 657.1 = 56.35 dB



Date: 2016/1/21

T-Coil-WCDMA Band 2_CH 9400

Communication System: WCDMA; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

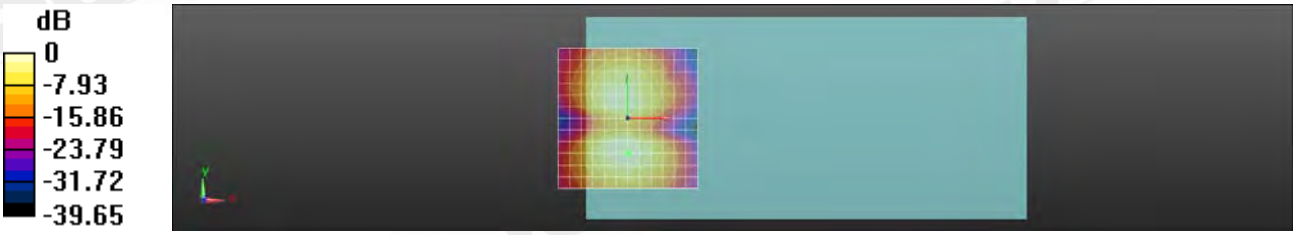
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC; ;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.15 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 52.07 dB
ABM1 comp = 3.76 dBA/m
BWC Factor = 0.15 dB
Location: 0, -12.5, 3.7 mm



0 dB = 401.2 = 52.07 dB

Date: 2016/1/22

T-Coil-WCDMA Band 4_CH 1412

Communication System: WCDMA; Frequency: 1732.4 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

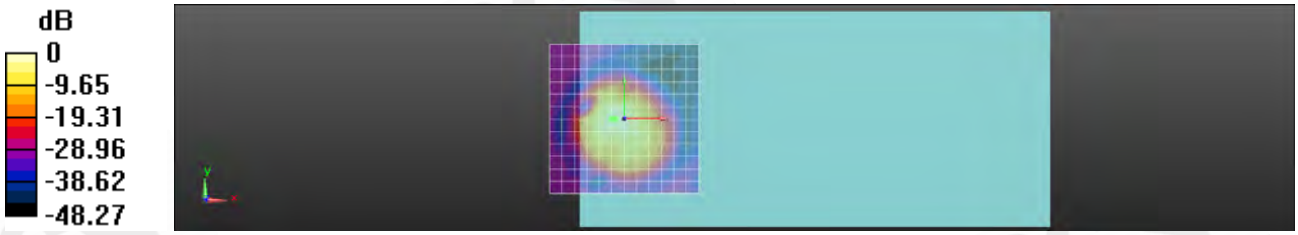
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.15 dB
Device Reference Point: 0, 0, -6.3 mm

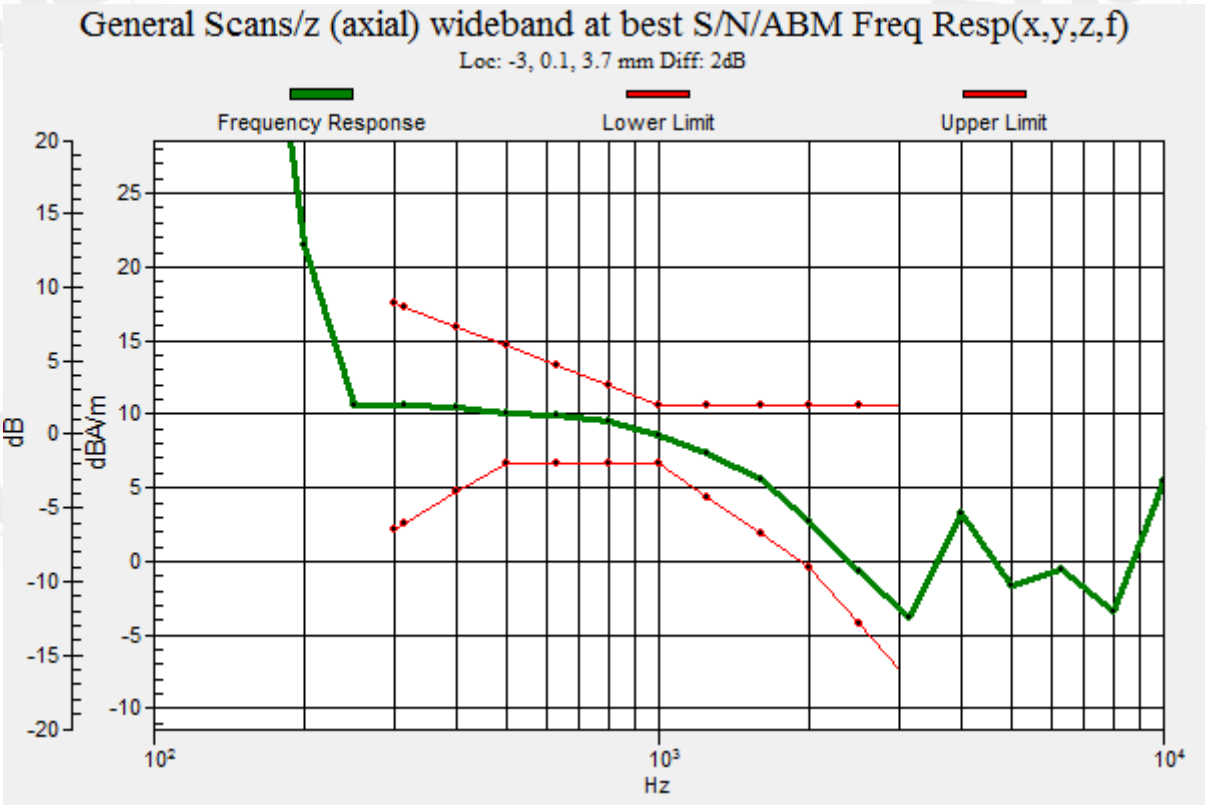
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 56.80 dB
ABM1 comp = 8.52 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, 0, 3.7 mm

Cursor:
Diff = 2.00 dB
BWC Factor = 10.79 dB
Location: -3, 0.1, 3.7 mm



0 dB = 692.1 = 56.80 dB



Date: 2016/1/22

T-Coil-WCDMA Band 4_CH 1412

Communication System: WCDMA; Frequency: 1732.4 MHz
Medium parameters used: σ = 0 S/m, ε_r = 1; ρ = 1 kg/m^3
Phantom section: TCoil Section

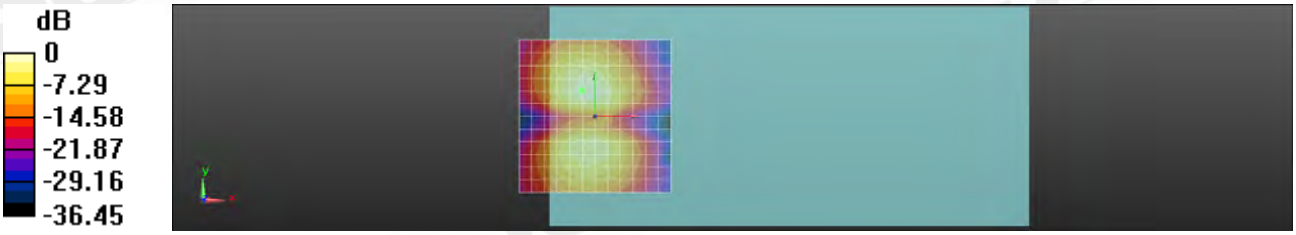
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.15 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 50.13 dB
ABM1 comp = 0.96 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, 8.3, 3.7 mm



0 dB = 321.0 = 50.13 dB

Date: 2016/1/21

T-Coil-WCDMA Band 5_CH 4183

Communication System: WCDMA; Frequency: 836.6 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

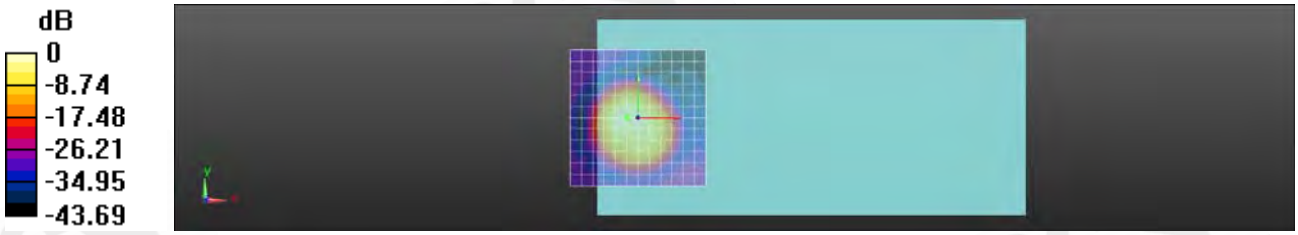
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.15 dB
Device Reference Point: 0, 0, -6.3 mm

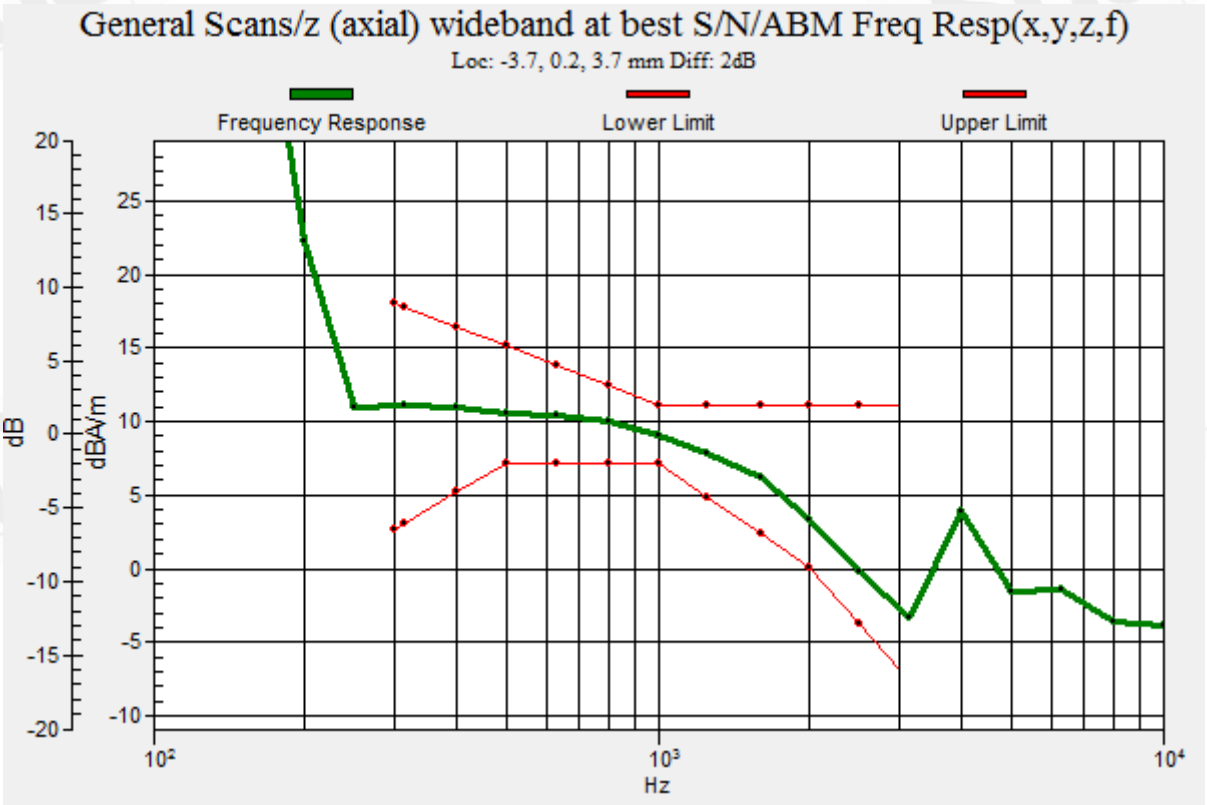
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 56.11 dB
ABM1 comp = 9.71 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, 0, 3.7 mm

Cursor:
Diff = 2.00 dB
BWC Factor = 10.80 dB
Location: -3.7, 0.2, 3.7 mm



0 dB = 638.8 = 56.11 dB



Date: 2016/1/21

T-Coil-WCDMA Band 5_CH 4183

Communication System: WCDMA; Frequency: 836.6 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

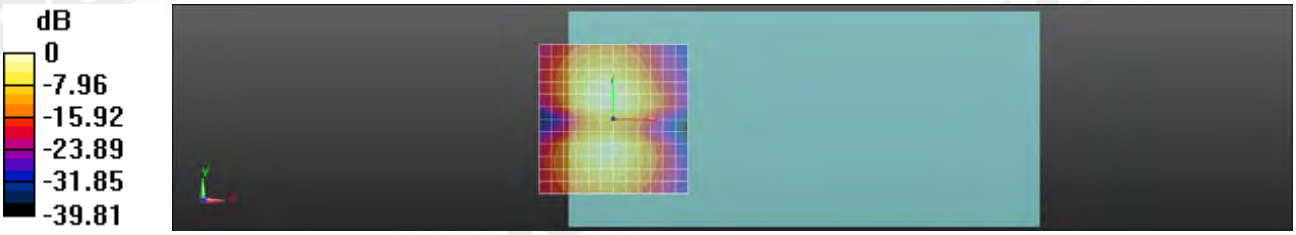
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC; ;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 38.9483
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.15 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 51.32 dB
ABM1 comp = 3.48 dBA/m
BWC Factor = 0.15 dB
Location: 0, 8.3, 3.7 mm



0 dB = 368.0 = 51.32 dB

Date: 2016/1/29

HAC-T-Coil-CDMA_BC0_CH 384
Communication System: CDMA; Frequency: 836.52 MHz
Medium parameters used: σ = 0 S/m, ε_r = 1; ρ = 1 kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

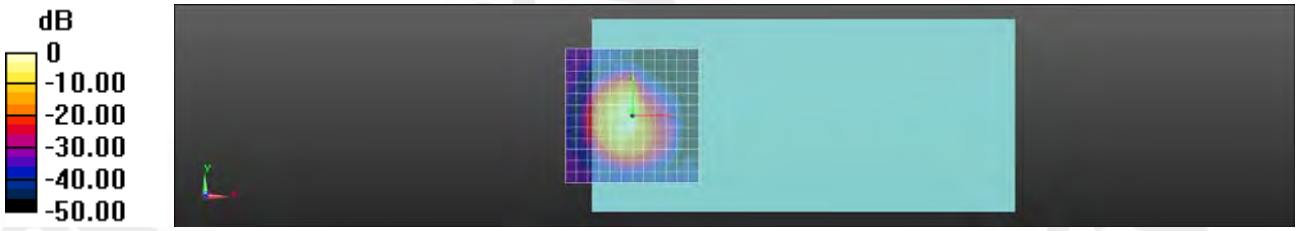
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 27.3834
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

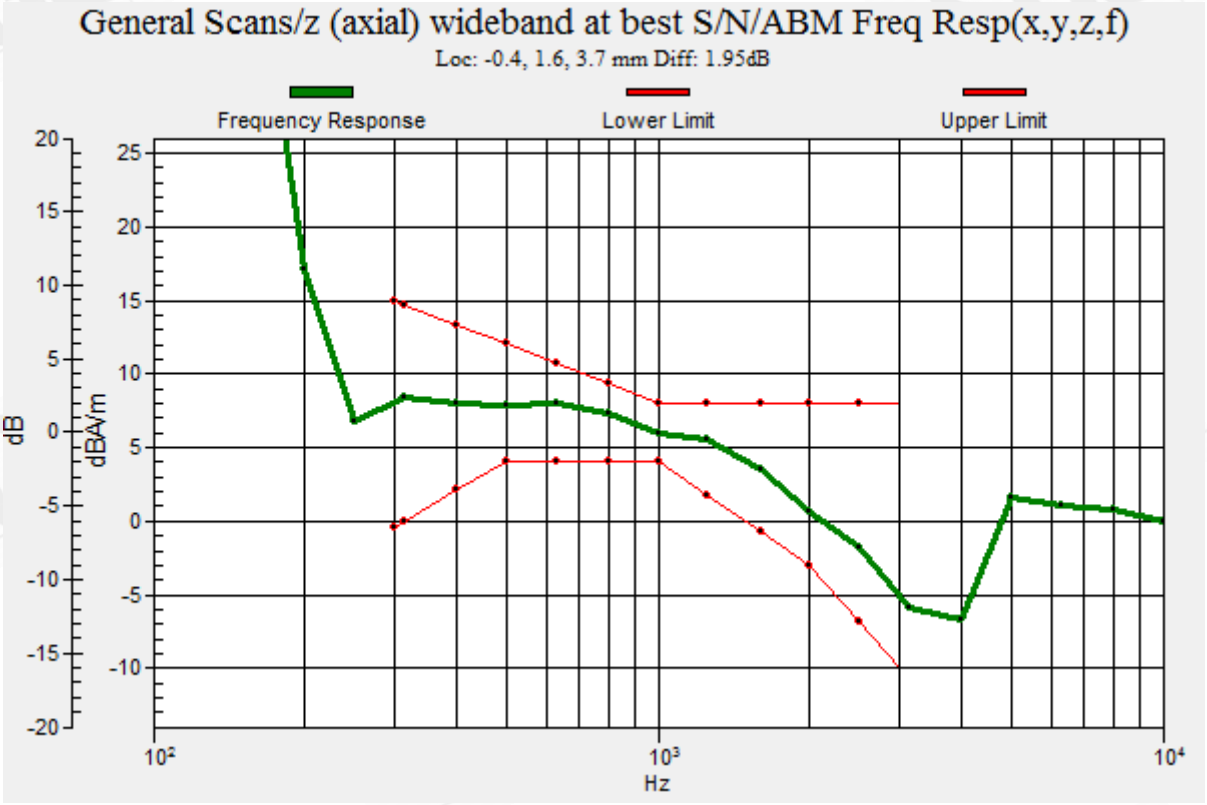
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 49.69 dB
ABM1 comp = 4.42 dBA/m
BWC Factor = 0.16 dB
Location: 0, 0, 3.7 mm

Cursor:
Diff = 1.95 dB
BWC Factor = 10.80 dB
Location: -0.4, 1.6, 3.7 mm



0 dB = 305.1 = 49.69 dB



Date: 2016/1/29

HAC-T-Coil-CDMA_BC0_CH 384

Communication System: CDMA; Frequency: 836.52 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

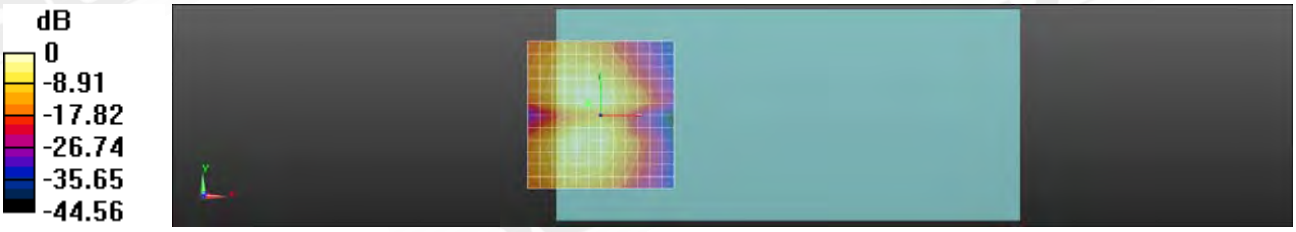
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 27.3834
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 40.92 dB
ABM1 comp = -5.68 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, 4.2, 3.7 mm



0 dB = 111.1 = 40.91 dB

Date: 2016/1/29

HAC-T-Coil-CDMA_BC1_CH 600
Communication System: CDMA; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

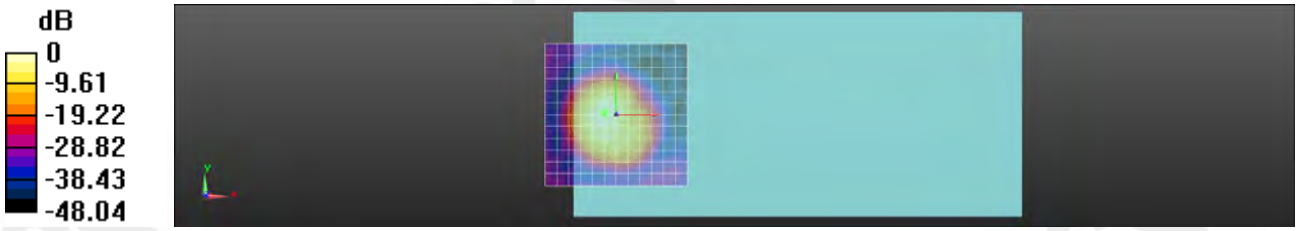
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 27.3834
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

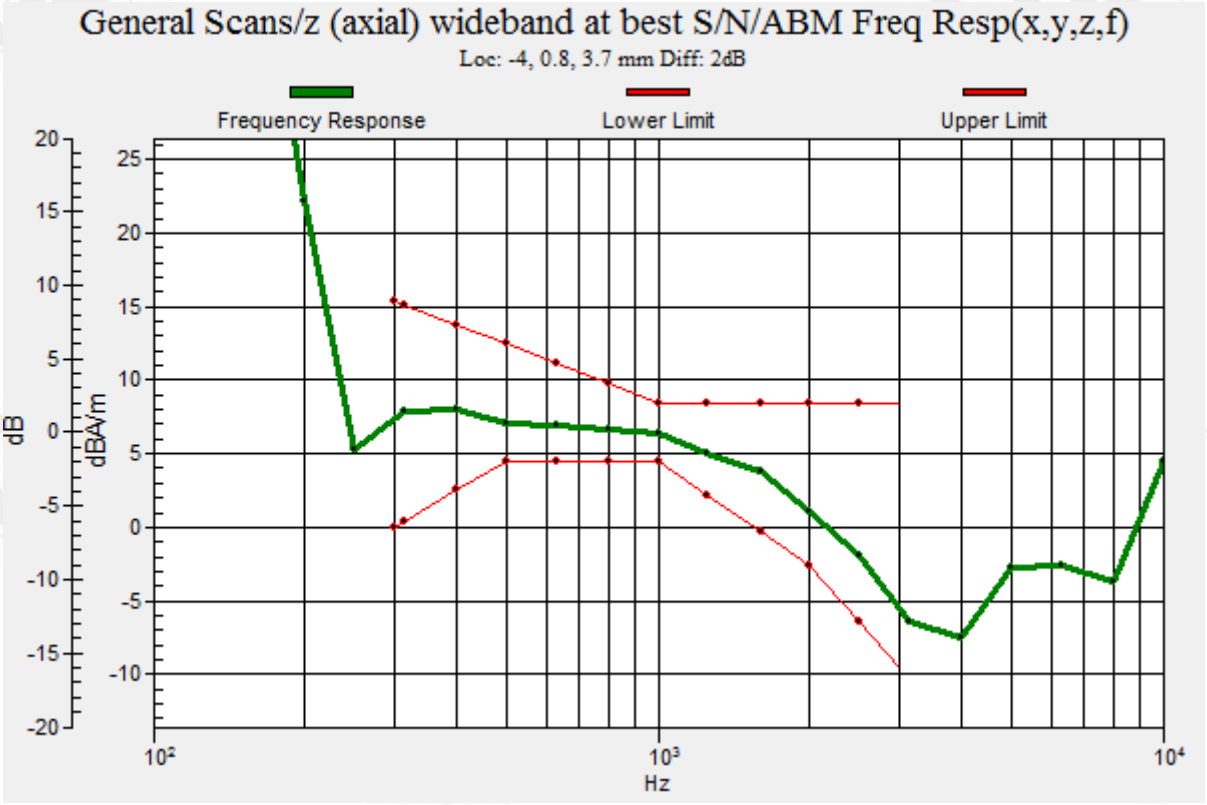
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 50.88 dB
ABM1 comp = 4.14 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, 0, 3.7 mm

Cursor:
Diff = 2.00 dB
BWC Factor = 10.80 dB
Location: -4, 0.8, 3.7 mm



0 dB = 350.1 = 50.88 dB



Date: 2016/1/29

HAC-T-Coil-CDMA_BC1_CH 600

Communication System: CDMA; Frequency: 1880 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

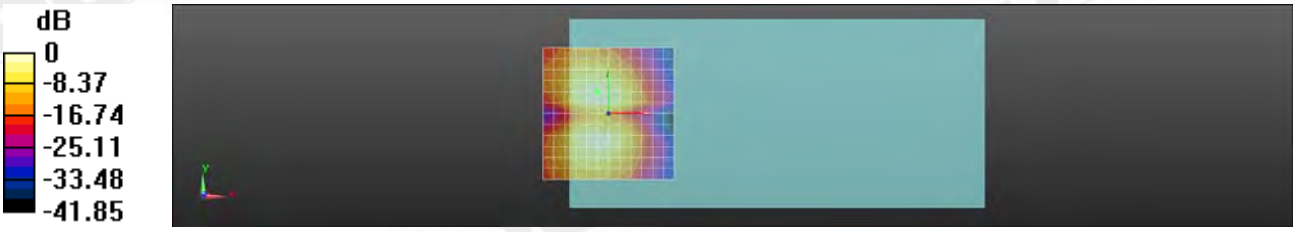
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 27.3834
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 43.81 dB
ABM1 comp = -3.77 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, 8.3, 3.7 mm



0 dB = 155.1 = 43.81 dB

Date: 2016/1/29

HAC-T-Coil-CDMA_BC10_CH 580

Communication System: CDMA; Frequency: 820.5 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

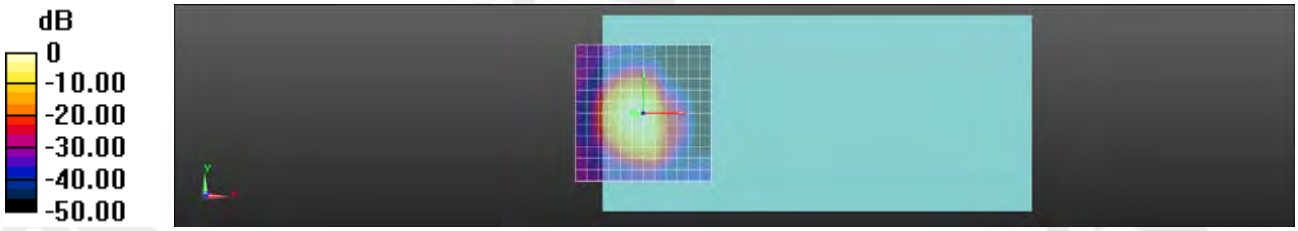
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC; ;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 27.3834
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

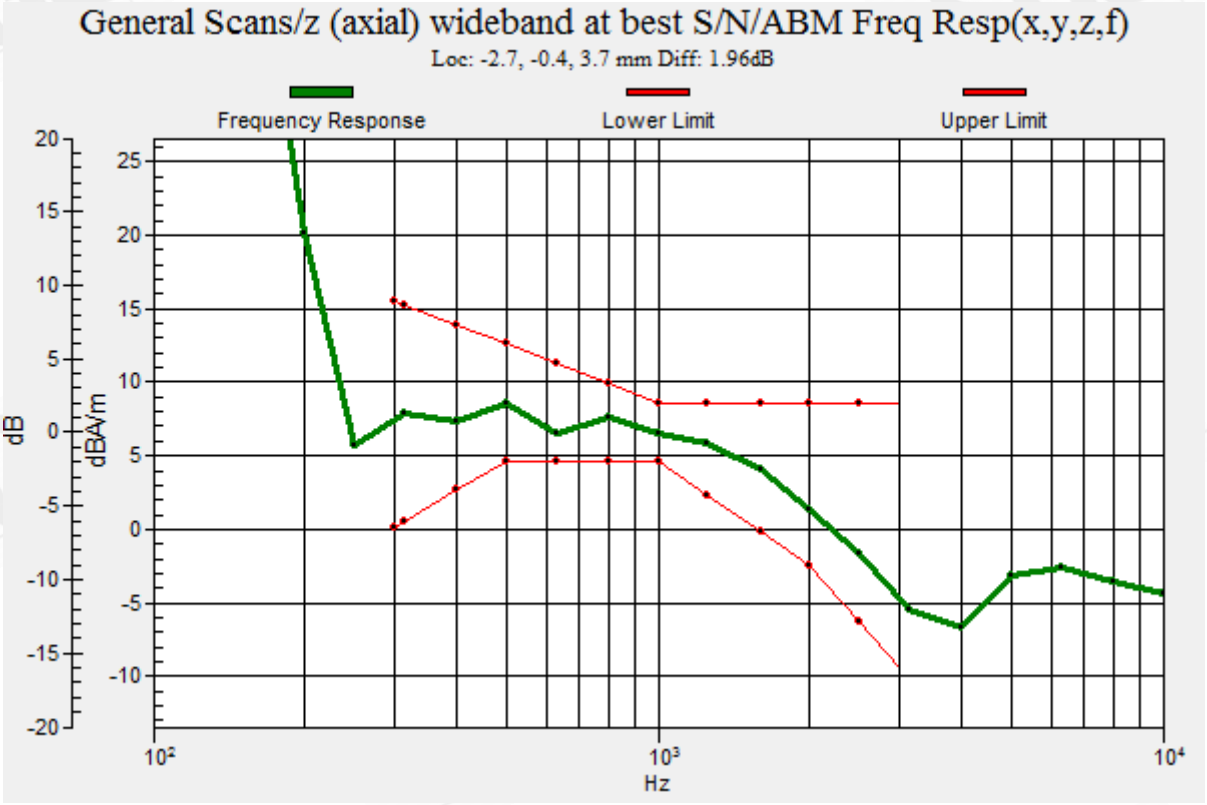
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 49.56 dB
ABM1 comp = 3.92 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, 0, 3.7 mm

Cursor:
Diff = 1.96 dB
BWC Factor = 10.80 dB
Location: -2.7, -0.4, 3.7 mm



0 dB = 300.5 = 49.56 dB



Date: 2016/1/29

HAC-T-Coil-CDMA_BC10_CH 580

Communication System: CDMA; Frequency: 820.5 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

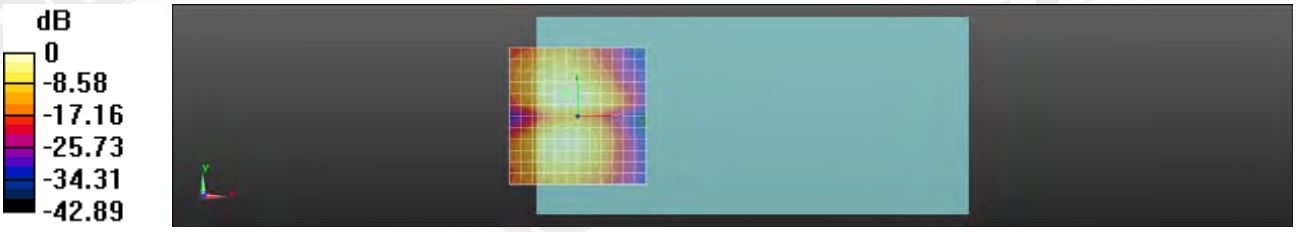
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC; ;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 27.3834
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 42.22 dB
ABM1 comp = -3.98 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, 8.3, 3.7 mm



0 dB = 129.1 = 42.22 dB

Date: 2016/1/29

HAC-T-Coil-CDMA_BC15_CH 450
Communication System: CDMA; Frequency: 1732.5 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

DASY5 Configuration:

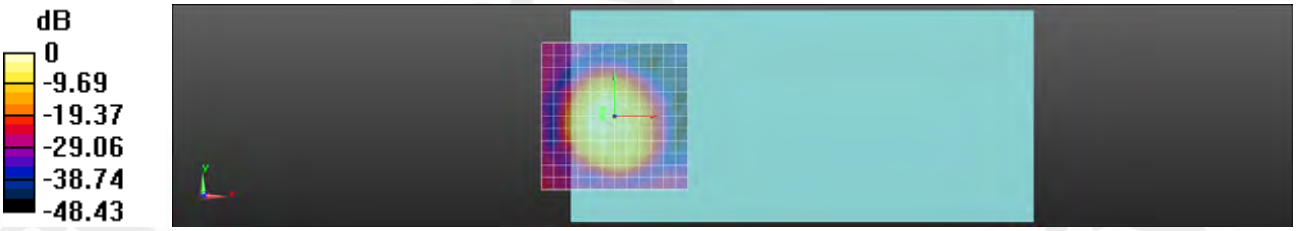
- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 27.3834
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

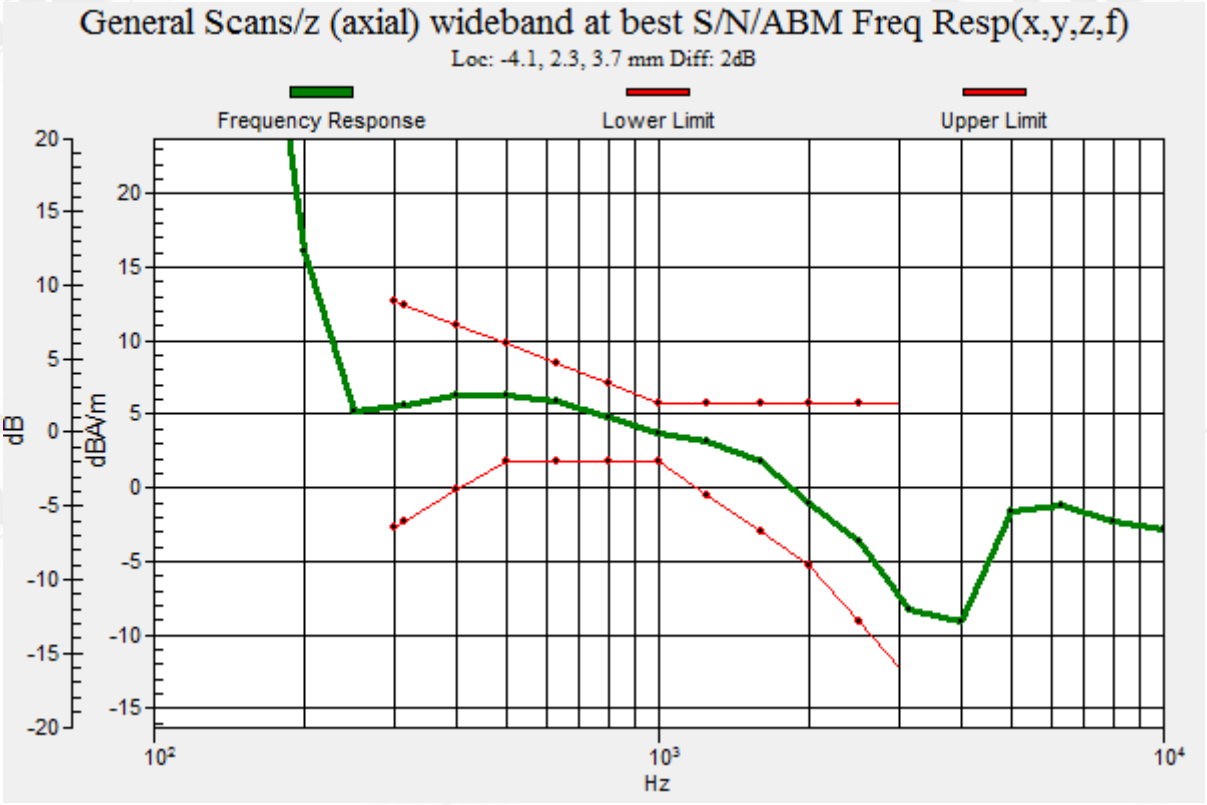
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 47.90 dB
ABM1 comp = 3.87 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, 0, 3.7 mm

Cursor:
Diff = 2.00 dB
BWC Factor = 10.80 dB
Location: -4.1, 2.3, 3.7 mm



0 dB = 248.3 = 47.90 dB



Date: 2016/1/29

HAC-T-Coil-CDMA_BC15_CH 450

Communication System: CDMA; Frequency: 1732.5 MHz
Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: TCoil Section

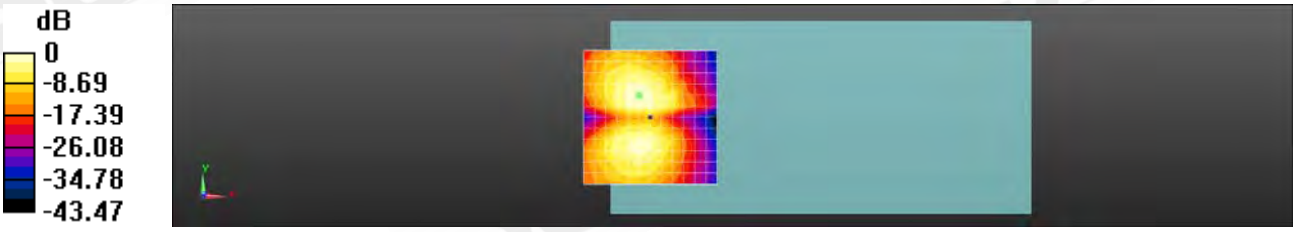
DASY5 Configuration:

- Probe: AM1DV3 - 3115; ; Calibrated: 2015/3/19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1336; Calibrated: 2015/8/26
- Phantom: HAC Test Arch with AMCC
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid: dx=10mm, dy=10mm
Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 27.3834
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:
ABM1/ABM2 = 41.92 dB
ABM1 comp = -4.51 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, 8.3, 3.7 mm



0 dB = 124.7 = 41.92 dB

3. Photographs of Test Setup

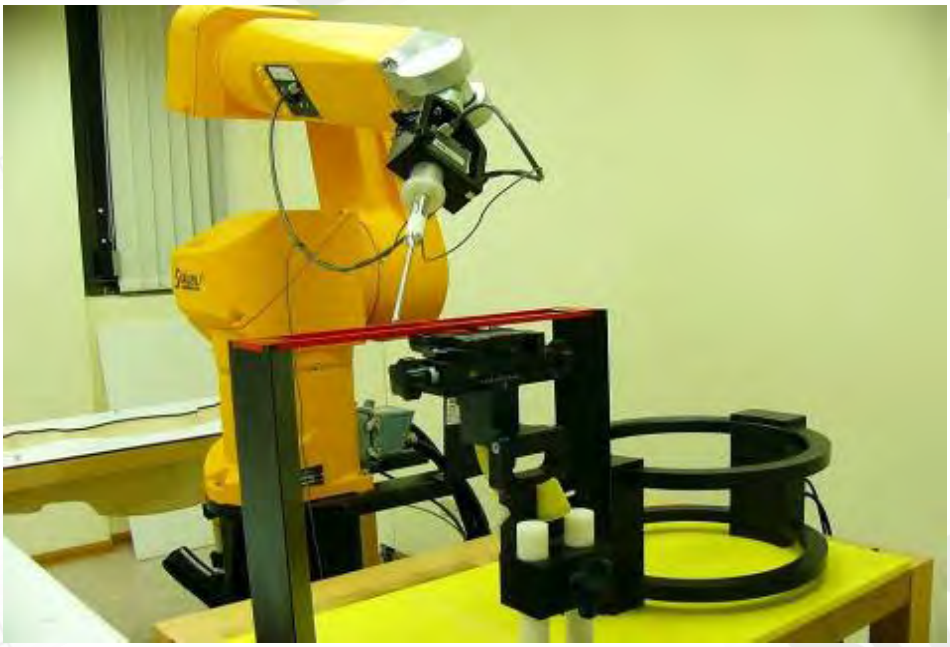


Fig.1 Photograph of the DASY 5 measurement system

4. Photographs of EUT

Fig.2 Bare-phone

Fig.3 With MoJoose case

- End of Report -