

FOR SALE

SNG1

Used HD - 4K SNG Mercedes Sprinter 518D

2+1 in full 4K quality

SNG is fully redundant including redundancy 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 "special vehicle"

Mileage 533.000km

Euro Emission Norm: Euro 4

TÜV/MOT valid until August 2025

UPS -Eaton 9PX 3000

Diesel - Stand Heater system

32 Ampere CEE power system

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

HPC Hydraulic system for stampsIncluding:

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 NTT H32000 4K double encoder

1x NTT HC 11000 Encoder- 4K

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

1x Adtec IRD60 Decoder -1080i

3xSencore SMD 989 Modulators

2x Newtec NTC2173 L-Band combiner

1x L-Band Splitter – LRXD-28

SkyMas 1900 Antenna

1x Kathrein Mobisat 2Transmare Antenna

Multiplexing possible

Built in generator system - engine coupled

2x Eaton 9PX - 3000 UPS systems

VikinxX Nevion 64x64 -1080i

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

Leader LV5770 - 4K measurement unit

SNG is repared for 2x CCU camera chains

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

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1x Barnfind Fiber stagebox

1x Barnfind basic chassis

1x 45mtrs. power cable

Rear side all lined with stainless steel sheet

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/Camera equipment:

Camera chains:

This SNG is prepared for up to 2xCCU 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.

Videomatrix:

There is a 64x64 VikinX Videomatrix in 1080i installed

There is also a Nevion 32x32 1080p-3G-4K Video matrix installed - to distribute all incoming foreign 4K signals to the 4K Encoders.

The cabling for the 3G matrix is connected from the rear side matrix to the Encoders/Decoders

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

Audio:

Prepared for an audio mixer like Yamaha SL9 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.

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 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

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.

Rust/damages on the Chassis:

This SNG has a damage on the right backdoor and on the right rear side.

This damage has no influence on the workflow.

Rust visible on a few points, nothing dramatically, easy to repair

Technical specifications of the redundant 4K SNG:

Vehicle information:

Mercedes Sprinter 518 CDI

First registration:

August 2007

Mileage – at the moment:

533.000 km

TÜV/MOT valid until:

August 2025

Measurements vehicle:

LxHxW: 7.5mtr.x3.2mtr.x2.2mtr

Maximum Weight of the vehicle:

5.300 kg

Euro Emission Norm:

Euro Emission Norm 4

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

Power generator:

Engine coupled

UPS system:

2x Eaton 9PX 3000 IRT 2U UPS - approx. 7' under full production mode

1x Eaton 9PX 3000 UPS was renewed in 2024

Air condition – Dometic + Truma:

1x Dometic 3000 air condition unit for the racks, 1x Dometic 3000 air condition unit for the production room

1x Truma Saphir aircondition - HB 2500 compact for the rack 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

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

Dish for return signal and Receiver:

1x Kathrein Mobisat 2 “Transmare” flat satellite antenna for roof mount

1x Satellite Receiver - Kathrein UFS 740sw

1x Satellite Receiver - Humax PR-HD1000

HPAs – ND Satcom:

2x 700W BUL 2713 – outdoor HPAs with integrated Block upconverter

Frequencies: 13.75-14.5 GHz & 10 MHz Ref

HPA redundancy Controller:

ND Satcom RCU 5000

HPA 1:

10.715 TX hours

3.403 heater hours

Heater current 1.153mA

Helix current: 1,0mA

HPA 2:

10.504 TX hours

2.629 heater hours

Heater current 1.153mA

Helix current: 0,8mA

Encoder – HDR - 4K:

1x NTT H32000 Encoder - 2x integrated splitted Encoder - 4K licensed

1x NTT HC11000 Encoder - 4K licensed

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+1080i:

1x Sencore MRD7000 with 4 IRD licenses - 4K licensed

1x Adtec 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:

NTT Encoder and NTT Decoder are licensed for normal BISS and BISS CA - EBU standard

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Modulators:

3x Sencore SMD 989 Modulators

L-Band Patch -Encoder output:

Encoder output is in L-Band

Both Encoders can be on air at the same time

Sat-nms LRXD-28 L-Band distributor

L-Band combiner:

2x Newtec NTC 2173 L-band combiner

ND Satcom Receiving Matrix:

ND Satcom distribution and receiving matrix installed

Spectrum Analyzer:

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

Video Equipment:

Data Computer System:

Spectra Audio/video configuration system installed

Video Matrix -HD1080i+1080p-HDR-4K:

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

1x Nevion SL -3G HD 32x32 -HDR-4K ready - this Video matrix is cabled from the rear side to the 3G Matrix and through a patch panel to the Encoders/Decoders

1x BFE Videomatrix control panel BD-17

1x BFE Videomatrix control panel BD-51

Measurement equipment:

1x Leader LV5770 -4K measurement

1x BFE panel for measurement matrix

Video patchfield:

1x Canare 32 Videopatchfield - located in the production gallery

3x Lynx 5000 Series Frames - HD1080i

Lynx Frame1:

2x RCT 5022 Rack CTR

3x C AD 5320 Dual analogue Audio to AES converter card

2x D AD 5220 Dual AES Audio Distribution Amplifier

Lynx Frame 2:

2x RCT 5022 Rack CTR

1x C DX 5624 - HD Down Converter with Analogue + Digital Outputs card

2x D VD 5620 Dual HD/SD Digital distribution amplifier card

3x D VA 5120 Analogue video distribution amplifier cards

Lynx Frame 3:

2x RCT 5022 Rack CTR

4x P VD 5610 HD/SD Frame synchronizer cards

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1x P VD 5660 Dual HD/SD Frame synchronizer card
1x C AD 5122 Dual CVBS to SDI Decoder and Frame Synchronizer card

Streaming Encoder:

1x Ross Open Gear OGX Streaming Encoder - H264 – 2 way Encoder
With 2x T21 IP encoder cards

Timecode generator - Universal Video Data Processor:

1x Alpermann&Velte clock - Rubidium Series 1

Clock:

Alpermann & Velte dual time display

Video processing Monitor -1080p

1x Wohler AMP2-16V -1080p -4K - 16-channel audio/video processing monitor

Multiviewer:

1x Zander Predator HD16 -1080i

Monitors -1080p - 4K +1080i:

1x 1080p - 4K Monitor -Multiview ready
2x Dell LCD -Multiview ready -1080i
1x JVC DT-V1710 CG - Multiview ready -1080i
1x Panorama 2440 HD1080i Monitorbridge - 4 Monitors LCD dtv

Recording:

1x Blackmagic Hyperdeck Studio Pro double SSD Recorder - 4K

Videomixer – not included:

Prepared for a Videomixer – no Video mixer included

Audio Equipment:

Audio mixer:

Prepared for an Audio Mixer – like Yamaha LS9 or similar - all audio connections are available
Audio mixer is not included – on request

Audio matrix:

1x BFE 16x panel for Audio-IRD's
1x BFE 32 panel for Video/Audio -ASI switchable

Audio patchfield:

1x Neutrik 48x Audio patch field – located in the production area

Intercom System:

1x Riedel Artist 32x32 Mainframe

Included cards:

1x CPU128S-G2
1x GPI116 G2
1x VoIP 108G2
1x Coax 108G2

Intercom panels:

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1x RSP 2318
1x RCP 1012E

Audio monitoring:

1x Wohler AMP1-S8-MDA

Audio Matrix

1x Audio patch matrix - AES/EBU standard – can distribute also analogue signals

Digital Monitoring Unit

1x Adis T1202 Digital Monitoring unit

Audio cables & adapters:

Please specify all included cables

Soundboxes:

2x Genelec
2x Sony Xploid

Dolby Decoder:

1x Wohler AMP2-E8 Dolby Decoder -digital Audio Monitor Panel

SIP IP Telephone

1x Mitel SIP IP Telephone

GSM connections:

1x BFE GSM Matrix
2x Phone Hybrid

Audiometer:

1x RTW audiometer

Equipment on the rear side of the SNG:

Video -Audio Patchfields

BFE Video patchfield HD SDI -1080i + HD SDI 1080p
BFE Audio patchfield
Neutrik patchfield
BFE Telephone patchfields Rj11, Rj12, Rj45

Monitors:

1x Ikegami HLM-910R HD -1080i Video control Monitor

Barnfind CWDM fiber Stagebox:

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

Transmitter & Receiver:

1x Fibre Optic Transmitter
1x Fibre Optic Receiver

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Cable bridges:

4x Adam Hall cable bridges Defender Nano

UPS system:

2x Eaton 9PX 3000

Power:

BFE power supply tableau

BFE isolating transformer

Stamps/Jacks control:

1x Quicklift electrical control system for the jacks on the rear side

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 camera cable

1x Schill Belt tension drum video cable 60m HD

Diverse patch cables

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Paradeisergasse 9 • 9020 Klagenfurt, Austria
Tel.: +43 463-90 8000 • Fax: +43 463-90 8000-99
e-mail: stvmd@stvmd.com • <http://www.stvmd.com>

Photos of the 4K SNG:



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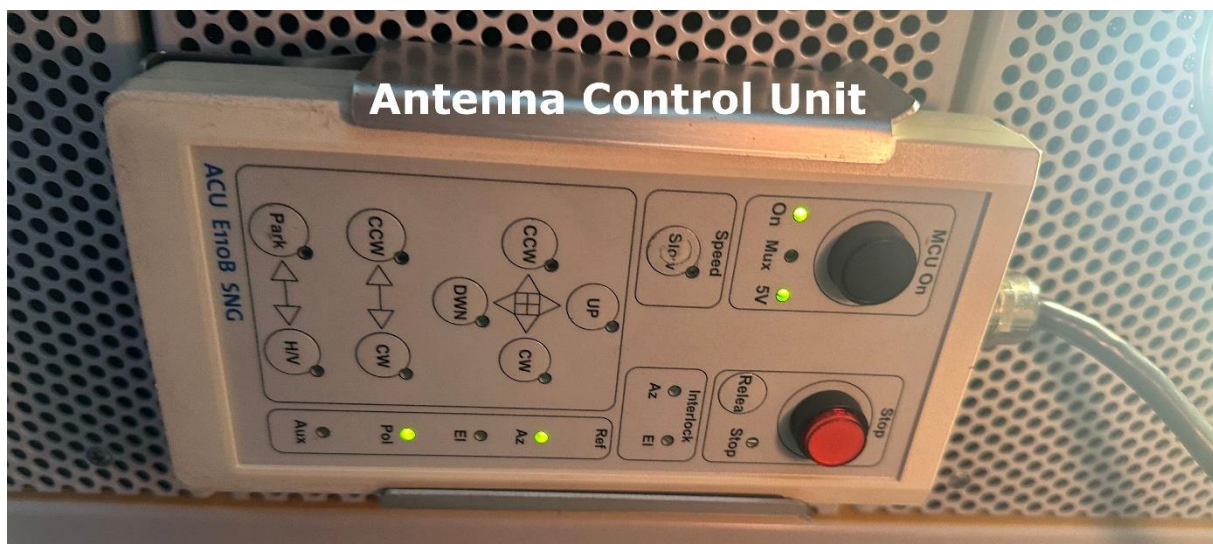


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Tel.: +43 463-90 8000 • Fax: +43 463-90 8000-99
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turnable Co-Pilot Seat



Used HD SNG - 4K Mercedes Sprinter 518 CDI in good condition - SNG1



Used HD SNG - 4K Mercedes Sprinter 518 CDI in good condition - SNG1



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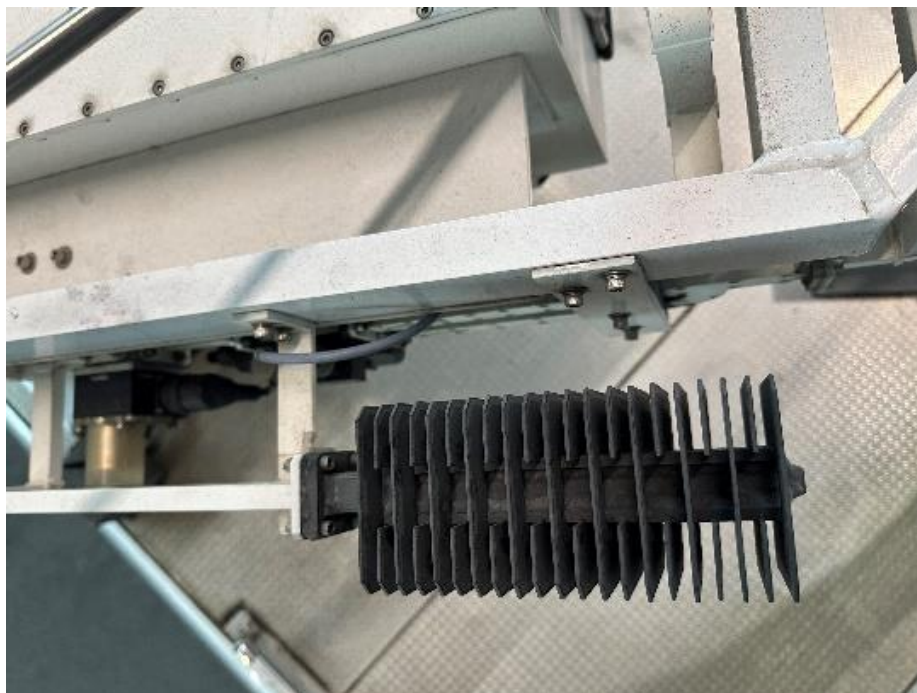
















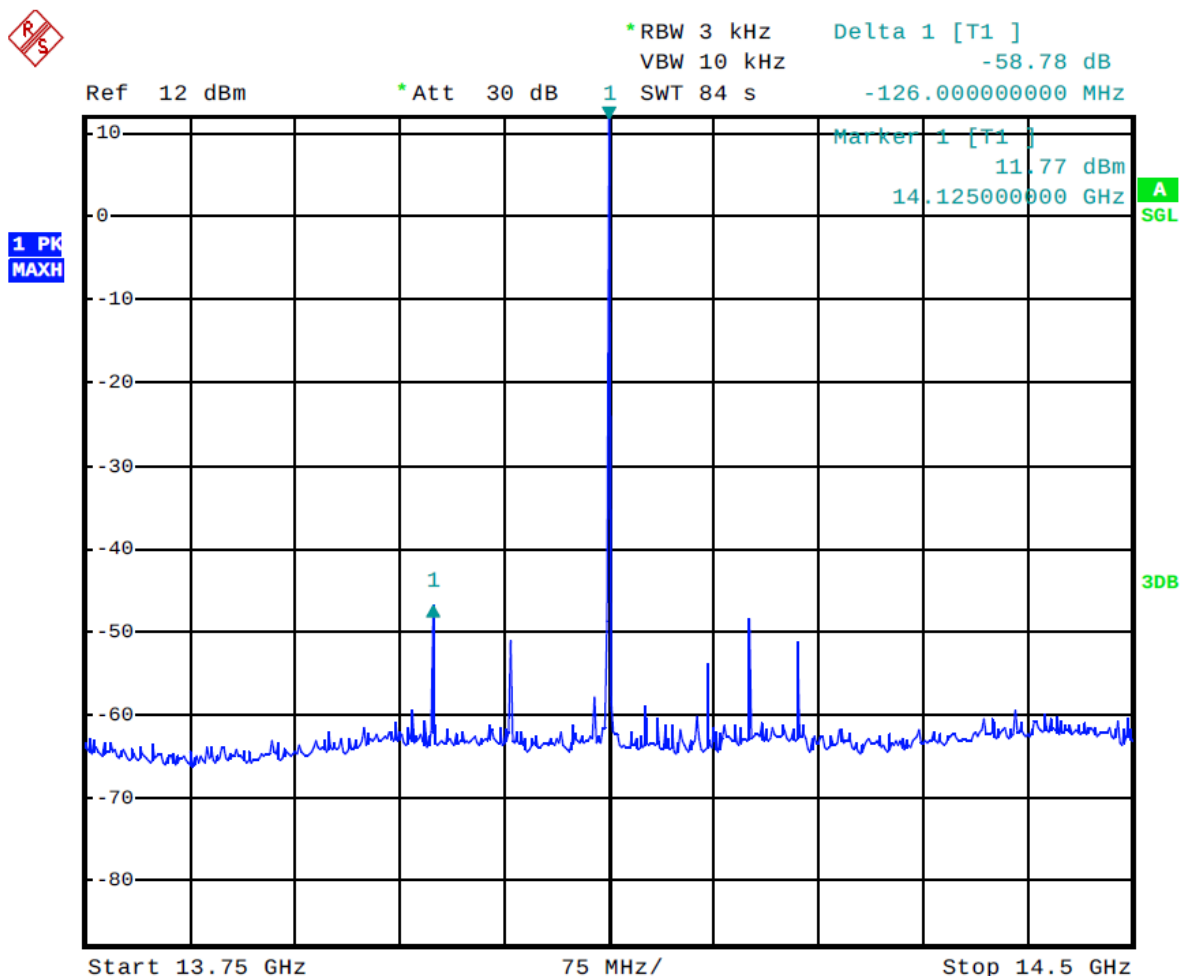
HPA 1 - Parameter (2/2)		1/2
Output Power	495 W	
Heater Current	1148 mA	
Helix Current	1.2 mA	
Helix Voltage	11.1 kV	
Temperature	4.5 °C	
		Back

HPA 2 - Parameter (2/2)		1/2
Output Power	453 W	
Heater Current	1153 mA	
Helix Current	0.5 mA	
Helix Voltage	11.1 kV	
Temperature	7 °C	
		Back

ND Satcom - Measuring protocol:

Transmission chain 1 – date of testing: 27 th of March 2024							
	Value	Ref/ Measuring	Delta	HPA Anz 1	HPA Anz 2	HPA Att	Mod
Max EIRP	579,43 dBm	18,01		58,4 dBm	709 W	8	5
Heater current	1153 mA						
Helix current	1mA						
Helixvoltage	11,1 kV						
Temperature	27 °C						
Phasenoise	n.a. dBc/Hz						
Frequency	14124976849 Hz	14125000000	23151 Hz				
Intermod LBR	dBc	-25		57,7dBm	585 W	8	2,4
Heater time	3.403h						
Helix time	10.715h						

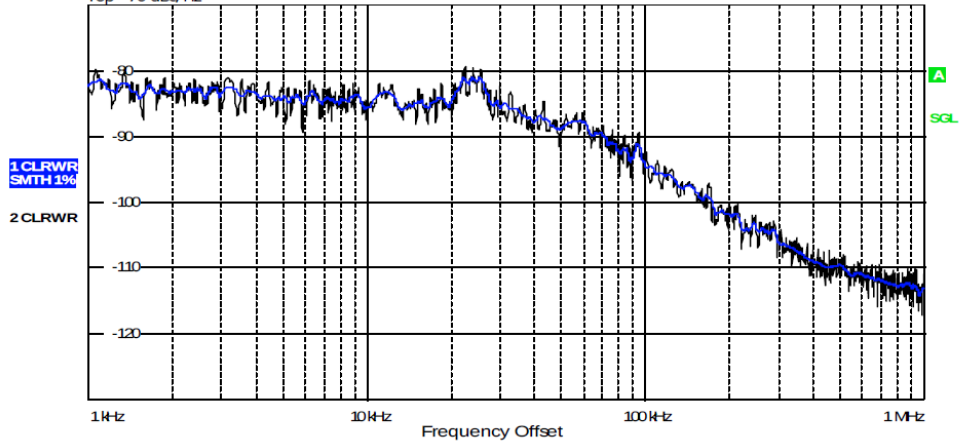
Spurious



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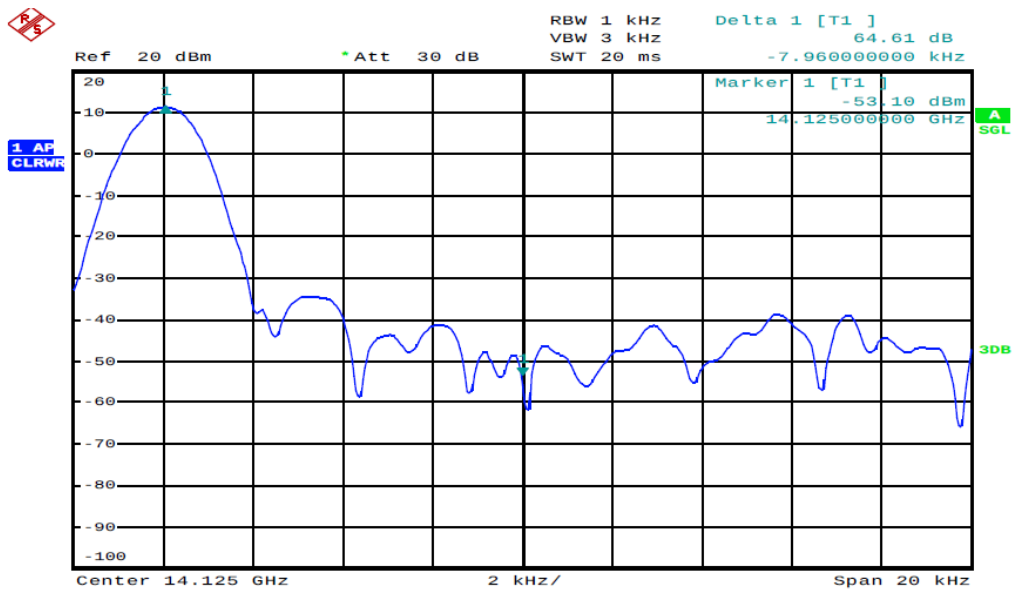
BS	PHASE NOISE		
	Settings	Residual Noise	Spot Noise [T1]
Signal Freq:	14.124992 GHz	Evaluation from 1 kHz to 1 MHz	1 kHz -82.33 dBc/Hz
Signal Level:	11.61 dBm	Residual PM 1.252 °	10 kHz -85.66 dBc/Hz
Signal Freq Δ: Δ	2.21 Hz	Residual FM 2.473 kHz	100 kHz -94.65 dBc/Hz
Signal Level Δ: Δ	-0.01 dBm	RMS Jitter 0.2462 ps	1 MHz -113.04 dBc/Hz

PH Noise
RF Atten 30 dB
Top -70 dBc/Hz

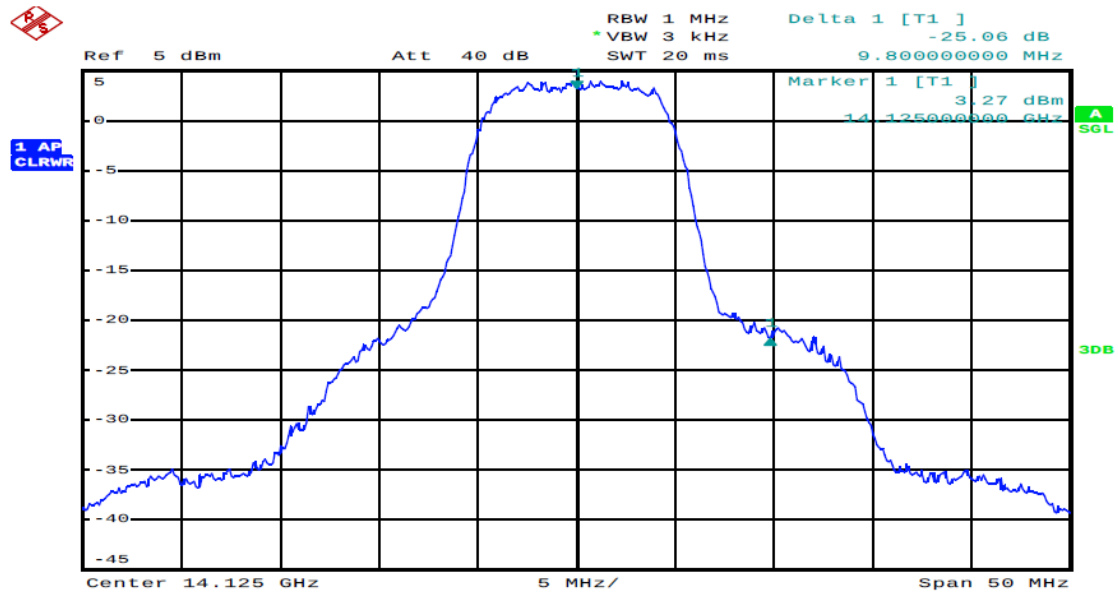


Measurement Complete

Date: 27.MAR.2024 11:01:13



Intermodulation

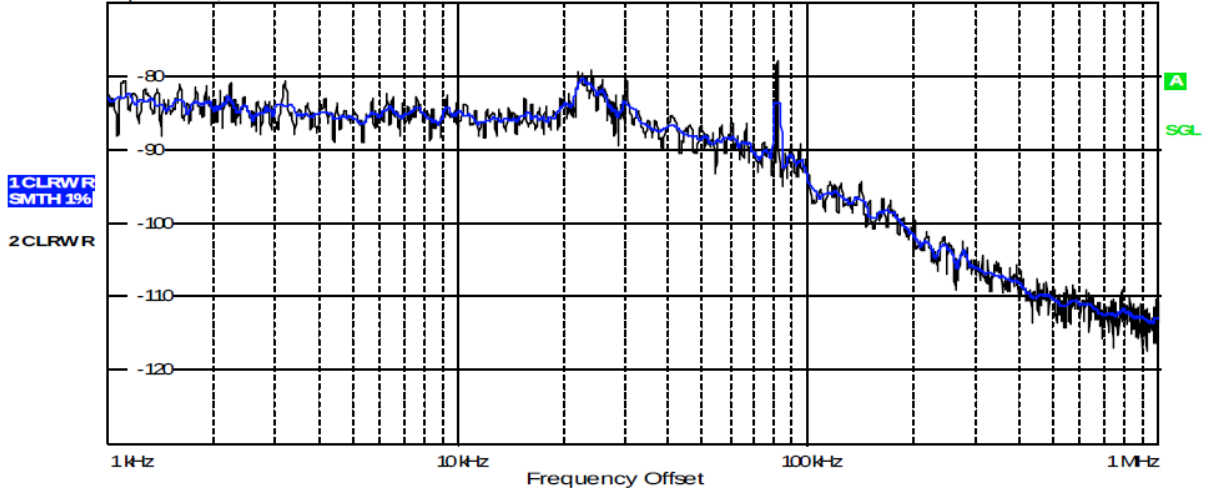


Transmission chain 2 – date of testing: 27th of March 2024

	Value	Ref/ Measuring	Delta	HPA Anz 1	HPA Anz 2	HPA Att	Mod
Max EIRP	535,7966575 dBm	17,67		58,4 dBm	695 W	11	5
Heater current	1153 mA						
Helix current	0,8mA						
Helixvoltage	11,1 kV						
Temperature	26 °C						
Phasenoise	n.a. dBc/Hz						
Frequency	14124976849 Hz	14125000000	-14125000000				
Intermod LBR	dBc	-25		57,1dBm	517 W	13,5	5
Heater time	2.629h						
Helix time	10.504h						

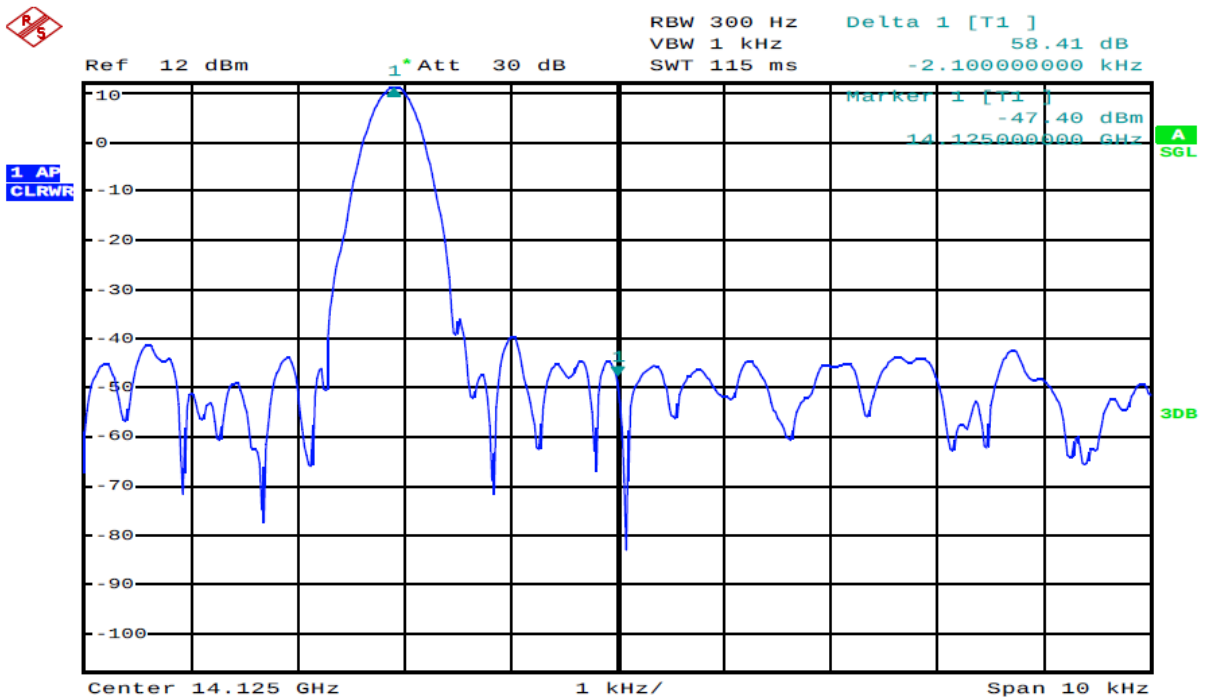
BS	PHASE NOISE			
	Settings	Residual Noise		Spot Noise [T1]
Signal Freq:	14.124998 GHz	Evaluation from 1 kHz to 1 MHz		1 kHz -82.92 dBc/Hz
Signal Level:	11.06 dBm	Residual PM 1.264 °		10 kHz -84.88 dBc/Hz
Signal Freq Δ: Δ	-0.7 Hz	Residual FM 2.54 kHz		100 kHz -94.30 dBc/Hz
Signal Level Δ: Δ	-0.09 dBm	RMS Jitter 0.2485 ps		1 MHz -113.01 dBc/Hz

PH Noise
RF Atten 30 dB
Top -70 dBc/Hz

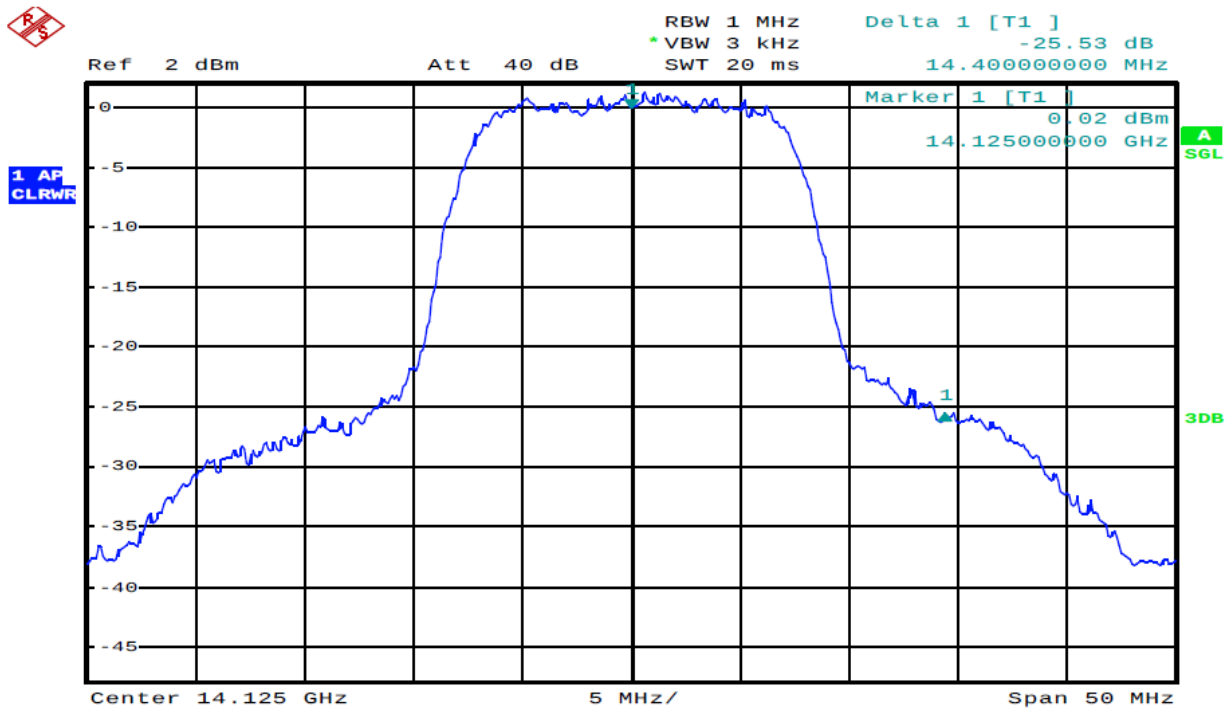


Measurement Complete

Date: 27.MAR.2024 11:22:54



Intermodulation



For further information please contact:

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distribution

Otmar Valzachi
sports tv media distribution GmbH
Paradeisergasse 9
9020 Klagenfurt, AUSTRIA
Tel:+43 463 908000
Fax:+43 463 908000 99
Mobile:+43 676 848606211

email: ov@stvmd.com
<http://www.stvmd.com>