# H. Modulation Interference Factor (MIF) Measurements using MAIA and DASY6

## H.1. Introduction

The DUT supports 5G NR TDD Power Class 2. Manufacturer/OEM declares operating duty cycle to be 50% for 5G NR (FR1) TDD Power Class 2. The UID Summary only shows MIF values for 5G NR TDD bands operating at 100% duty cycle. Therefore, the test lab performed MIF measurements for 5G NR TDD Power Class 2 at the lower duty cycle of 50%.

Please refer to §H.3 for *MIF Measured Results* and §H.4 for *Duty Cycle Measurements*. These Duty cycles will be used for HAC RF<sub>AIPL</sub> and RF<sub>AIL</sub> evaluations.

## H.2. Test Setup

Modulation Interference Factor (MIF) measurements were performed in accordance with ANSI C.63.19 2019 Annex D §D.7. SPEAG software and test equipment was used to perform the MIF measurements. MIF measurements test procedure using SPEAG SW and equipment is outlined in *SPEAG DASY6 Module HAC System Handbook §7.1 MIF Measurements with MAIA*. Details of test equipment and test procedure used for MIF measurements are detailed below.

## H.2.1. Modulation and Interference Analyzer (MAIA)

MAIA is a hardware interface for evaluating the modulation and audio interference characteristics of RF signals in the frequency range 698–6000 MHz. DASY6 evaluates the time-domain and frequency-domain properties of the uplink signal transmitted by the DUT during SAR measurement with MAIA. It uses USB-powered active electronics to identify the modulation of the DUT. It can be operated with the over-the-air interface using the built-in ultra-broadband planar log spiral antenna (698–6000 MHz) or in the conducted mode using the coaxial SMA 50W connector (300–6000 MHz).



### Figure 1: Modulation and Interference Analyzer (MAIA)

## H.2.2. MIF Measurements using DASY6

Measurements of the MIF value is conducted using the MAIA in conjunction with DASY6 HAC Module Notebook. The MAIA supports two modes of measurement: radiated and conducted. The radiated option uses the built in wide-band antenna and the conducted uses the SMA connector input on the rear of the MAIA.

MIF measurements were taken using the conducted option. Test procedure to measure MIF vale is as follows:

- 1. Measurements with MAIA are done in a separate HAC notebook module. This module can be started from within DASY6 Module HAC by clicking the HAC Notebook drop-down and choosing "MIF Measurements".
- 2. The active MAIA can be set in the drop-down list of available MAIA's. Should the MAIA not be available, the "Detect MAIA" button can be clicked which will trigger a search for connected hardware in DASY6.
- 3. The measurement can be started by clicking "Start measurement" which will continuously measure the MIF. The MIF will take a while to stabilize from which point the MIF can be noted. To stop the measurement the "Stop measurement" button is used.

File E	Edit '	View Insert Cell	Kernel Widget	s Help			Trusted	Virtual environment of Module HAC O			
		This Jupyter Notebook e Please press Kernel >> R from src.hac.contr	ments with MAIA nables Modulation Interference Factor (MIP) measurements with the Modulation & Audio Interference Analyser (MAIA). extent & Run All menu to start of Lens Integers' MAIAController								
from pro import SatupDantroller											
		DASY2 API Server Settings									
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		Input Channel	Radiated ~								
		MIF Measurements MIF Value: dB									

Figure 2: MIF Measurements in DASY6

### H.3. MIF Measured Results Measured MIF (dB)

		M	easured MIF	(aB)					
BW (MHz)	SCS (kHz)	OFDM Modulation	Mode	RB Allocation	RB Offset	PC2 518598.00			
	(	Scheme				2592.99 MHz			
			π/2 BPSK	1	1 69	-18.75 -21.41			
		DFT-s		1	1	-18.46			
100	30		QPSK	135	69	-25.21			
				1	1	-18.76			
		CP	QPSK	137	68	-23.55			
BW	SCS	OFDM		RB	RB	PC2			
(MHz)	(kHz)	Modulation	Mode	Allocation	Offset	518598.00			
(	(	Scheme				2592.99 MHz			
			π/2 BPSK	1	1	-18.76			
		DFT-s	INZ DI OIL	120	63	-25.00			
90	30		QPSK	1	1	-18.94			
				120	63	-27.51			
		CP	QPSK	1	1	-19.85			
				123	61	-25.63			
BW	SCS	OFDM		RB	RB	PC2			
(MHz)	(kHz)	Modulation Scheme	Mode	Allocation	Offset	518598.00			
				1	1	2592.99 MHz -18.29			
			π/2 BPSK	108	54	-10.29			
		DFT-s		1	1	-19.49			
80	30		QPSK	108	54	-27.02			
				1	1	-18.86			
		CP	QPSK	109	54	-25.11			
		OFDM				PC2			
BW	SCS	OF DM Modulation	Mode	RB	RB	518598.00			
(MHz)	(kHz)	Scheme		Allocation	Offset	2592.99 MHz			
				1	1	-18.20			
	[		π/2 BPSK	90	50	-24.85			
-		DFT-s	0.55	1	1	-19.73			
70	30		QPSK	90	50	-26.72			
	[			1	1	-19.41			
	[	CP	QPSK	95	47	-25.85			
		OEDM				PC2			
BW	SCS	Modulation	Mode	RB	RB	518598.00			
(MHz)	(kHz)	Scheme		Allocation	Offset	2592.99 MHz			
			-0.05	1	1	-17.97			
	[	DFT-s	π/2 BPSK	81	40	-27.39			
60	20	DF1-S	OBSK	1	1	-19.72			
60	30		QPSK	81	40	-24.62			
		CP	QPSK	1	1	-18.91			
		0.	aron	81	40	-23.56			
BW	SCS	OFDM		RB	RB	PC2			
(MHz)	(kHz)	Modulation	Mode	Allocation	Offset	518598.00			
		Scheme				2592.99 MHz			
			π/2 BPSK	1	1	-18.83			
		DFT-s		64	35	-26.81			
50	30		QPSK	1	1	-19.54			
				64	35	-25.05			
		CP	QPSK	1	1	-18.88			
				67	33	-23.55			
BW	SCS	OFDM	Mode	RB Allocation	RB	PC2			
(MHz)	(kHz)	Modulation Scheme			Offset	518598.00 2592.99 MHz			
				1	1	-18.63			
			π/2 BPSK	50	28	-26.19			
		DFT-s		1	1	-19.45			
40	30		QPSK	50	28	-25.69			
		-		1	1	-19.78			
		CP	QPSK	53	26	-23.33			
		OEDM				PC2			
BW (MHz)	SCS	Modulation	Mode	RB	RB Offset	518598.00			
(WHZ)	(kHz)	Scherne		Allocation	Offset	2592.99 MHz			
						π/2 BPSK	1	1	-18.69
			II/2 DP OK	36	21	-26.42			
20		DFT-s		36 1		-26.42 -18.96			
30	30	DFT-s	QPSK		21				
30	30		QPSK	1	21 1	-18.96			
30	30	DFT-s CP		1 36	21 1 21	-18.96 -25.51			
			QPSK	1 36 1 39	21 1 21 1 19	-18.96 -25.51 -19.52 -21.08 <b>PC2</b>			
BW	SCS	CP OFDM Modulation	QPSK	1 36 1 39 RB	21 1 21 1 19 RB	-18.96 -25.51 -19.52 -21.08 <b>PC2</b> 518598.00			
		CP OFDM	QPSK QPSK	1 36 1 39 RB Allocation	21 1 21 1 19 RB Offset	-18.96 -25.51 -19.52 -21.08 <b>PC2</b> 518598.00 2592.99 MHz			
BW	SCS	CP OFDM Modulation	QPSK QPSK	1 36 1 39 RB Allocation	21 1 21 1 19 <b>RB</b> Offset	-18.96 -25.51 -19.52 -21.08 <b>PC2</b> 518598.00 2592.99 MHz -19.04			
BW	SCS	CP OFDM Modulation	QPSK QPSK Mode	1 36 1 39 <b>RB</b> Allocation 1 25	21 1 21 1 19 <b>RB</b> Offset 1 13	-18.96 -25.51 -19.52 -21.08 <b>PC2</b> 518598.00 2592.99 MHz -19.04 -25.67			
BW	SCS	CP OFDM Modulation Scheme	QPSK QPSK Mode	1 36 1 39 <b>RB</b> Allocation 1 25 1	21 1 21 1 19 RB Offset 1 13 1	-18.96 -25.51 -19.52 -21.08 <b>PC2</b> 518598.00 2592.99 MHz -19.04 -25.67 -18.69			
BW (MHz)	SCS (kHz)	CP OFDM Modulation Scheme	QPSK QPSK Mode π/2 BPSK	1 36 1 39 Allocation 1 25 1 25	21 1 21 1 9 <b>RB</b> Offset 1 13 1 13	-18.96 -25.51 -19.52 -21.08 PC2 518598.00 2592.99 MHz -19.04 -25.67 -18.69 -24.12			
BW (MHz)	SCS (kHz)	CP OFDM Modulation Scheme	QPSK QPSK Mode π/2 BPSK	1 36 1 39 <b>RB</b> Allocation 1 25 1 25 1	21 1 21 1 9 0ffset 1 13 1 13 1 1 3	-18.96 -25.51 -19.52 -21.08 PC2 518598.00 2592.99 MHz -25.67 -18.69 -24.12 -19.34			
BW (MHz)	SCS (kHz)	CP OFDM Modulation Scheme DFT-s CP	QPSK QPSK Mode π/2 BPSK QPSK	1 36 1 39 Allocation 1 25 1 25	21 1 21 1 9 <b>RB</b> Offset 1 13 1 13	-18.96 -25.51 -19.52 -21.08 PC2 518598.00 2592.99 MHz -19.04 -25.67 -18.69 -24.12 -19.34 -21.65			
BW (MHz) 20 BW	SCS (kHz) 30 SCS	CP OFDM Modulation Scheme DFT-s CP OFDM	QPSK QPSK Mode π/2 BPSK QPSK	1 36 1 39 <b>RB</b> Allocation 1 25 1 25 1 25 1 25 8 RB	21 1 21 1 9 0ffset 1 1 3 1 1 3 1 1 3 8 8	-18.96 -25.51 -19.52 -21.08 PC2 518598.00 2592.99 MHz -19.04 -25.67 -18.69 -24.12 -19.34 -21.65 PC2			
BW (MHz) 20	SCS (kHz) 30	CP OFDM Modulation Scheme DFT-s CP	QPSK QPSK Mode π/2 BPSK QPSK	1 36 1 39 <b>RB</b> Allocation 1 25 1 25 1 25 1 25	21 1 21 1 19 <b>RB</b> Offset 1 13 1 13 1 13 1 13	-18.96 -25.51 -19.52 -21.08 PC2 518598.00 2592.99 MHz -19.04 -25.67 -18.69 -24.12 -19.34 -21.65 518598.00			
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BW (MHz) 20 BW (MHz) 15 BW	SCS (kHz) 30 SCS (kHz) 30 SCS	CP OFDM Modulation Scheme DFT-s OFDM Modulation Scheme CP OFDM Modulation	QPSK           QPSK           Mode           αPSK           QPSK           αPSK	1 36 1 39 RB Allocation 1 1 25 1 1 25 1 1 25 1 1 25 1 1 25 1 1 1 1	21 1 21 1 1 1 1 1 1 1 1 1 1 1 1 1	-18.96 (25.51) -19.52 -21.08 PC2 518598.00 2502.99 MHz -19.04 -26.67 -18.69 -24.12 -16.69 -24.12 -16.99 -24.12 -17.90 2512.99 MHz -17.90 2512.99 MHz -18.57 -22.10 PC2 518598.00 2552.99 MHz -18.77 -20.51 -18.77 -20.51 -18.67			
BW (MHz) 20 BW (MHz) BW (MHz)	SCS (kHz) 30 SCS (kHz) SCS (kHz)	CP OFDM Modulation Scheme DFT-s OFDM Modulation Scheme CP OFDM Modulation	QPSK           QPSK           Mode           T/2 BPSK           QPSK           QPSK           QPSK           QPSK           QPSK           Mode           T/2 BPSK           QPSK           Mode           T/2 BPSK           QPSK           T/2 BPSK           QPSK           T/2 BPSK	1 36 1 39 RB Allocation 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 1 25 1 1 25 1 1 25 1 1 25 1 1 25 1 1 25 25 1 25 25 1 25 25 25 25 25 25 25 25 25 25	21 1 1 21 1 1 1 1 1 1 1 1 1 1 1 1 1	-18.96 -25.51 -18.52 -21.08 PC2 -51899.00 -2592.99 MHz -18.69 -24.12 -18.69 PC2 -24.85 PC2 -21.85 PC2 -24.12 -19.34 -21.85 PC2 -21.71 -19.24 -18.57 -24.60 -25.09 MHz -21.71 -19.24 -18.57 -22.10 PC2 -51859.60 -251829.80 -25180 -251829.80 -2518			

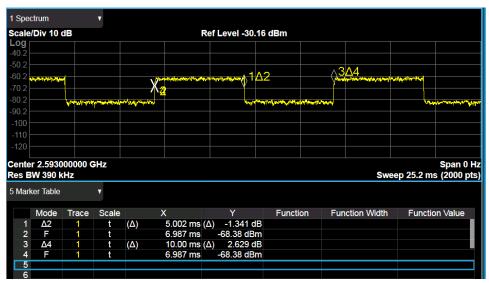
#### Notes:

- 5G NR TDD band n41 was used for Power Class 2 measurements.
- o FTM was used for 5G NR TDD MIF measurements to ensure correct operating Duty Cycle was used for measurements. Worst Case measured MIF values will be used HAC  $\mathsf{RF}_{\mathsf{AIPL}}$  and  $\mathsf{RF}_{\mathsf{AIL}}$  evaluations.
  - Worst Case MIF vales for Power Class 2: 0
    - DFT-s-OFDM π/2 BPSK: -17.92 dB
    - DFT-s-OFDM QPSK: -18.46 dB •
    - . CP-OFDM QPSK: -18.57 dB

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### H.4. Duty Cycle Measurements

Duty cycle measurements were performed for 5G NR TDD Power Class 2 to confirm DUTs operating duty cycle for these respective power classes. Measured Duty cycles will be used for HAC RF<sub>AIPL</sub> and RF<sub>AIL</sub> evaluations.



### Figure 3: 5G NR TDD Power Class 2, 1% RB

#### **Duty Cycle Measured Results**

Technology	Mode	RB Allocation	Time On (ms)	Period (ms)	Measured Duty Cycle			
5G NR TDD PC2	OFDM	1%	5.002	10.00	50.0%			
Notes:								

Duty Cycle = (Time on / period) \* 100%.