

# T-Coil Signal Test Report

Measurement performed on September 02, 2024 at 10:38

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Hardware Setup

Probe Name	Probe Calibration Date	DAE Name	DAE Calibration Date
AM1DV3 - 3137	July 11, 2024	DAE4 Sn1468	August 15, 2024

## Communication Systems

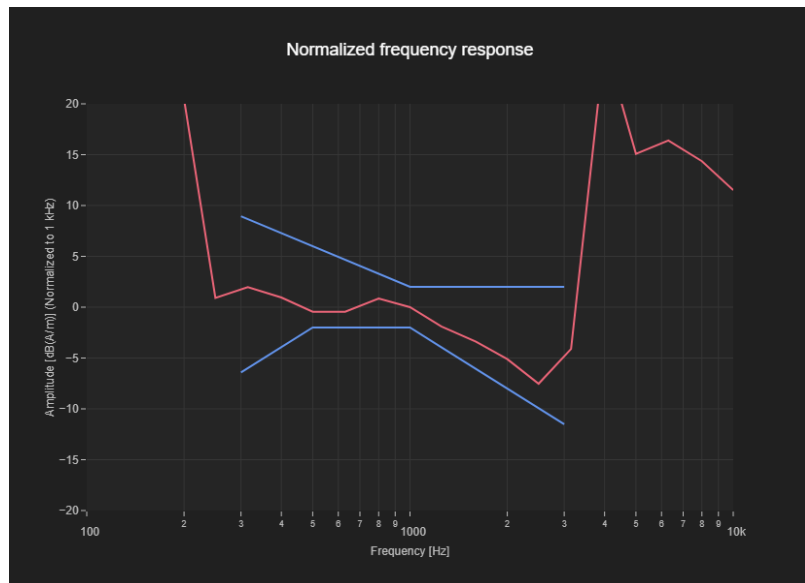
Band Name	Communication Systems Name	Channel	Frequency [MHz]
GSM 850	GSM-FDD (TDMA, GMSK)	190	836.6

## Grid Settings

Extent X [mm]	Extent Y [mm]	Step X [mm]	Step Y [mm]	Distance [mm]
52.0	52.0	4.0	4.0	10.0

## Results

Audio File	Measurement Duration [s]	Margin Upper Bound [dB]	Margin Lower Bound [dB]
48k_voice_300-3000_2s.wav	2.0	2.0	1.56



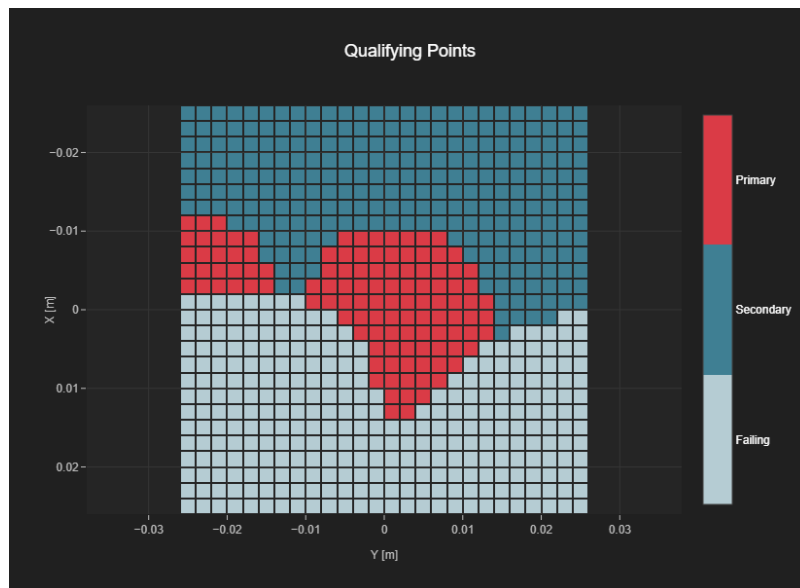
# T-Coil Coupling Mode Test Report

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Results

Primary Group Contiguous Point Count	Secondary Group Point Count	Secondary Group Max Longitudinal	Secondary Group Max Transverse
116	377	20	26



# T-Coil Signal Test Report

Measurement performed on September 02, 2024 at 13:54

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Hardware Setup

Probe Name	Probe Calibration Date	DAE Name	DAE Calibration Date
AM1DV3 - 3137	July 11, 2024	DAE4 Sn1468	August 15, 2024

## Communication Systems

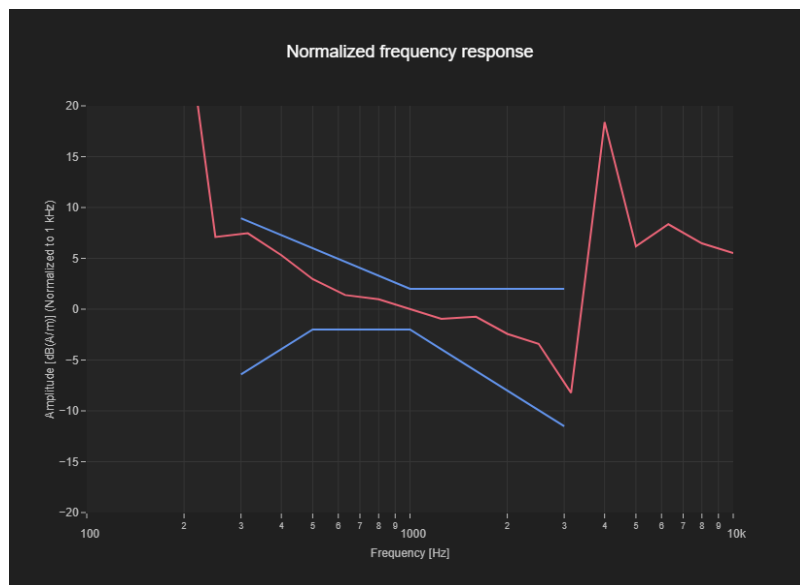
Band Name	Communication Systems Name	Channel	Frequency [MHz]
Band 5	UMTS-FDD (WCDMA)	4183	836.6

## Grid Settings

Extent X [mm]	Extent Y [mm]	Step X [mm]	Step Y [mm]	Distance [mm]
52.0	52.0	4.0	4.0	10.0

## Results

Audio File	Measurement Duration [s]	Margin Upper Bound [dB]	Margin Lower Bound [dB]
48k_voice_300-3000_2s.wav	2.0	1.56	2.0



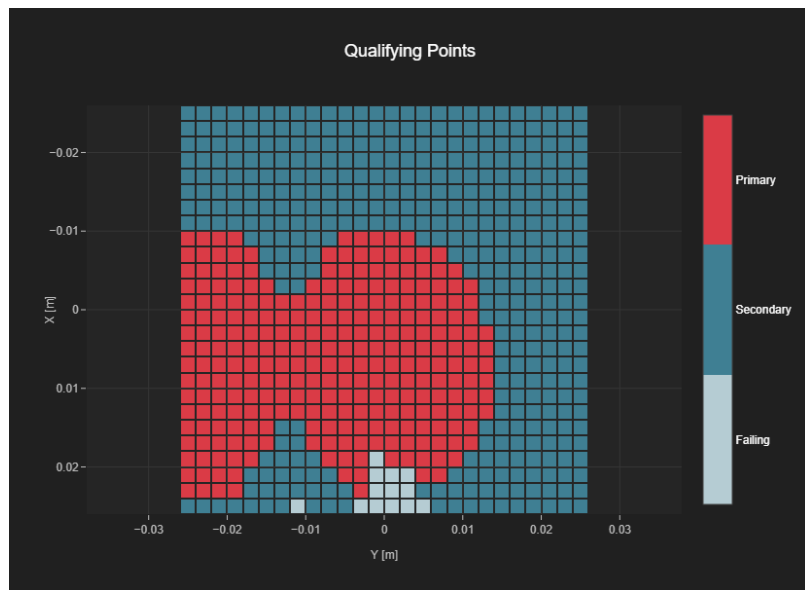
# T-Coil Coupling Mode Test Report

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Results

Primary Group Contiguous Point Count	Secondary Group Point Count	Secondary Group Max Longitudinal	Secondary Group Max Transverse
271	663	26	26



# T-Coil Signal Test Report

Measurement performed on September 11, 2024 at 10:20

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Hardware Setup

Probe Name	Probe Calibration Date	DAE Name	DAE Calibration Date
AM1DV3 - 3137	July 11, 2024	DAE4 Sn1468	August 15, 2024

## Communication Systems

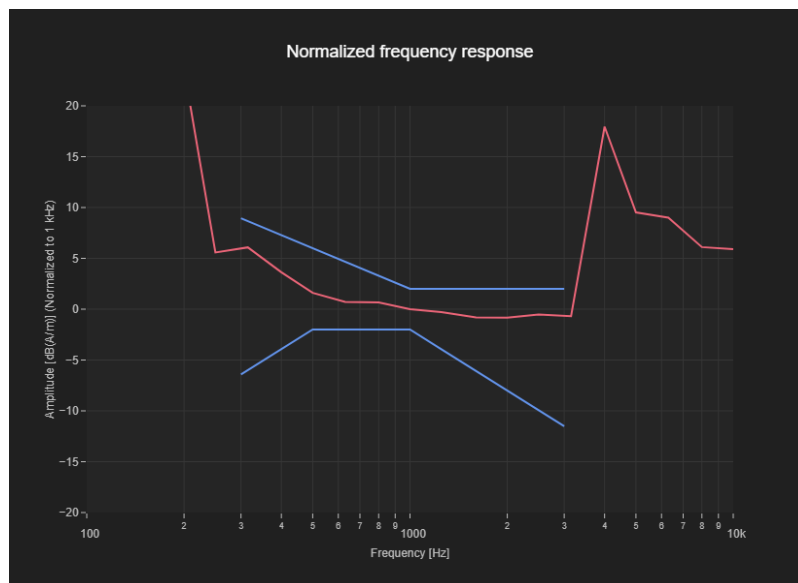
Band Name	Communication Systems Name	Channel	Frequency [MHz]
Band 66	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	132322	1745.0

## Grid Settings

Extent X [mm]	Extent Y [mm]	Step X [mm]	Step Y [mm]	Distance [mm]
52.0	52.0	4.0	4.0	10.0

## Results

Audio File	Measurement Duration [s]	Margin Upper Bound [dB]	Margin Lower Bound [dB]
48k_voice_300-3000_2s.wav	2.0	2.0	2.0



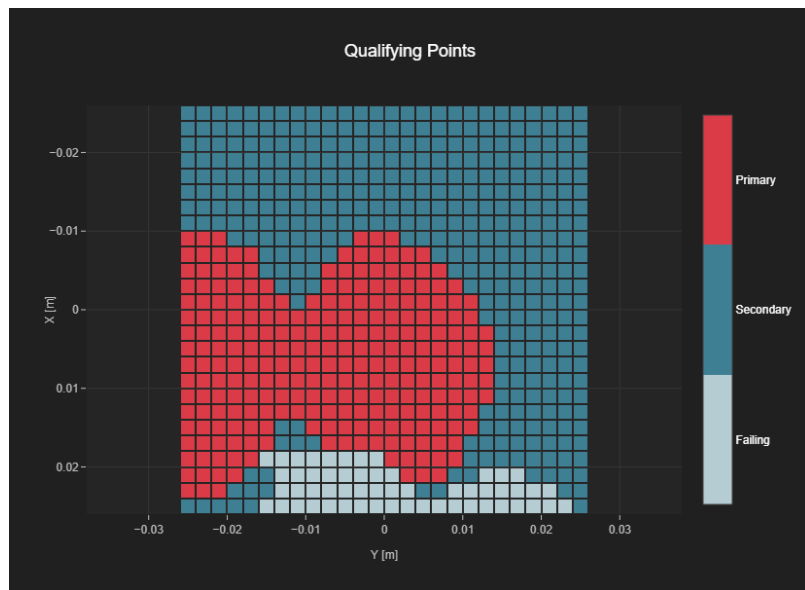
# T-Coil Coupling Mode Test Report

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Results

Primary Group Contiguous Point Count	Secondary Group Point Count	Secondary Group Max Longitudinal	Secondary Group Max Transverse
253	621	26	26



# T-Coil Signal Test Report

Measurement performed on September 06, 2024 at 18:12

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Hardware Setup

Probe Name	Probe Calibration Date	DAE Name	DAE Calibration Date
AM1DV3 - 3137	July 11, 2024	DAE4 Sn1468	August 15, 2024

## Communication Systems

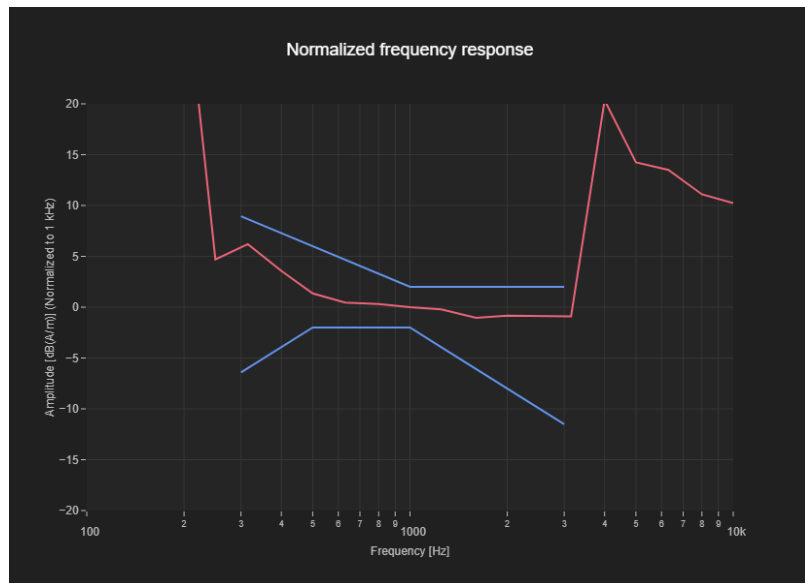
Band Name	Communication Systems Name	Channel	Frequency [MHz]
Band 48	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	55773	3603.3

## Grid Settings

Extent X [mm]	Extent Y [mm]	Step X [mm]	Step Y [mm]	Distance [mm]
52.0	52.0	4.0	4.0	10.0

## Results

Audio File	Measurement Duration [s]	Margin Upper Bound [dB]	Margin Lower Bound [dB]
48k_voice_300-3000_2s.wav	2.0	2.0	2.0



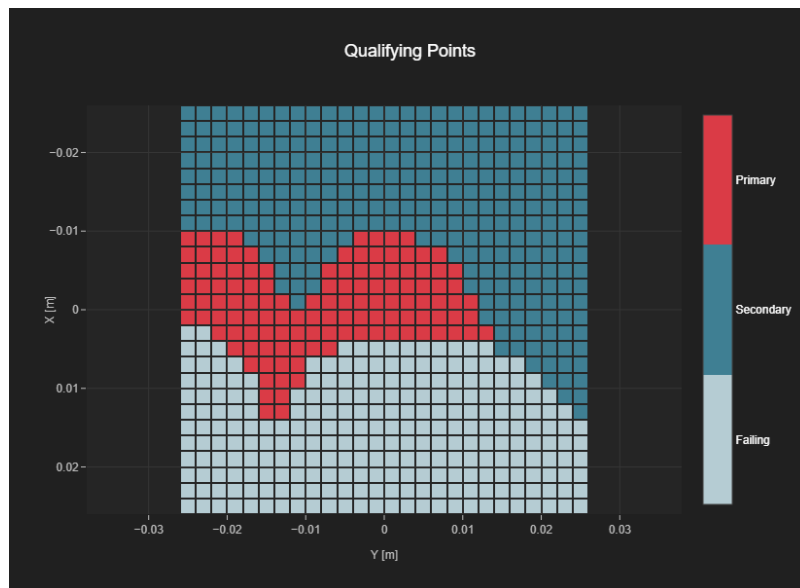
# T-Coil Coupling Mode Test Report

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Results

Primary Group Contiguous Point Count	Secondary Group Point Count	Secondary Group Max Longitudinal	Secondary Group Max Transverse
123	422	20	26





# T-Coil Signal Test Report

Measurement performed on September 19, 2024 at 17:16

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Hardware Setup

Probe Name	Probe Calibration Date	DAE Name	DAE Calibration Date
AM1DV3 - 3137	July 11, 2024	DAE4 Sn1468	August 15, 2024

## Communication Systems

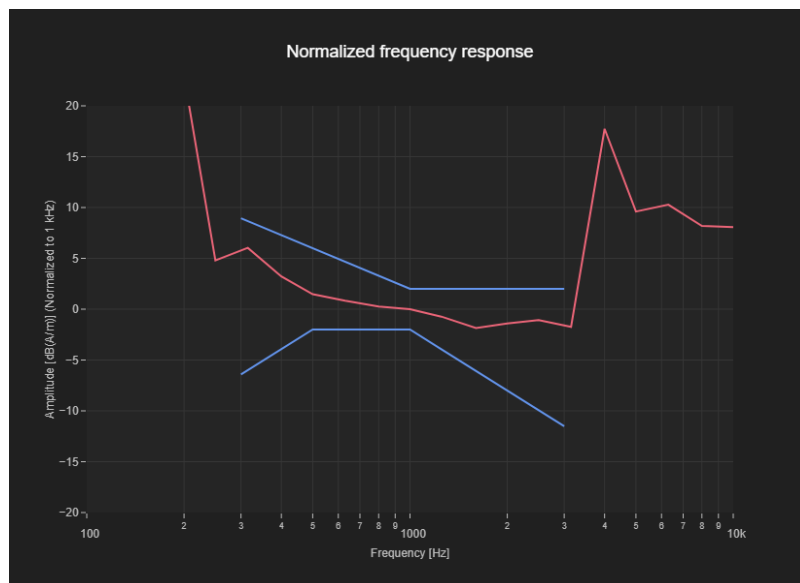
Band Name	Communication Systems Name	Channel	Frequency [MHz]
Band n66	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	349000	1745.0

## Grid Settings

Extent X [mm]	Extent Y [mm]	Step X [mm]	Step Y [mm]	Distance [mm]
52.0	52.0	4.0	4.0	10.0

## Results

Audio File	Measurement Duration [s]	Margin Upper Bound [dB]	Margin Lower Bound [dB]
48k_voice_300-3000_2s.wav	2.0	2.0	2.0



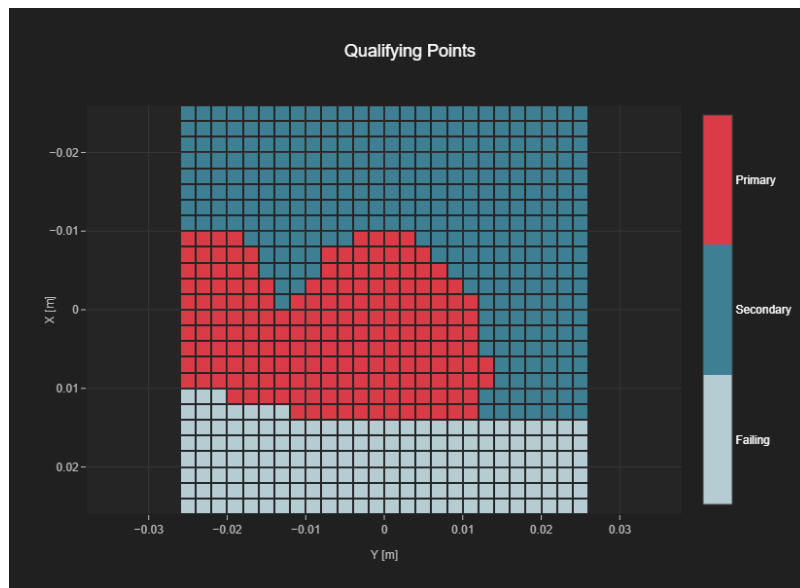
# T-Coil Coupling Mode Test Report

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Results

Primary Group Contiguous Point Count	Secondary Group Point Count	Secondary Group Max Longitudinal	Secondary Group Max Transverse
192	510	20	26



# T-Coil Signal Test Report

Measurement performed on September 19, 2024 at 17:54

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Hardware Setup

Probe Name	Probe Calibration Date	DAE Name	DAE Calibration Date
AM1DV3 - 3137	July 11, 2024	DAE4 Sn1468	August 15, 2024

## Communication Systems

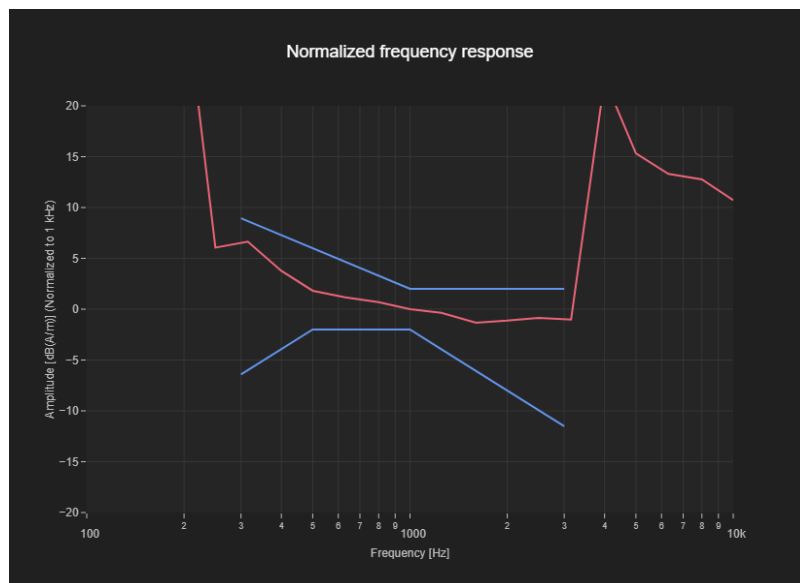
Band Name	Communication Systems Name	Channel	Frequency [MHz]
Band n77	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	650000	3750.0

## Grid Settings

Extent X [mm]	Extent Y [mm]	Step X [mm]	Step Y [mm]	Distance [mm]
52.0	52.0	4.0	4.0	10.0

## Results

Audio File	Measurement Duration [s]	Margin Upper Bound [dB]	Margin Lower Bound [dB]
48k_voice_300-3000_2s.wav	2.0	2.0	2.0



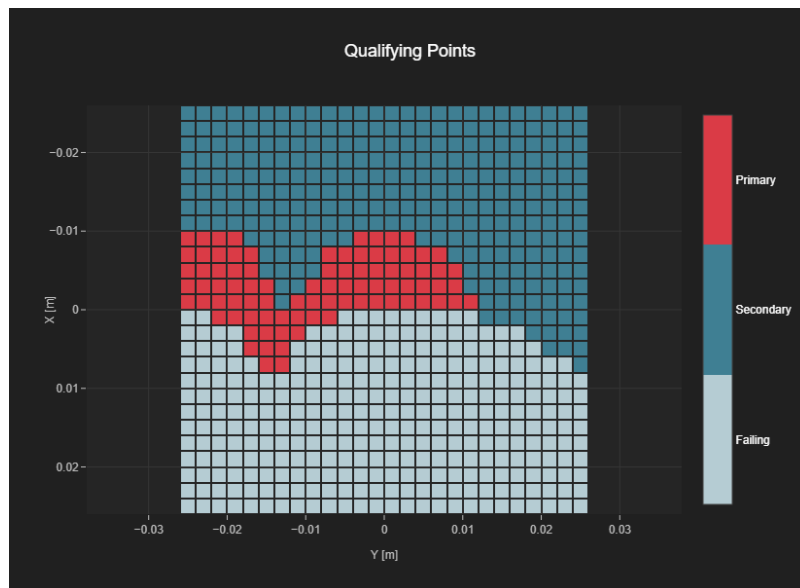
# T-Coil Coupling Mode Test Report

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Results

Primary Group Contiguous Point Count	Secondary Group Point Count	Secondary Group Max Longitudinal	Secondary Group Max Transverse
86	370	17	26



# T-Coil Signal Test Report

Measurement performed on September 09, 2024 at 15:08

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Hardware Setup

Probe Name	Probe Calibration Date	DAE Name	DAE Calibration Date
AM1DV3 - 3137	July 11, 2024	DAE4 Sn1468	August 15, 2024

## Communication Systems

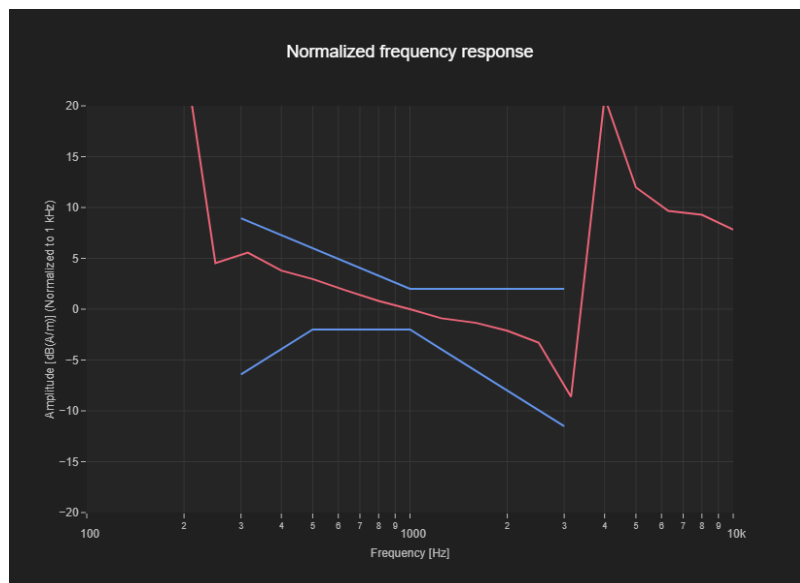
Band Name	Communication Systems Name	Channel	Frequency [MHz]
WLAN 2.4GHz	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	6	2437.0

## Grid Settings

Extent X [mm]	Extent Y [mm]	Step X [mm]	Step Y [mm]	Distance [mm]
52.0	52.0	4.0	4.0	10.0

## Results

Audio File	Measurement Duration [s]	Margin Upper Bound [dB]	Margin Lower Bound [dB]
48k_voice_300-3000_2s.wav	2.0	2.0	2.0



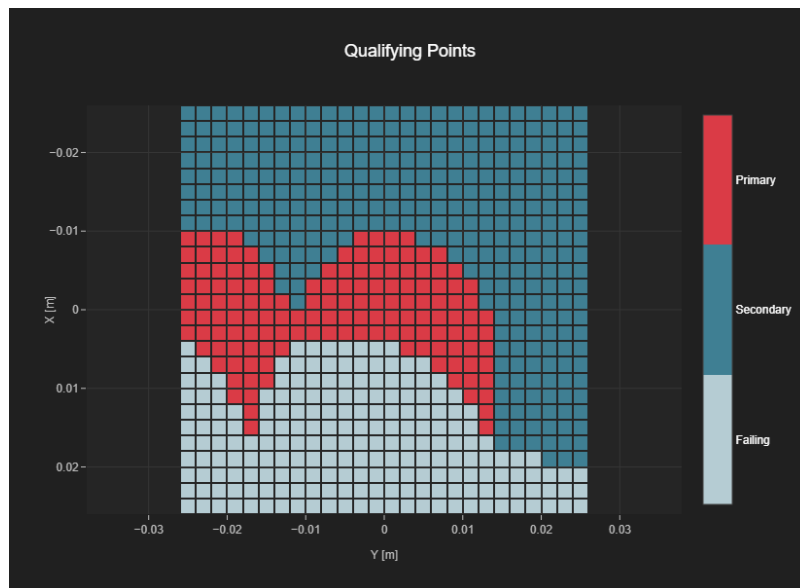
# T-Coil Coupling Mode Test Report

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Results

Primary Group Contiguous Point Count	Secondary Group Point Count	Secondary Group Max Longitudinal	Secondary Group Max Transverse
144	469	23	26



# T-Coil Signal Test Report

Measurement performed on September 10, 2024 at 15:36

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Hardware Setup

Probe Name	Probe Calibration Date	DAE Name	DAE Calibration Date
AM1DV3 - 3137	July 11, 2024	DAE4 Sn1468	August 15, 2024

## Communication Systems

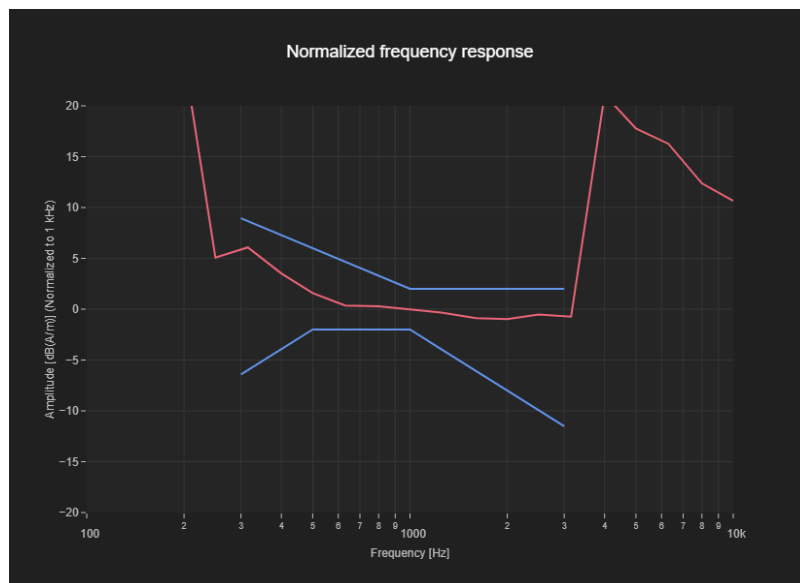
Band Name	Communication Systems Name	Channel	Frequency [MHz]
WLAN 5GHz	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	40	5200.0

## Grid Settings

Extent X [mm]	Extent Y [mm]	Step X [mm]	Step Y [mm]	Distance [mm]
52.0	52.0	4.0	4.0	10.0

## Results

Audio File	Measurement Duration [s]	Margin Upper Bound [dB]	Margin Lower Bound [dB]
48k_voice_300-3000_2s.wav	2.0	2.0	2.0



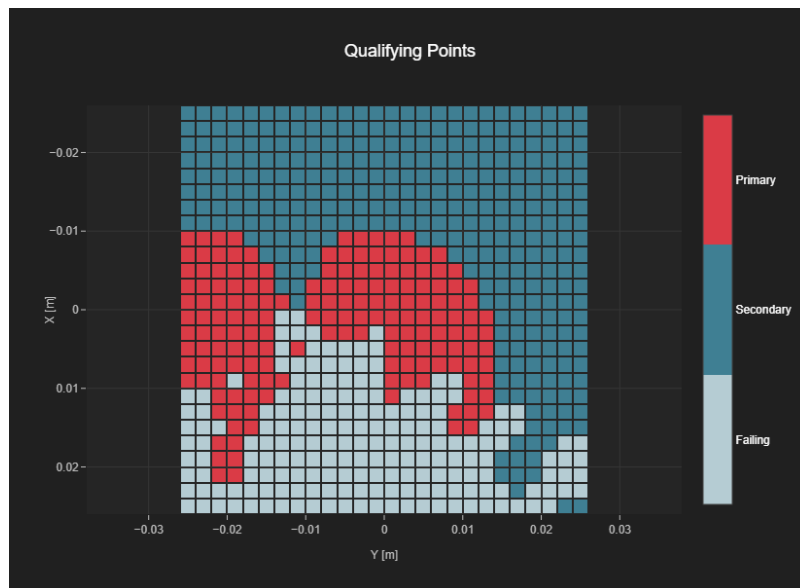
# T-Coil Coupling Mode Test Report

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Results

Primary Group Contiguous Point Count	Secondary Group Point Count	Secondary Group Max Longitudinal	Secondary Group Max Transverse
167	488	24	26





# T-Coil Signal Test Report

Measurement performed on September 12, 2024 at 16:33

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Hardware Setup

Probe Name	Probe Calibration Date	DAE Name	DAE Calibration Date
AM1DV3 - 3137	July 11, 2024	DAE4 Sn1468	August 15, 2024

## Communication Systems

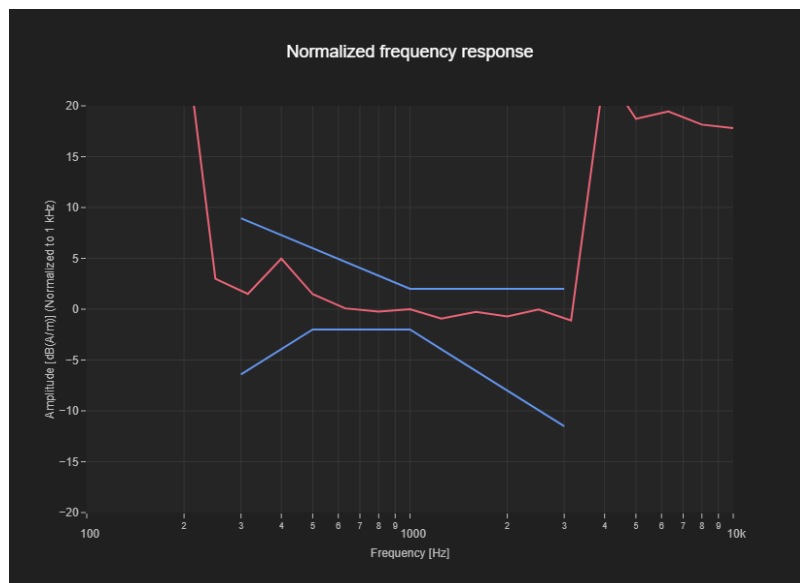
Band Name	Communication Systems Name	Channel	Frequency [MHz]
GSM 850	EDGE-FDD (TDMA, 8PSK, TN 0-1)	190	836.6

## Grid Settings

Extent X [mm]	Extent Y [mm]	Step X [mm]	Step Y [mm]	Distance [mm]
52.0	52.0	4.0	4.0	10.0

## Results

Audio File	Measurement Duration [s]	Margin Upper Bound [dB]	Margin Lower Bound [dB]
48k_voice_300-3000_2s.wav	2.0	2.0	1.76



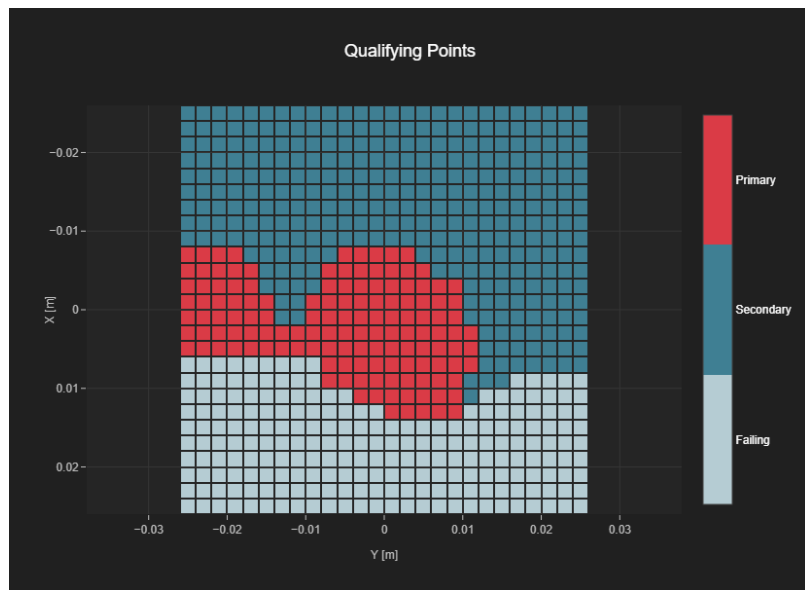
# T-Coil Coupling Mode Test Report

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Results

Primary Group Contiguous Point Count	Secondary Group Point Count	Secondary Group Max Longitudinal	Secondary Group Max Transverse
136	458	20	26



# T-Coil Signal Test Report

Measurement performed on September 12, 2024 at 14:18

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Hardware Setup

Probe Name	Probe Calibration Date	DAE Name	DAE Calibration Date
AM1DV3 - 3137	July 11, 2024	DAE4 Sn1468	August 15, 2024

## Communication Systems

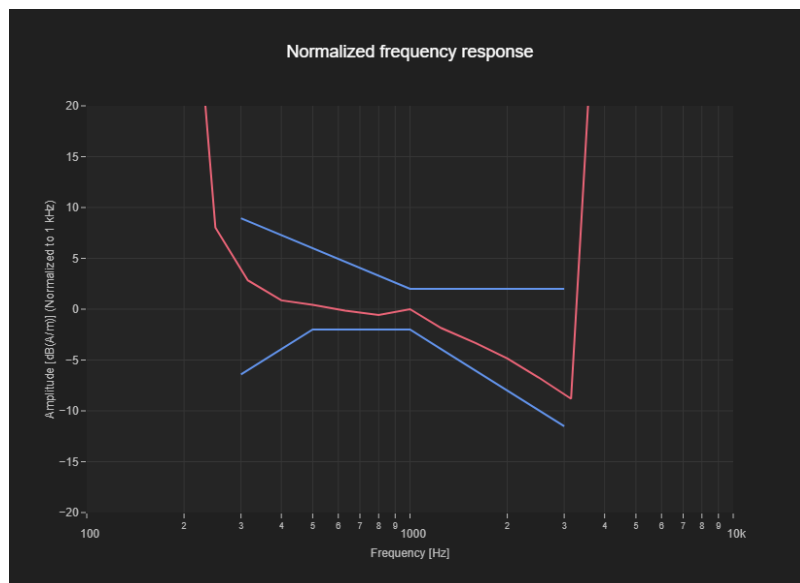
Band Name	Communication Systems Name	Channel	Frequency [MHz]
Band 5	UMTS-FDD (HSUPA, Subtest 2)	4183	836.6

## Grid Settings

Extent X [mm]	Extent Y [mm]	Step X [mm]	Step Y [mm]	Distance [mm]
52.0	52.0	4.0	4.0	10.0

## Results

Audio File	Measurement Duration [s]	Margin Upper Bound [dB]	Margin Lower Bound [dB]
48k_voice_300-3000_2s.wav	2.0	2.0	1.43



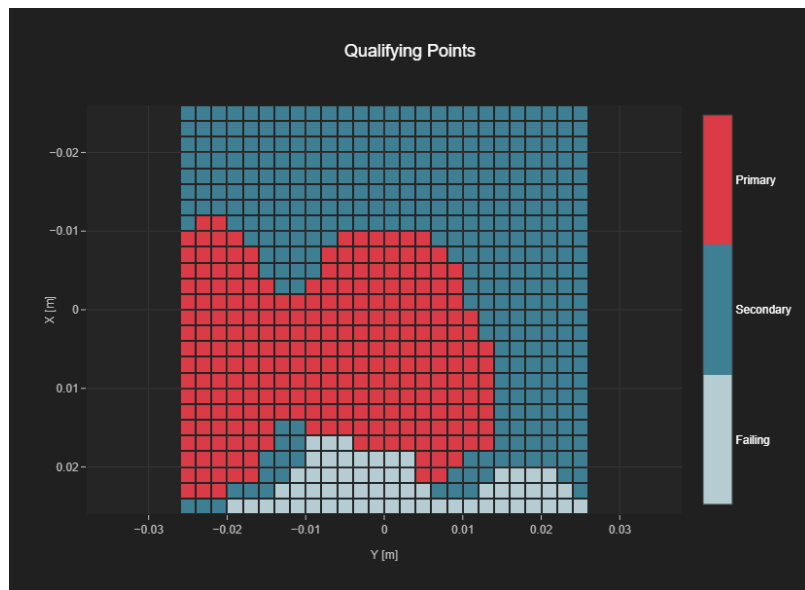
# T-Coil Coupling Mode Test Report

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Results

Primary Group Contiguous Point Count	Secondary Group Point Count	Secondary Group Max Longitudinal	Secondary Group Max Transverse
262	615	26	26



# T-Coil Signal Test Report

Measurement performed on September 11, 2024 at 10:53

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Hardware Setup

Probe Name	Probe Calibration Date	DAE Name	DAE Calibration Date
AM1DV3 - 3137	July 11, 2024	DAE4 Sn1468	August 15, 2024

## Communication Systems

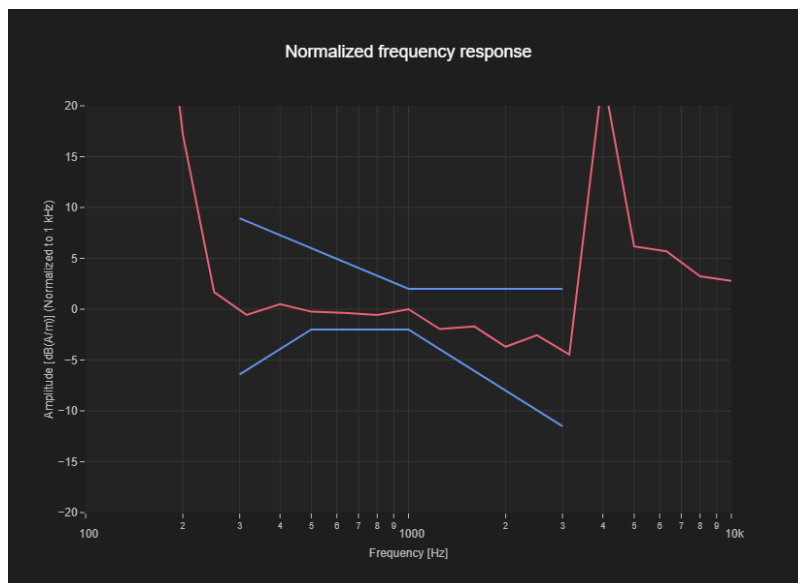
Band Name	Communication Systems Name	Channel	Frequency [MHz]
Band 66	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	132322	1745.0

## Grid Settings

Extent X [mm]	Extent Y [mm]	Step X [mm]	Step Y [mm]	Distance [mm]
52.0	52.0	4.0	4.0	10.0

## Results

Audio File	Measurement Duration [s]	Margin Upper Bound [dB]	Margin Lower Bound [dB]
48k_voice_300-3000_2s.wav	2.0	2.0	1.43



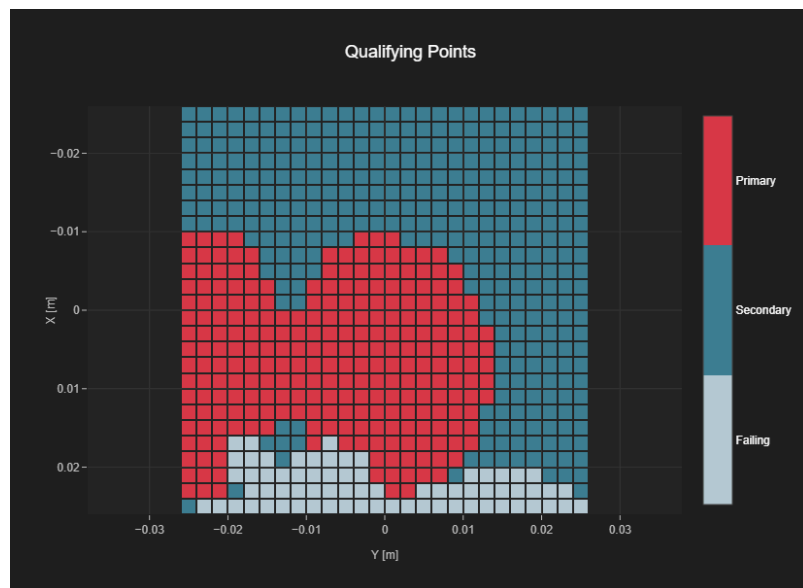
# T-Coil Coupling Mode Test Report

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Results

Primary Group Contiguous Point Count	Secondary Group Point Count	Secondary Group Max Longitudinal	Secondary Group Max Transverse
257	607	26	26



# T-Coil Signal Test Report

Measurement performed on September 11, 2024 at 14:01

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Hardware Setup

Probe Name	Probe Calibration Date	DAE Name	DAE Calibration Date
AM1DV3 - 3137	July 11, 2024	DAE4 Sn1468	August 15, 2024

## Communication Systems

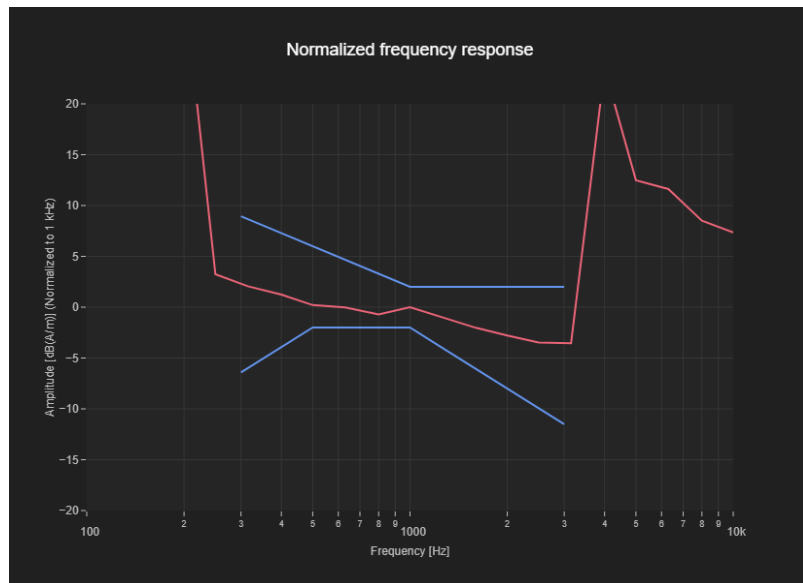
Band Name	Communication Systems Name	Channel	Frequency [MHz]
Band 48	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	55773	3603.3

## Grid Settings

Extent X [mm]	Extent Y [mm]	Step X [mm]	Step Y [mm]	Distance [mm]
52.0	52.0	4.0	4.0	10.0

## Results

Audio File	Measurement Duration [s]	Margin Upper Bound [dB]	Margin Lower Bound [dB]
48k_voice_300-3000_2s.wav	2.0	2.0	1.28



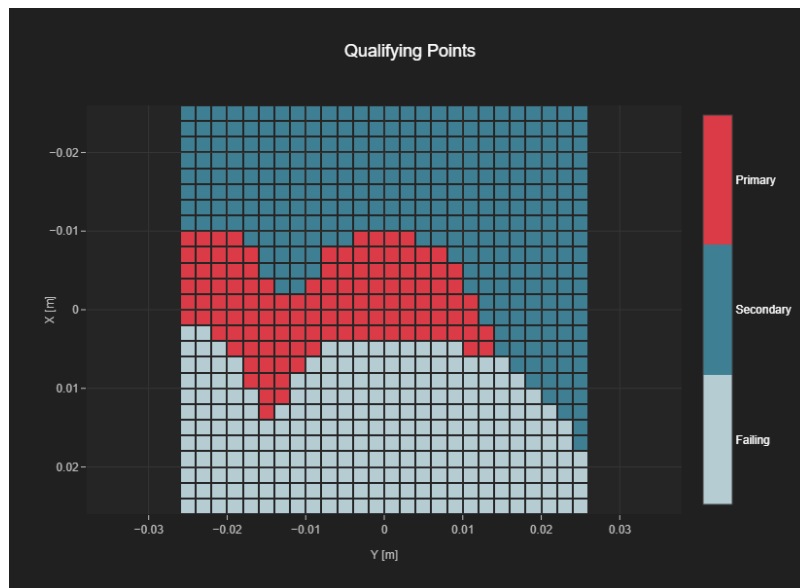
# T-Coil Coupling Mode Test Report

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Results

Primary Group Contiguous Point Count	Secondary Group Point Count	Secondary Group Max Longitudinal	Secondary Group Max Transverse
125	428	22	26





# T-Coil Signal Test Report

Measurement performed on September 24, 2024 at 18:01

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Hardware Setup

Probe Name	Probe Calibration Date	DAE Name	DAE Calibration Date
AM1DV3 - 3137	July 11, 2024	DAE4 Sn1468	August 15, 2024

## Communication Systems

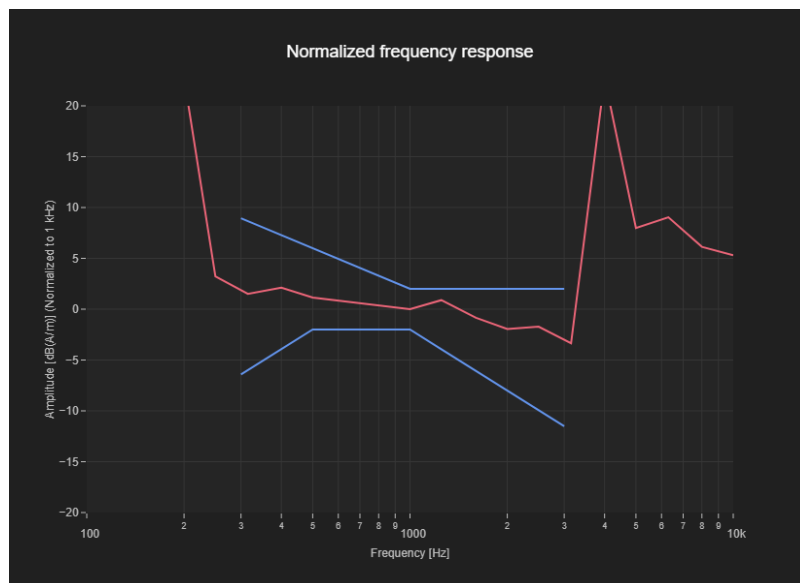
Band Name	Communication Systems Name	Channel	Frequency [MHz]
Band n25	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	376500	1882.5

## Grid Settings

Extent X [mm]	Extent Y [mm]	Step X [mm]	Step Y [mm]	Distance [mm]
52.0	52.0	4.0	4.0	10.0

## Results

Audio File	Measurement Duration [s]	Margin Upper Bound [dB]	Margin Lower Bound [dB]
48k_voice_300-3000_2s.wav	2.0	1.11	2.0



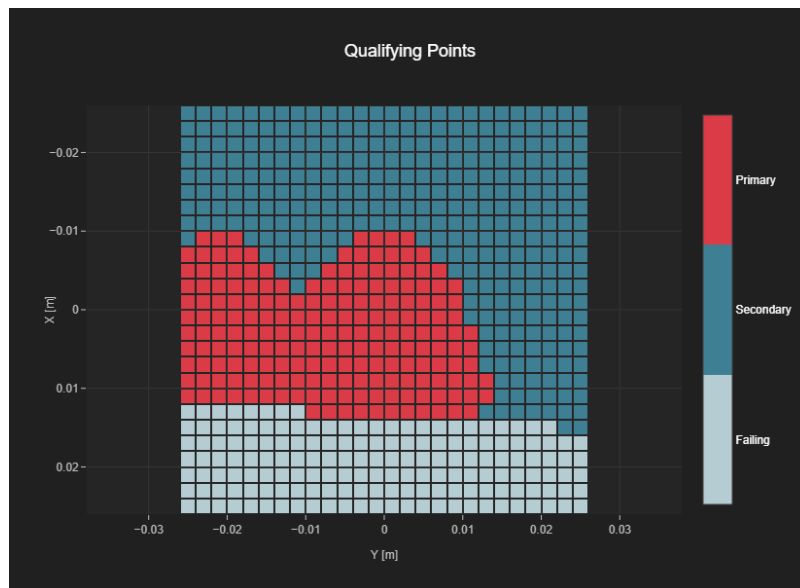
# T-Coil Coupling Mode Test Report

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Results

Primary Group Contiguous Point Count	Secondary Group Point Count	Secondary Group Max Longitudinal	Secondary Group Max Transverse
193	514	21	26



# T-Coil Signal Test Report

Measurement performed on September 24, 2024 at 13:45

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Hardware Setup

Probe Name	Probe Calibration Date	DAE Name	DAE Calibration Date
AM1DV3 - 3137	July 11, 2024	DAE4 Sn1468	August 15, 2024

## Communication Systems

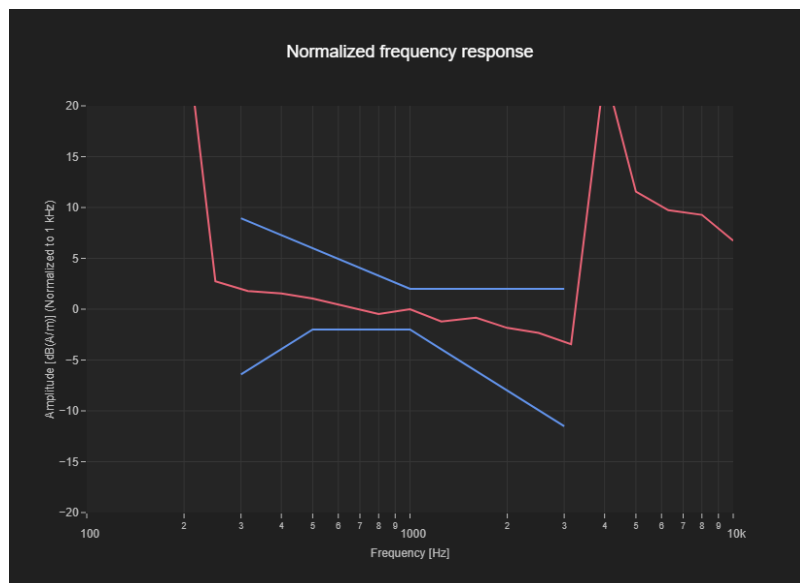
Band Name	Communication Systems Name	Channel	Frequency [MHz]
Band n77	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	650000	3750.0

## Grid Settings

Extent X [mm]	Extent Y [mm]	Step X [mm]	Step Y [mm]	Distance [mm]
52.0	52.0	4.0	4.0	10.0

## Results

Audio File	Measurement Duration [s]	Margin Upper Bound [dB]	Margin Lower Bound [dB]
48k_voice_300-3000_2s.wav	2.0	2.0	1.52



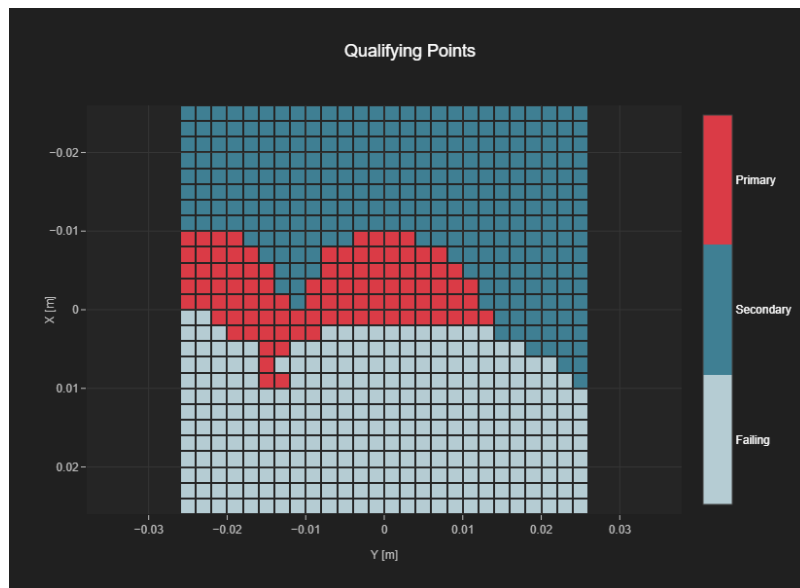
# T-Coil Coupling Mode Test Report

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Results

Primary Group Contiguous Point Count	Secondary Group Point Count	Secondary Group Max Longitudinal	Secondary Group Max Transverse
100	386	18	26



# T-Coil Signal Test Report

Measurement performed on September 11, 2024 at 17:15

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Hardware Setup

Probe Name	Probe Calibration Date	DAE Name	DAE Calibration Date
AM1DV3 - 3137	July 11, 2024	DAE4 Sn1468	August 15, 2024

## Communication Systems

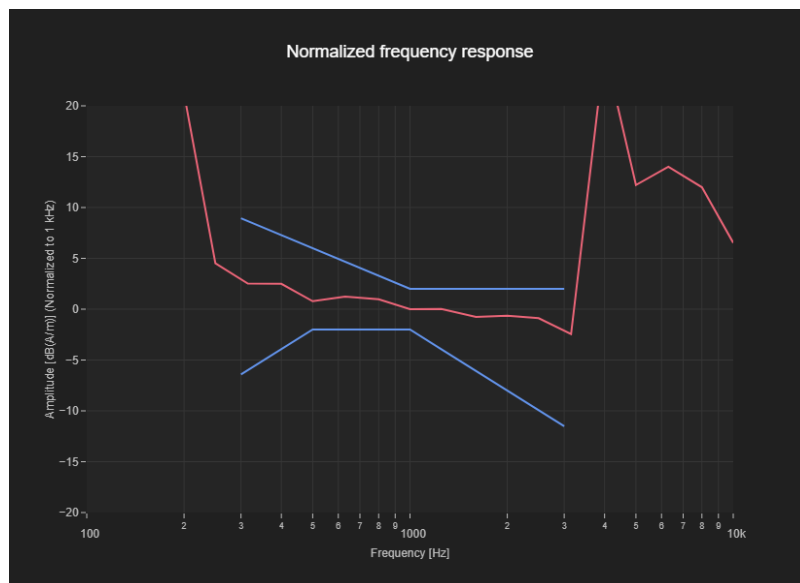
Band Name	Communication Systems Name	Channel	Frequency [MHz]
WLAN 2.4GHz	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	6	2437.0

## Grid Settings

Extent X [mm]	Extent Y [mm]	Step X [mm]	Step Y [mm]	Distance [mm]
52.0	52.0	4.0	4.0	10.0

## Results

Audio File	Measurement Duration [s]	Margin Upper Bound [dB]	Margin Lower Bound [dB]
48k_voice_300-3000_2s.wav	2.0	1.99	2.0



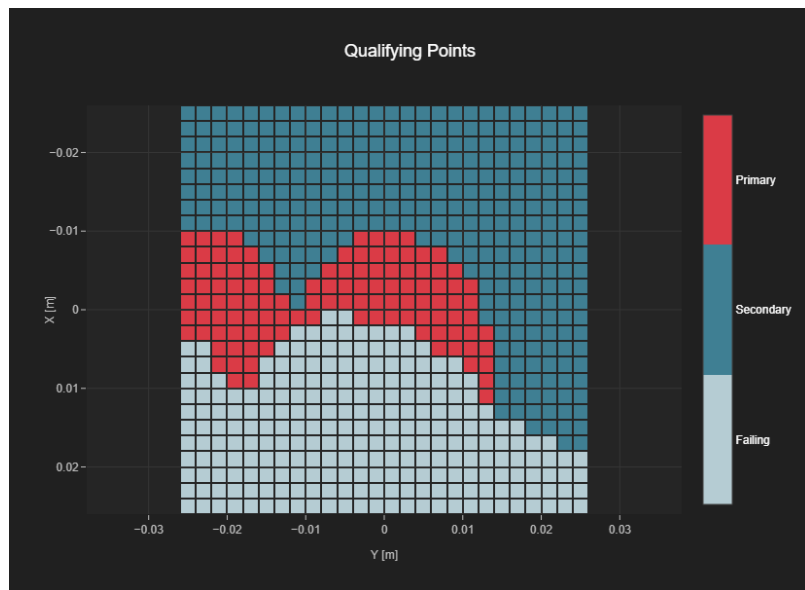
# T-Coil Coupling Mode Test Report

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Results

Primary Group Contiguous Point Count	Secondary Group Point Count	Secondary Group Max Longitudinal	Secondary Group Max Transverse
116	433	22	26



# T-Coil Signal Test Report

Measurement performed on September 12, 2024 at 10:40

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Hardware Setup

Probe Name	Probe Calibration Date	DAE Name	DAE Calibration Date
AM1DV3 - 3137	July 11, 2024	DAE4 Sn1468	August 15, 2024

## Communication Systems

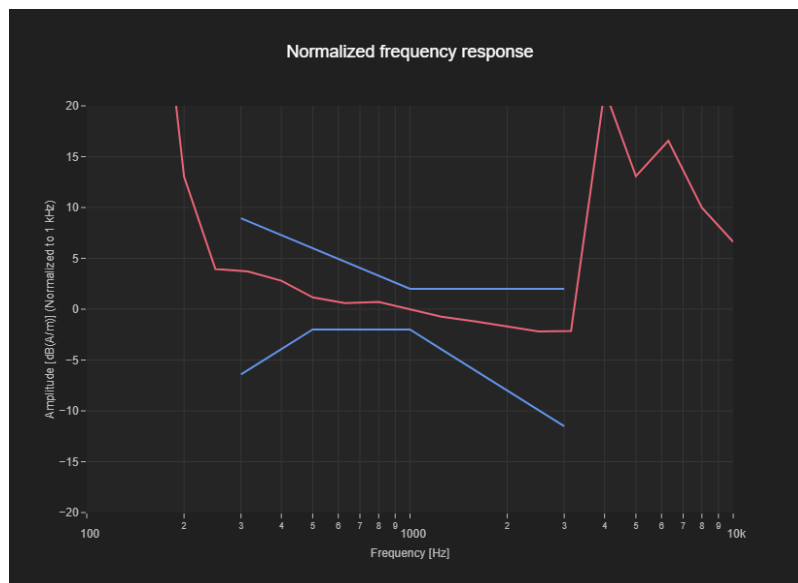
Band Name	Communication Systems Name	Channel	Frequency [MHz]
WLAN 5GHz	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	157	5785.0

## Grid Settings

Extent X [mm]	Extent Y [mm]	Step X [mm]	Step Y [mm]	Distance [mm]
52.0	52.0	4.0	4.0	10.0

## Results

Audio File	Measurement Duration [s]	Margin Upper Bound [dB]	Margin Lower Bound [dB]
48k_voice_300-3000_2s.wav	2.0	2.0	2.0



# T-Coil Coupling Mode Test Report

## Device Under Test

Manufacturer	Model
Samsung Electronics	SM-A166U

## Results

Primary Group Contiguous Point Count	Secondary Group Point Count	Secondary Group Max Longitudinal	Secondary Group Max Transverse
144	457	23	26

