

FOR SALE

SNG 9

Used 4K SNG Mercedes Sprinter 519 CDI

2+1 in 4K

SNG is fully redundant in 4K including redundancy switch

The SNG was built in 2012 by ND Satcom -Germany

First registration in December 2012

Registered as "special vehicle"

Mileage 270.700km

Euro Emission Norm: Euro 5

TÜV/MOT valid until January 2026

UPS - Eaton 9PX 3000

Diesel - Stand Heater system

32 Ampere CEE power system

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

HWH Hydraulic system - to control the jacks

Fisher Panda power generator 10000E -7.8KVA

Including:

2x Xicom 400 Watt indoor HPAs

1x NTT H32000 Encoder - 4K

2x NTT HC 11000 Decoder - 4K

1x Sencore MRD7000 Decoder -4x IRD licenses

1x Novelsat NS 3000 professional high data rate satellite modem

1xNovelsat NS1000 Satellite Modulator

1xSencore SMD989 Modulator

ND Satcom ACU 4100 satellite antenna

Kathrein CAP 900 receiving antenna

Fischer Panda power generator 7,8 kVA

2x Eaton 3000 9PX UPS

1x 45mtrs. power cable

Nevion SL 3G HD + AJA - 32x32 CP - HDR-4K ready

1x Rohde&Schwartz FS300 Spectrum Analyzer

Phabrix QX measuring system

SNG is in good condition and very well serviced and maintained



SNG facts:

Professional uplink and broadcast technology with corresponding redundancies - also in UHD

» 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 equipment:

Videomatrix:

AJA 32 x32 1080P 4K-4K Video matrix installed - to distribute all incoming foreign 4K signals to the 4K Encoders.

The cabling for the 3G matrix - Nevion 32x32 1080I-3G is connected from the rear side to matrix to the Encoders/Decoders

Cabling is prepared for a video mixer – video mixer not included

Audio:

Prepared for an audio mixer like Yamaha LS9 or similar

Satellite equipment:

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

All waveguides and tubes are in excellent condition

Helix current is very low.

Mileage:

This SNG has a mileage of 270.000km - always well serviced, everything works perfectly.

Condition of vehicle:

Almost no rust visible – vehicle in very good condition

Technical specifications of the 4K SNG:

Vehicle information:

Mercedes Sprinter 519 CDI

First registration:

December 2012

Mileage:

270.700km

TÜV/MOT valid until:

January 2026

Measurements vehicle:

Length: 6,80m

Width: 2,2m

Height: 3,2m

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

Maximum Weight of the vehicle:

5,3 tons

Euro Emission Norm:

Euro Emission Norm 5

Air condition - Dometic:

1 circle air condition system

Jacks - stamps:

HWH Hydraulic system electrical control unit for the jacks on the rear side

Diesel stand heater:

Installed – takes the fuel from the engine of the vehicle

Outside awning:

Awning on right side – manual

Power generator:

Fischer Panda power generator 7,8 kVA

UPS system:

2x Eaton 3000 UPS system from 2022

Working 7 minutes in full production mode

Satellite Equipment:

Antenna:

Skymas 1900 antenna – 1,5m diagonal – 1,9m across

Dish for return signal and Receiver:

Kathrein CAP 900 dish

1x Kathrein UFS Satellite Receiver with remote control

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HPAs –Xicom:

2x 400W Xicom indoor HPAs

HPA redundancy Controller:

Xicom XTC-114D digital controller

HPA 1:

HPA hours: 8.585h

Heater Hours: 9.730h

Helix current: 1,6mA

Output power: 257W

HPA 2:

HPA hours: 8.393h

Heater Hours: 9.265h

Helix current: 2,3mA

Output power: 302W

Encoder - 4K:

1xNTT H32000 Encoder -4K

2x NTT HC11000 4K Encoder

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

MPEG 4:2:2

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

Encoders can be on air at the same time

Audio pairs: 10 audio pairs are possible

Decoder - 4K:

1x Sencore MRD 7000 4K decoder with 4 IRD licenses

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

MPEG 4:2:2

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

Audio pairs: 10 audio pairs are possible

Modulators:

1x Sencore SMD 989 modulator

1x Novelsat NS1000 Modulator

1x Novelsat NS 3000 professional high data rate satellite modem

BISS:

BISS CA

L-Band Patch - Encoder output:

2x NewTec L-Band combiner Azimuth AZ750

Sat service LRXD-28 L-band distributor

ND Satcom Receiving Matrix:

ND Satcom distribution and receiving matrix installed

Spectrum Analyzer:

1x Rohde&Schwartz FS300 Spectrum Analyzer -9Khz-3Ghz

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Streaming Encoder:

Open Gear Streaming Encoder

Satellite Modem:

2x Novelsat NS 3000 high data rate satellite modem

Dish for return signal:

Kathrein antenna for return signal

Antenna controller:

ND Satcom ACU 4100A antenna control unit

ND Satcom ACU E110B remote control

ND Satcom Receiving Matrix:

ND Satcom RX patch and TX patch panel

Spectrum Analyzer:

R&S FSH8 spectrum analyzer

Phabrix QX measuring system

Video - System control:

Spectra Video/audio configuration computer:

Grass Valley Deniste³ mini – 3G SDI

Video Equipment:

Data Computer System:

Spectra Audio/video configuration system installed

Video Matrix - HD1080i+1080p:

1x Nevion SL 3G HD 32 x 32 CP video matrix

Aja Kumo CP2 control panel

Video distribution - Glue equipment:

1x Lynx 5000 series

Lynx Frame1 -cards:

2x RCT 5022 Rack CTR

1x C AD 5320 Dual analogue Audio to AES converter card

1x C DA 5220 Dual AES to Analog Audio Conv.

1x P VD 5660 Dual HD/SD Frame Synchronizer

1x D VA 5710 Analog Video Dist Amp

1x P TG 5610 HD/SD SDI & AES TEST Gen

1x C DX 5624 Downconv 2/ SD analog outputs

Multiviewer:

No multiviewer installed.

Monitoring:

2x Ikegami control monitor

1x Panasonic quadsplit monitor

1x Bon FM-051SCH rear side multiforma monitor

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Recording:

Black Magic SSD Hyperdeck Studio Pro

Videomixer:

No video mixer installed – not prepared for an Video mixer

Audio Equipment:

Audio mixer:

No audio mixer installed.

Audio matrix:

Not installed.

Intercom System:

1x Riedel Performer 32x16 Mainframe

Included cards:

1x CPU128S-G2

1x VoIP 108G2

1x Coax 108G2

1x AIO 108G2

Intercom panels:

1x RSP 2318

1x RCP 2016E

Audio monitoring:

Wohler AMP1-16-3G audio monitoring

Soundboxes:

1x JBL sound box

Telephone hybrid:

AVT magic TH2

Video Patchbay (external & internal)

Patch field inside the SNG in the production gallery

Barnfind CWDM fiber Stagebox:

1x Barnfind CWDM Fiber Stagebox – to distribute the signals between the OB + SNG + fiber connection

UPS system:

2x Eaton 9PX3000 UPS system

Power cable:

1x 45 meter power cable

Video/Audio/Multicore cables included:

Schill drum CAT-7 network drum – 75m -

Schill drum UHD video – 45m

Schill drum HD video – 50m -ok

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2x Lemo SMPTE 180m fiber camera cable
1x Schill Belt tension drum video cable 60m HD
Diverse patch cables

Photos of the HD SNG:



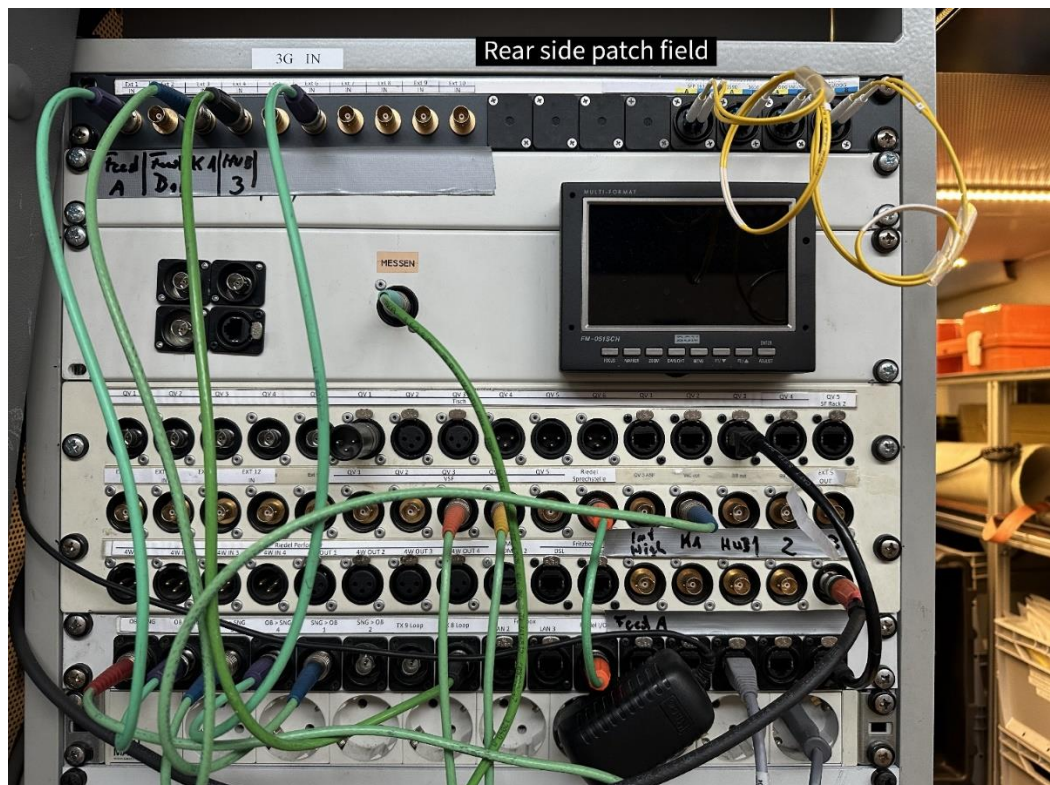
Used HD SNG -4K Mercedes Sprinter 519CDI in good condition – SNG 9

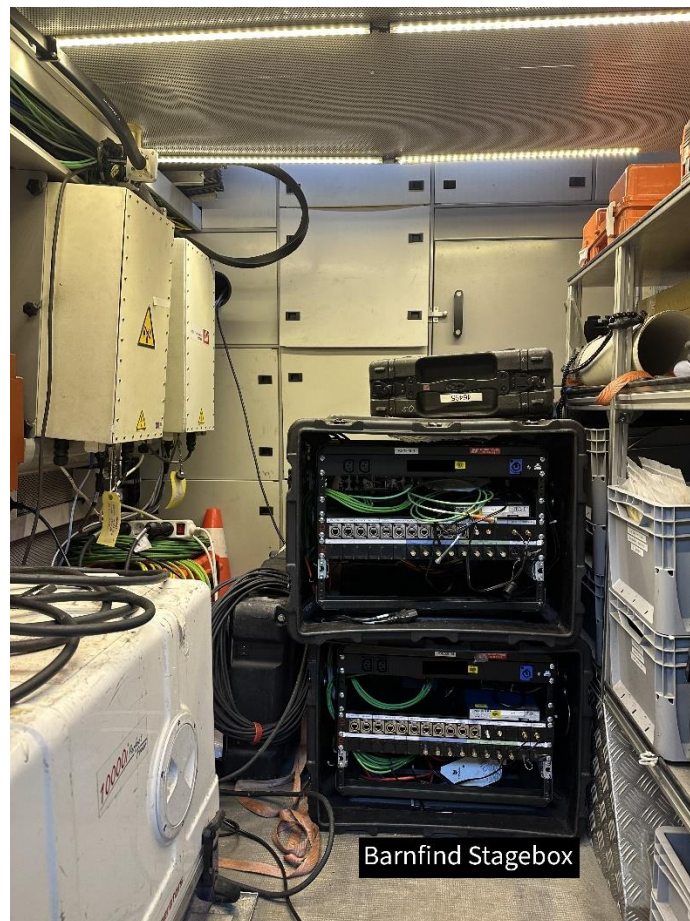
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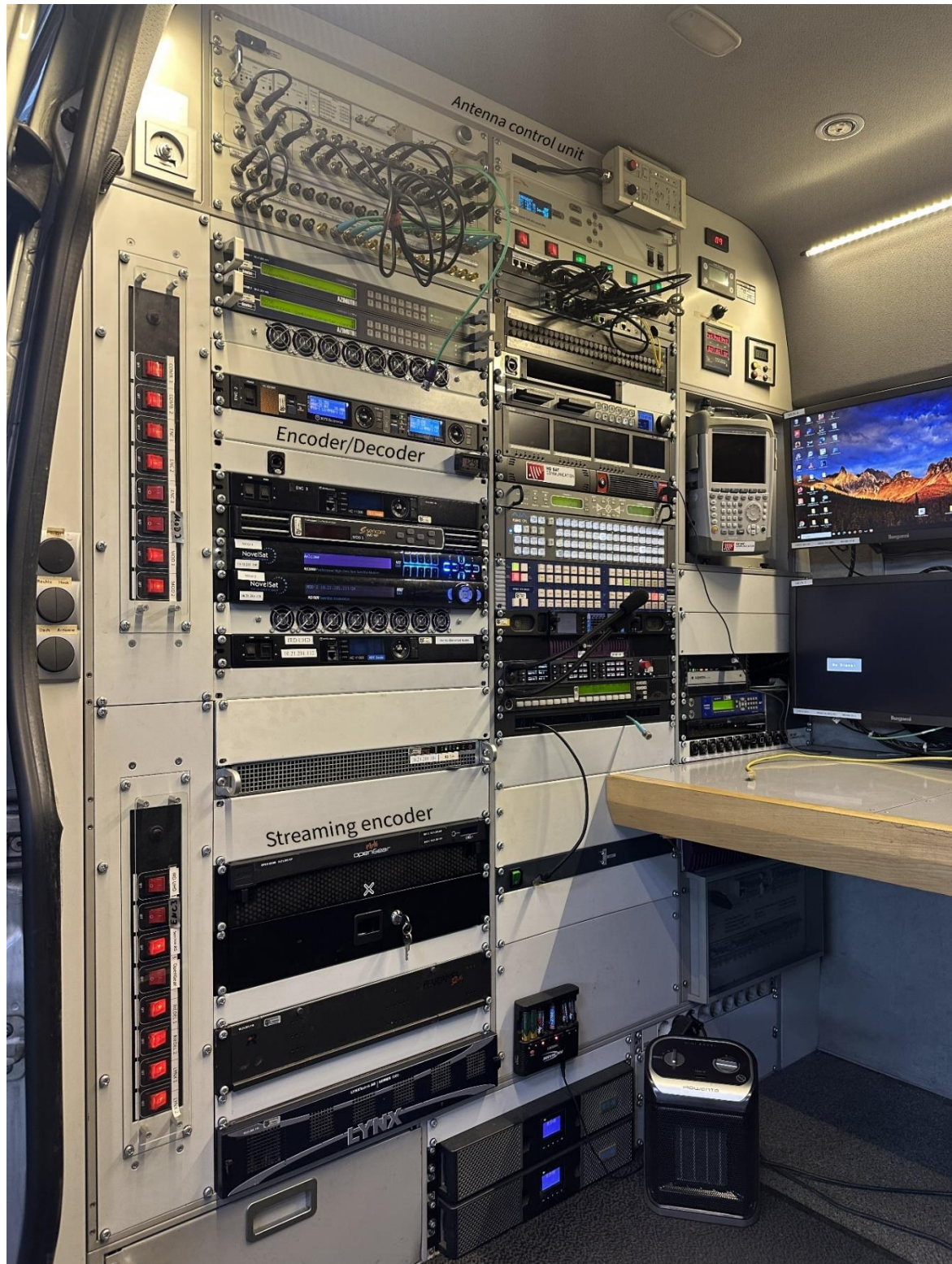




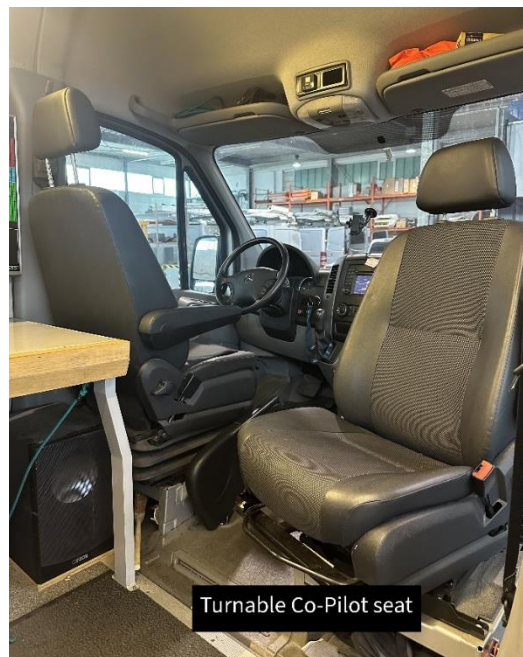


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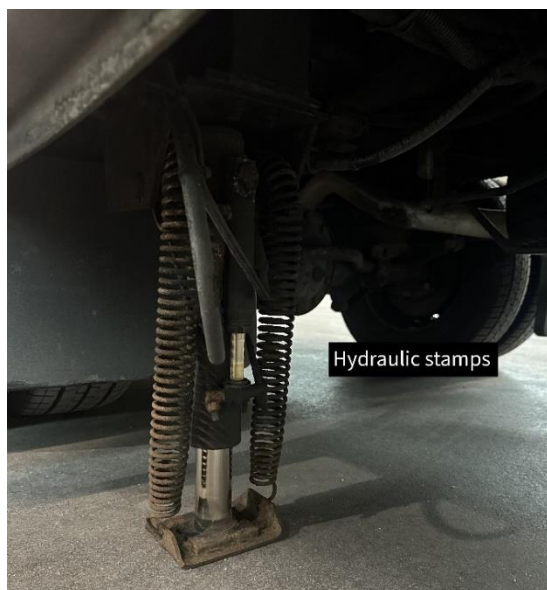






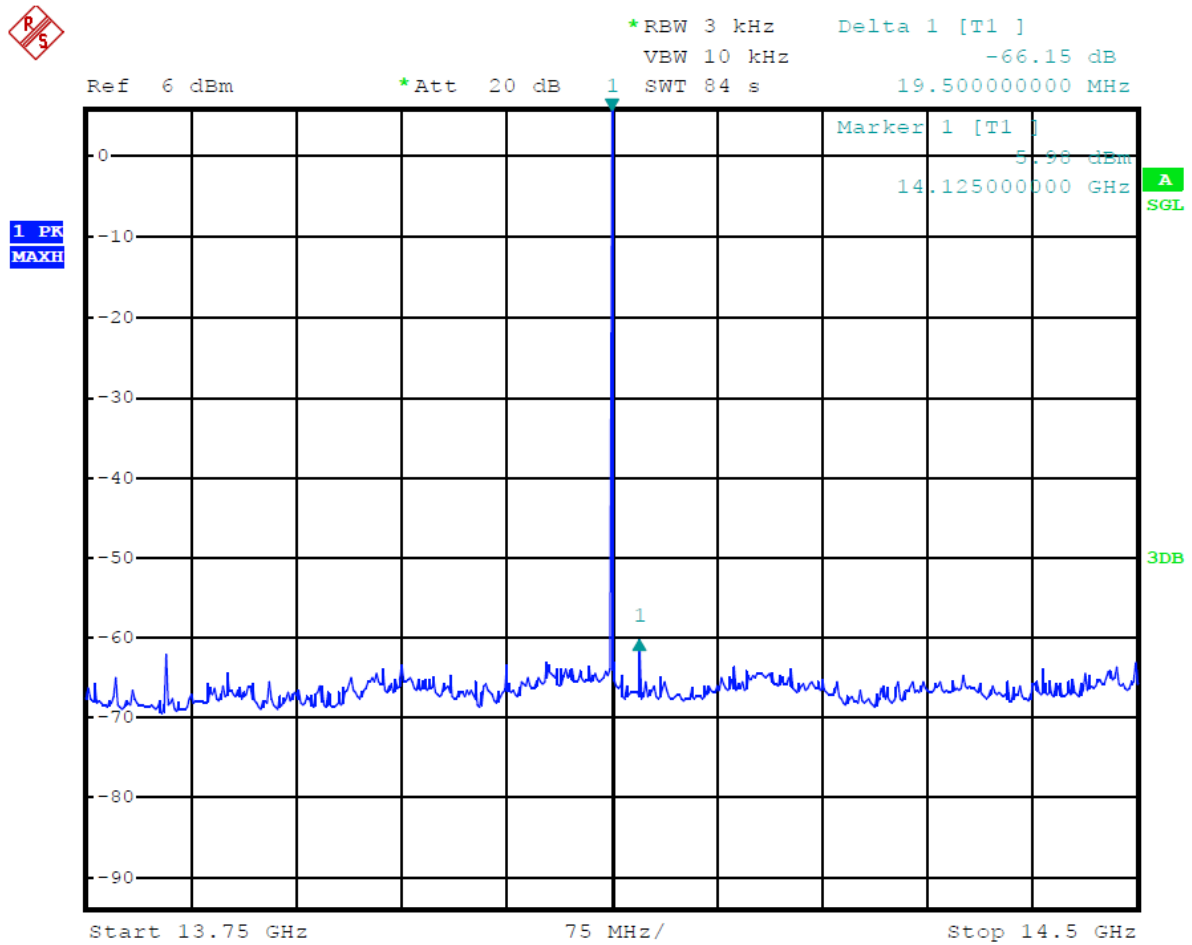






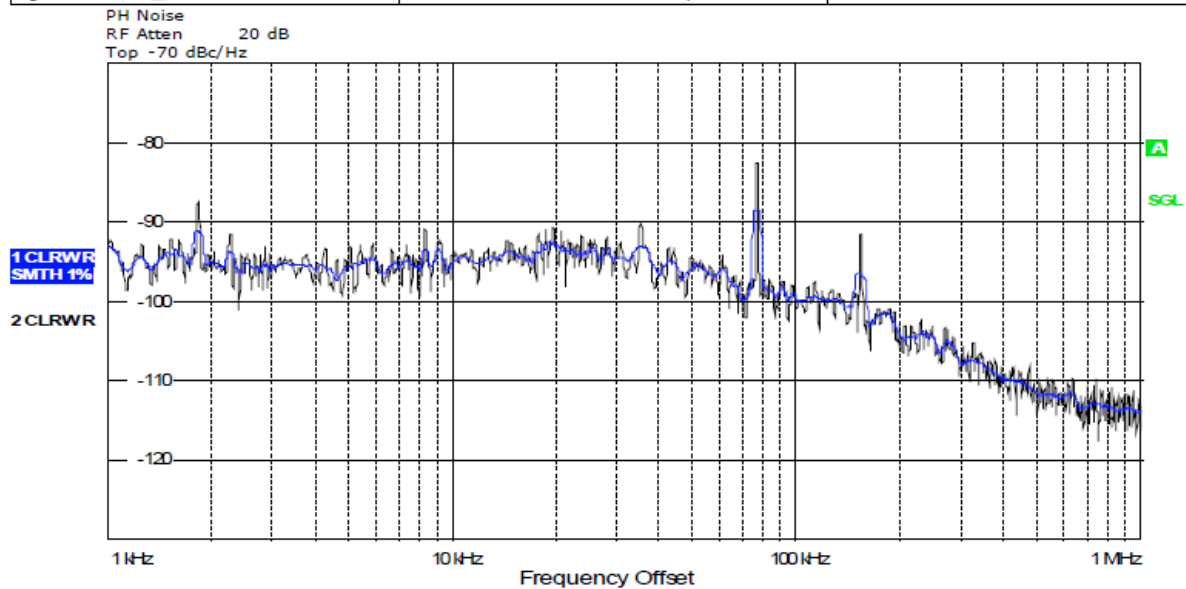
Transmission chain 1:

Sendezug A Spurious



Sendezug A Phase Noise

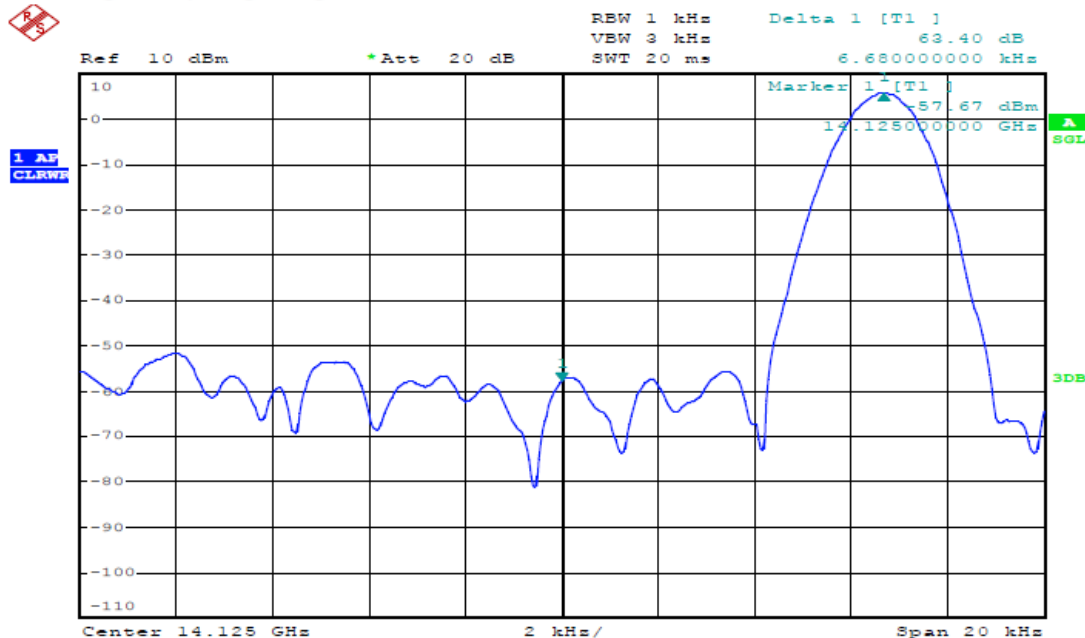
BS	PHASE NOISE			
	Settings	Residual Noise		Spot Noise [T1]
Signal Freq:	14.125007 GHz	Evaluation from 1 kHz to 1 MHz		1 kHz -93.11 dBc/Hz
Signal Level:	6.16 dBm	Residual PM	0.566 °	10 kHz -95.16 dBc/Hz
Signal Freq Δ:Δ	-0.34 Hz	Residual FM	2.136 kHz	100 kHz -99.72 dBc/Hz
Signal Level Δ:Δ	-0.3 dBm	RMS Jitter	0.1113 ps	1 MHz -113.68 dBc/Hz



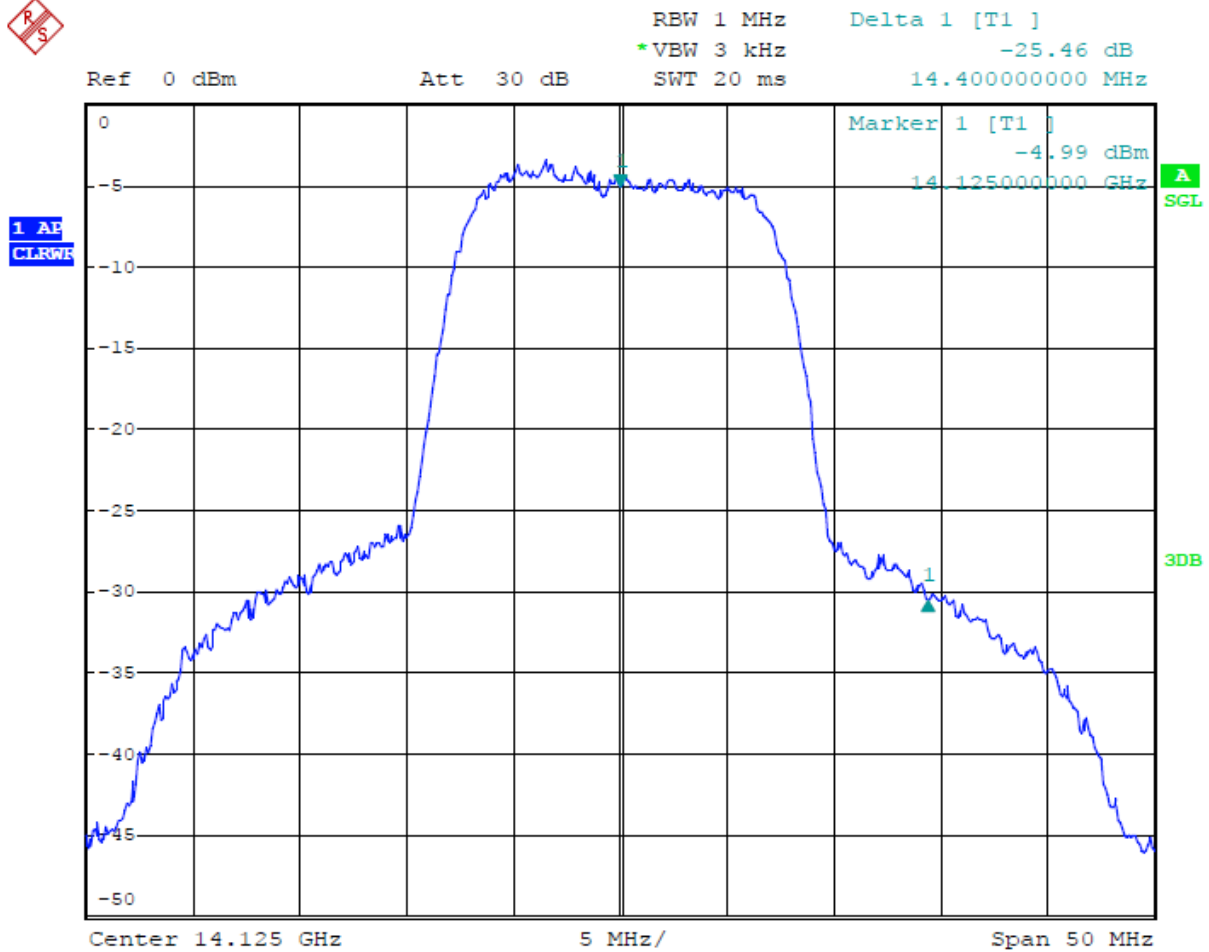
Measurement Complete

Date: 15.MAY.2024 10:37:33

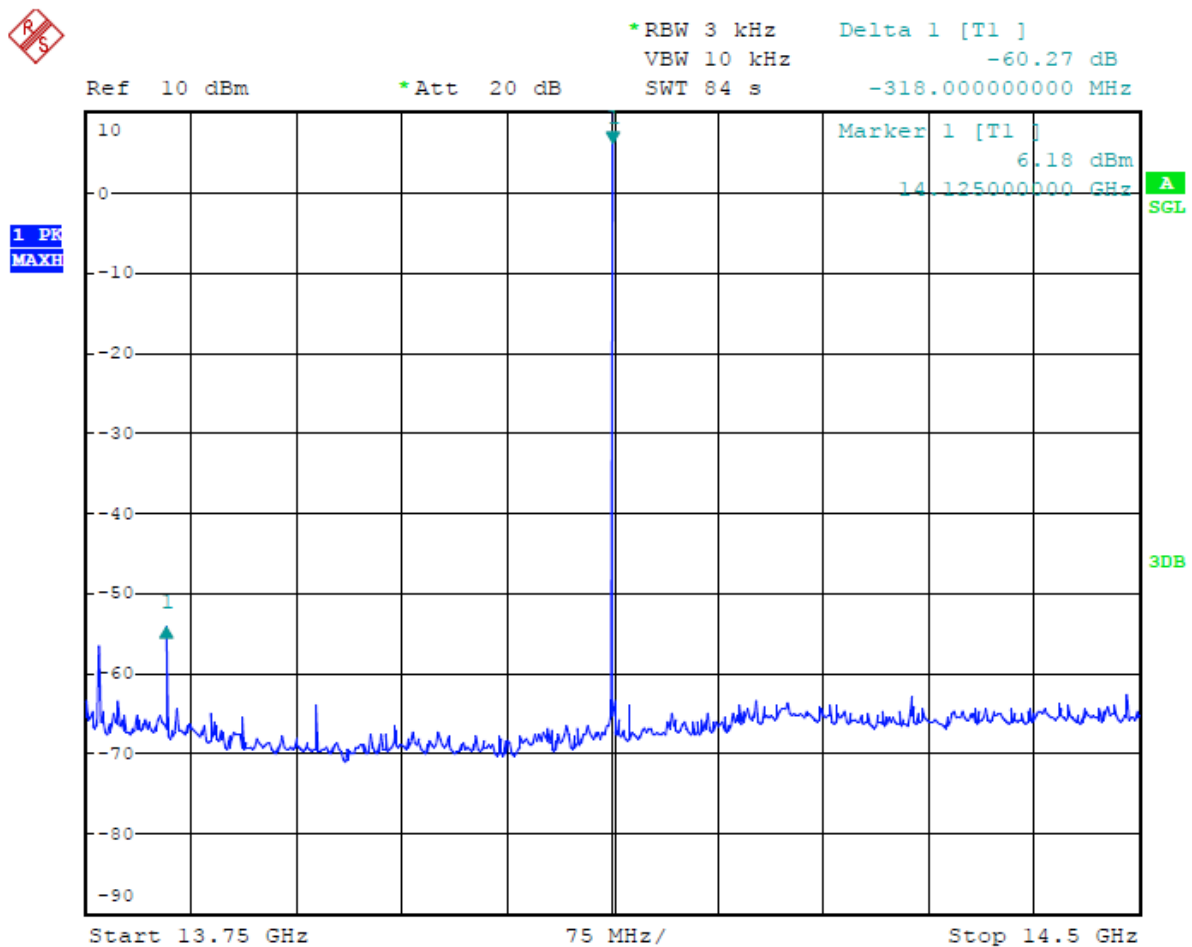
Sendezug A Frequenzgenauigkeit



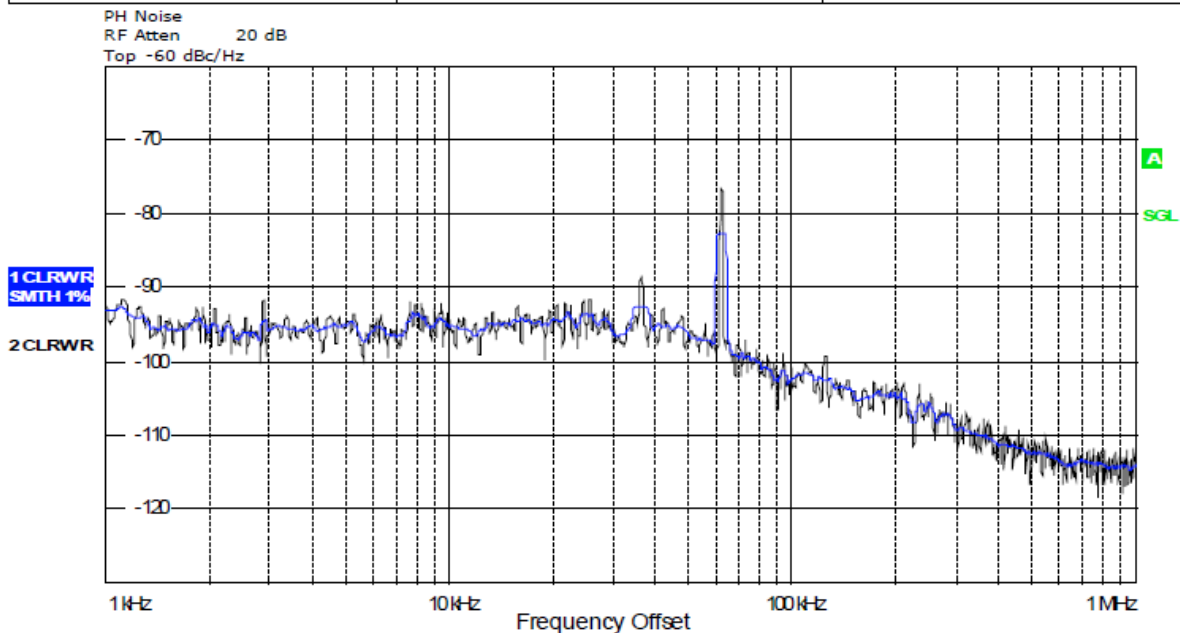
Sendezug A Intermodulation



Transmission chain 2:



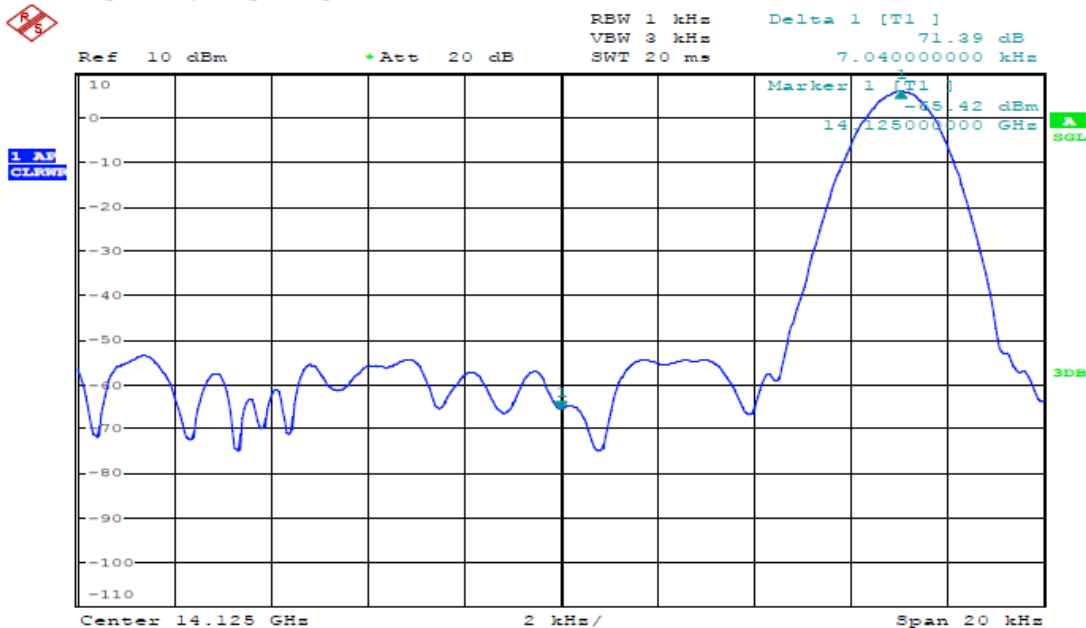
BS	PHASE NOISE			
	Settings	Residual Noise		Spot Noise [T1]
	Signal Freq: 14.125007 GHz	Evaluation from 1 kHz to 1 MHz		1 kHz -93.10 dBc/Hz
	Signal Level: 6.37 dBm	Residual PM	0.602 °	10 kHz -95.28 dBc/Hz
	Signal Freq Δ: Δ 3.07 Hz	Residual FM	1.88 kHz	100 kHz -102.45 dBc/Hz
	Signal Level Δ: Δ -0.2 dBm	RMS Jitter	0.1184 ps	1 MHz -114.06 dBc/Hz



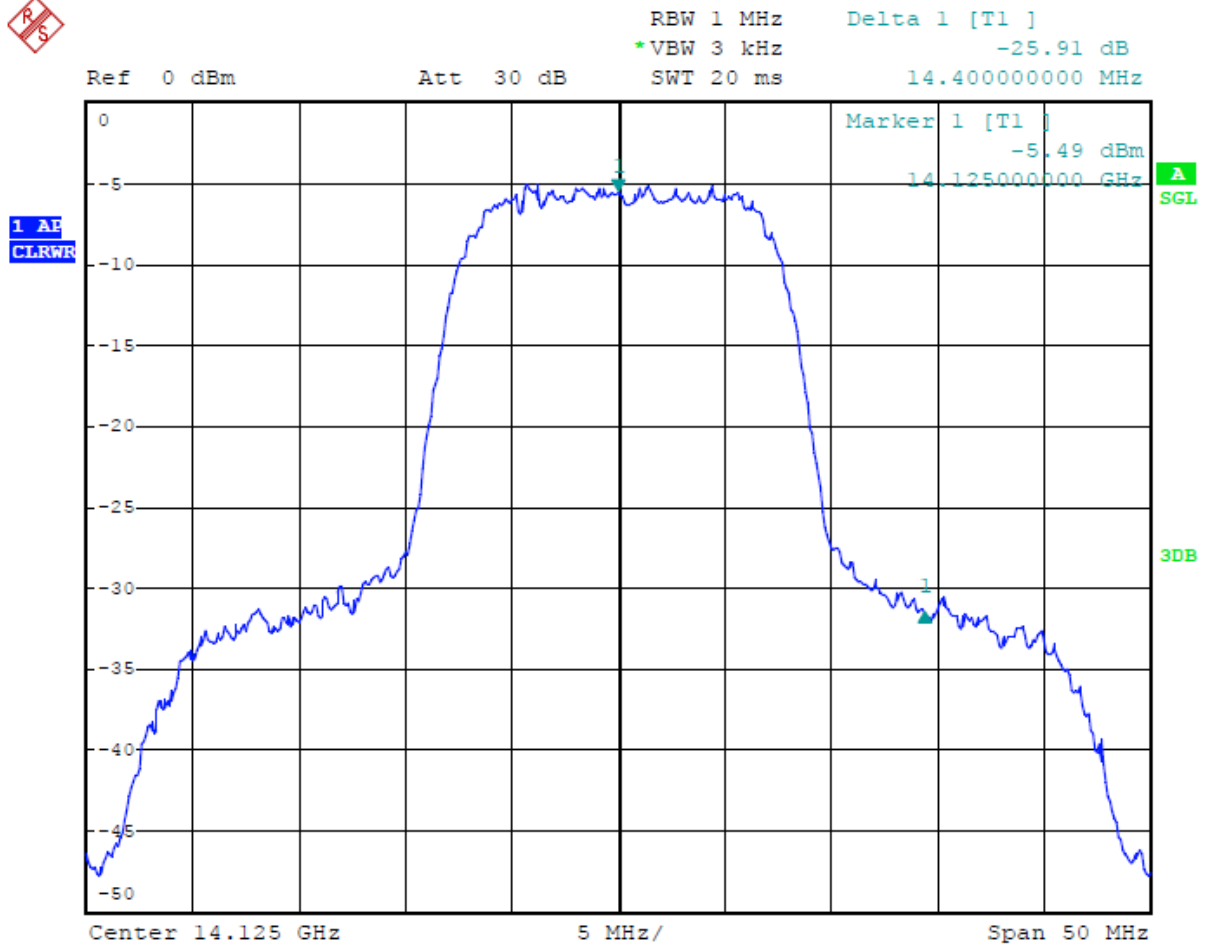
Measurement Complete

Date: 15.MAY.2024 11:37:40

Sendezug B Frequenzgenauigkeit



Used HD SNG -4K Mercedes Sprinter 519CDI in good condition – SNG 9



HF Dichtigkeit					
mW/cm2	Ref	0,01			
HPA1	HPA2 Flex 300mm	HLS	Flex nach HLS 300mm	Flex 500mm	Load Flex 1000mm
0,0242	0,0316	0,0316	0,02	0,0008	0,0092

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