

**FOR SALE**

**SNG 4**

**Used HD 1080i - SNG Mercedes Sprinter 518D**

**2+1 in 1080i**

**SNG is fully redundant and includes a redundancy HPA switch**

**Prepared and pre-cabled for 2 CCU camera chains**

**The SNG was built in 2007 by ND Satcom -Germany**

**First registration in July 2007**

**Registered as "working vehicle"**

**Mileage 533.000km**

**Euro Emission Norm: Euro 4**

**TÜV/MOT valid until May 2025**

**2x UPS - Eaton 3000**

**Diesel - Stand Heater system**

**32 Ampere CEE power system**

**IEC 60364-7-717 power certificate – UEFA / FIFA standard**

**HPC Hydraulic system included**

**Including:**

2x 700 Watt HPA's -BUL2713 ND-Satcom with built in BUC - block upconverter and  
Linearizer - 13.75-14.50 GHz outdoor HPA's

1x Skymas 1900 Antenna

3x Adtec EN91 – 1080i encoder

2x Adtec IRD60 – 1080i decoder

1x Sencore MRD7000 Decoder - 4K with 4 decoder licenses

Vikinx 64 x 64 1080i video matrix with BFE control panels

1x Riedel Artist 32 intercom system

Rigol RSA 3030-TG spectrum analyzer

Leader LV 5770A multi format measuring equipment – 1080i, 1080p, HDR, 4K

1x Panasonic AV-HS400AE HD 1080i video mixer – 4 in & 2 out

1x Yamaha LS9 audio mixer

1x Receiving matrix – ND Satcom

1x Open Gear – Ross – streaming encoder

1x Black Magic SSD 4K studio pro recorder

1x Barnfind Fiber stagebox - 1x Lemo SMPTE connector on the rear side

Rear side all lined with stainless steel sheet

1x Barnfind basic chassis- 1x Lemo SMPTE connector on the rear side

Rear side all lined with stainless steel sheet

Built in generator system - engine coupled

SNG is repared for 2x CCU camera chains

Rear side all lined with stainless steel sheet

SNG is in good condition and very well serviced and maintained

sports tv media  
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Used HD 1080i SNG Mercedes Sprinter 518D in good condition – SNG 4

**SNG facts:**

Professional uplink and broadcast technology with corresponding redundancies - in HD 1080i

» all requirements of the EBU or UEFA are met

» streaming option integrated

» one-room concept (1-4 workstations)

» integrated emergency power generator / UPS concept

All 3 years serviced from ND-Satcom - service reports are available

Permanently maintained and upgraded - service reports are available

**Video/Audio/Camera equipment:**

**Camera chains:**

This SNG is prepared for up to 2x CCU controlled camera chains -video cabling is prepared in HD1080i

There is enough space on the rear side, to install up to 4x CCU camera chains.

**Video:**

There is a 64x64 VikinX Videomatrix in 1080i installed

Panasonic AV-HS400AE video mixer 1080i is installed

**Audio:**

Audio mixer Yamaha LS9-16 included

**Satellite equipment:**

This SNG has high HPA hours, but was well serviced by ND Satcom - all service reports are available,  
everything works perfectly.

All waveguides and tubes are in excellent condition

Helix current is very low.

**Inside coachbuilding:**

Main rack with 2x 19" under table 14HE

2x 19" over table 9HE

2x 19" on table 2HE

Main rack integration to the vehicle housing

6x rack cover with light plastic cover in grey

Wooden floor under the main rack till the rear door

Operator desk slidable in wood

3x emergency fan outlet in the rear section from the main rack

Storage shelf in the rear section

1x fire extinguisher

**Mileage:**

This SNG has a high mileage, but was always well serviced, everything works perfectly.

**Condition of the vehicle:**

No rust visible

Last chassis maintenance of the car in 2024

Wheels on rear side were changed with brake drums and wheel bolts

## Technical specifications of the HD SNG:

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### Vehicle information:

Mercedes Sprinter 519 CDI

### First registration:

August 2007

### Mileage:

533.000 km

### TÜV/MOT valid until:

August 2025

### Measurements vehicle:

LxHxW: 7.5mtr x 3.2mtr. x 2.2mtr

### **Power System 32 Ampere CEE - according IEC 60364-7-717:**

32A CEE - IEC 60364-7-717 certified -according to the UEFA power rules

Valid IEC power certificate available

Agilent Power meter E4418B

### Maximum Weight of the vehicle:

5.300 kg

### Euro Emission Norm:

Euro Emission Norm 4

### **Jacks - stamps:**

Quicklift electrical control unit for the jacks -rear side

### Diesel stand heater:

Installed – takes the fuel from the engine of the vehicle

### Power generator:

Engine coupled

### UPS system:

2x Eaton 9PX 3000 IRT 2U UPS - approx. 5-6 minutes under full production mode

### **Satellite Equipment:**

#### Antenna:

ND Satcom Skymas 1900 – 1.5mtr. diagonal - 1.9mtr – across

#### Antenna controller:

1x ND Satcom ACU 4100A SNG

1x ND Satcom ACU E110B SNG controller

#### HPAs – ND Satcom:

2x 700W BUL 2713 – outdoor HPAs with integrated Blockupconverter

Frequencies: 13.75-14.5 GHz & 10 MHz Ref

#### HPA redundancy Controller:

ND Satcom RCU 5000

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**HPA 1:**

TX hours: 10.438h

Heater hours: 2.504h

Helix current: 1,0 mA

Output power at helix current measuring: 738W – see the ND Satcom measuring protocol from 2024 at the bottom

**HPA 2:**

TX hours: 10.378h

Heater hours: 2.495h

Helix current: 0,7 mA

Output power at helix current measuring: 720W

**Encoder - 1080i:**

3x Adtec EN91 1080i encoder

Formats: 1080i-50

MPEG 4:2:2, QPSK/8QPSK

Audio pairs: 8x2

**Decoder -4K+1080i:**

1xSencore MRD7000 (4x IRD license decoder) - 4K licensed

1xAdtec IRD60 -1080i

Formats: 1080i-50 -HEVC265-1080p-HDR-4K

MPEG 4:2:2

QPSK -8PSK-16PSK-32APSK-DVBS2X-B

Audio pairs: 10 audio pairs are possible

**BISS:**

Normal BISS code is possible

**Streaming Encoder:**

1x Ross Open Gear OGX Streaming Encoder - H264

With 2x T21 IP encoder cards

**L-Band Patch - Encoder output:**

Encoder output is in L-Band

2x Newtec NTC 2173 L-Band combiner

1x Sat-nms LRXD-28 L-Band splitter

Both Encoders can be on air at the same time

**Dish for return signal:**

1x Kathrein CAP 900 flat satellite antenna for roof mount

**Antenna controller:**

ND Satcom ACU 4100A antenna controller

ND Satcom ACU E110B remote control

**ND Satcom Receiving Matrix:**

Distribution and Receiving Matrix installed

RX and TX patch panels installed

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**Spectrum Analyzer:**

1x Rigol RSA3030-TG Spectrum Analyzer

**Measurement equipment:**

1x Leader LV5770 - 4K measurement

1x BFE Measurement Matrix - panel

**Video -System control:**

Spectra Audio/video configuration computer installed

**Video Matrix - HD1080i:**

1x Nevion VikinX-HD-64x64 -1080i

**Video distribution - Glue equipment:**

3x Lynx 5000 Series - HD1080i

Frame 1:

1x P VD 5660 Dual HD/SD frame synchronizer

1x C AD 5122 card

3x P VD 5610 HD/SD frame synchronizer

Frame 2:

2x C DX 5624 downconverter w/ SD analogue outputs cards

3x D VA 5120 analogue video distribution amplifier cards

1x D VD 5620 dual HD/SD digital video distribution amplifier cards

Frame 3:

3x 5320 CAD dual analogue audio to AES converter cards

1x 5220 CDA dual AES to analogue audio converter cards

2x 5220 D AD dual AES distribution amplifier cards

**Timecode generator:**

1x Alpermann & Velte clock

**Video/Audio configuration system:**

1x Spectra Video/audio configuration system

**Multiviewer:**

1x Zandar Predator HD16 – 1080i

1x Zandar Predator HD8 – 1080i

**Monitoring:**

2x Dell HP LP 2465 LCD -Multiview ready

1x JVC DT-V1710 CG

1x Adis T1202 digital monitoring unit

1x Beetronics 17HD7M LCD monitor

1x Sony 7" monitor

**Recording:**

1x Blackmagic Studio Pro 2xSSD Recorder -4K

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**Videomixer:**

Panasonic AV-HS400AE 1080i video mixer – 4 in 2 out

**Video Data Processor:**

1x Alpermann&Velte Video Data Processor Rubidium Series 1

**Master Reference Generator:**

DK technologies Vari Time Sync Generator PT 5300 for color bars in HD/SD + black burst

**Audio:**

**Audio mixer:**

Yamaha LS9

**Audio matrix:**

Network digital 64 x 64 AES audio matrix

**Intercom System:**

1x Riedel Artist 32x32 Mainframe

**Included cards:**

1x CPU128S-G2

1x VoIP 108G2

1x Coax 108G2

1x AIO 108G2

**Intercom panels:**

1x Riedel RSP 2318

1x Riedel RCP 1012E

**Audio monitoring:**

1x Wohler AMP2-16V -1080p -4K Pre-listen unit

**Soundboxes:**

2x Genelec sound boxes

**Dolby Decoder:**

1x TSL AMU2-8HD Dolby E audio monitoring

**GSM connections:**

1x BFE GSM Matrix

**Audiometer:**

1x RTW audiometer

**Video Patchbay (external & internal)**

Rear side patch field:

Audio and video patch field on the rear side of the SNG

Internal patch fields:

32x video patch field inside the SNG

48x audio patch field inside the SNG

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2x 19" on table 2HE  
Main rack integration to the vehicle housing with grey wood  
6x rack cover with light plastic cover in grey  
Wooden floor under the main rack till the rear door  
Operator desk slidable in wood  
Integration of 2 genelec audio monitors  
3x emergency fan outlet in the rear section from the main rack  
Storage shelf in the rear section  
1x fire extinguisher

**UPS system:**

2x Eaton 9PX 3000 UPS systems

**Power cable:**

45mtrs.

**Video/Audio/Multicore cables included:**

Schill drum CAT-7 network drum – 75m -  
Schill drum UHD video – 45m  
Schill drum HD video – 50m -ok  
2x Lemo SMPTE 180m fiber cable  
1x Schill Belt tension drum video cable 60m HD  
Diverse patch cables

**Air condition:**

2x Dometic  
1x Truma  
3 circle air condition



Photos of the HD SNG:



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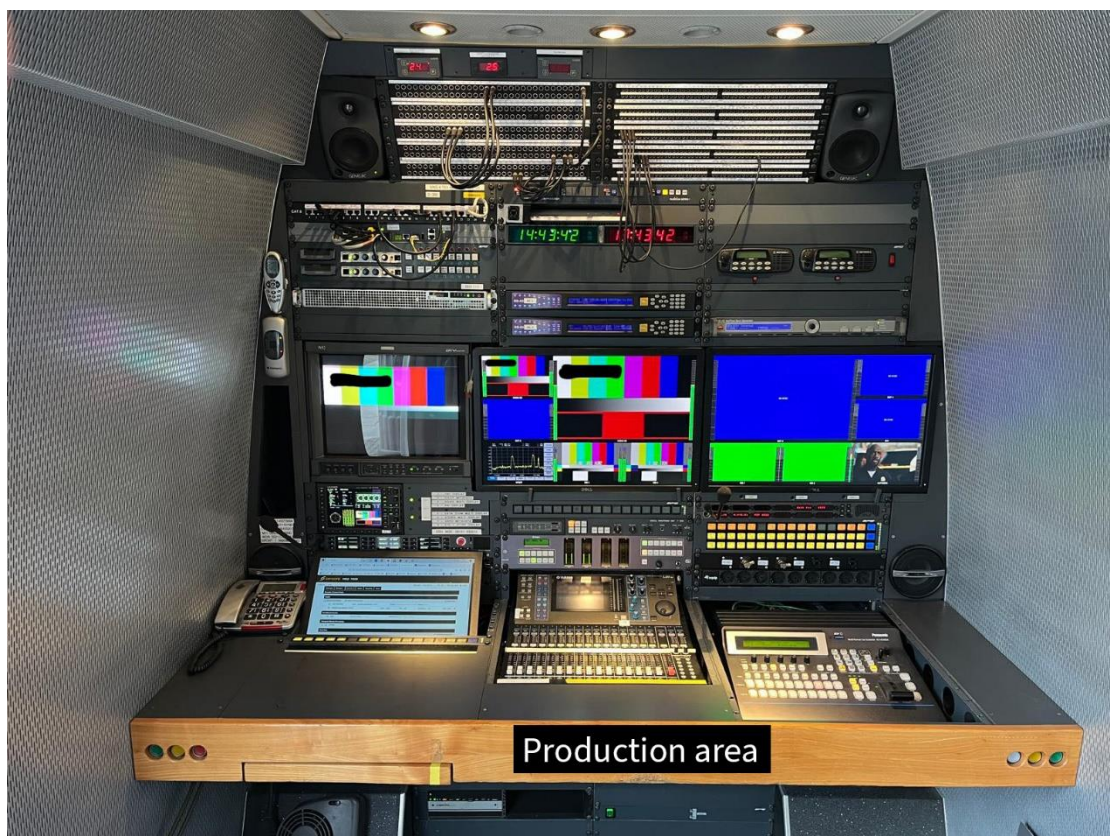
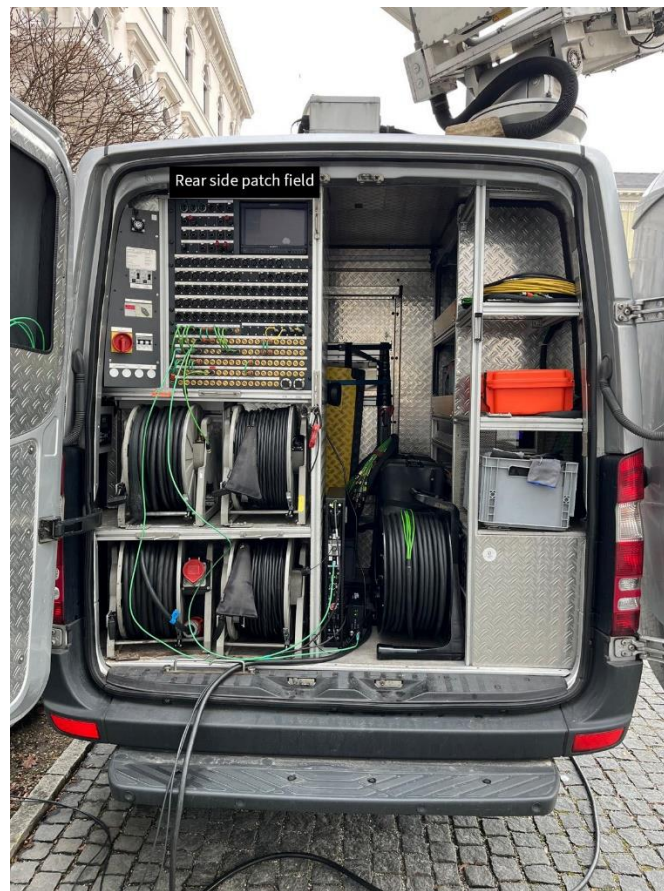


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# sports tv media distribution

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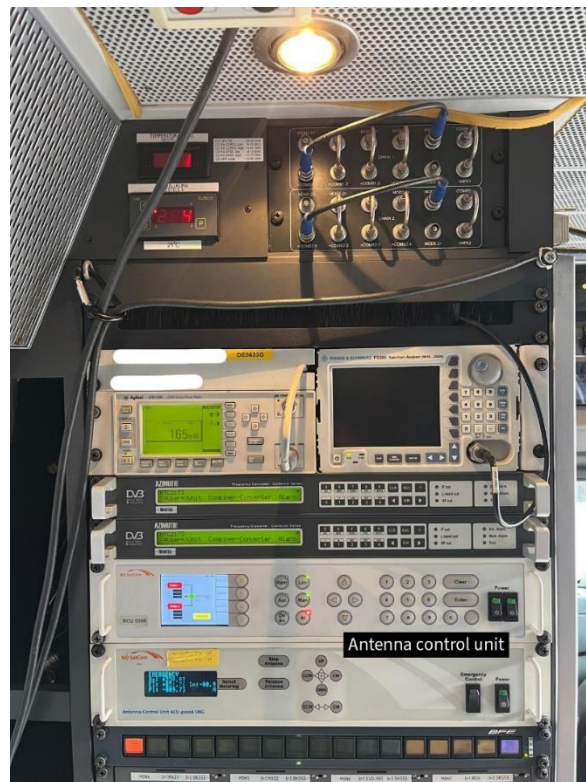
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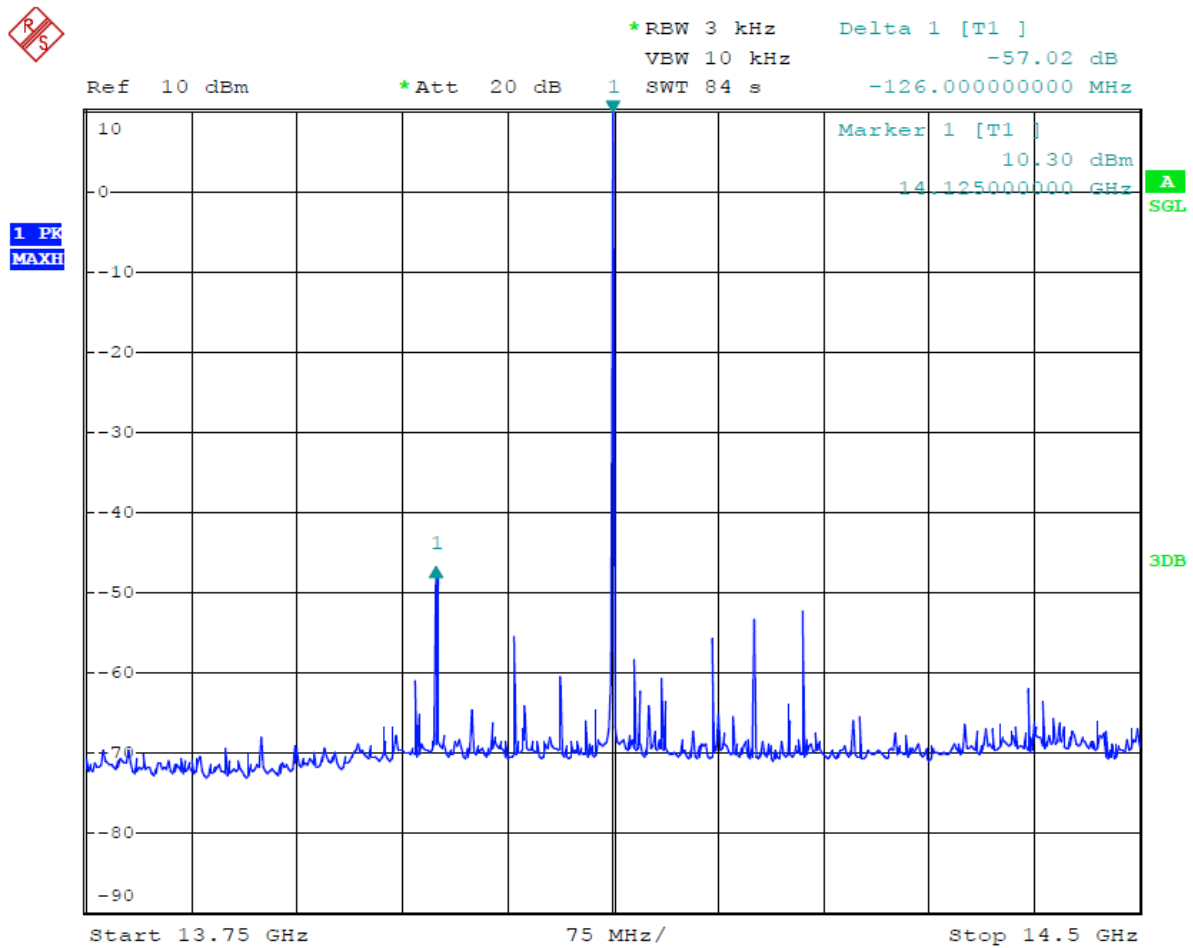
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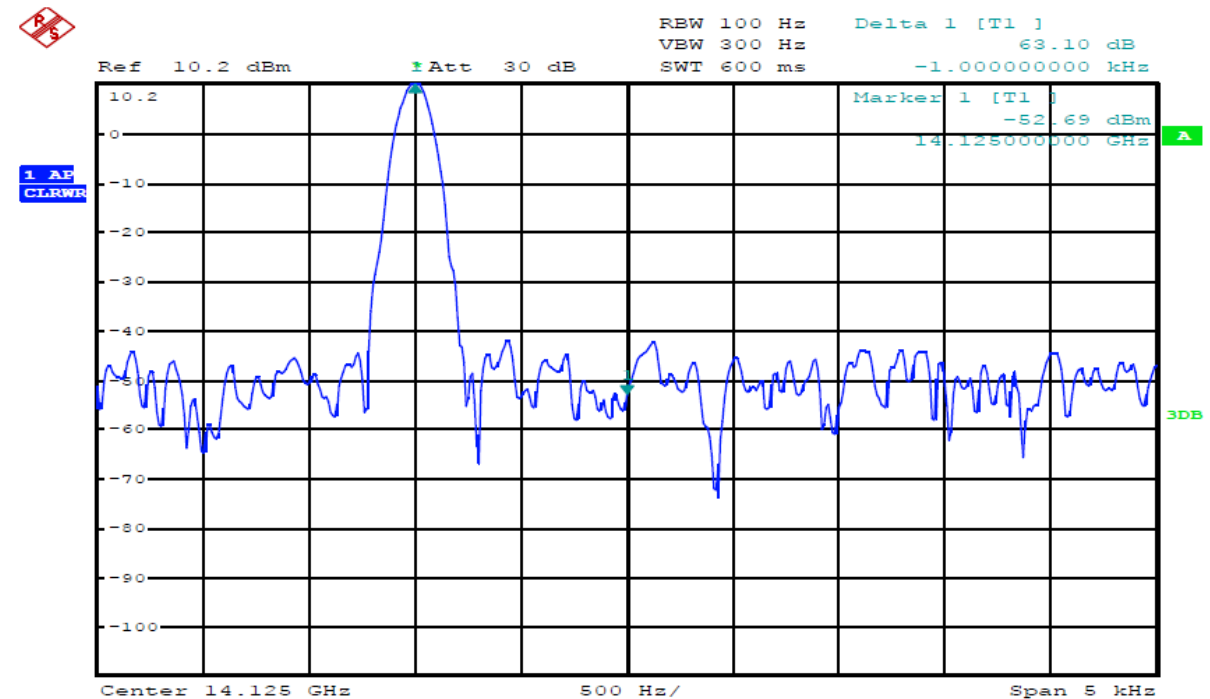
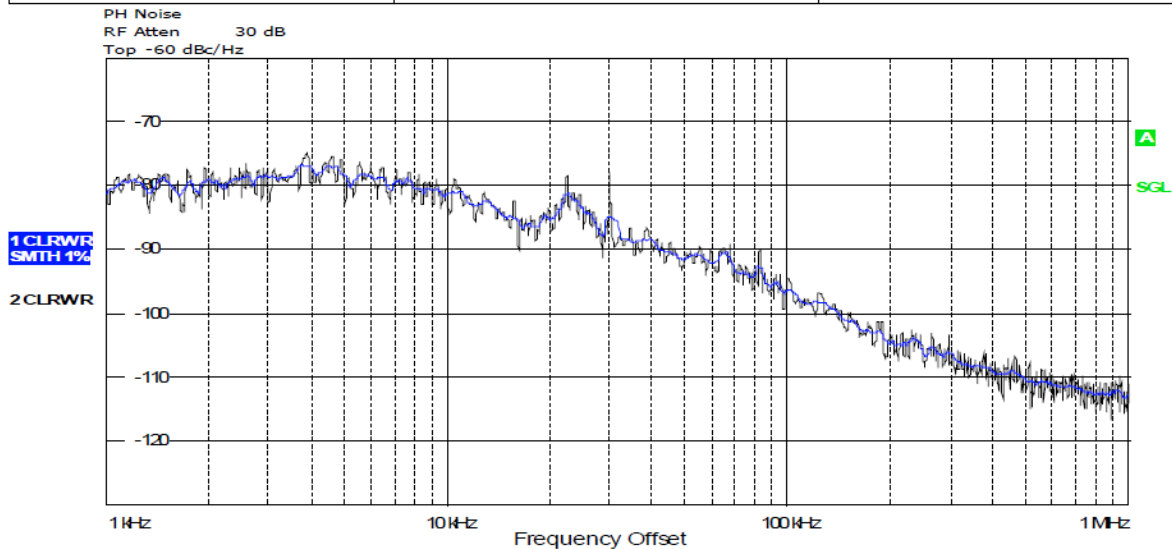


Transmission chain 1:

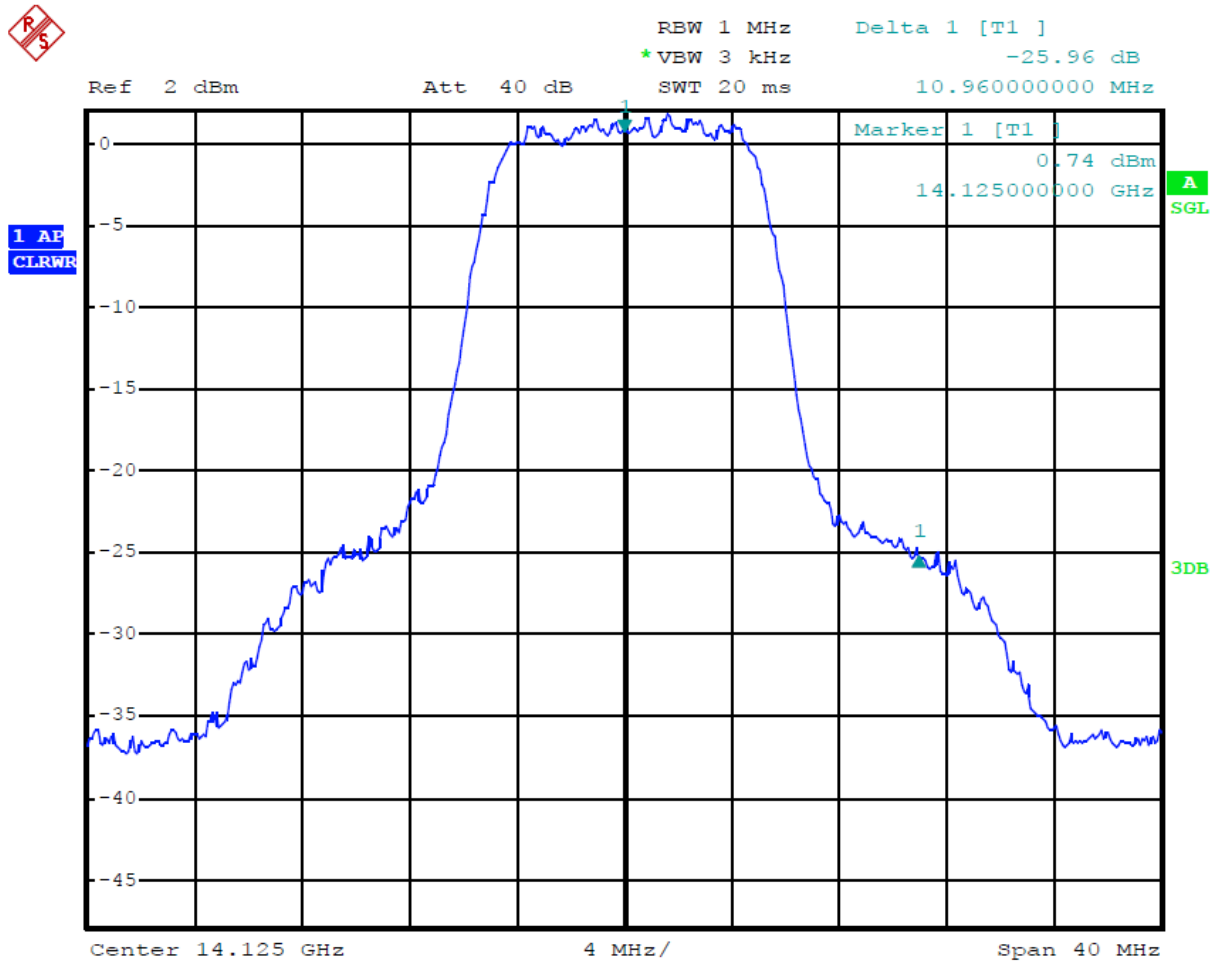


Date: 2.APR.2024 16:25:10

PS	PHASE NOISE			
	Settings	Residual Noise	Spot Noise [T1]	
Signal Freq:	14.124999 GHz	Evaluation from 1 kHz to 1 MHz	1 kHz	-81.21 dBc/Hz
Signal Level:	10.22 dBm	Residual PM	10 kHz	-81.35 dBc/Hz
Signal Freq Δ:	6.14 Hz	Residual FM	100 kHz	-96.34 dBc/Hz
Signal Level Δ:	-0.09 dBm	RMS Jitter	1 MHz	-112.75 dBc/Hz

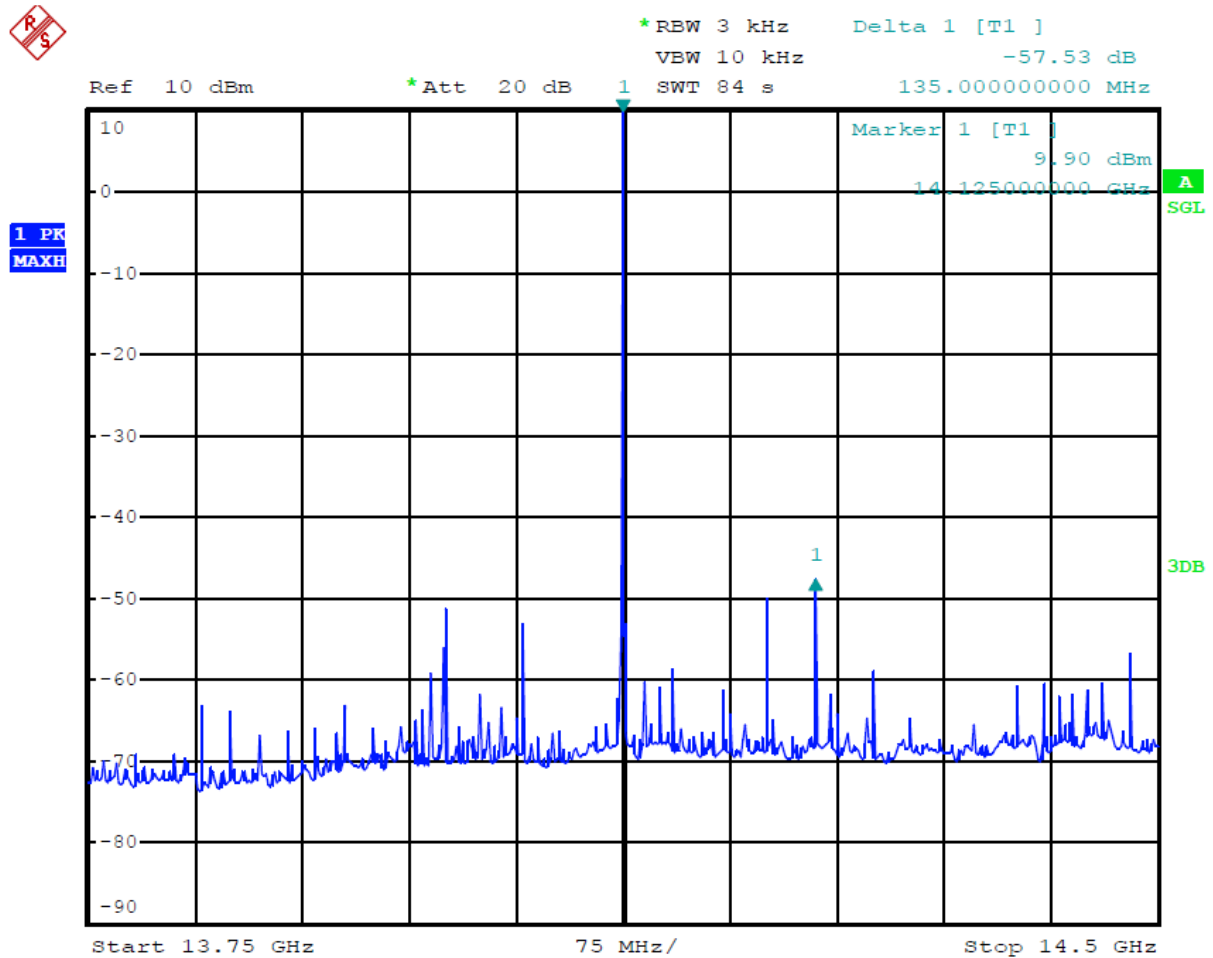


## Sendezug 1 Intermodulation





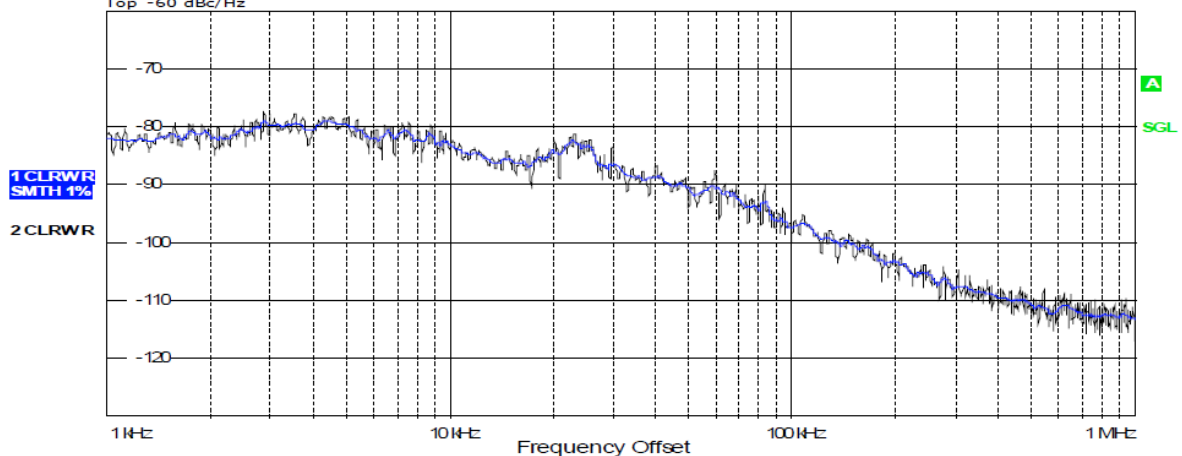
## Transmission chain 2:



## Sendezug 2 Phase Noise

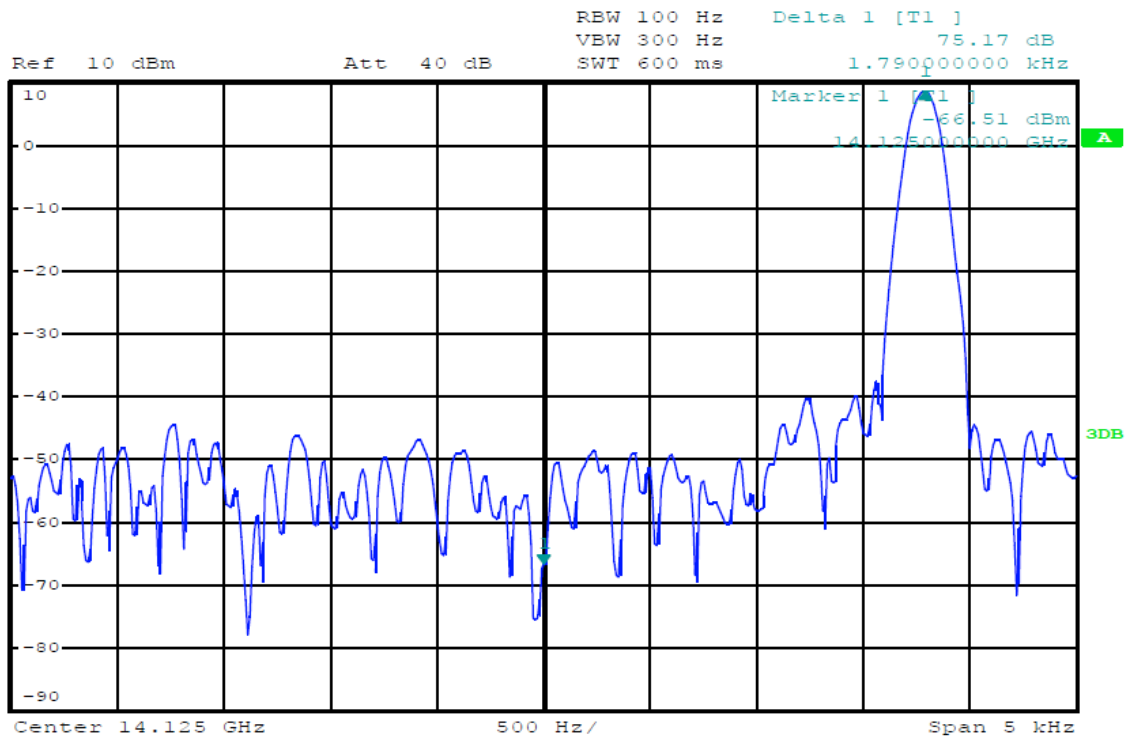
Settings	PHASE NOISE	
	Residual Noise	Spot Noise [T1]
Signal Freq: 14.125002 GHz	Evaluation from 1 kHz to 1 MHz	1 kHz -81.92 dBc/Hz
Signal Level: 10.14 dBm	Residual PM 1.175 °	10 kHz -83.07 dBc/Hz
Signal Freq Δ: Δ -1.62 Hz	Residual FM 2.306 kHz	100 kHz -97.42 dBc/Hz
Signal Level Δ: Δ -0.16 dBm	RMS Jitter 0.2310 ps	1 MHz -113.25 dBc/Hz

PH Noise  
RF Atten 30 dB  
Top -60 dBc/Hz

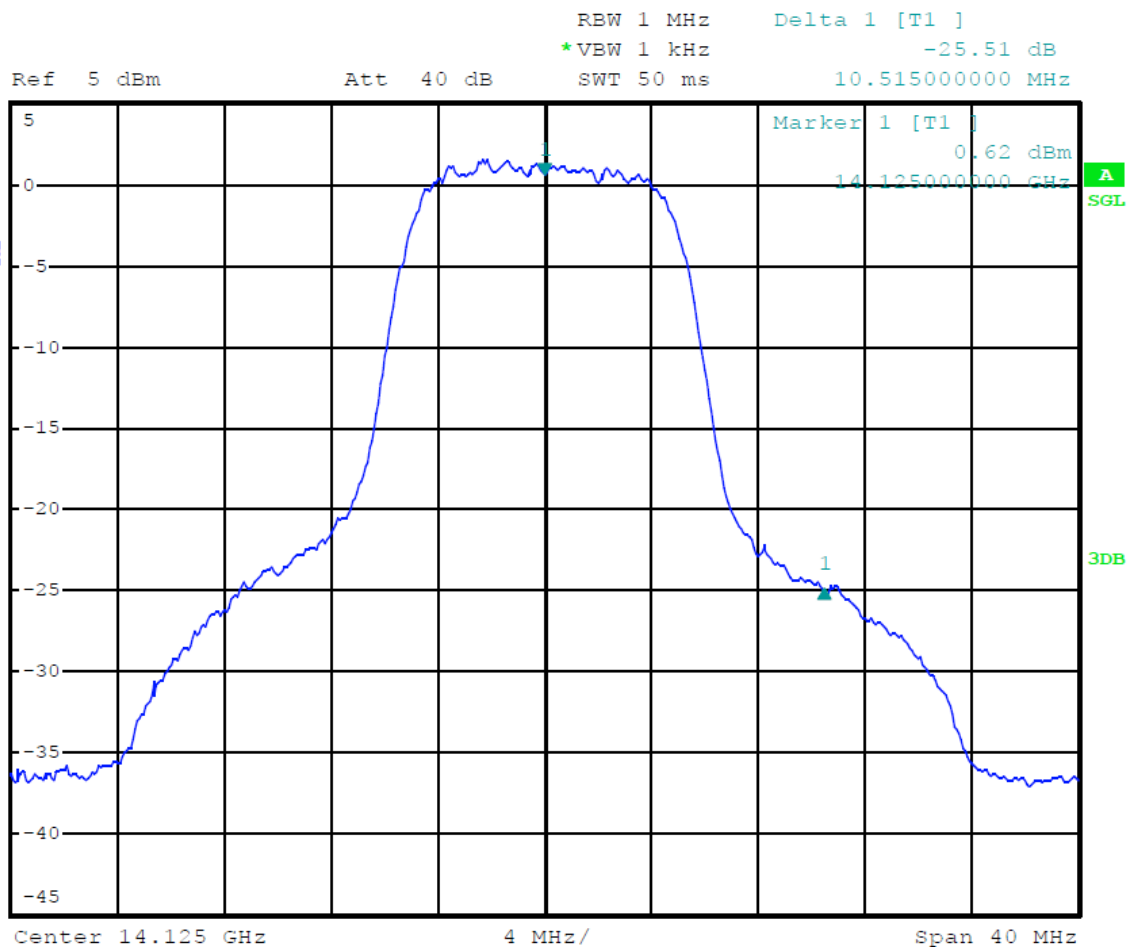




1 AE  
CLRWR



1 AE  
CLRWR



HF Dichtigkeit					
mW/cm2	Ref	0,01			
HPA1	HPA2	Flex HPA1	HLS	Filter	Load
0,0001	0,0001	0,2	0,0001	0,0005	0,0008

**For further information please contact:**

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