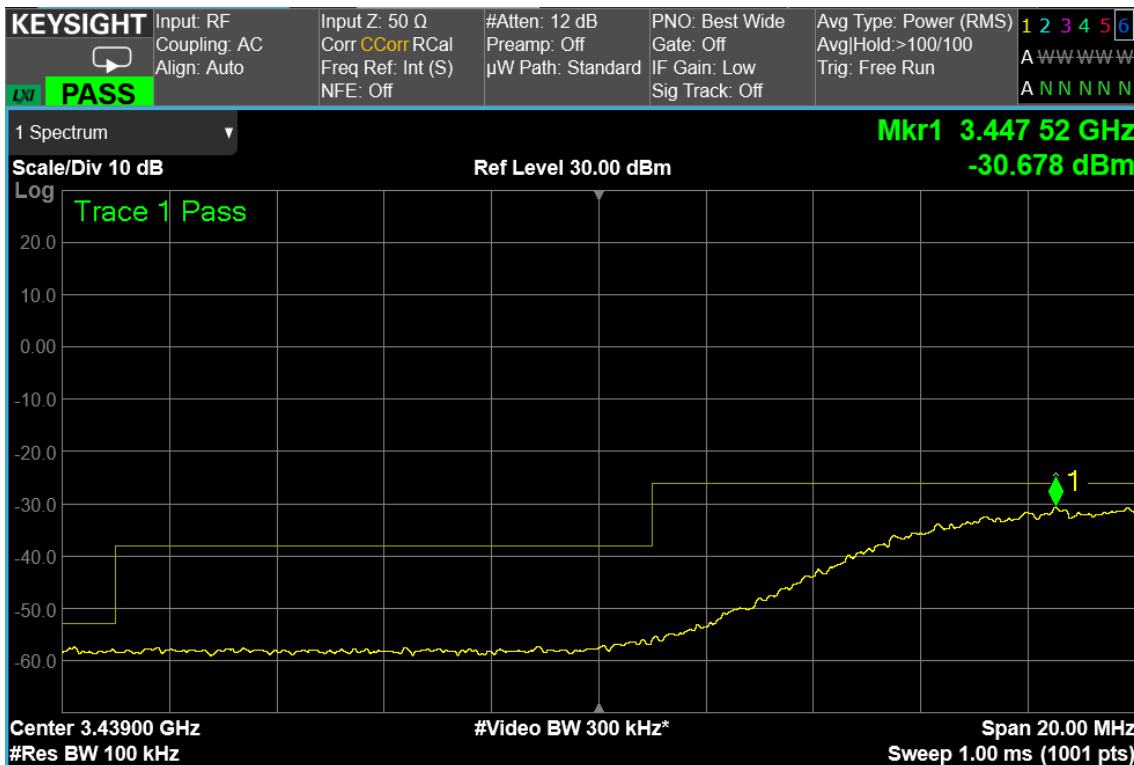
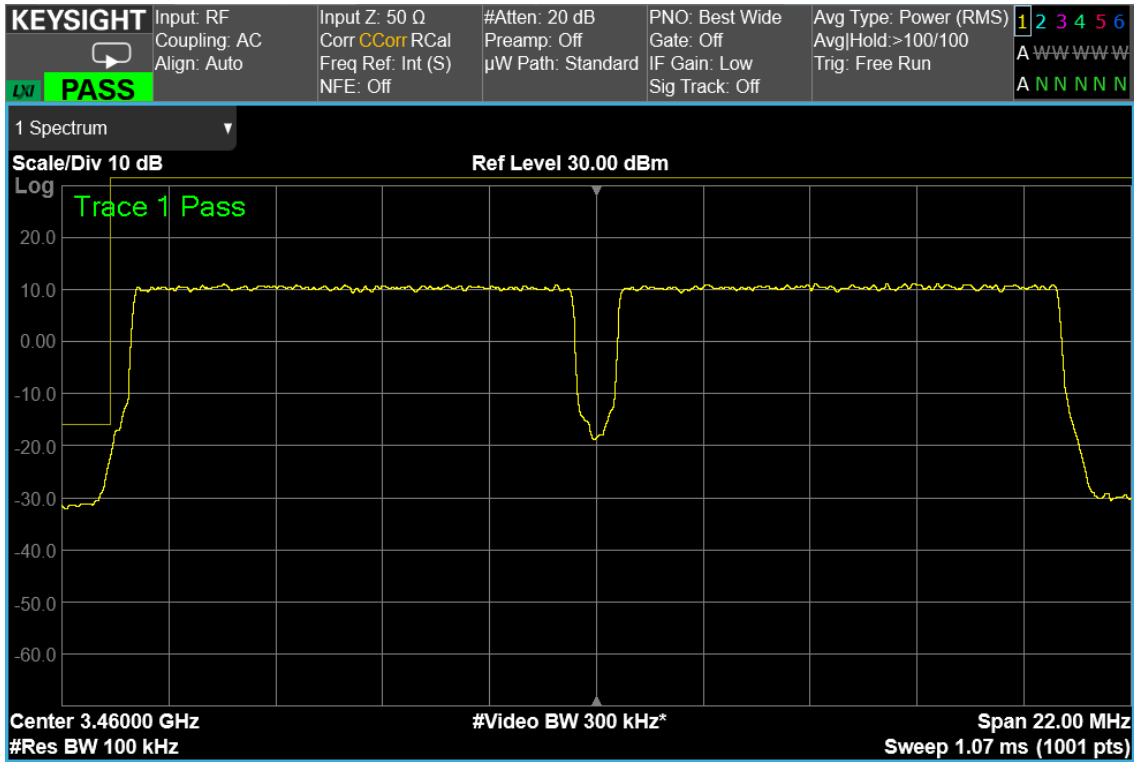
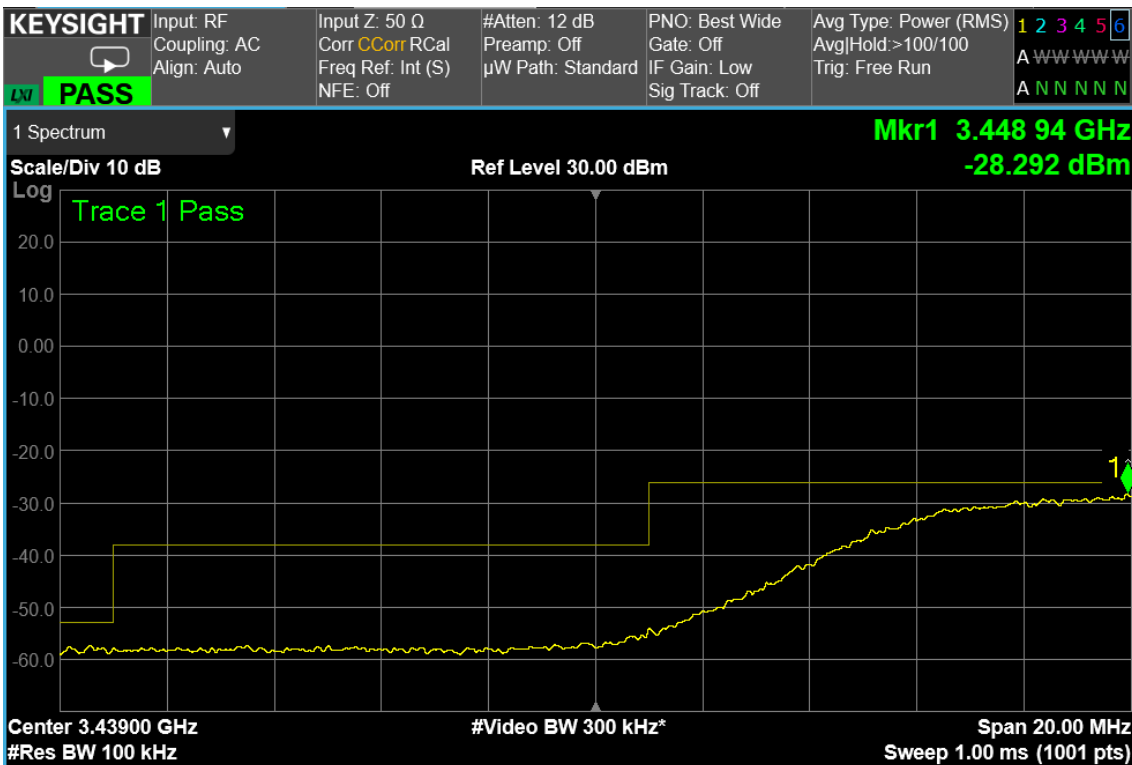
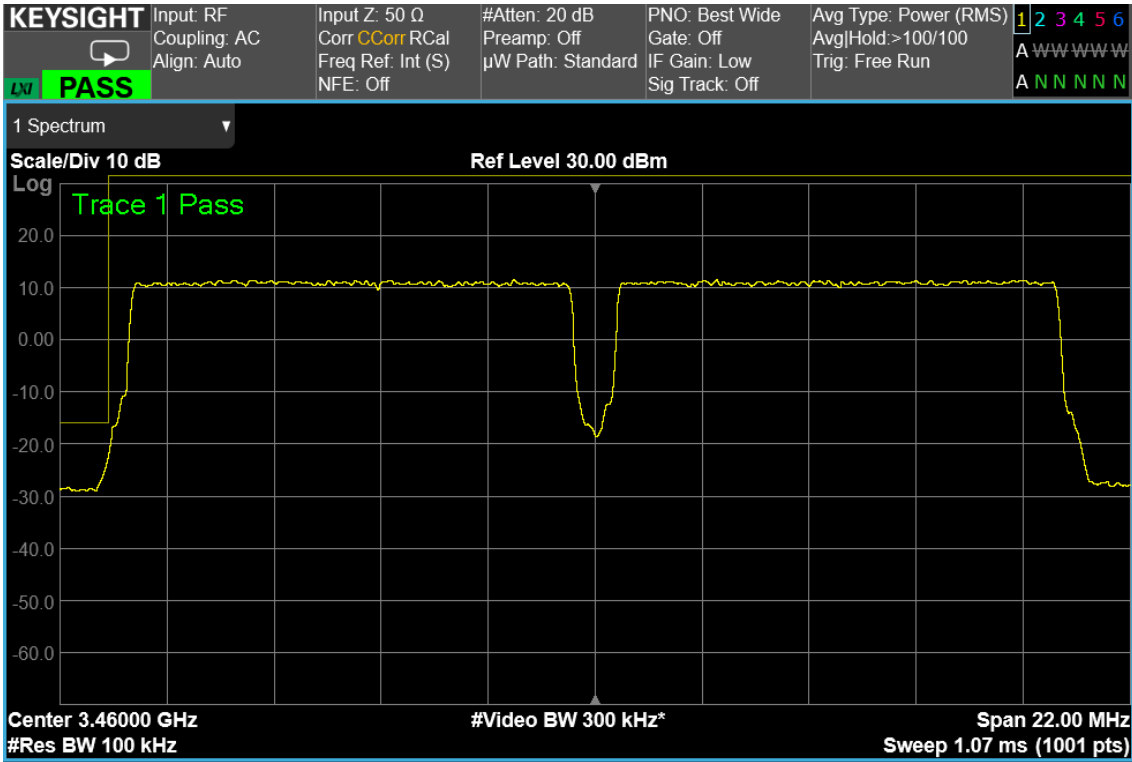


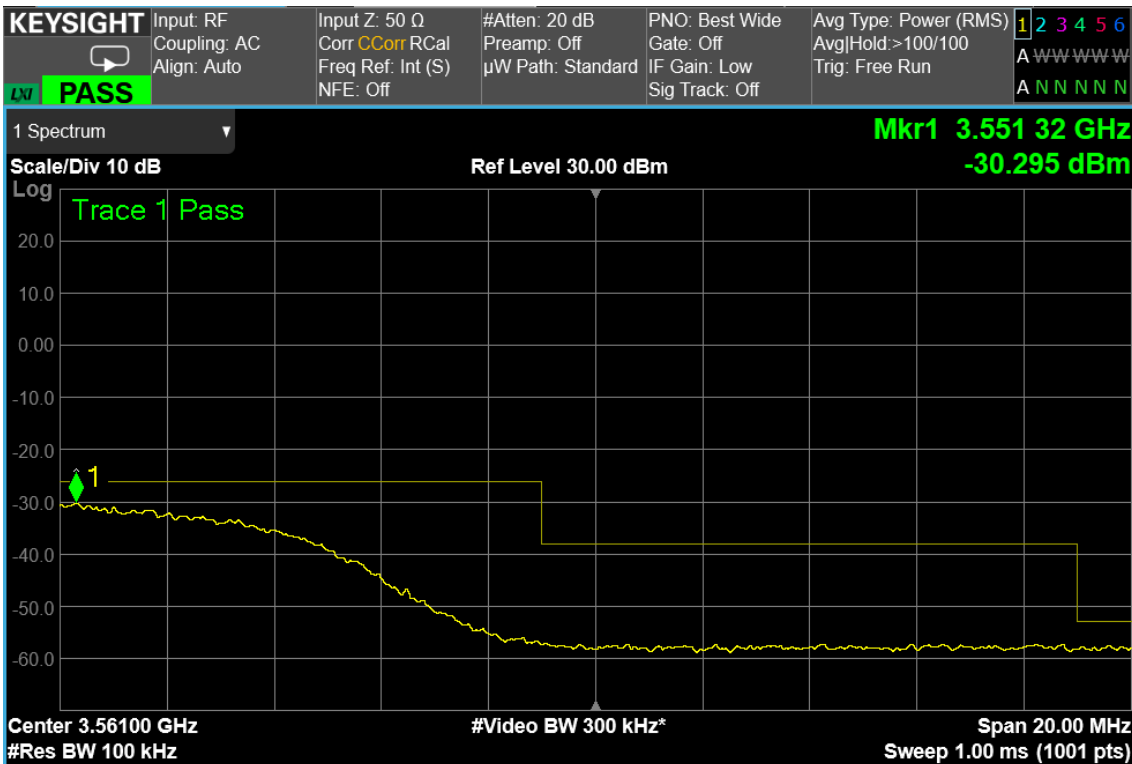
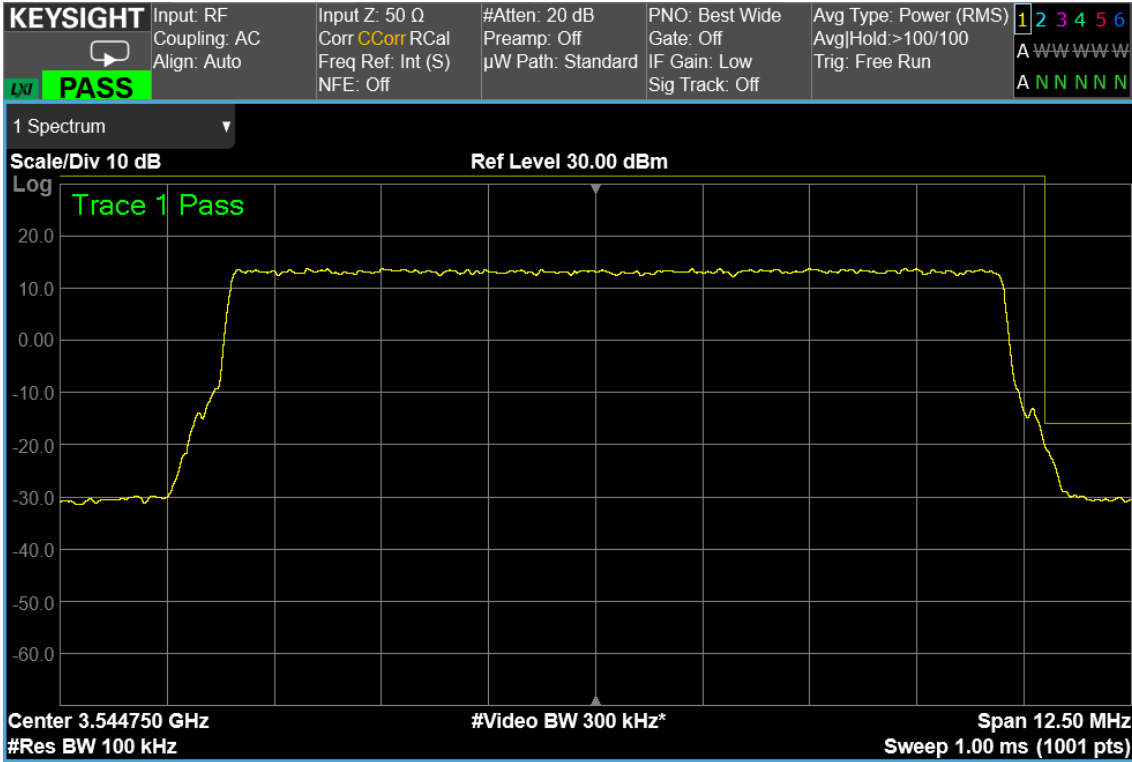
10 MHz signal, Low Band Edge, 1 carrier, nominal input signal + 3dB



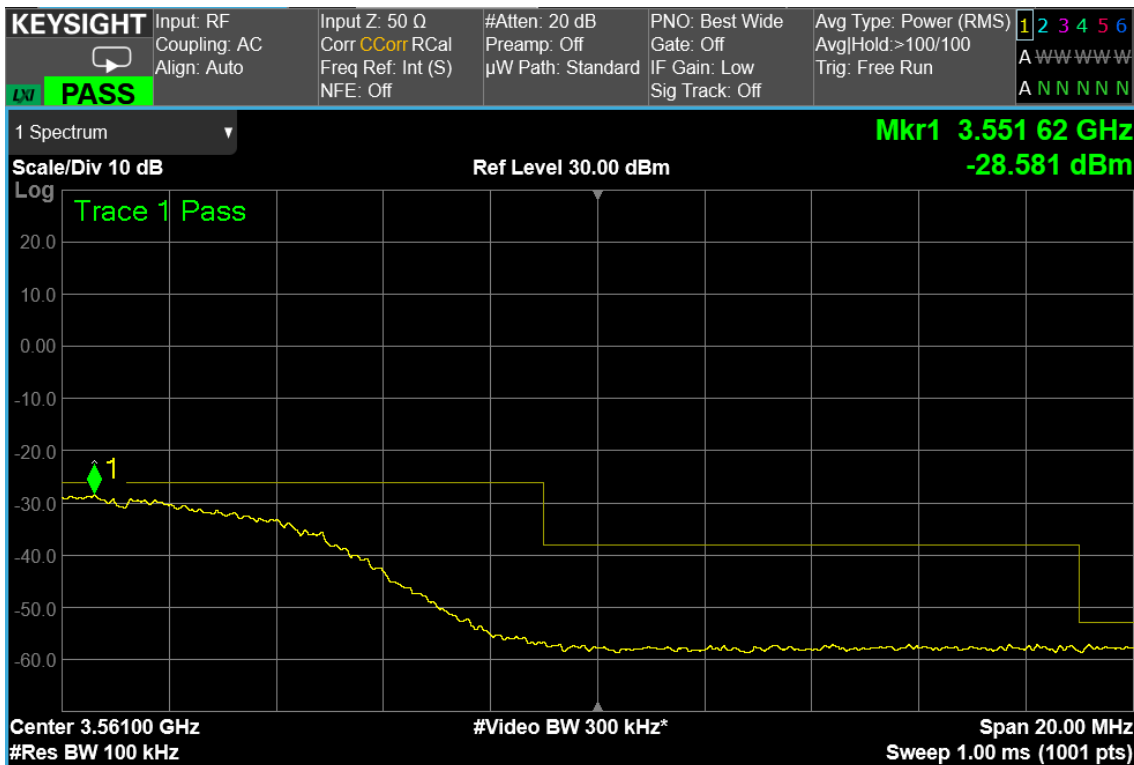
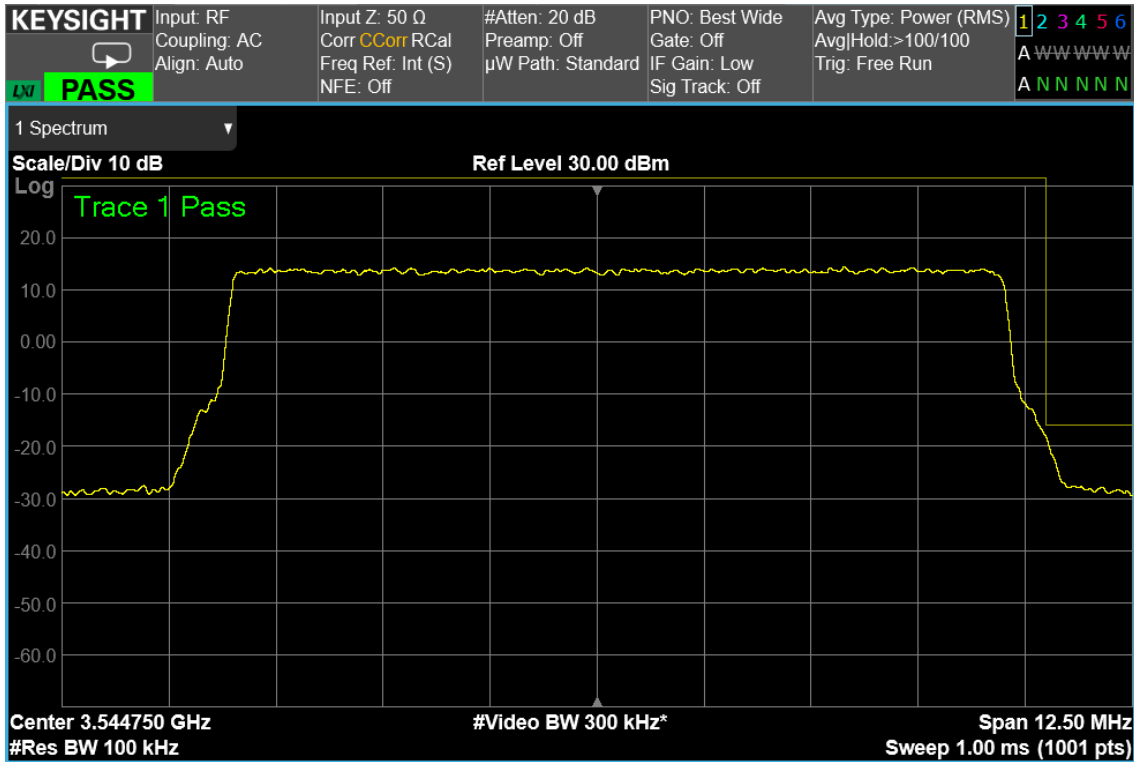
10 MHz signal, Low Band Edge, 2 carrier, nominal input signal



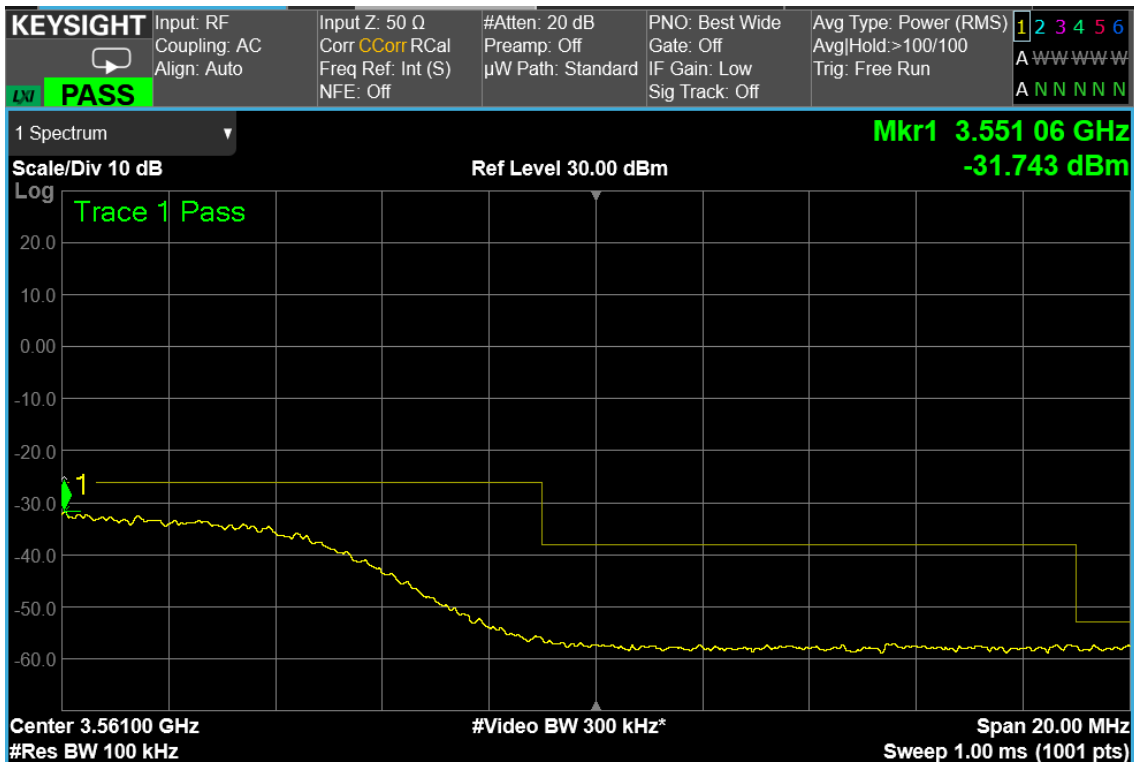
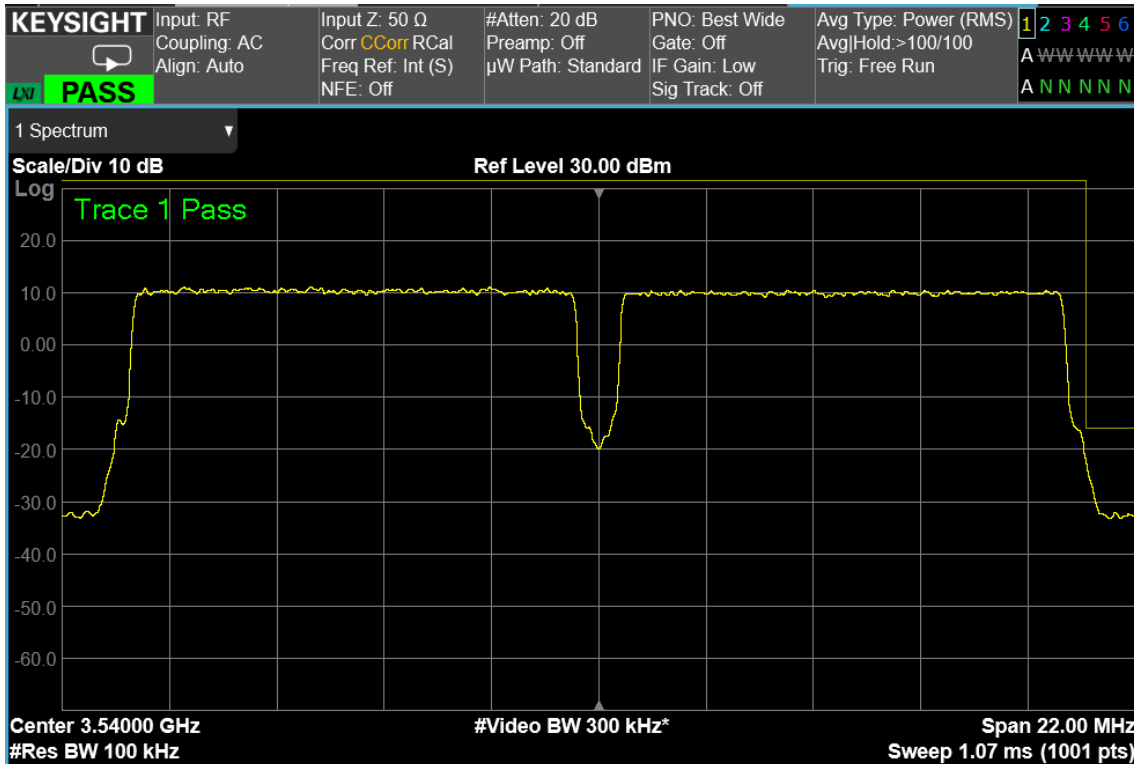
10 MHz signal, Low Band Edge, 2 carrier, nominal input signal + 3dB



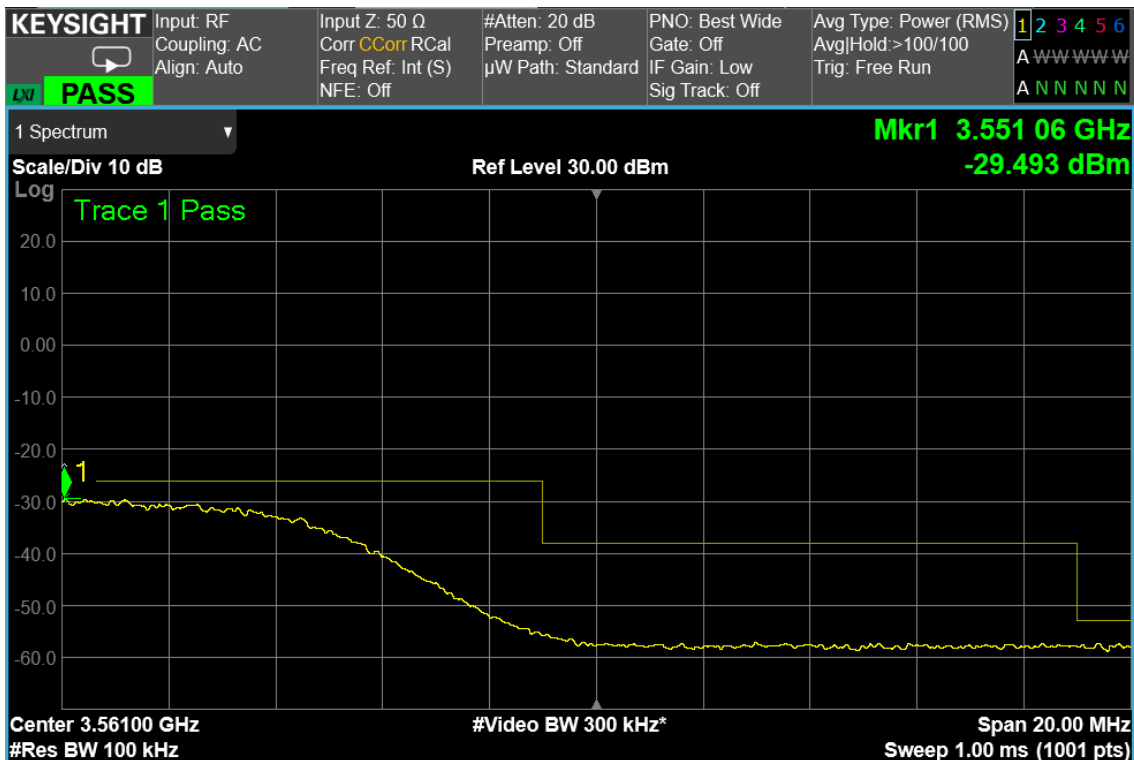
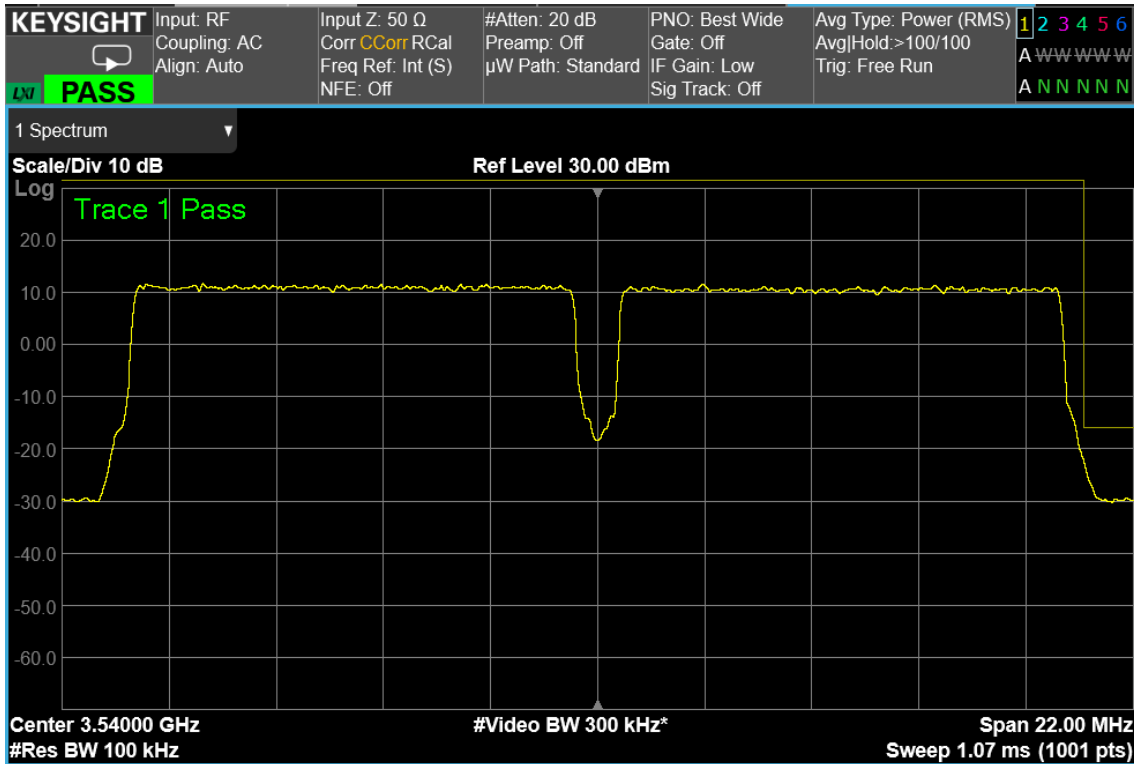
10 MHz signal, High Band Edge, 1 carrier, nominal input signal



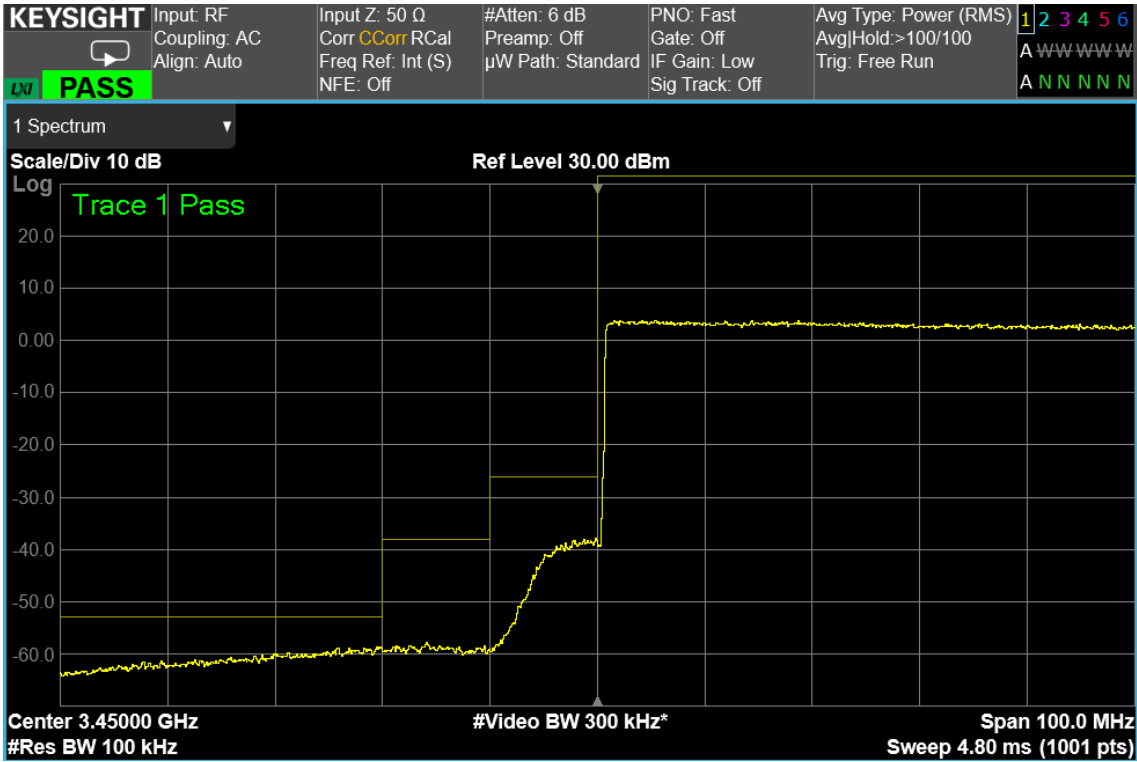
10 MHz signal, High Band Edge, 1 carrier, nominal input signal + 3dB



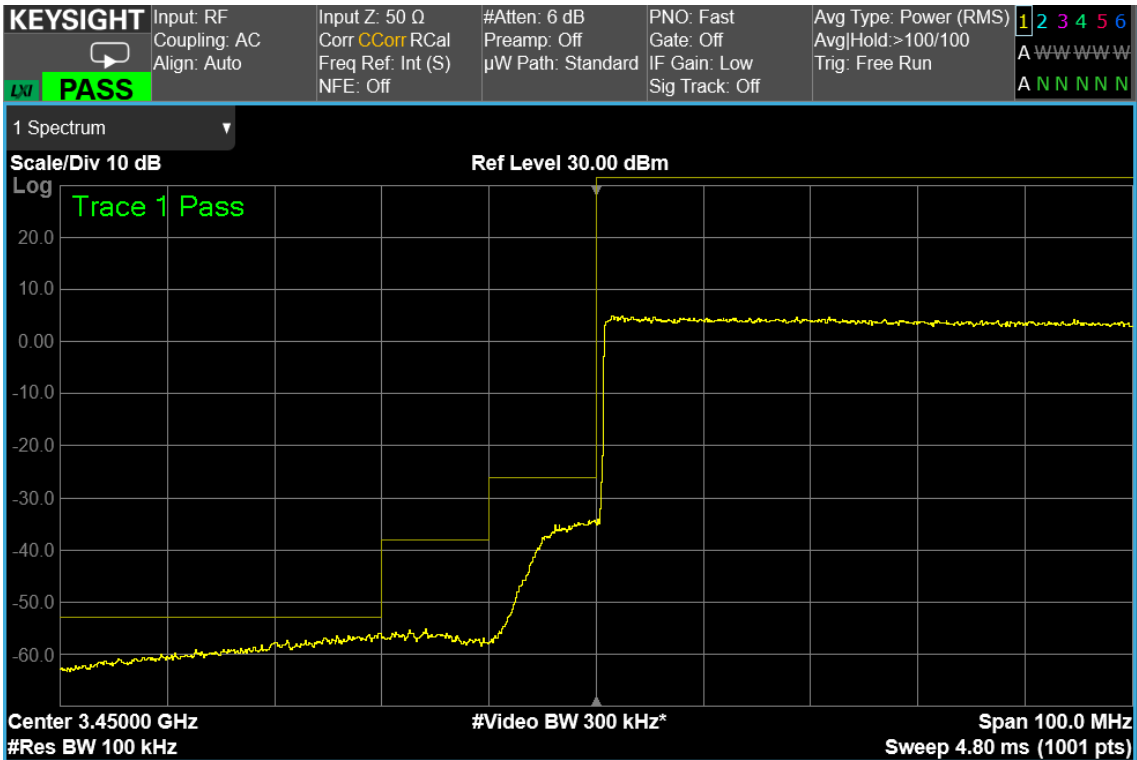
10 MHz signal, High Band Edge, 2 carrier, nominal input signal



10 MHz signal, High Band Edge, 2 carrier, nominal input signal + 3dB

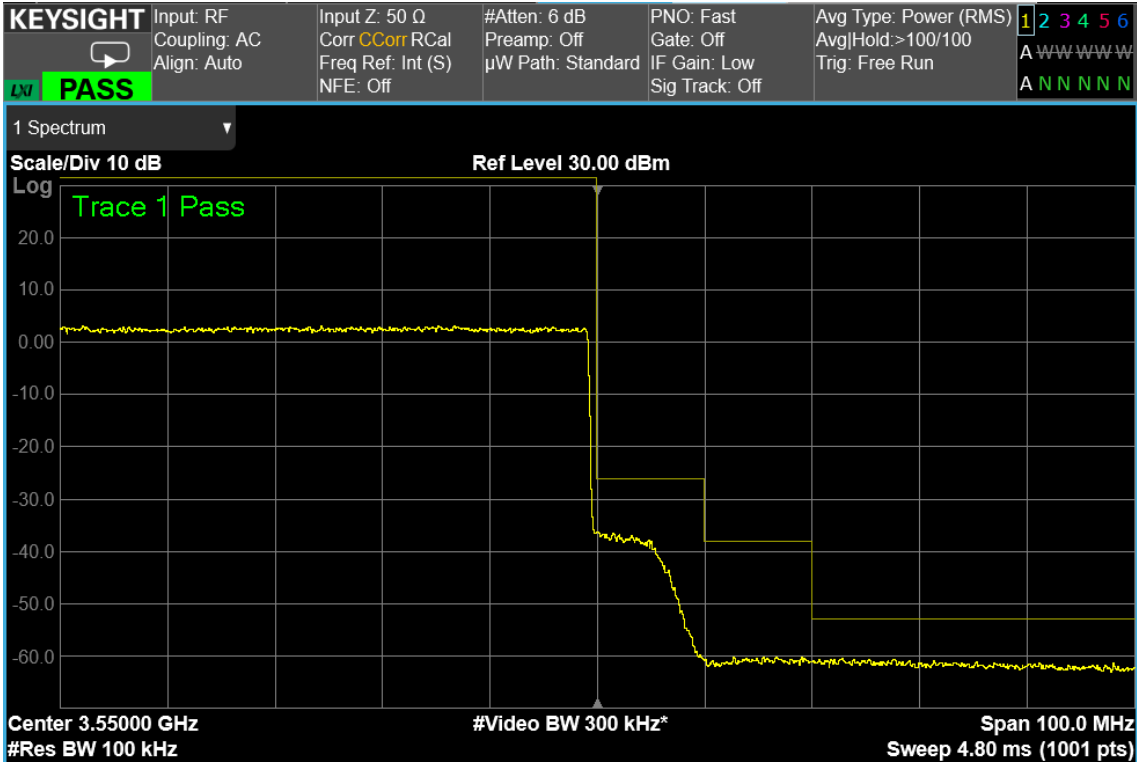


100 MHz signal, Low Band Edge, 1 carrier, nominal input signal

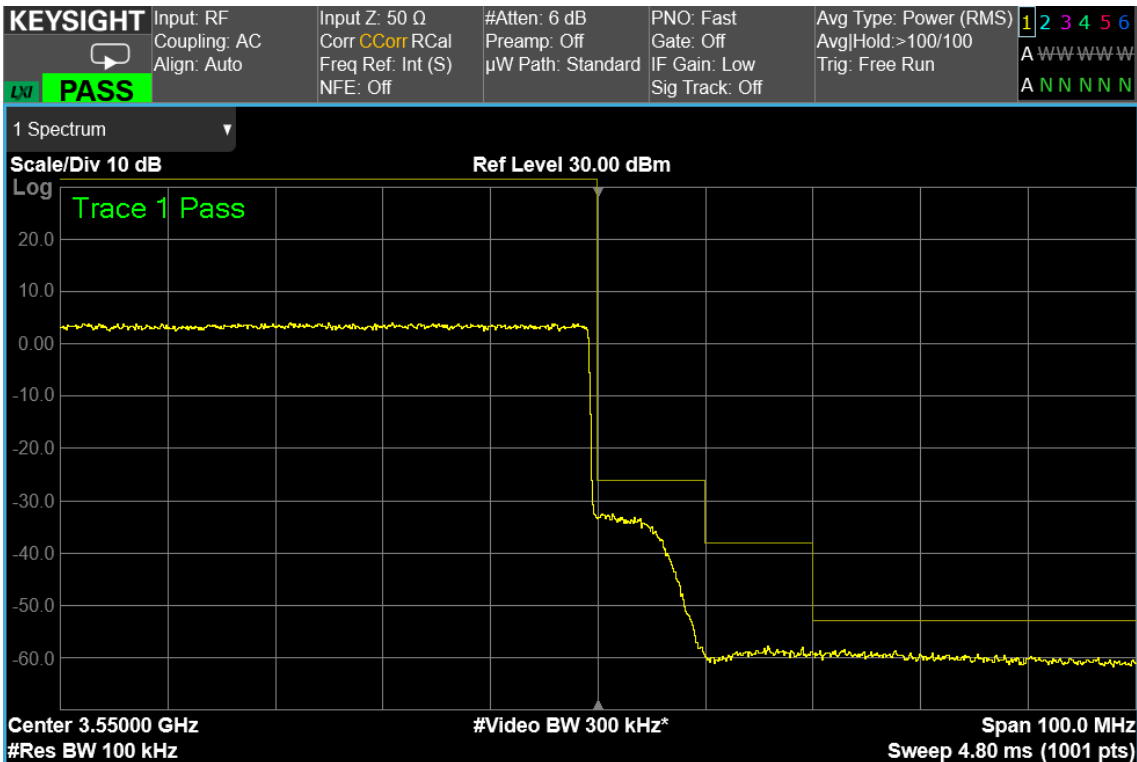


100 MHz signal, Low Band Edge, 1 carrier, nominal input signal + 3dB





100 MHz signal, High Band Edge, 1 carrier, nominal input signal



100 MHz signal, High Band Edge, 1 carrier, nominal input signal + 3dB

### Clause 27.53(n) Radiated Spurious emissions

**(n) 3.45 GHz Service. The following emission limits apply to stations transmitting in the 3450-3550 MHz band:**

(1) For base station operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed  $-13$  dBm/MHz. Compliance with the provisions of this paragraph (n)(1) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. Notwithstanding the channel edge requirement of  $-13$  dBm per megahertz, for base station operations in the 3450-3550 MHz band, the conducted power of any emission below 3440 MHz or above 3560 MHz shall not exceed  $-25$  dBm/MHz, and the conducted power of emissions below 3430 MHz or above 3570 MHz shall not exceed  $-40$  dBm/MHz.

Test date: 2022-10-28 to 2022-10-28

Test results: Pass

### Special notes

### Test equipment

Equipment	Manufacturer	Model No.	Asset/Serial No.	Next cal.
Antenna Trilog 25MHz - 8GHz	Schwarzbeck Mess-Elektronik	VULB9162	9162-025	2024-07
Antenna Trilog 25-2000 MHz	Schwarzbeck Mess-Elektronik	VULB9168	9168-242	2024-06
Antenna 1 - 18 GHz	Schwarzbeck Mess-Elektronik	STLP9148	STLP 9148-152	2024-09
Antenna 1 - 18 GHz	Schwarzbeck Mess-Elektronik	STLP9148	STPL 9148-123	2024-06
Double Ridge Horn Antenna	RFSpin	DRH40	061106A40	2023-04
Broadband Bench Top Amplifier	Sage	STB-1834034030-KFKF-L1	18490-01	2023-05
Broadband Amplifier	Schwarzbeck Mess-Elektronik	BBV9718C	00121	2023-03
Preamplifier	Schwarzbeck Mess-Elektronik	BBV9718	BBV9718-137	2023-04
Semi-anechoic chamber	Nemko S.p.a.	10m semi-anechoic chamber	530	2023-09
Common Mode Absorption Device	Schwarzbeck Mess-Elektronik	CMAD1614	00041	2023-05
LISN	Rohde & Schwarz	ENV432	101714	2023-08
LISN	Rohde & Schwarz	ESH2-Z5	872 460/041	2023-10
V-network	Rohde & Schwarz	ESH3-Z5	840 731/004	2023-08
Oscilloscope	Agilent	54846A	MY40000254	2023-07
Multimeter	Rohde & Schwarz	HMC8012	101577	2023-07
Barometer	Castle	GBP 3300	072015	2023-04
Attenuator	Aeroflex / Weinschel	2	CC8577	2023-08
3m Semi anechoic chamber	Comtest	SAC-3	1711-150	2024-09

Note: N/A = Not Applicable, NCR = No Cal Required, COU = CAL On Use

(\*) Equipment supplied by manufacturer's

Clause 27.53(m) Radiated spurious emissions, continued

Test data

The D.U.T. was positioned according to the radiated emissions set-up

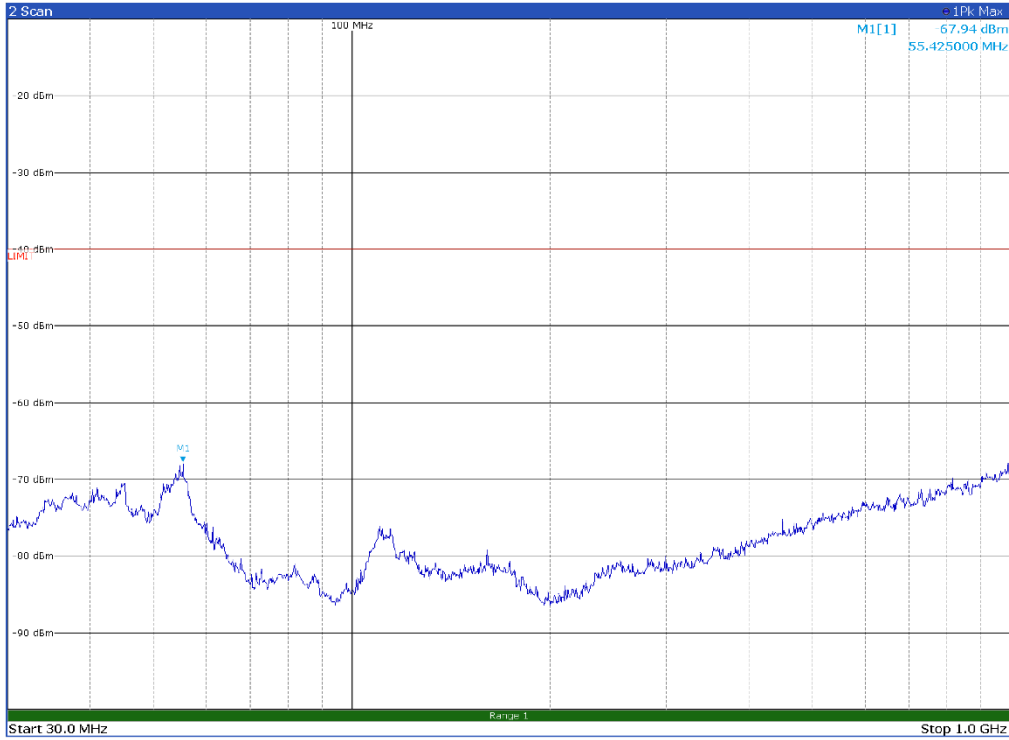
The D.U.T. antenna connector was terminated by a 50 Ω shielded dummy load.

The spectrum was searched from 30 MHz to 1 GHz (RBW 100 kHz) & 1 GHz (RBW 1 MHz) to the tenth harmonic of the carrier.

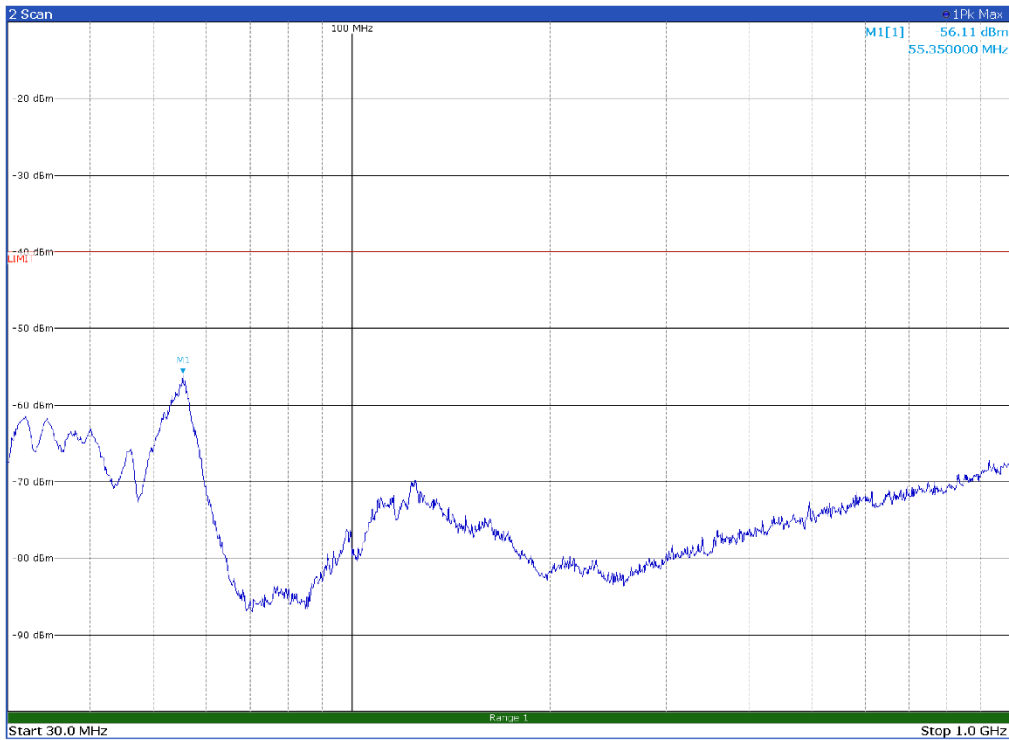
Spurious emissions measurement results:

Frequency (MHz)	Polarization. V/H	Field strength (dBm)	Limit (dBm)	Margin (dB)
Low channel				
6.9050	H	-55.3	-40.0	-15.3
10.3585	H	-54.2	-40.0	-14.2
6.9052	V	-50.0	-40.0	-10.0
10.3582	V	-52.8	-40.0	-12.8
Mid channel				
7.0000	H	-54.4	-40.0	-14.4
10.4995	H	-51.7	-40.0	-11.7
3.5007	V	-48.5	-40.0	-8.5
10.4990	V	-55.1	-40.0	-15.1
High channel				
3.5460	H	-58.4	-40.0	-18.4
7.0970	H	-58.5	-40.0	-18.5
7.0960	V	-52.3	-40.0	-12.3
10.6450	V	-51.5	-40.0	-11.5

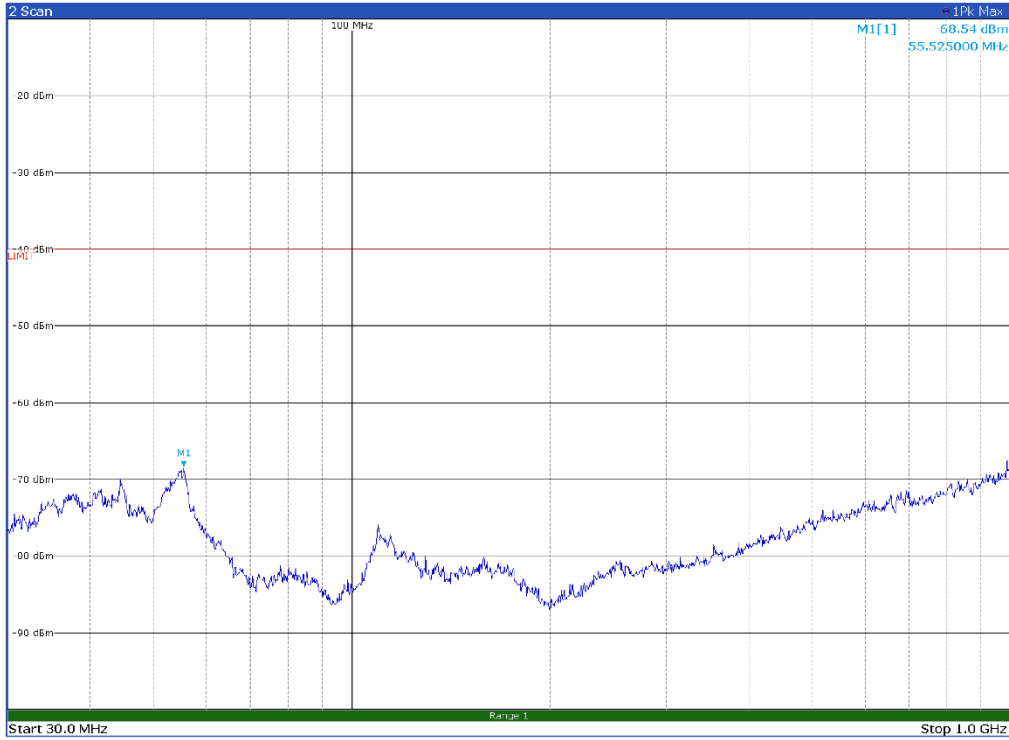
Note: Field strength includes correction factor of antenna, cable loss, amplifier, and attenuators where applicable.



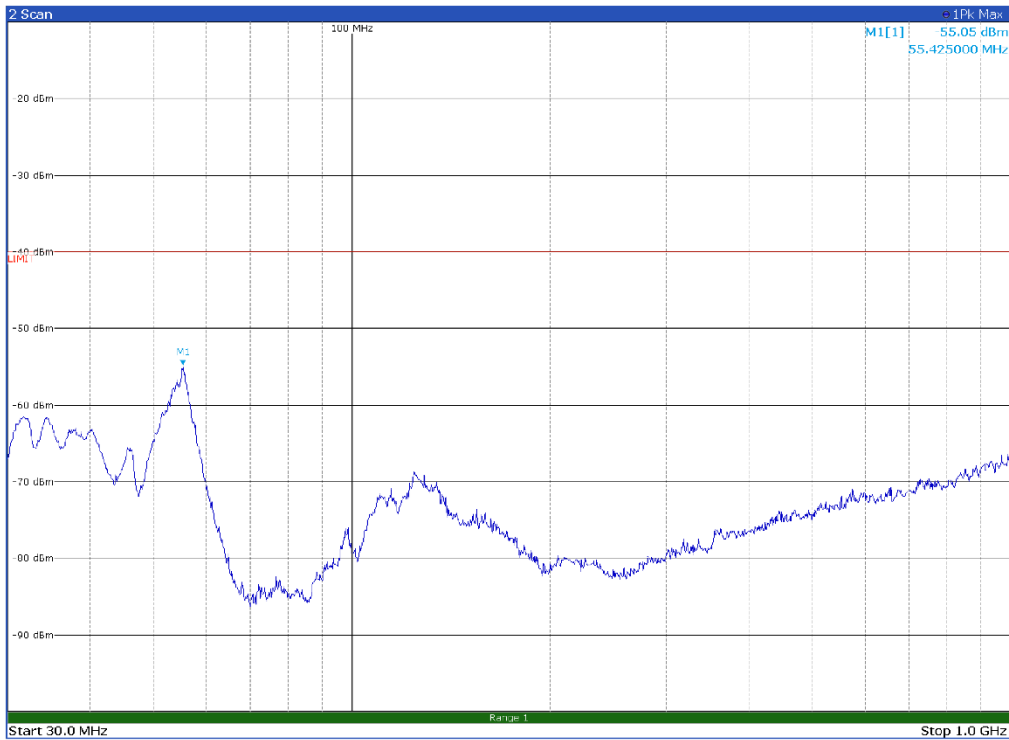
**Low bandwidth signal, bottom channel,  
Range: 30 MHz-1000 MHz, Polarization: Horizontal**



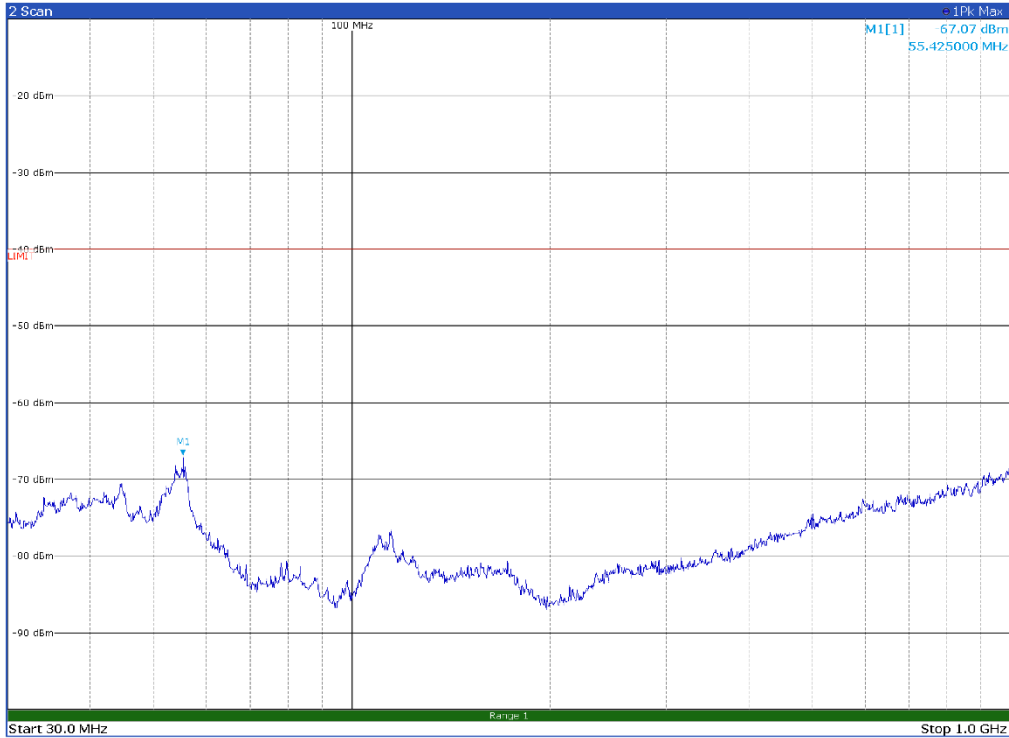
**Low bandwidth signal, bottom channel,  
Range: 30 MHz-1000 MHz, Polarization: Vertical**



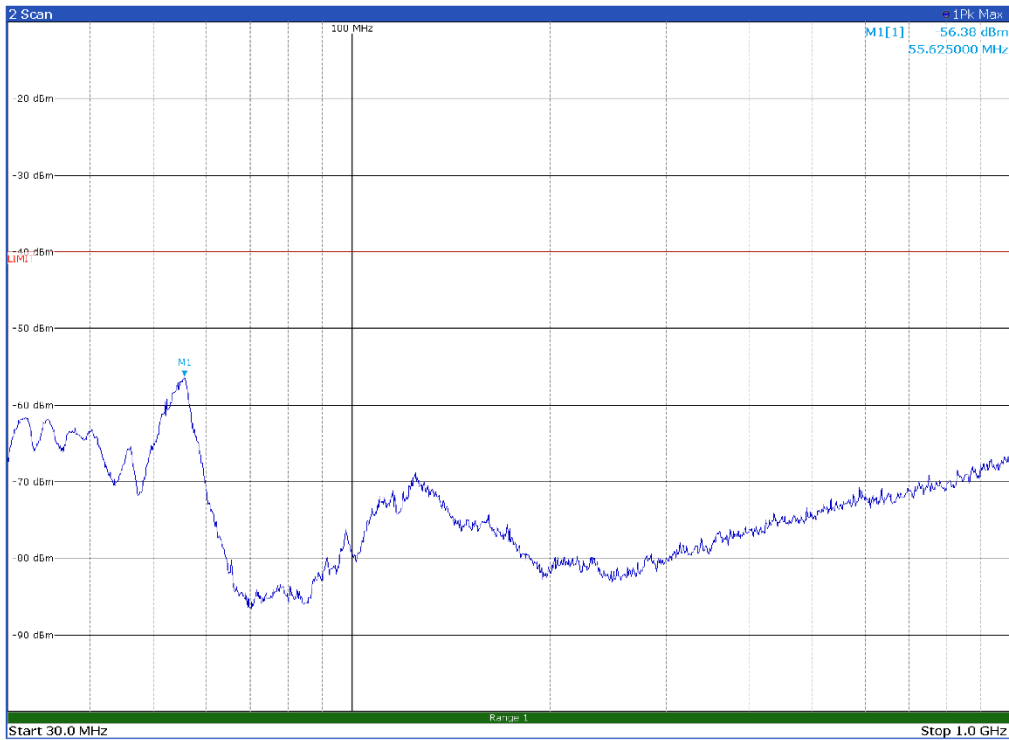
**Low bandwidth signal, middle channel,  
Range: 30 MHz-1000 MHz, Polarization: Horizontal**



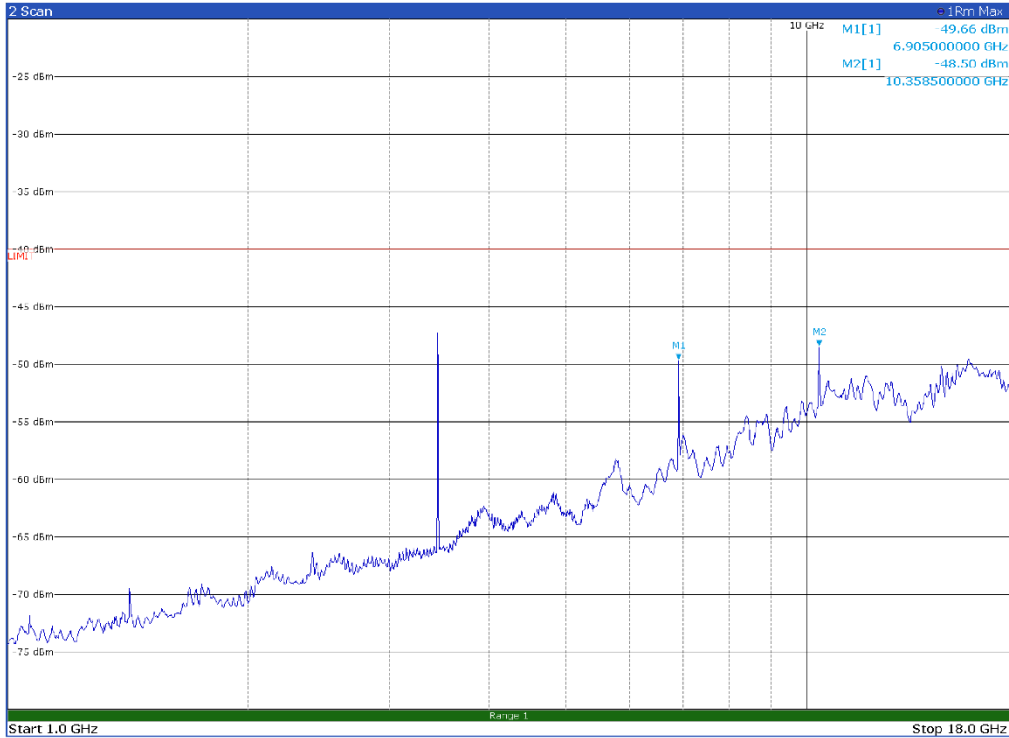
**Low bandwidth signal, middle channel,  
Range: 30 MHz-1000 MHz, Polarization: Vertical**



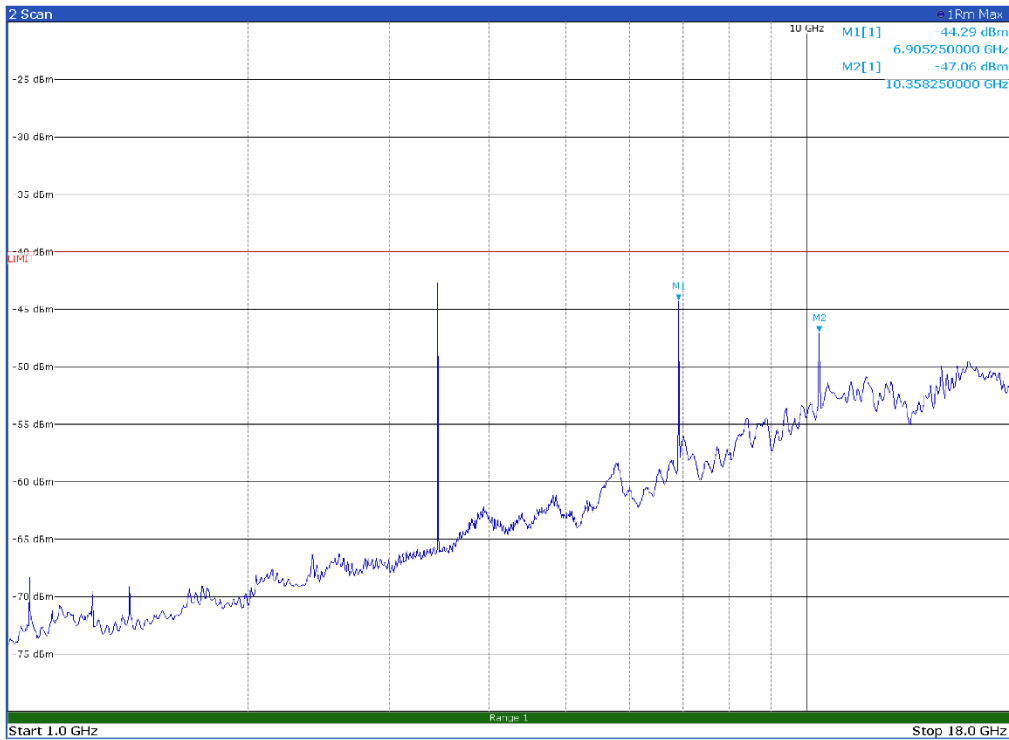
Low bandwidth signal, top channel,  
Range: 30 MHz-1000 MHz, Polarization: Horizontal



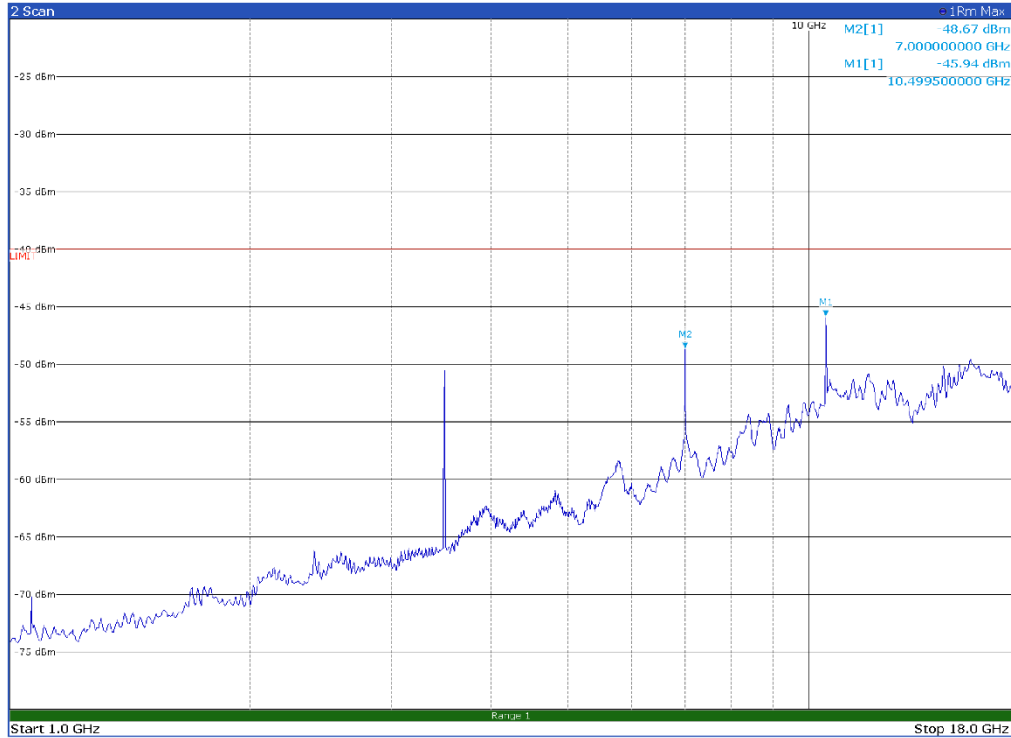
Low bandwidth signal, top channel,  
Range: 30 MHz-1000 MHz, Polarization: Vertical



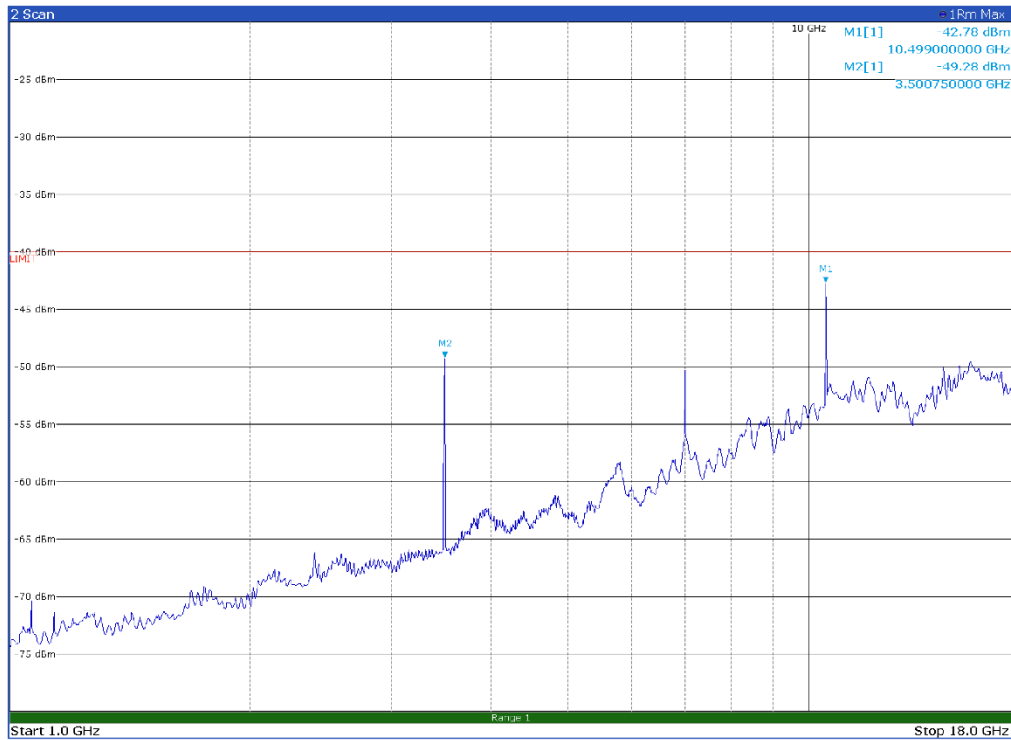
**Low bandwidth signal, bottom channel,  
Range: 1 GHz-18 GHz, Polarization: Horizontal**



**Low bandwidth signal, bottom channel,  
Range: 1 GHz-18 GHz, Polarization: Vertical**

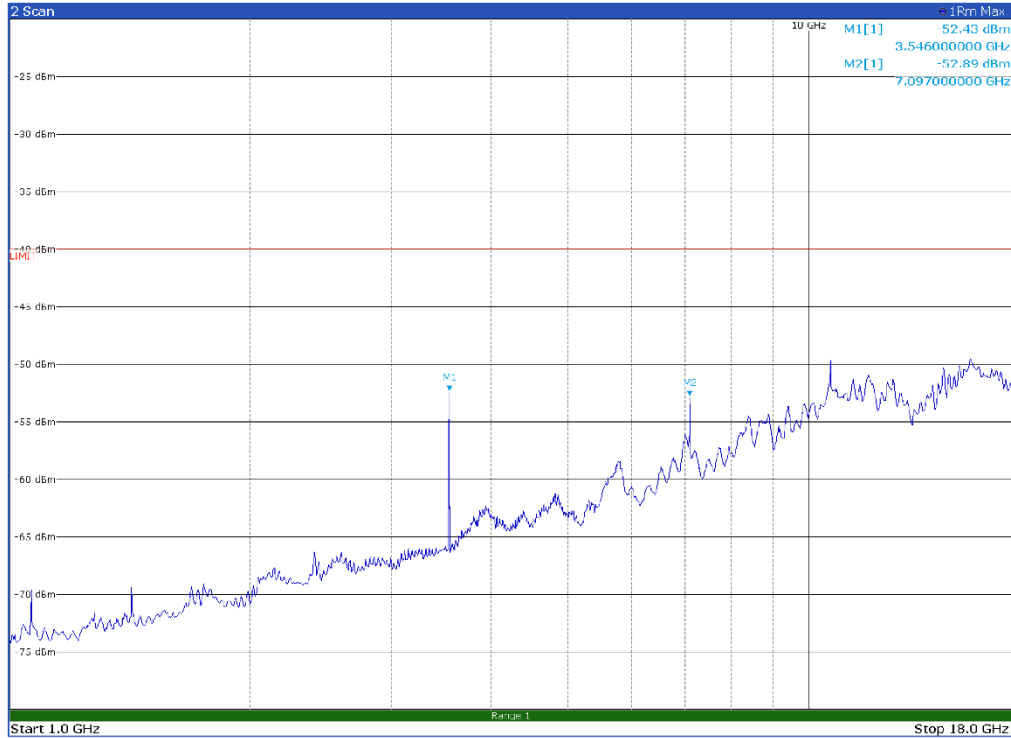


**Low bandwidth signal, middle channel,  
Range: 1 GHz-18 GHz, Polarization: Horizontal**

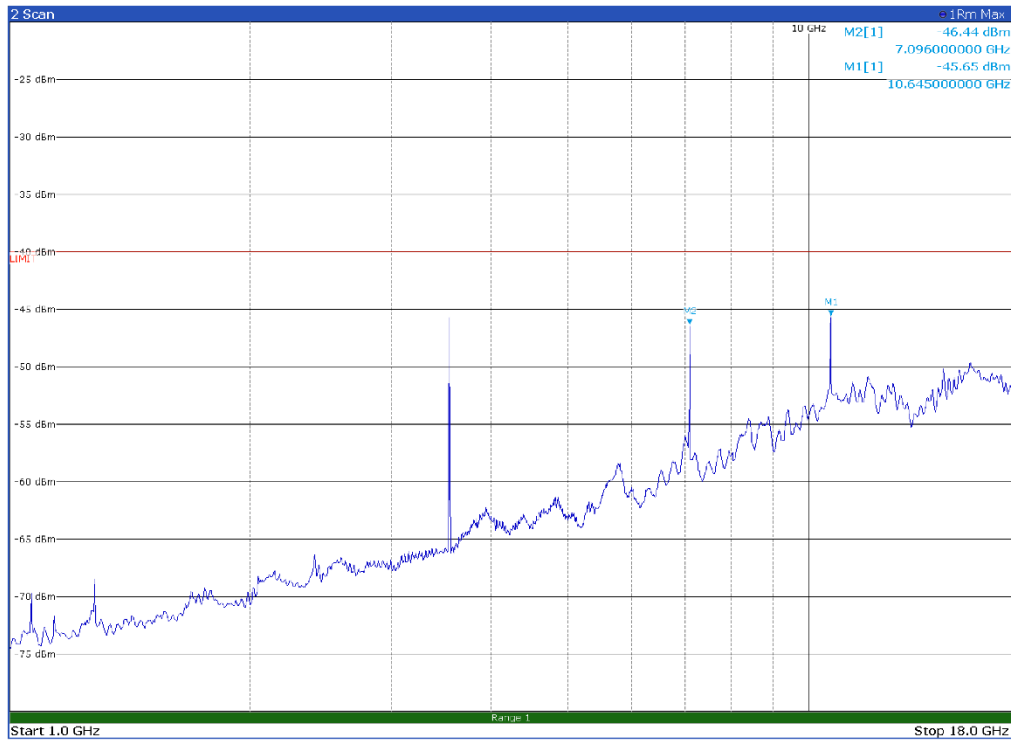


**Low bandwidth signal, middle channel,  
Range: 1 GHz-18 GHz, Polarization: Vertical**

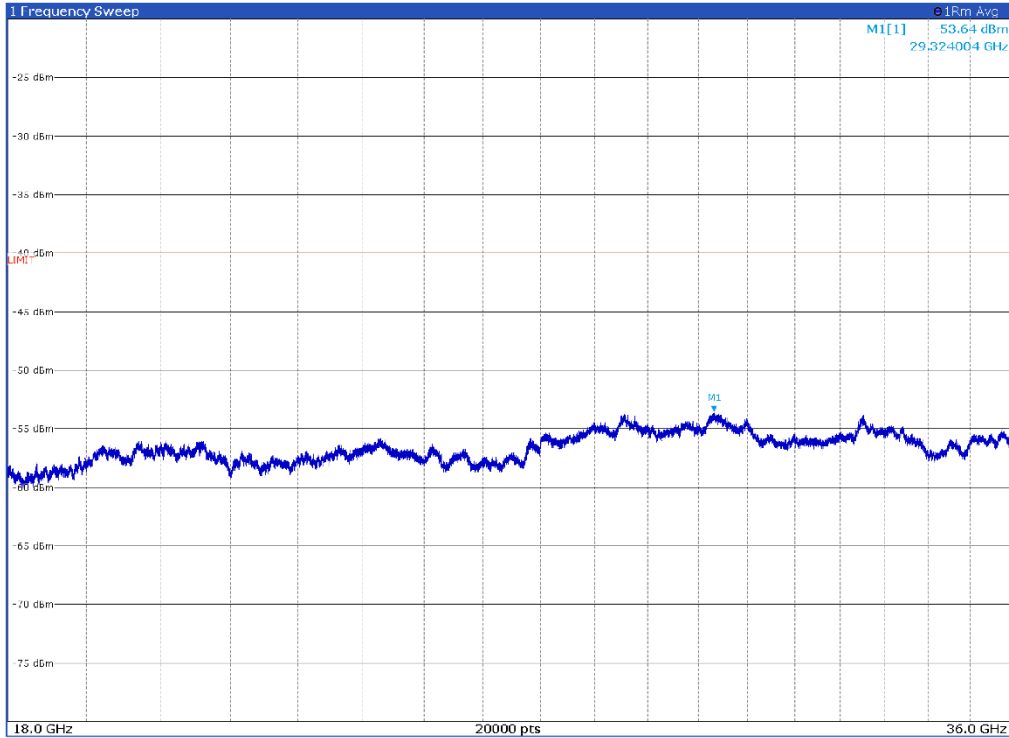




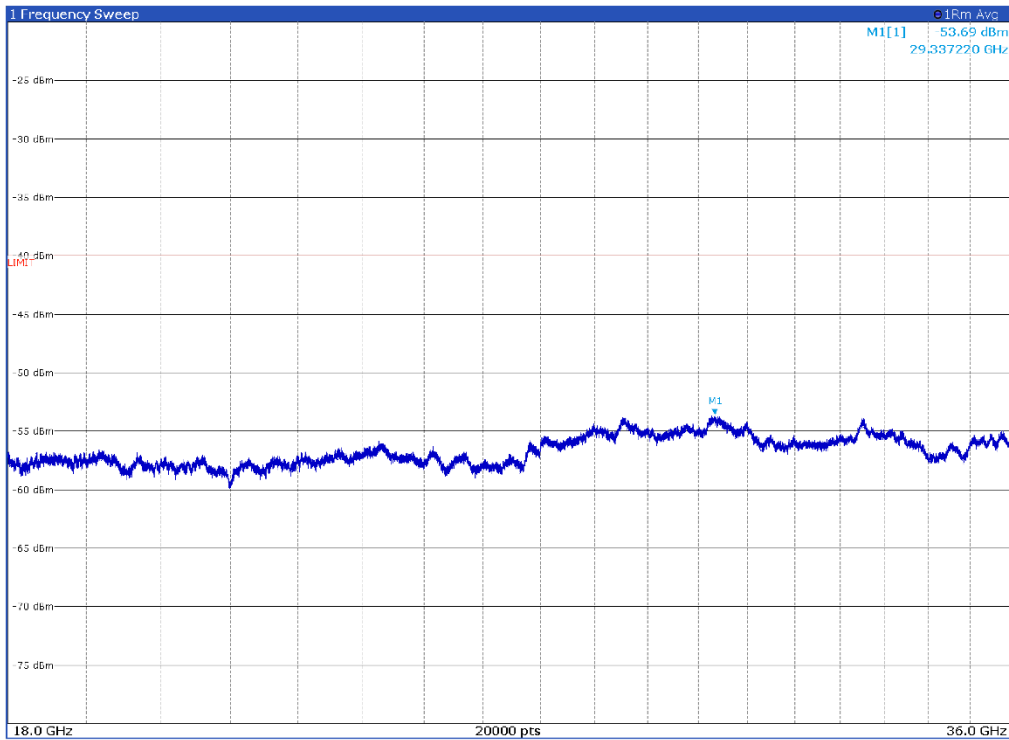
**Low bandwidth signal, top channel,  
Range: 1 GHz-18 GHz, Polarization: Horizontal**



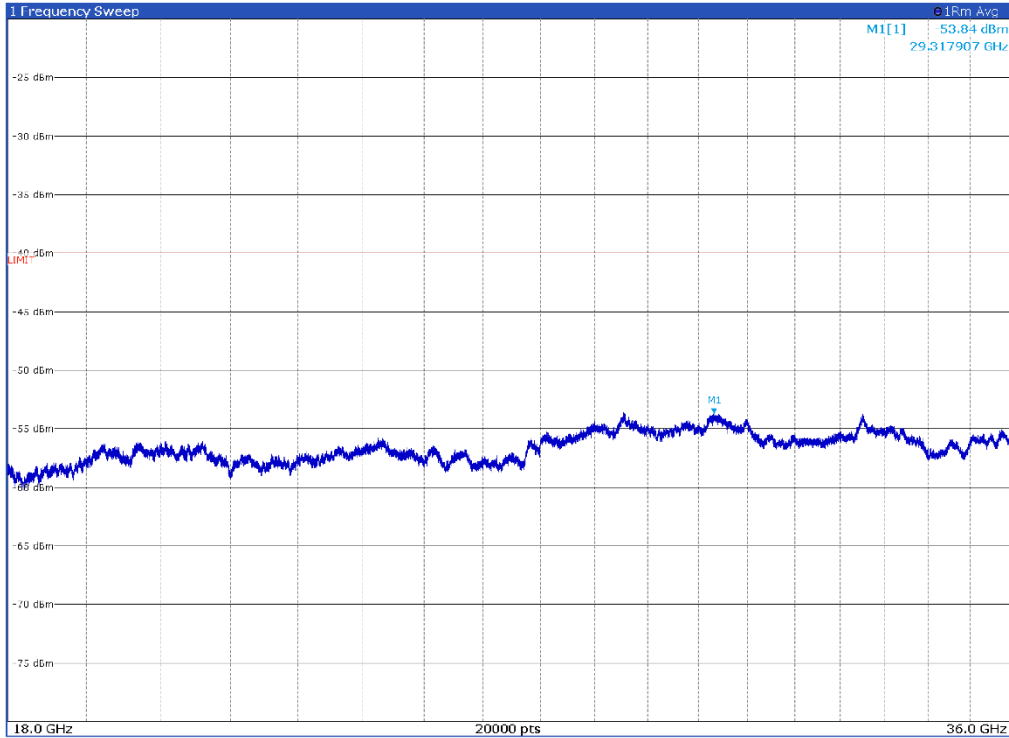
**Low bandwidth signal, top channel,  
Range: 1 GHz-18 GHz, Polarization: Vertical**



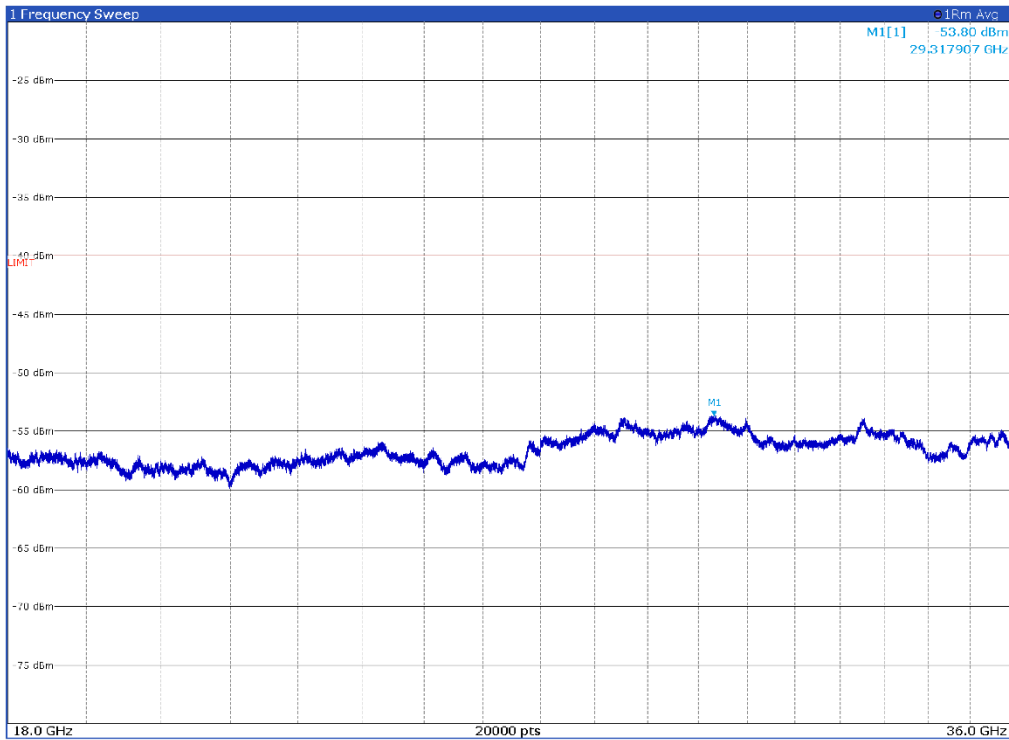
**Low bandwidth signal, bottom channel,  
Range: 18 GHz-36 GHz, Polarization: Horizontal**



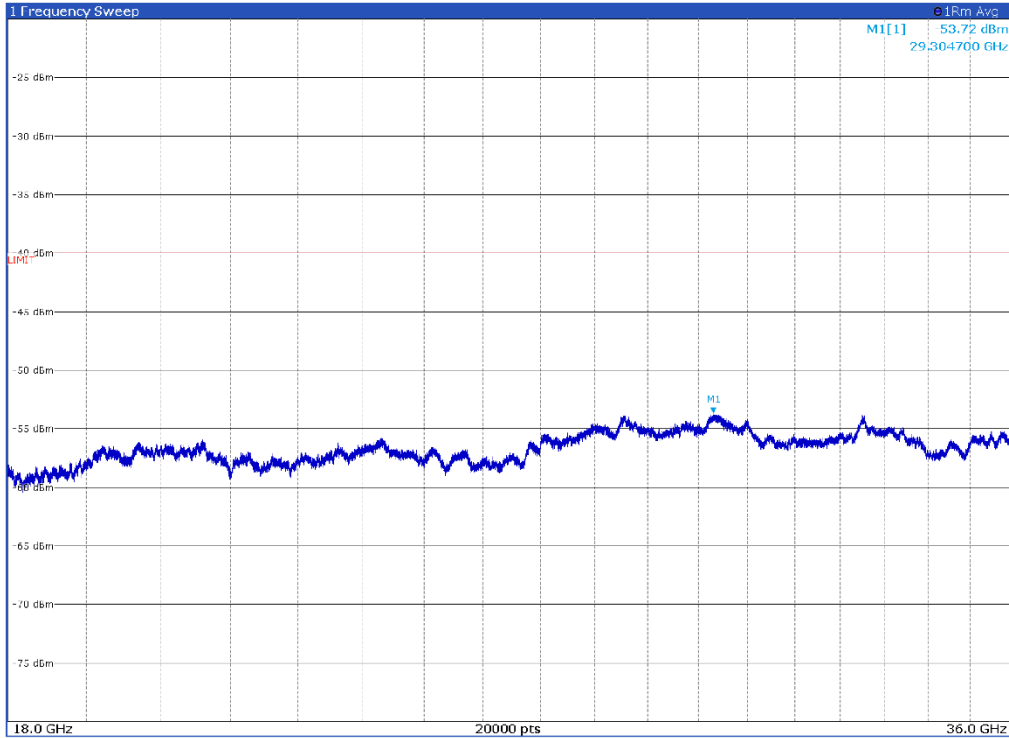
**Low bandwidth signal, bottom channel,  
Range: 18 GHz-36 GHz, Polarization: Vertical**



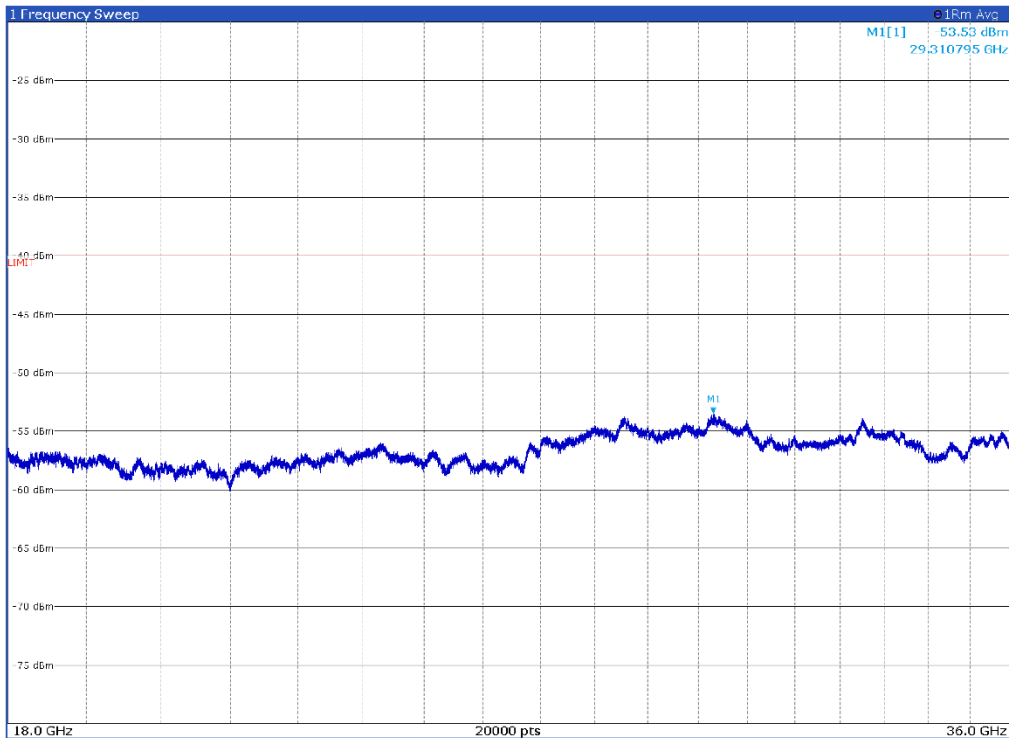
**Low bandwidth signal, middle channel,  
Range: 18 GHz-36 GHz, Polarization: Horizontal**



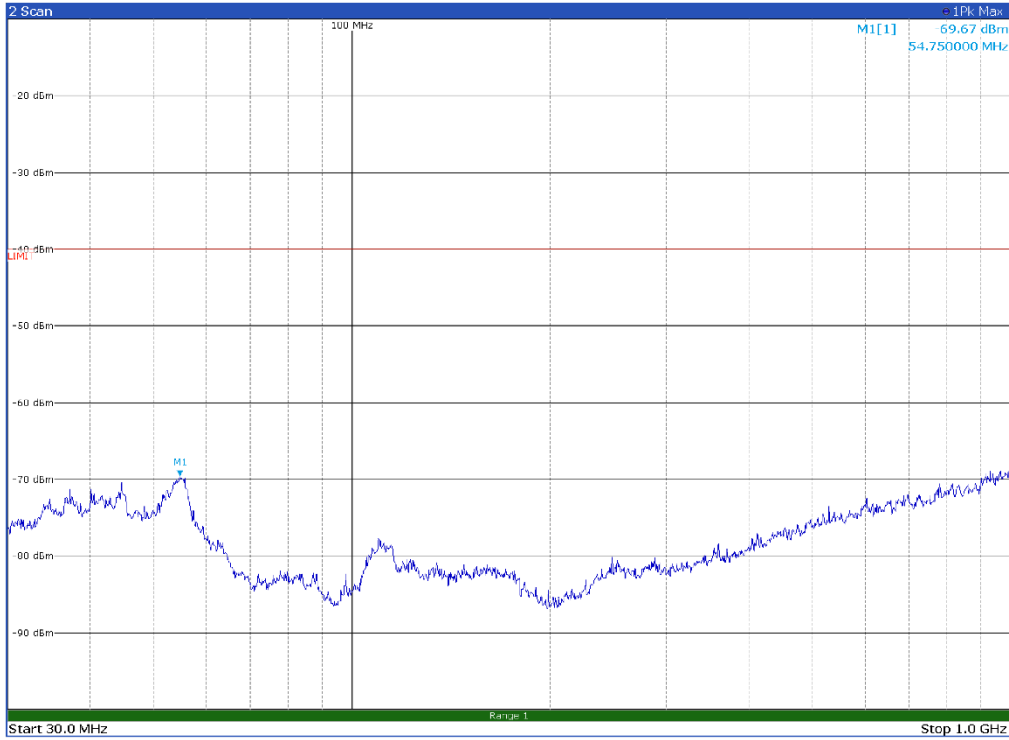
**Low bandwidth signal, middle channel,  
Range: 18 GHz-36 GHz, Polarization: Vertical**



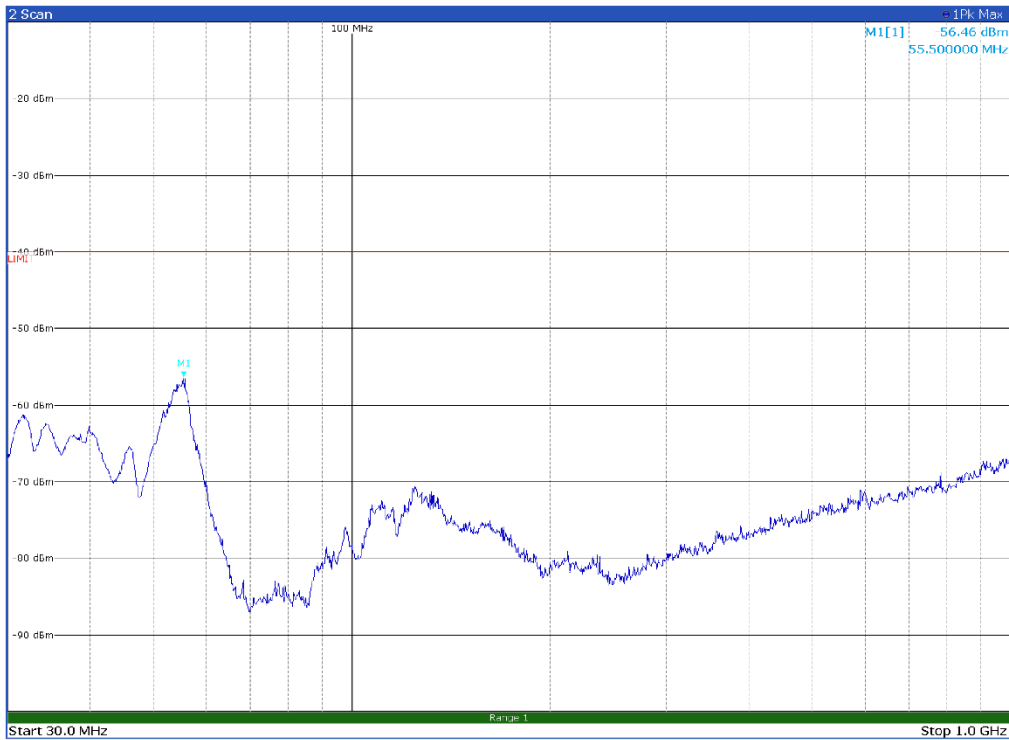
Low bandwidth signal, top channel,  
Range: 18 GHz-36 GHz, Polarization: Horizontal



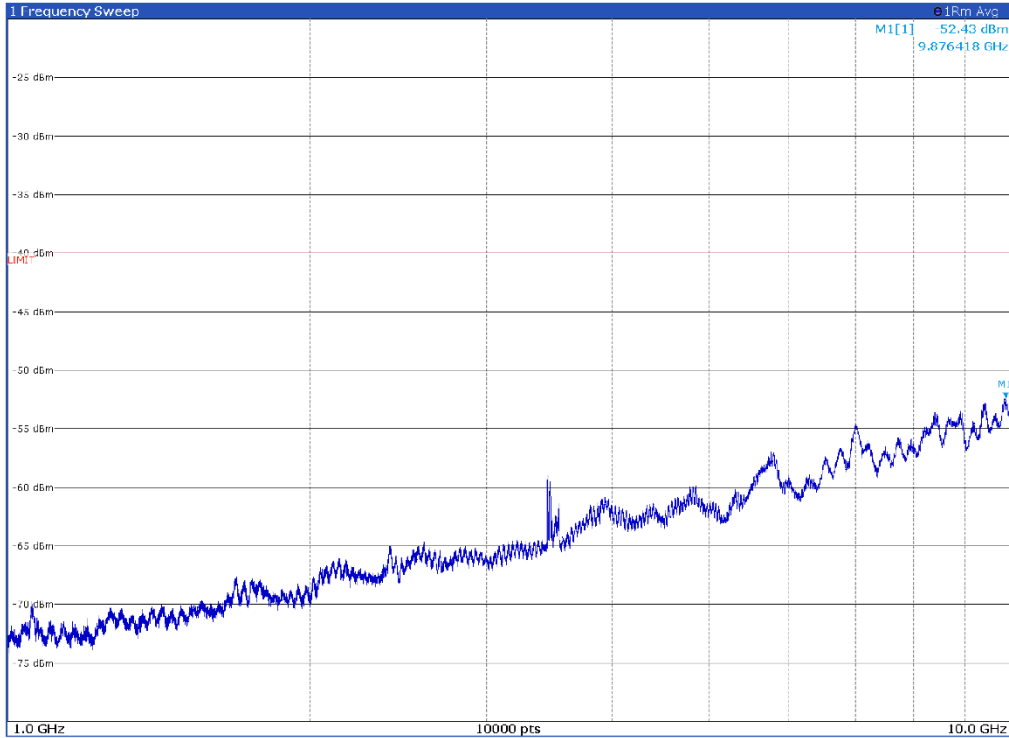
Low bandwidth signal, top channel,  
Range: 18 GHz-36 GHz, Polarization: Vertical



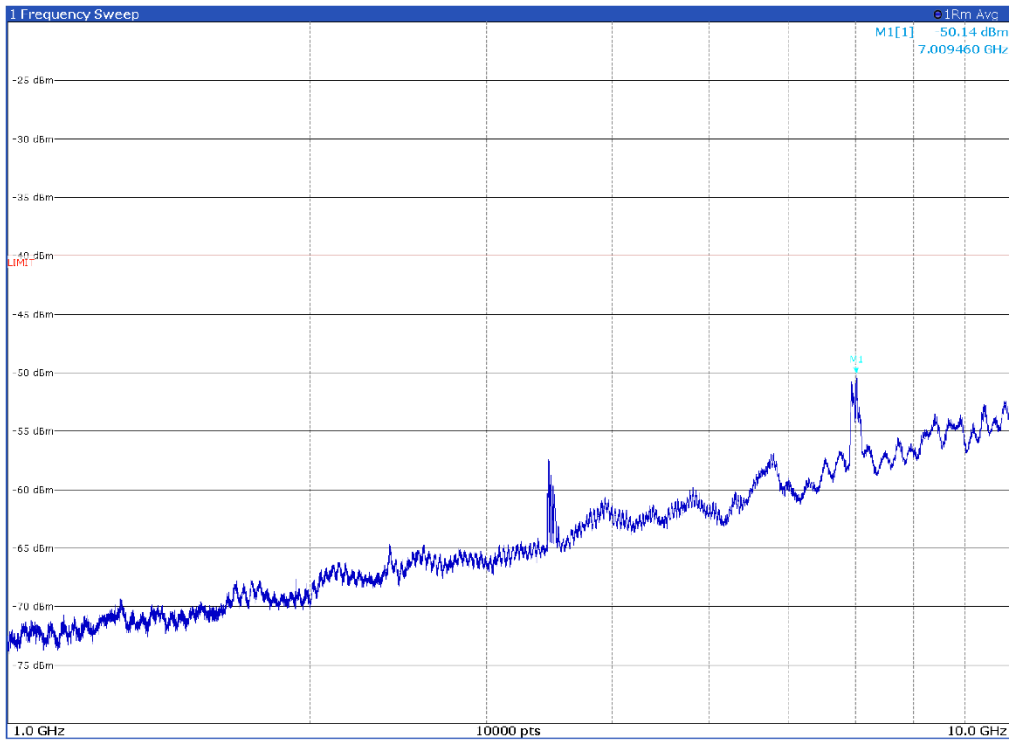
**100 MHz signal, bottom=middle=top channel,  
Range: 30 MHz-1000 MHz, Polarization: Horizontal**



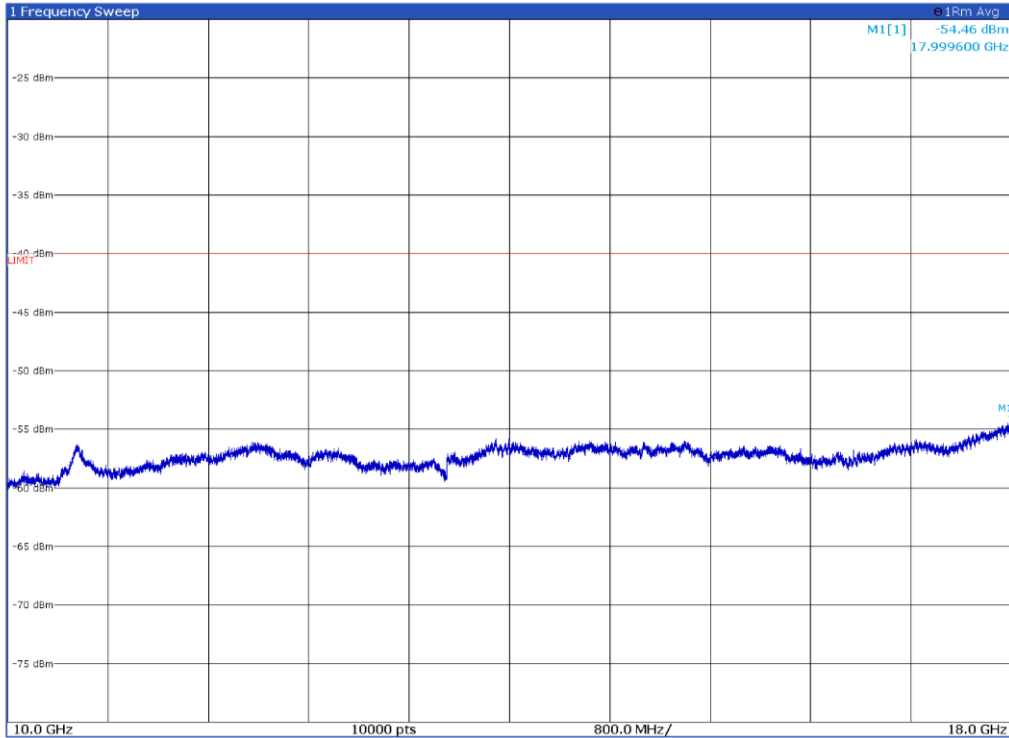
**100 MHz signal, bottom=middle=top channel,  
Range: 30 MHz-1000 MHz, Polarization: Vertical**



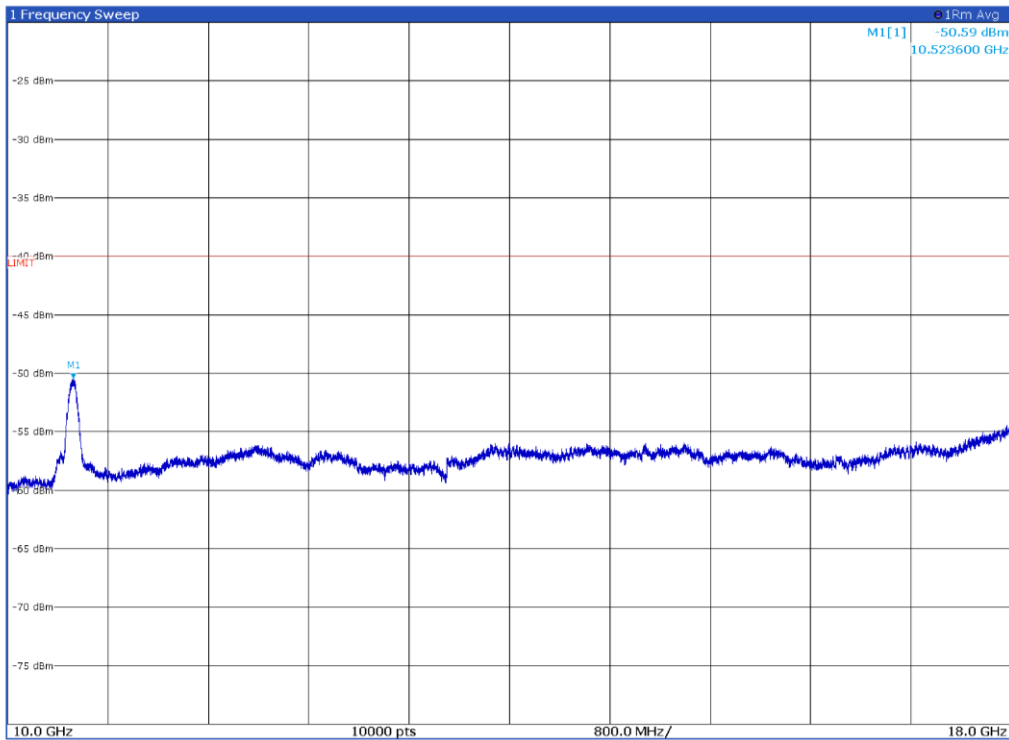
**100 MHz signal, bottom=middle=top channel,  
Range: 1 GHz-10 GHz, Polarization: Horizontal**



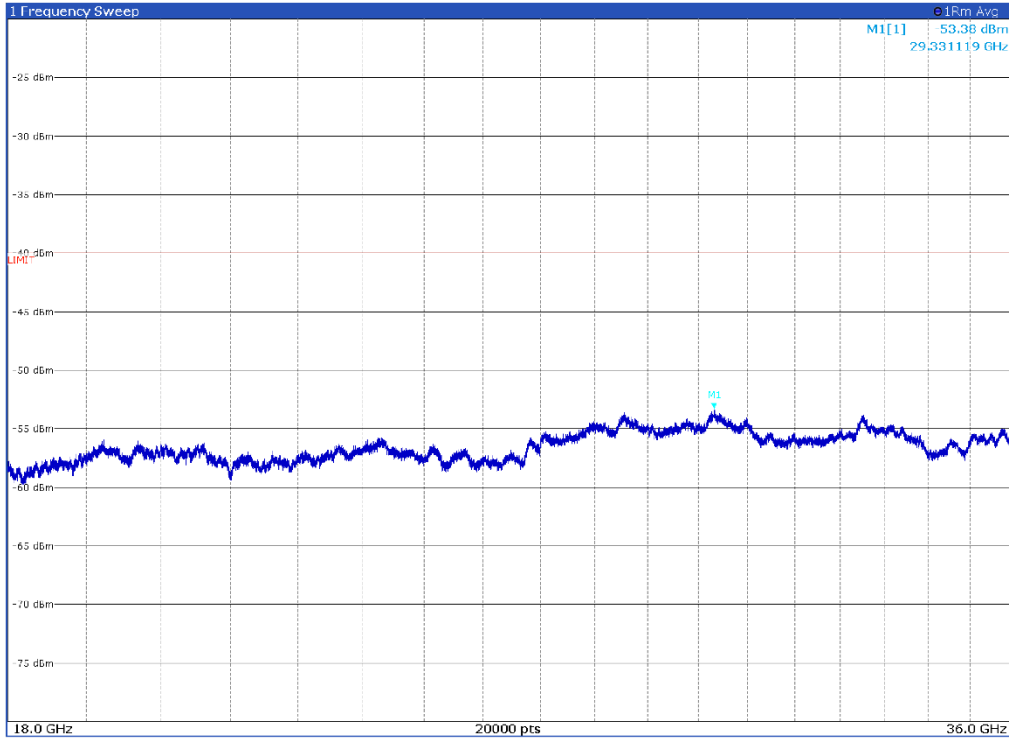
**100 MHz signal, bottom=middle=top channel,  
Range: 1 GHz-10 GHz, Polarization: Vertical**



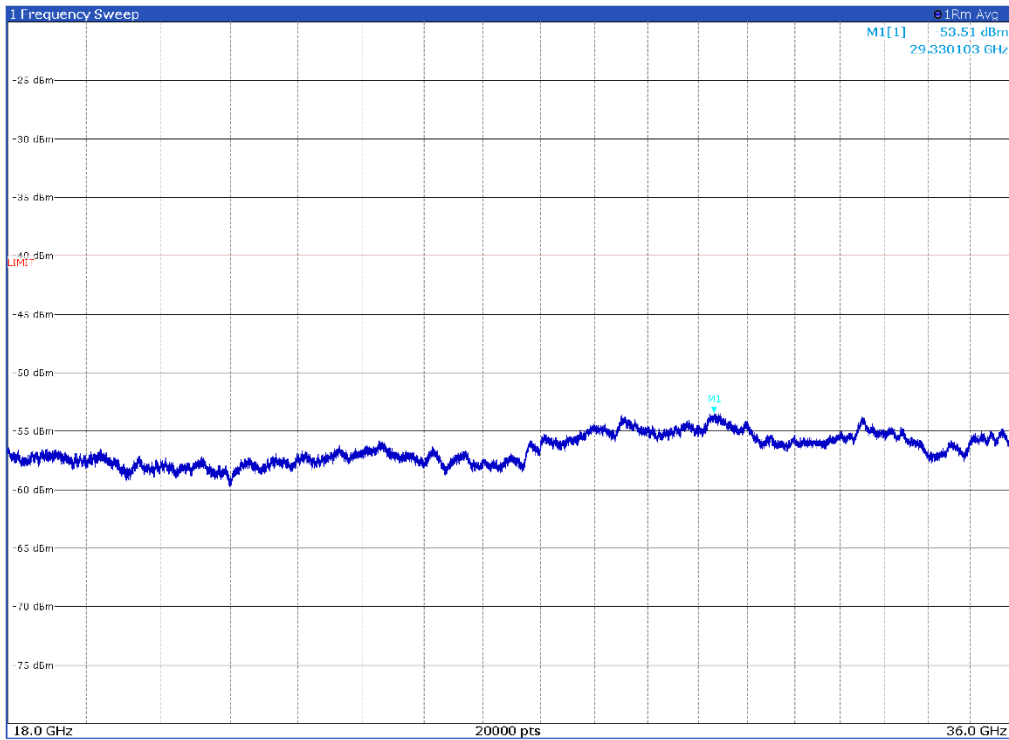
**100 MHz signal, bottom=middle=top channel,  
Range: 10 GHz-18 GHz, Polarization: Horizontal**



**100 MHz signal, bottom=middle=top channel,  
Range: 10 GHz-18 GHz, Polarization: Vertical**



**100 MHz signal, bottom=middle=top channel,  
Range: 18 GHz-36 GHz, Polarization: Horizontal**

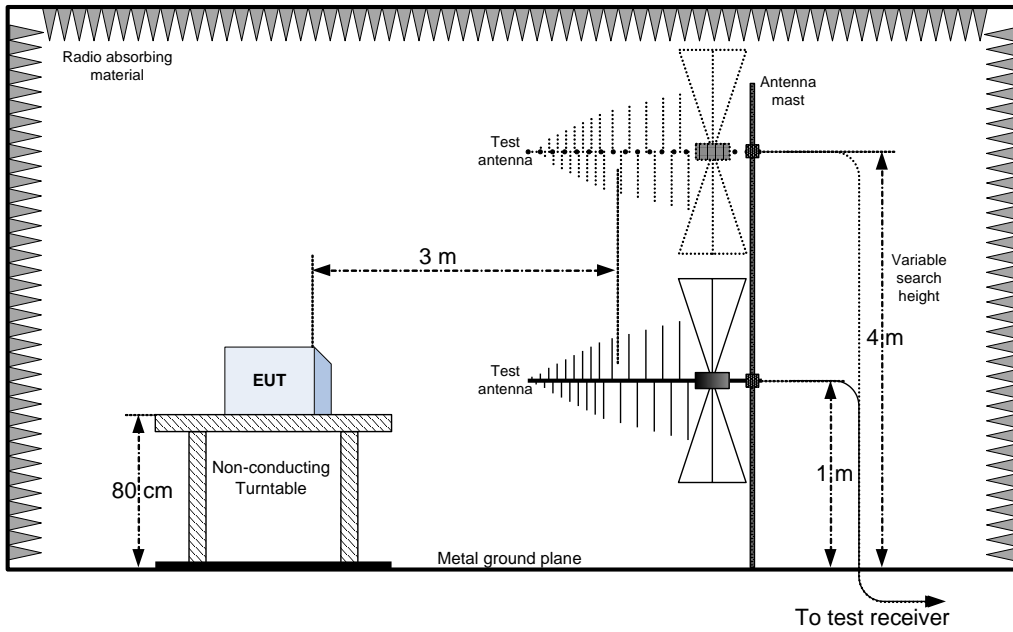


**100 MHz signal, bottom=middle=top channel,  
Range: 18 GHz-36 GHz, Polarization: Vertical**

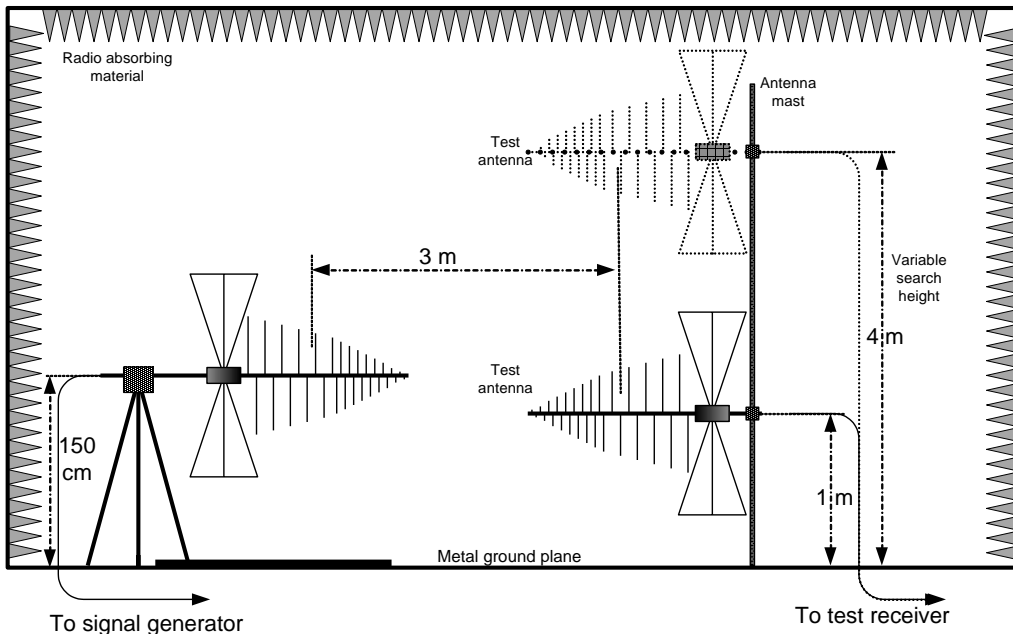


# Appendix B: Block diagrams of test set-ups

## Radiated emissions set-up

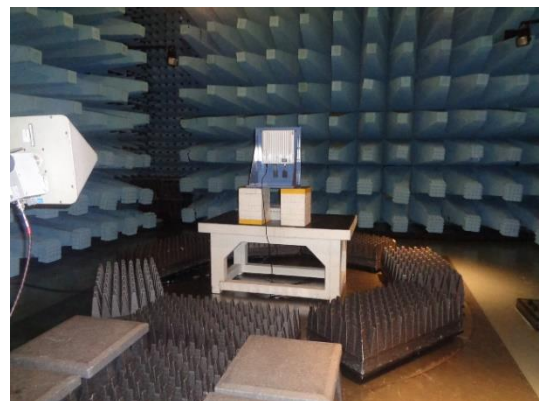
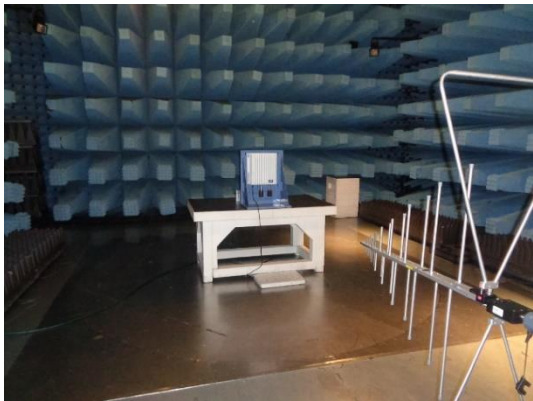
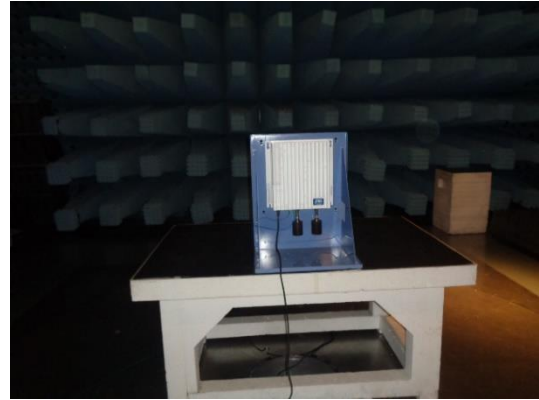
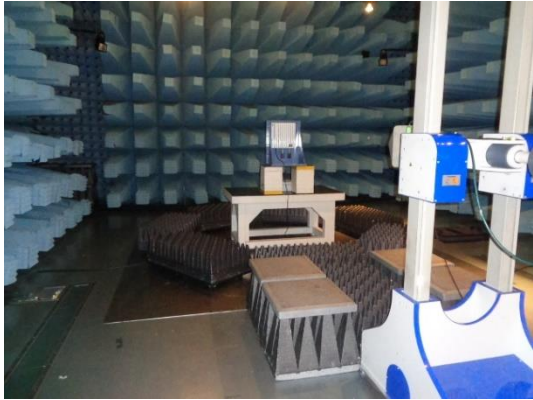


## Substitution method set-up



## Appendix C: EUT Photos

### Photo Set up



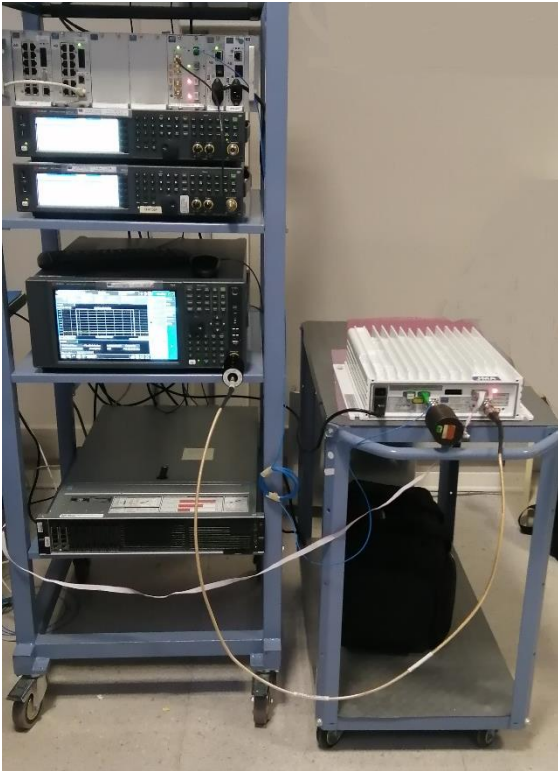
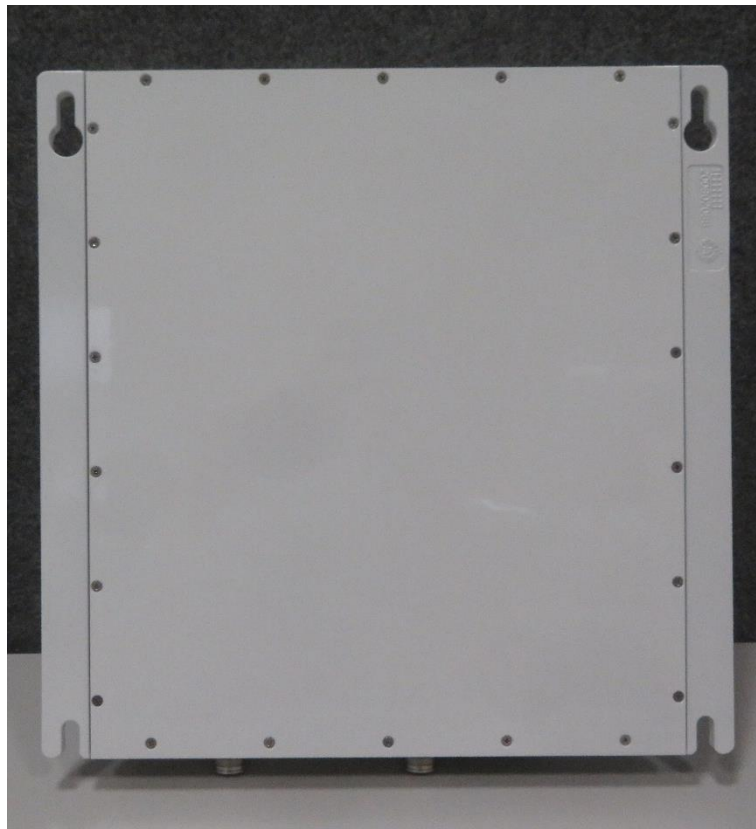
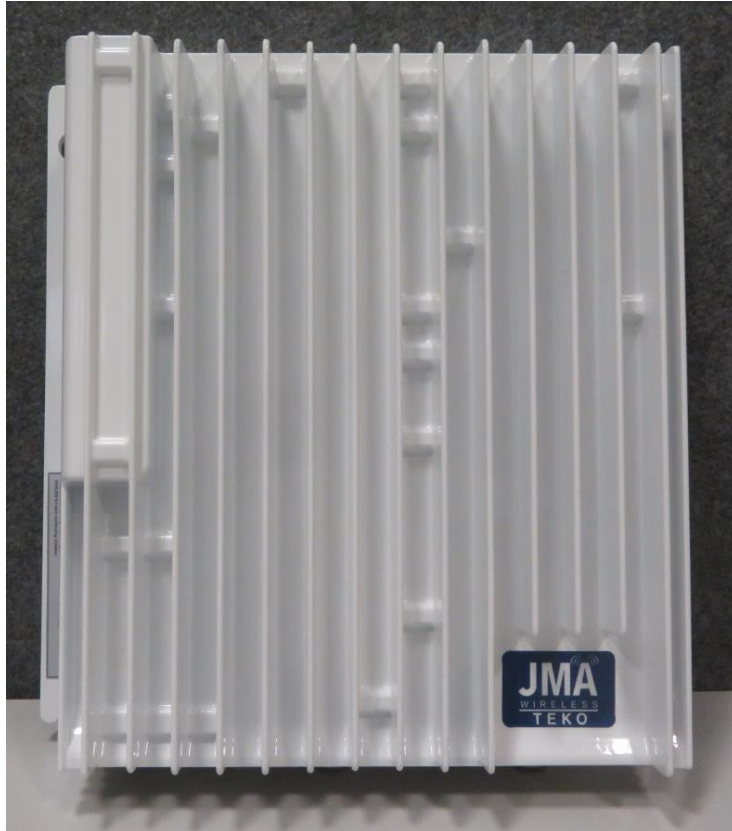
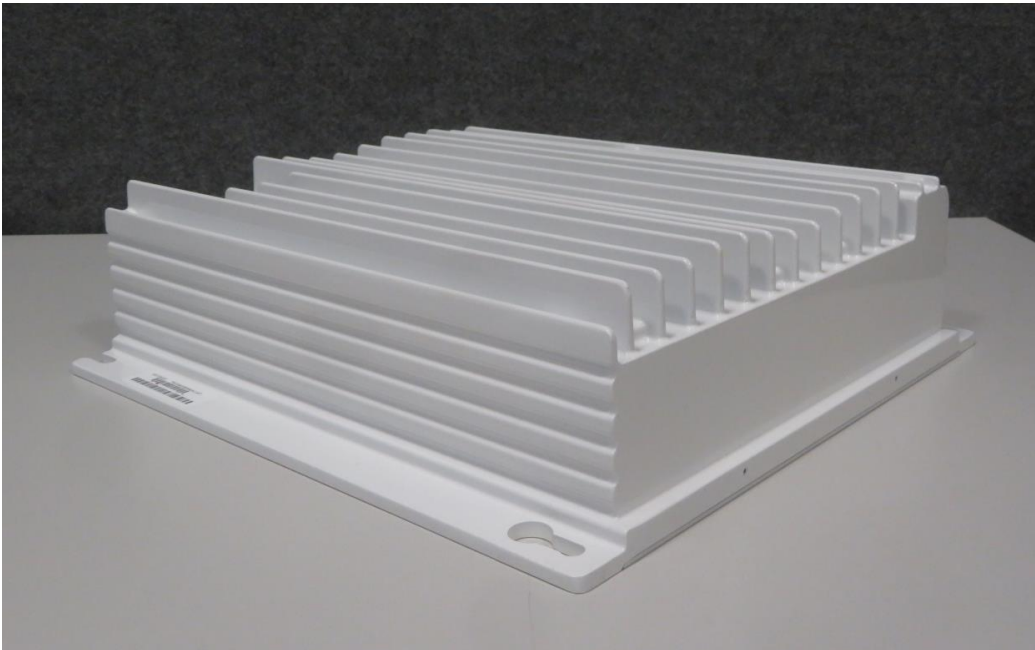


Photo EUT









- END OF REPORT -