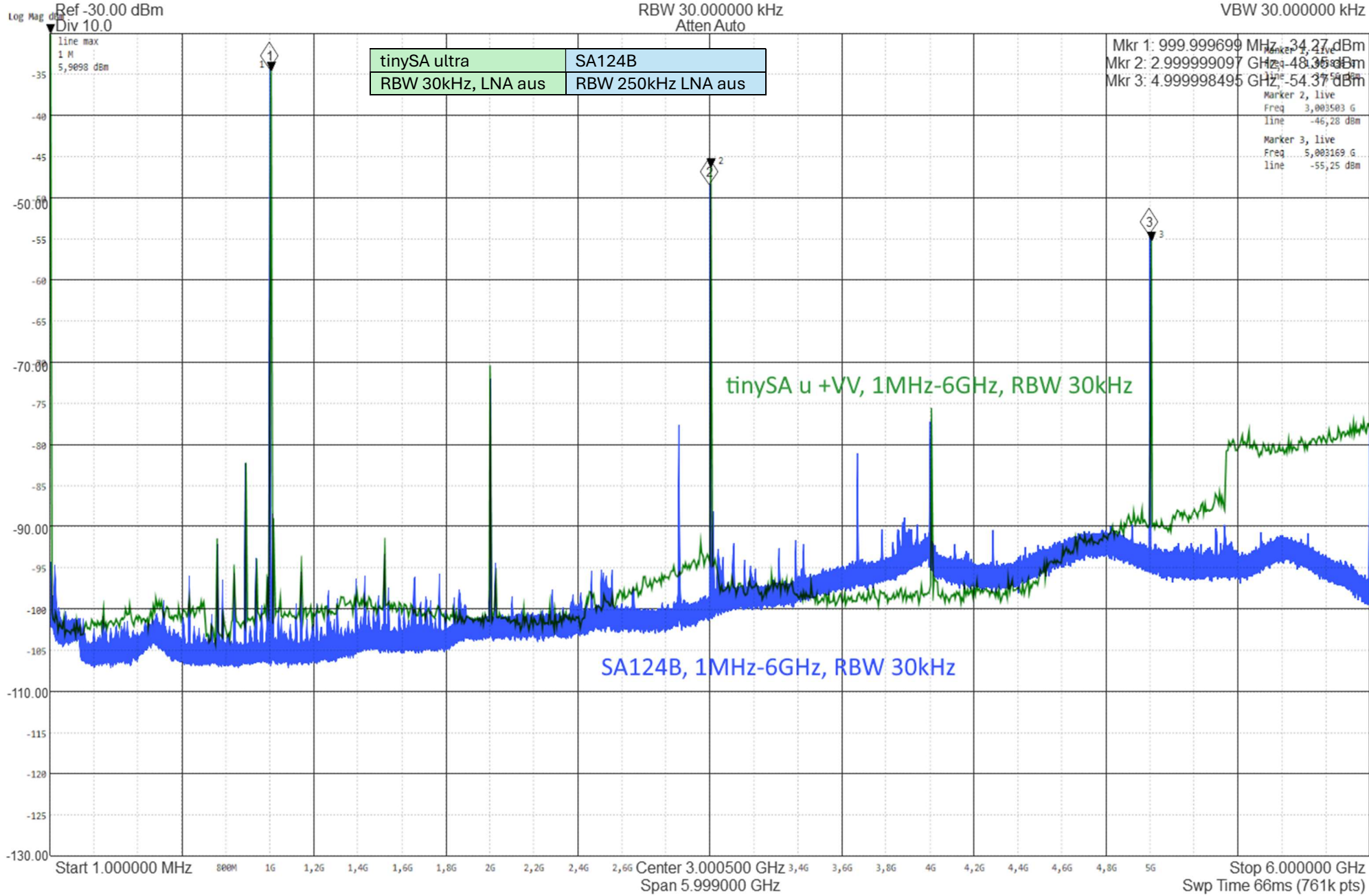


Breitband 1MHz-6GHz



Breitband 5GHz-9,9GHz



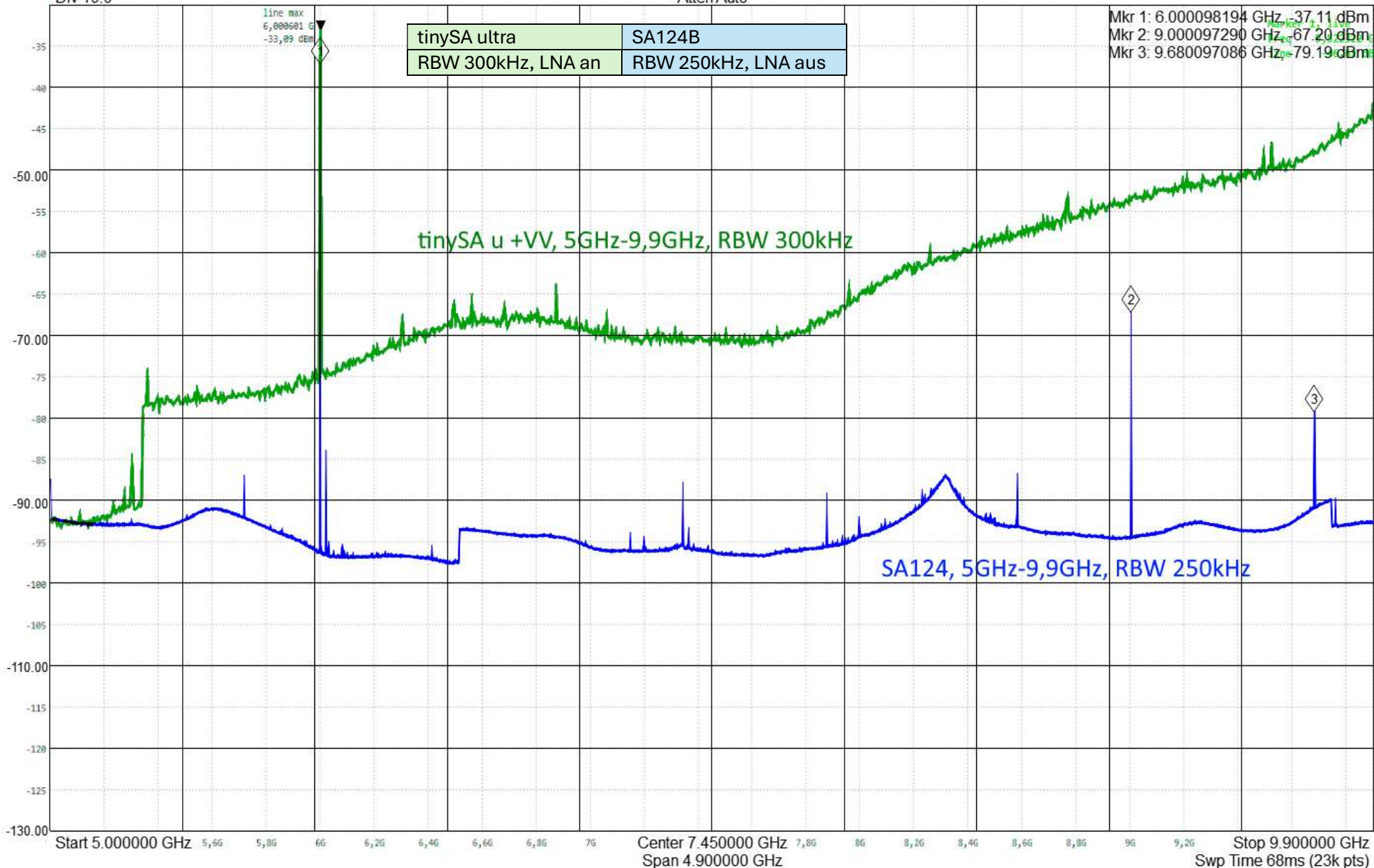
Fr 04 Okt 2024 01:23:59

Version 3.9.6

Log Mag dBm
Ref -30.00 dBm
Div 10.0

RBW 250.000000 kHz
Atten Auto

VBW 250.000000 kHz

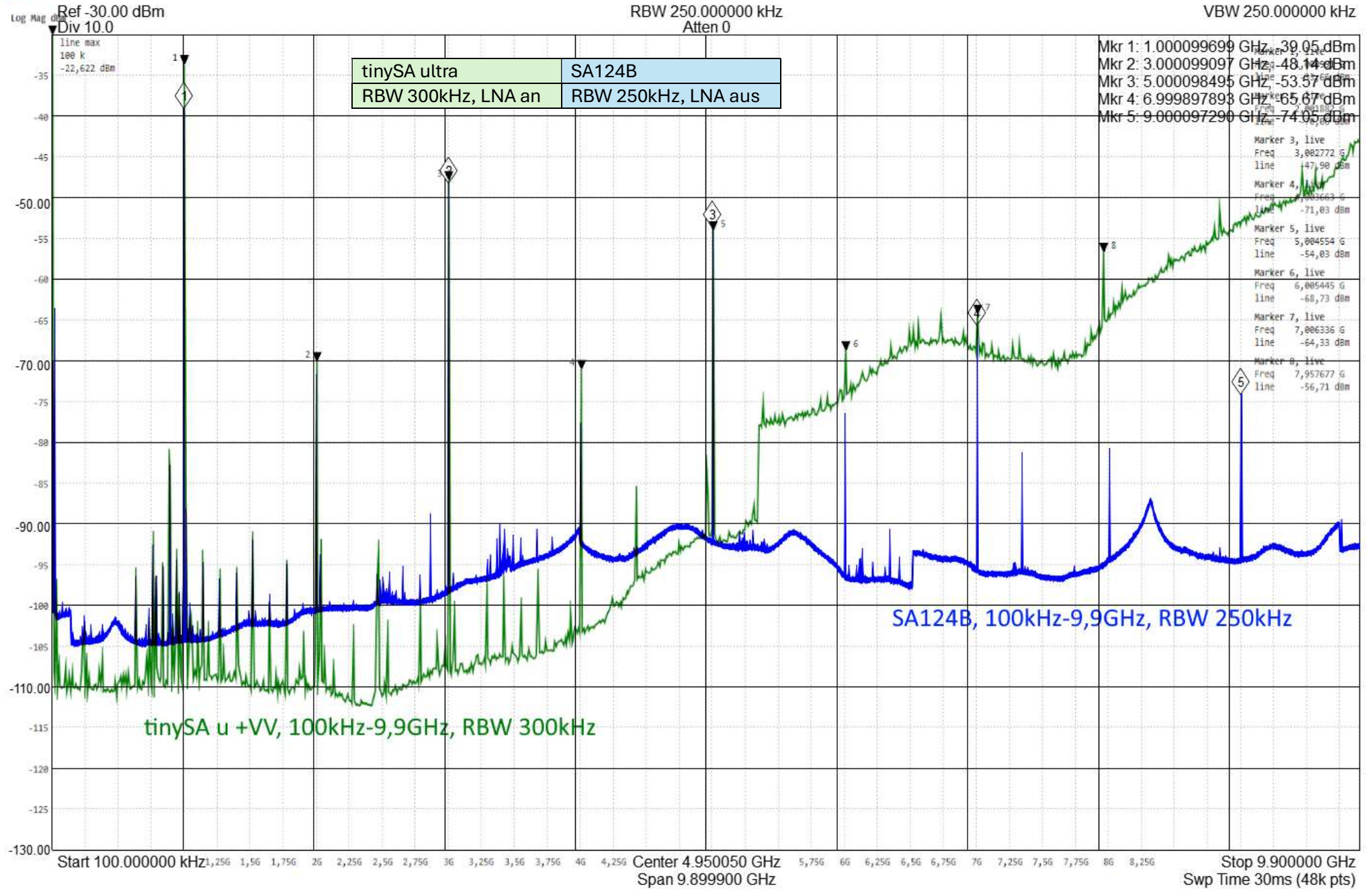


Breitband 100kHz-9,9GHz

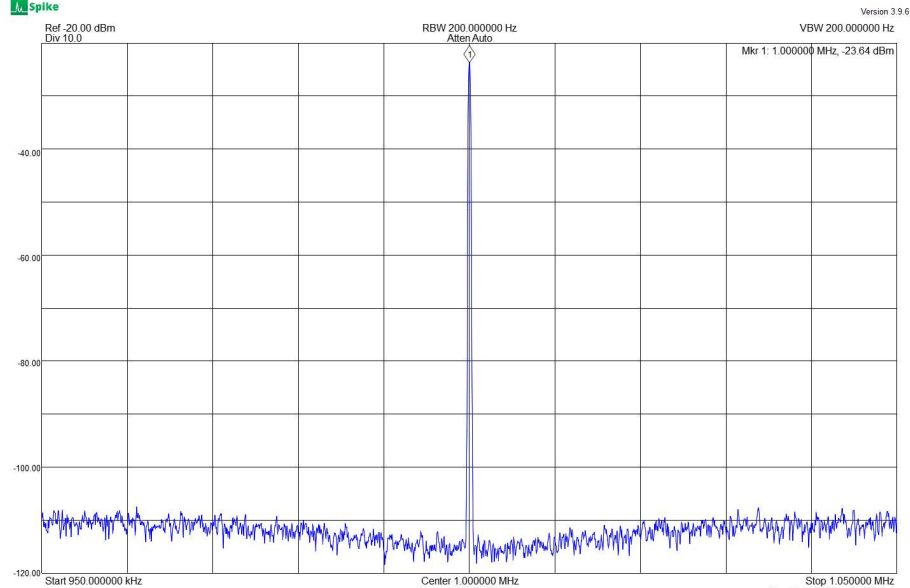
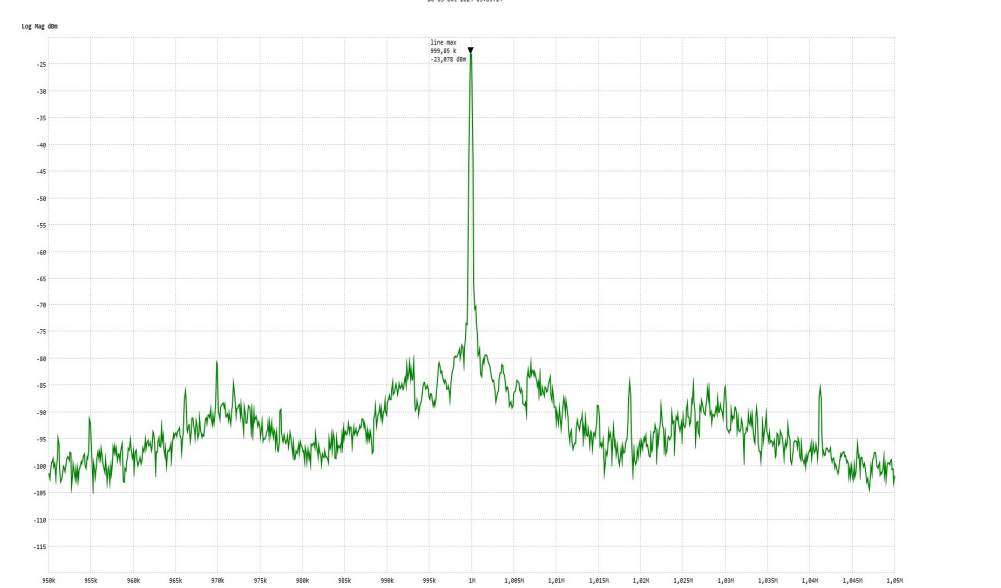


Fr 04 Okt 2024 01:41:16

Version 3.9.6



Schmalband: Signalpegel im Vergleich, RBW 200Hz, Signalquelle: TG124A, 100kHz - 12,4GHz

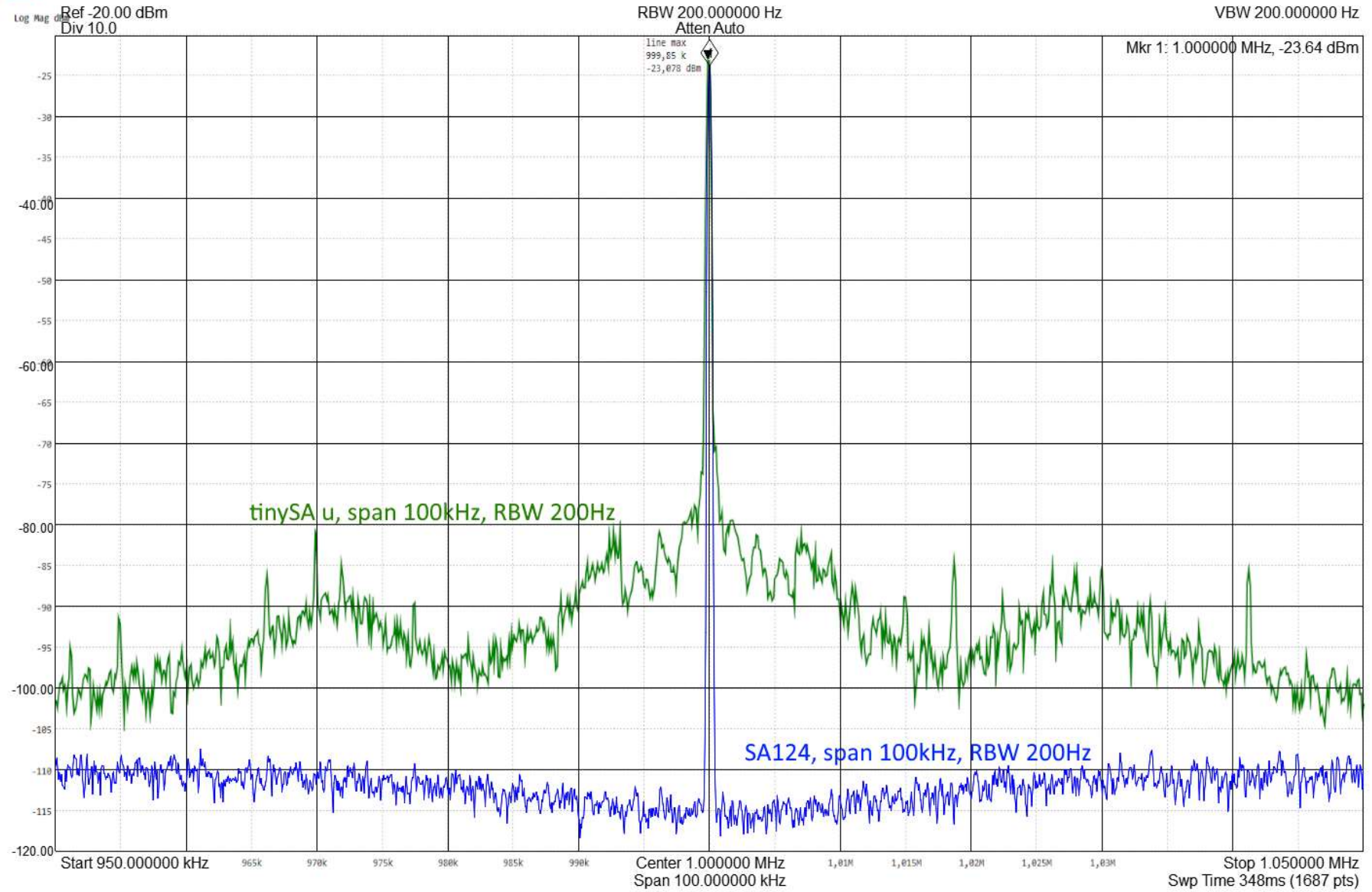
	<p>SA124B, SN 18240374, FW 3.13</p> <p>span 100kHz ref -20dBm RBW 200Hz VBW 200Hz averaging 10 att auto</p>	<p>TinySA ultra 1.51774.5.1, SN SU-23050306, HW V0.4.5.1</p> <p>span 100kHz ref -20dBm RBW 200Hz VBW 200Hz averaging 8 att 0dB</p>
<p>1MHz</p>	 <p>Spitze</p> <p>Ref -20.00 dBm Div 10.0</p> <p>RBW 200.000000 Hz VBW 200.000000 Hz</p> <p>Mkr 1: 1.000000 MHz, -23.64 dBm</p> <p>Version 3.9.6</p> <p>Start 950.000000 kHz Center 1.000000 MHz Span 100.000000 kHz Stop 1.050000 MHz Swp Time 348ms (1687 pts)</p>	 <p>Log Mag dBm</p> <p>1.000 MHz -23.675 dBm</p> <p>00:03:04.2024 05:09:14</p> <p>950k 955k 960k 965k 970k 975k 980k 985k 990k 995k 1.000k 1.005k 1.010k 1.015k 1.020k 1.025k 1.030k 1.035k 1.040k 1.045k 1.050k</p>

1MHz
Vergleich



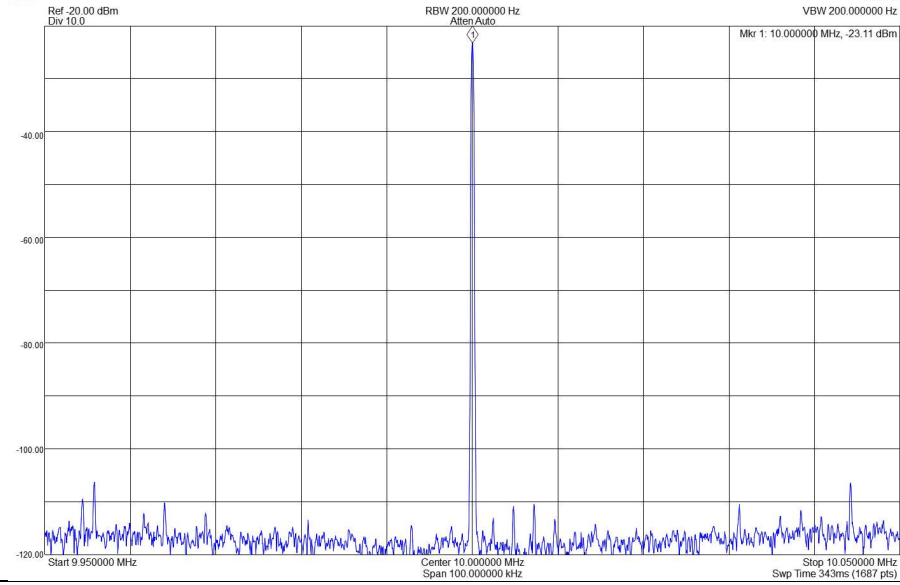
Do 03 Okt 2024 05:05:14

Version 3.9.6

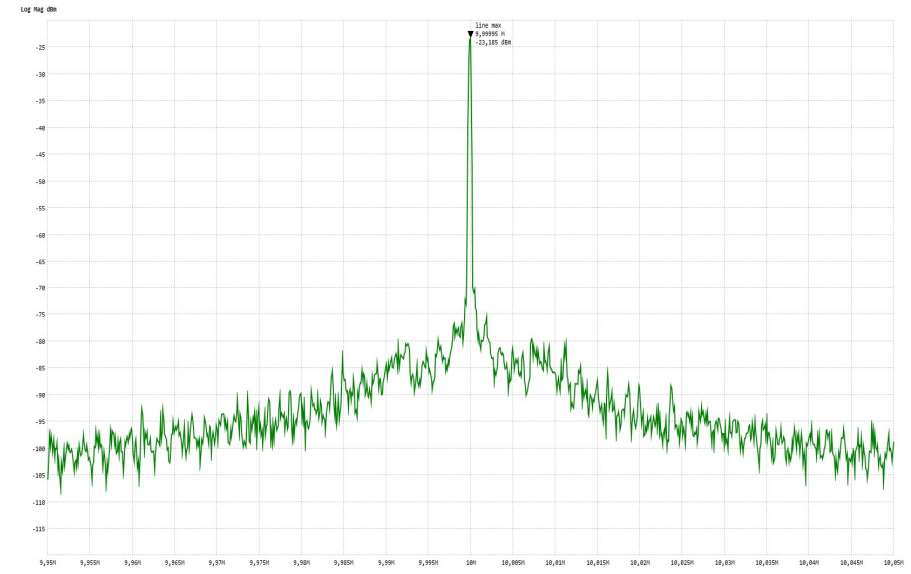


10MHz

Spike



DO: 8/1/2024 05:02:24

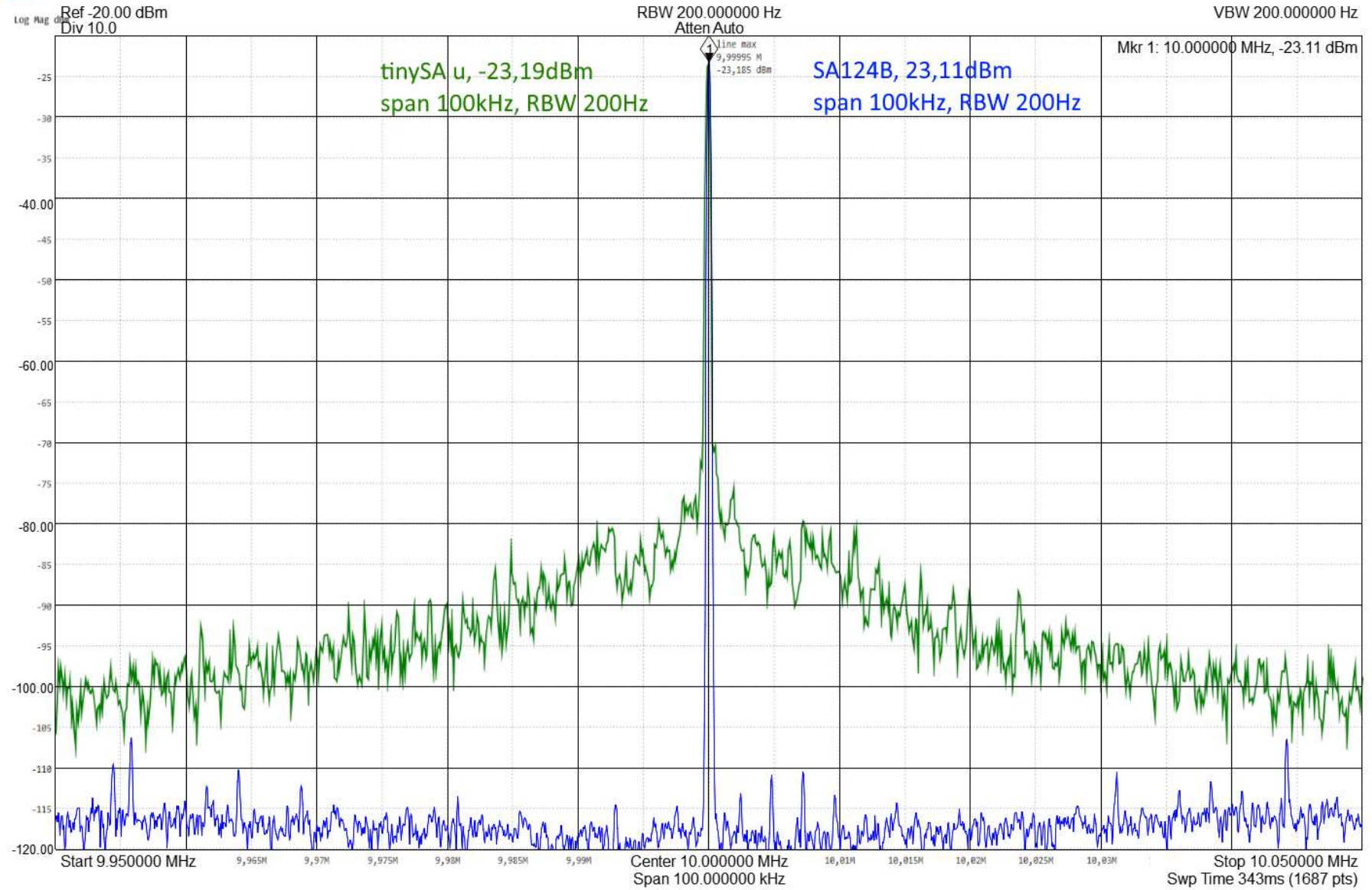


10 MHz
Vergleich



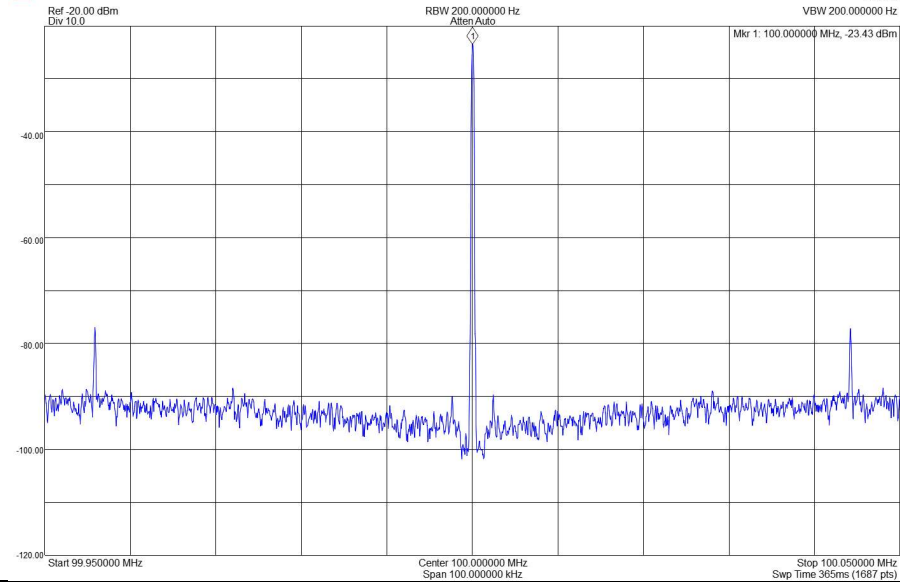
Do 03 Okt 2024 05:02:24

Version 3.9.6

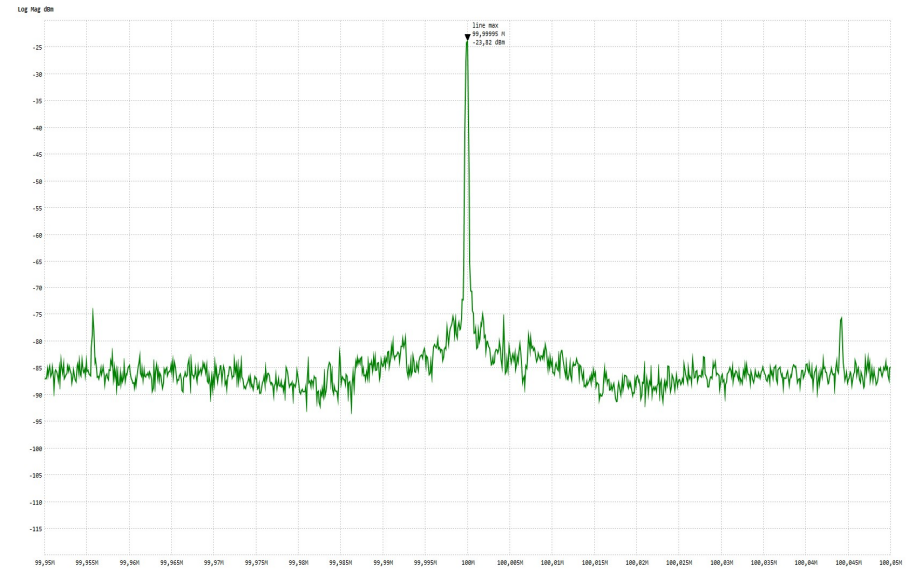


100MHz

Spikes



DO: 8/1/2024 04:15:16

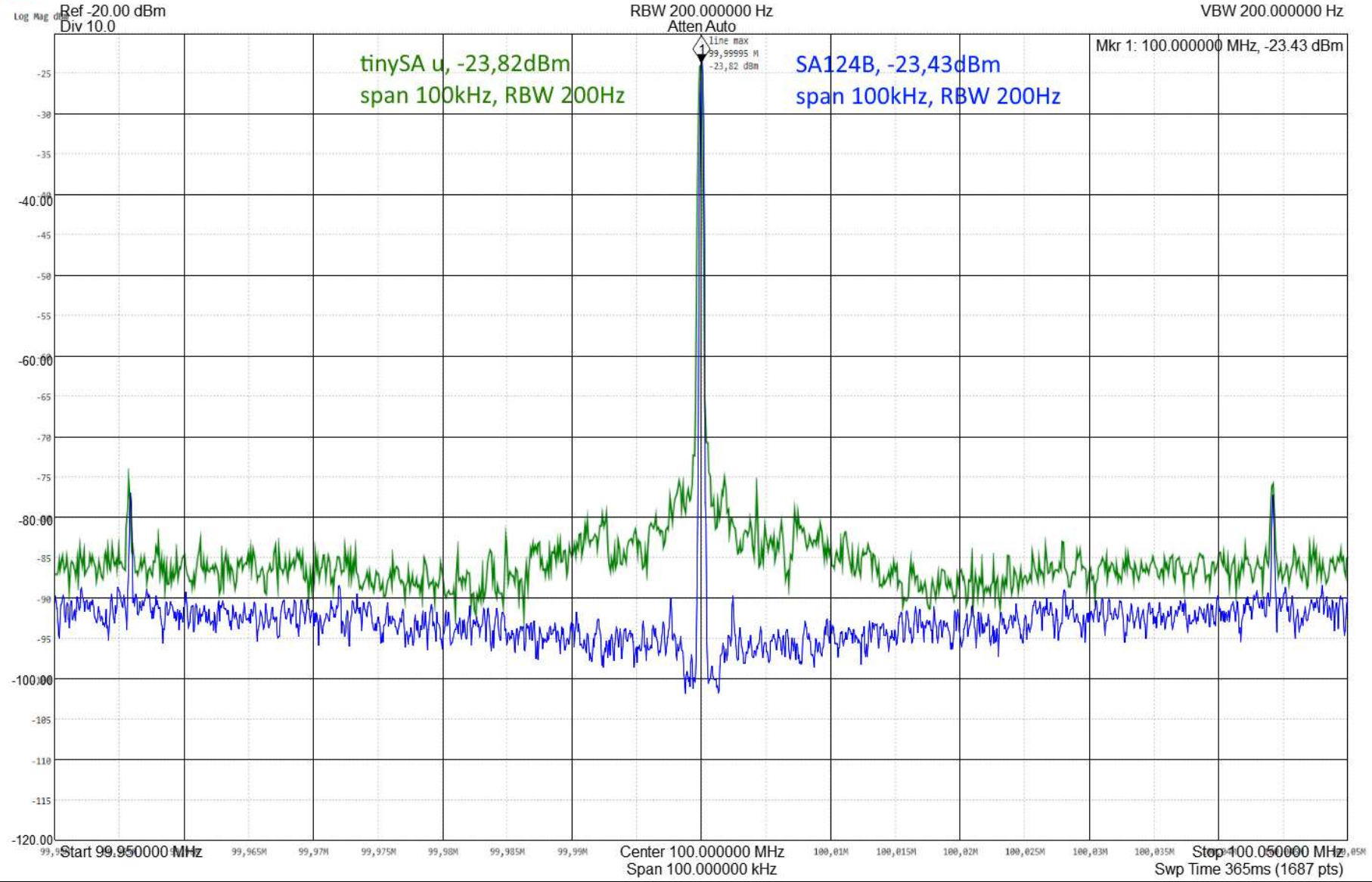


100MHz
Vergleich

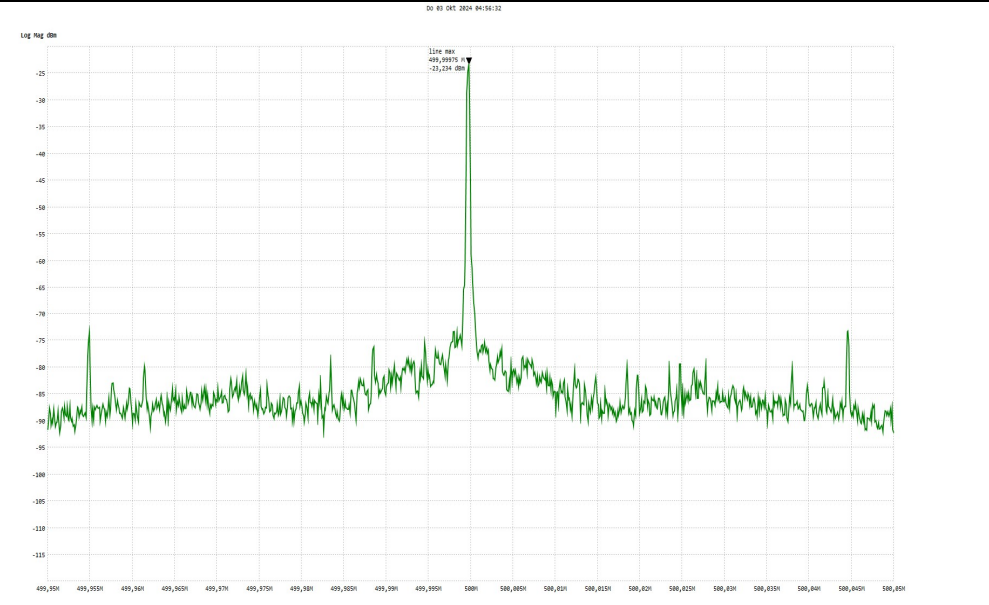
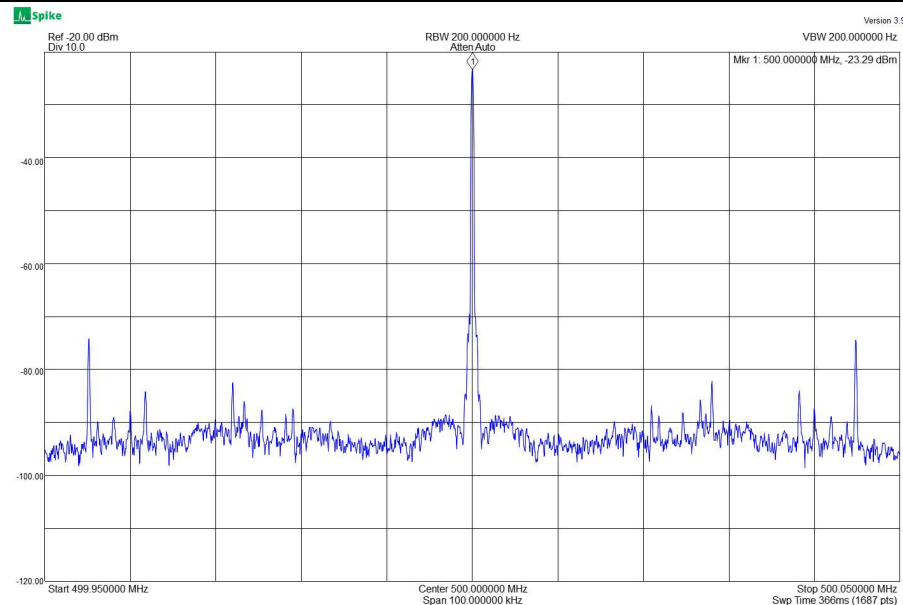


Do 03 Okt 2024 04:59:36

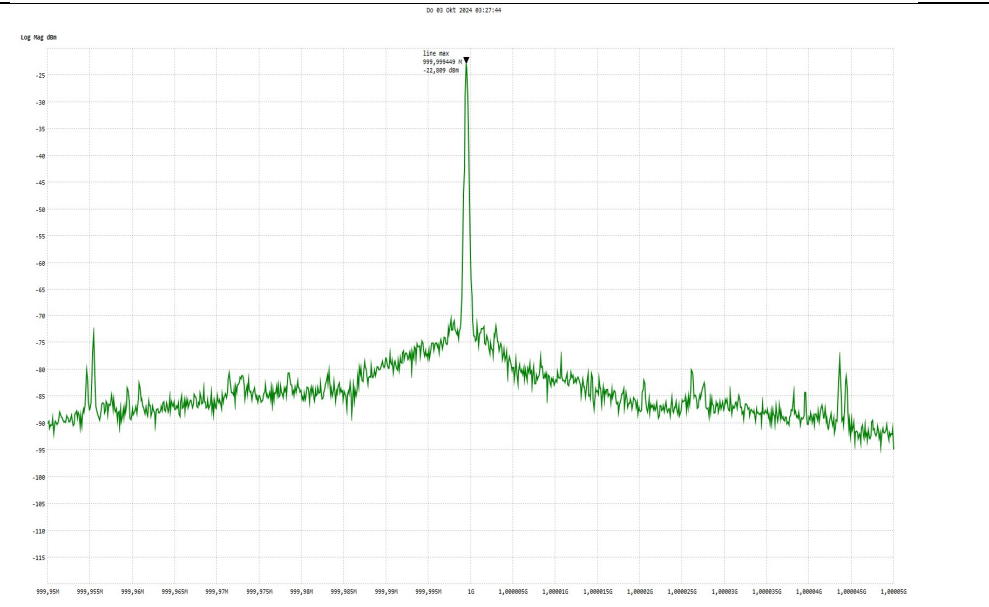
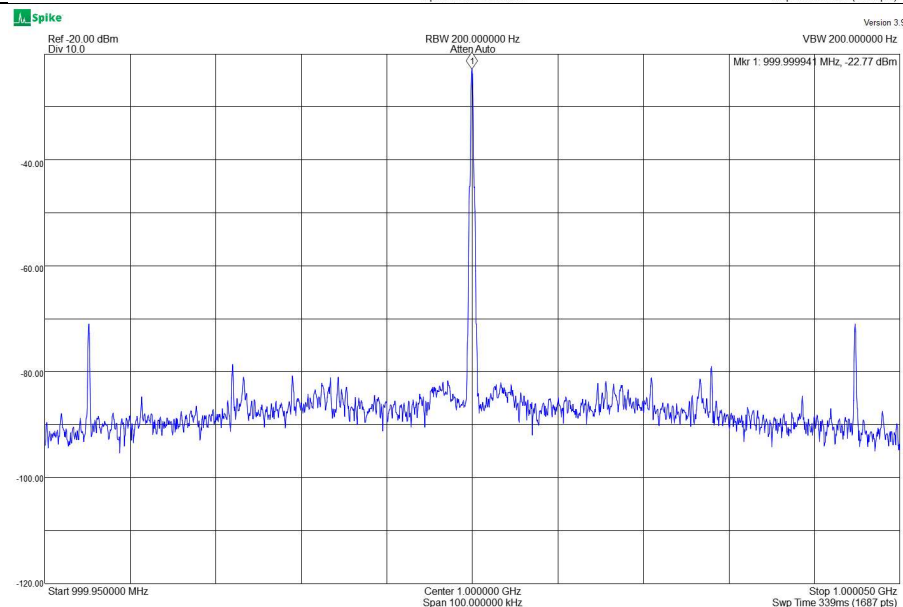
Version 3.9.6



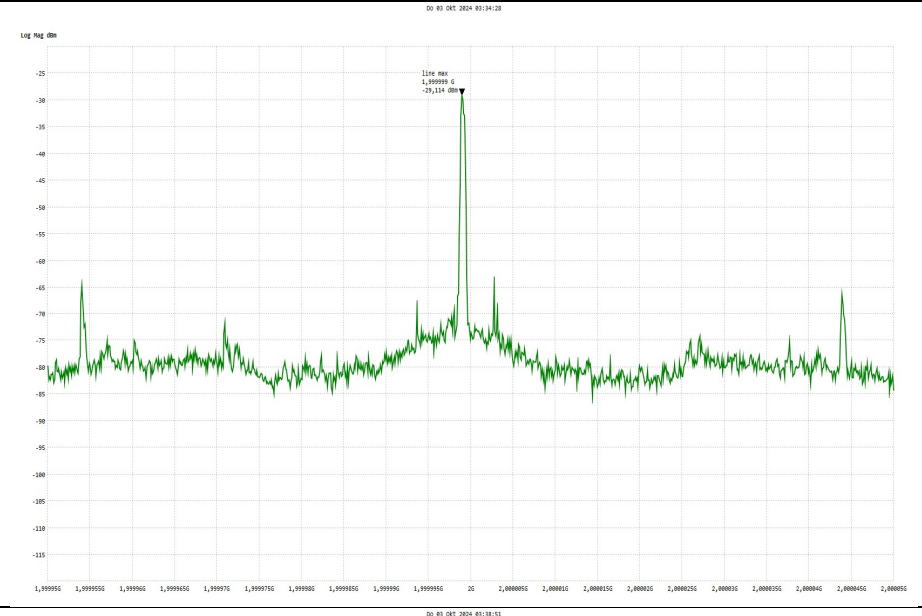
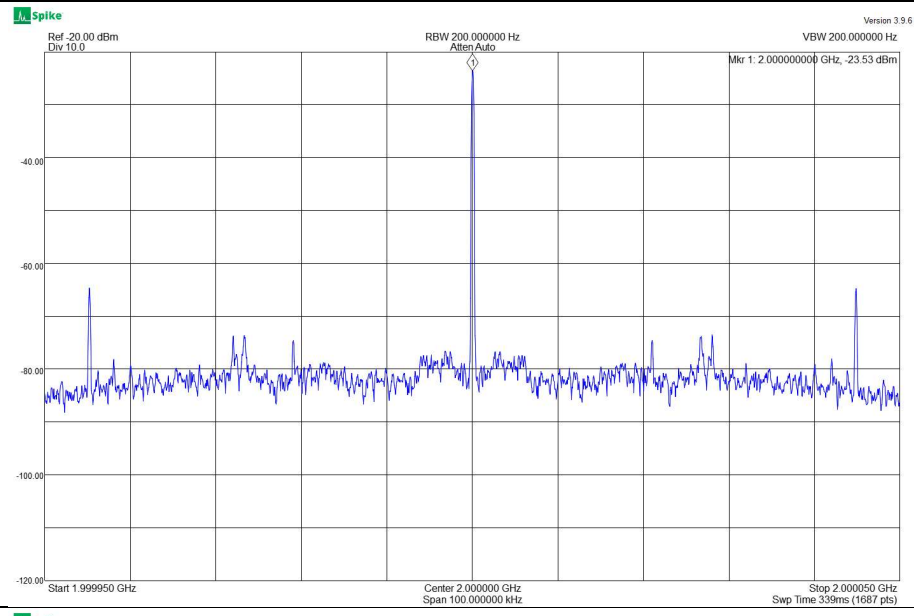
500MHz



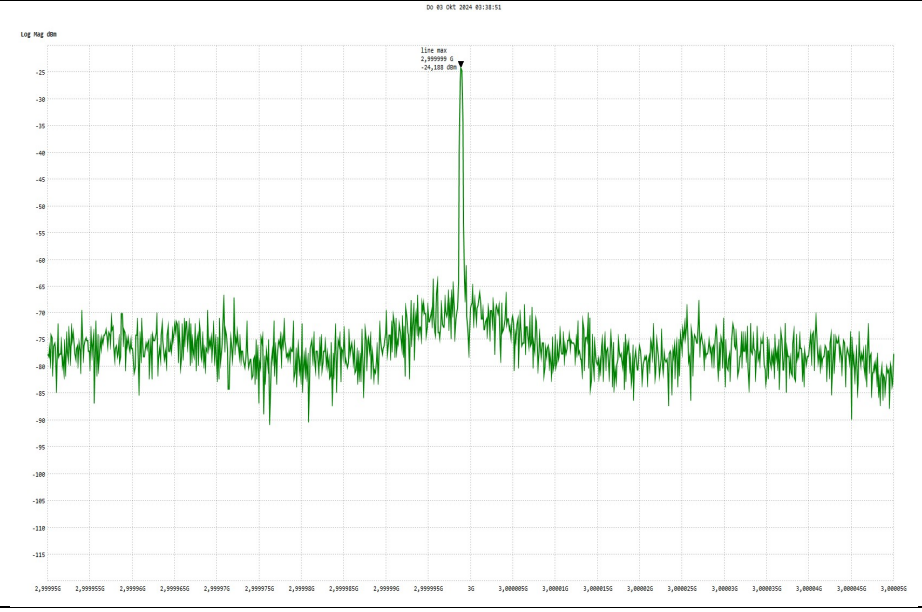
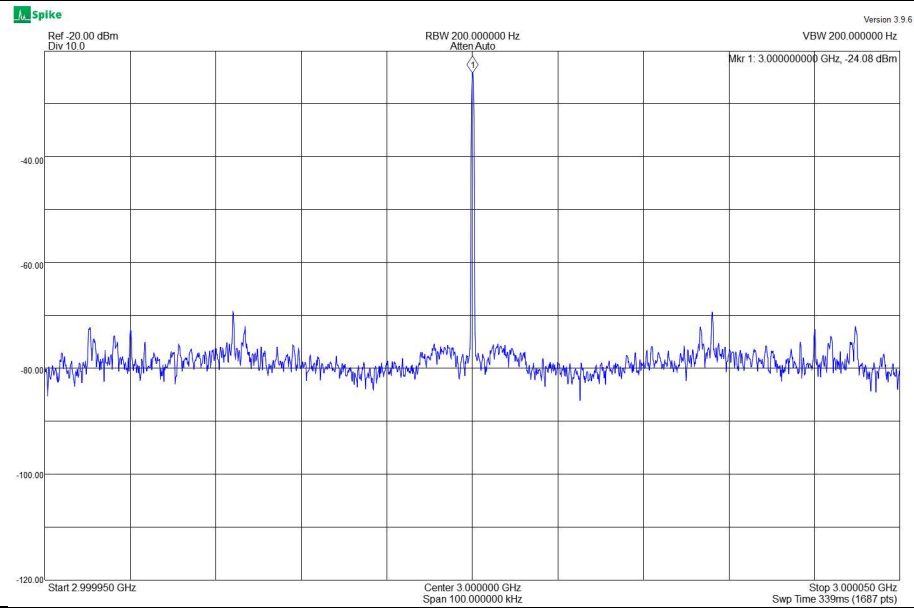
1GHz



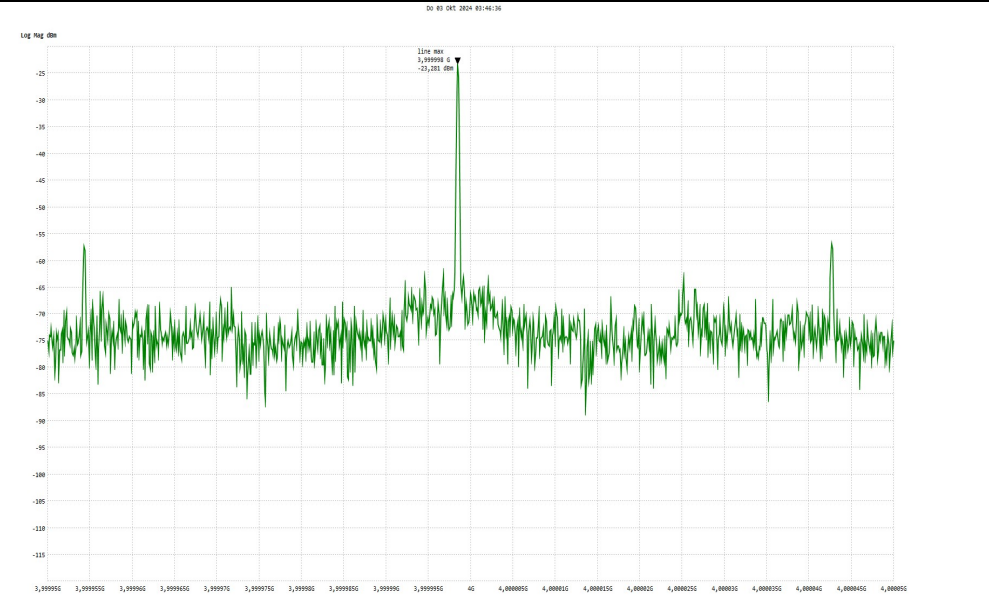
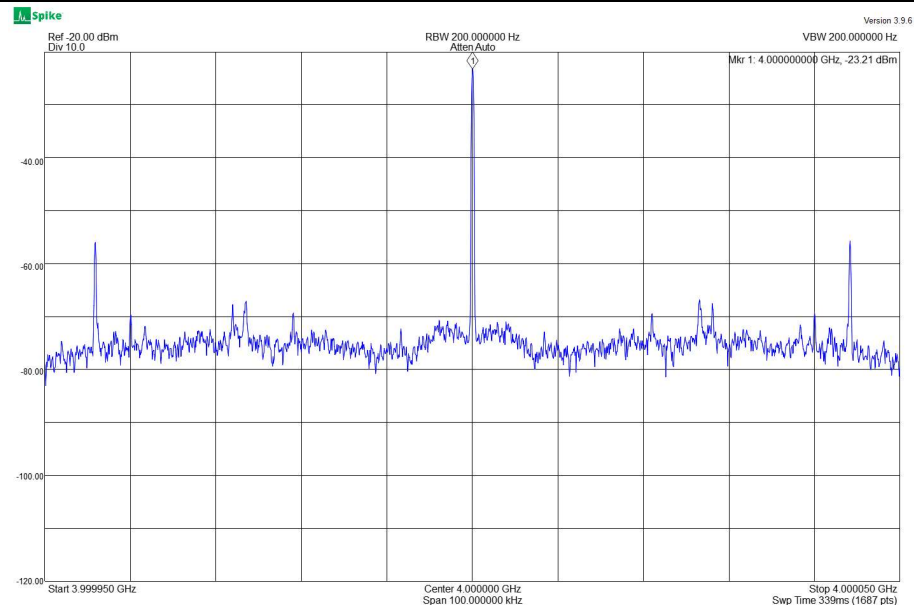
2GHz



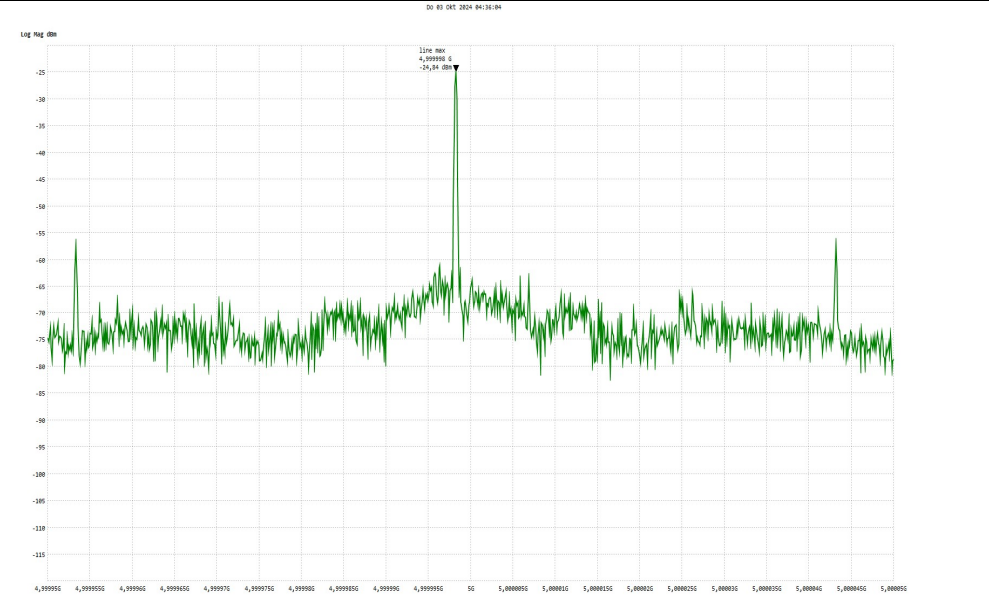
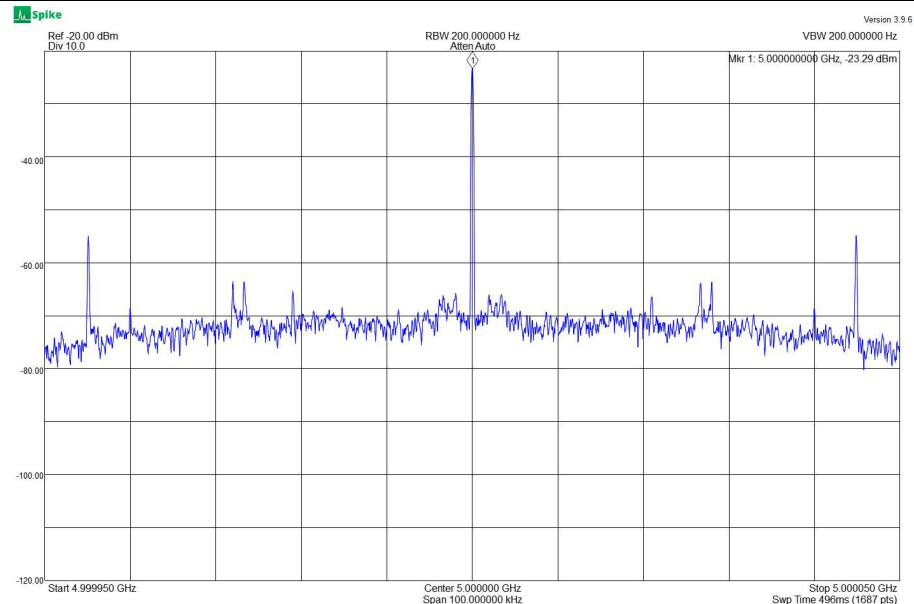
3GHz



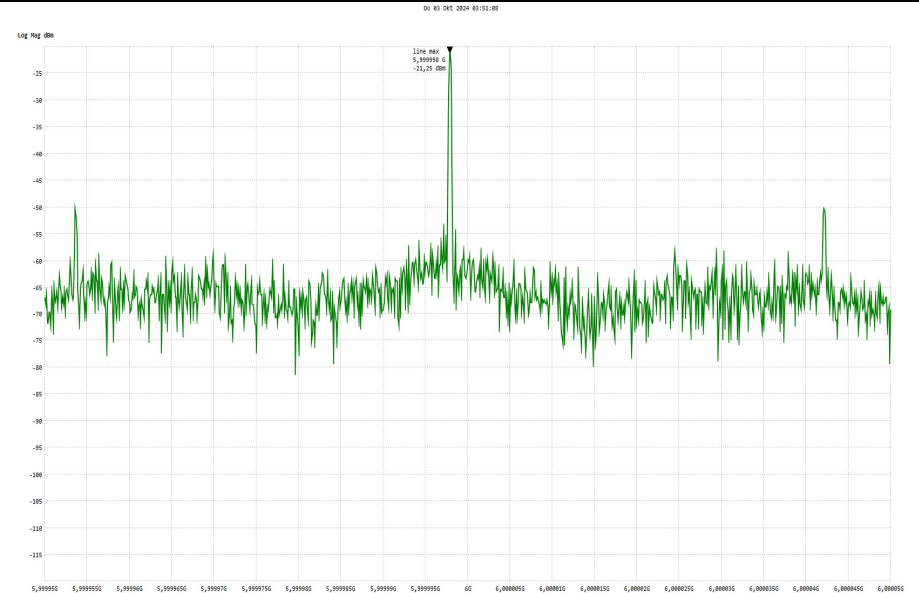
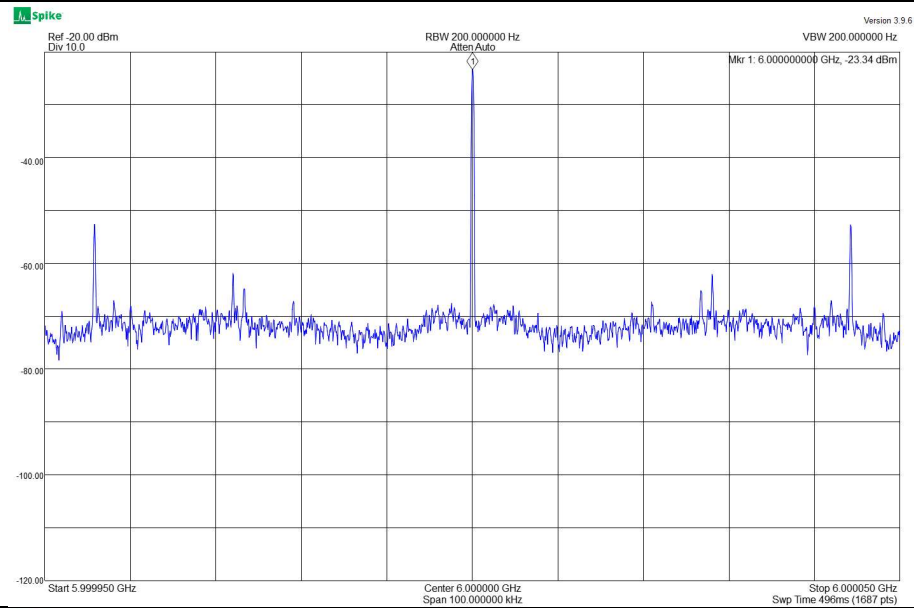
4GHz



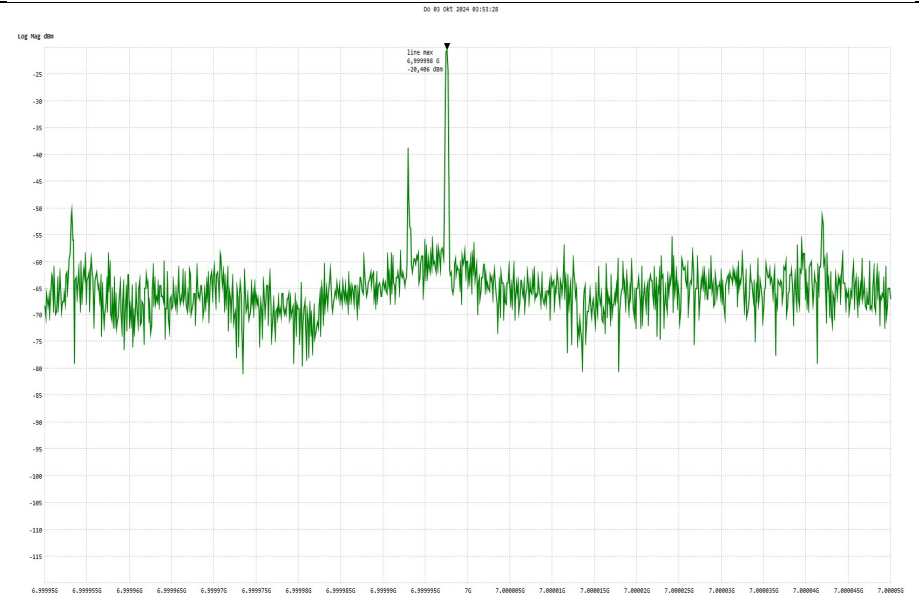
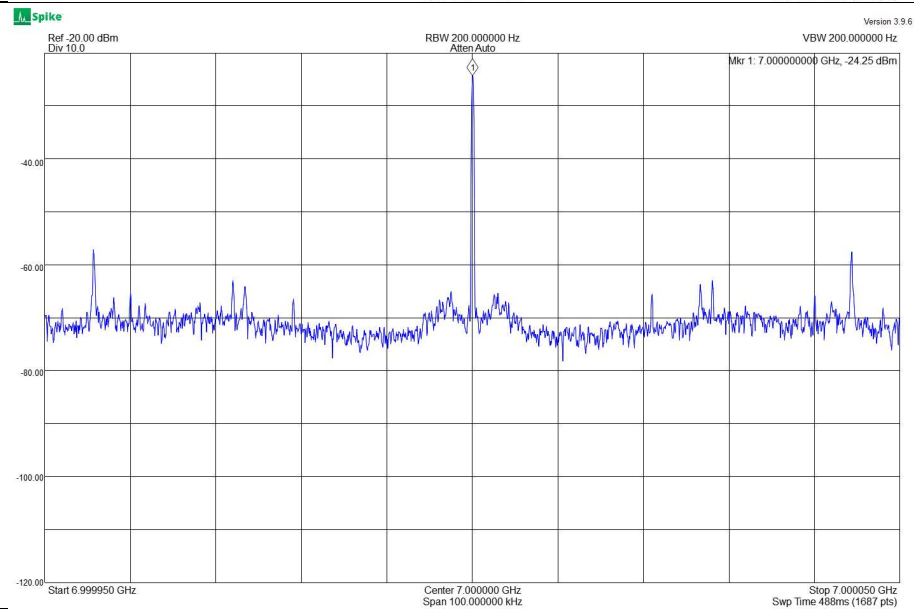
5GHz



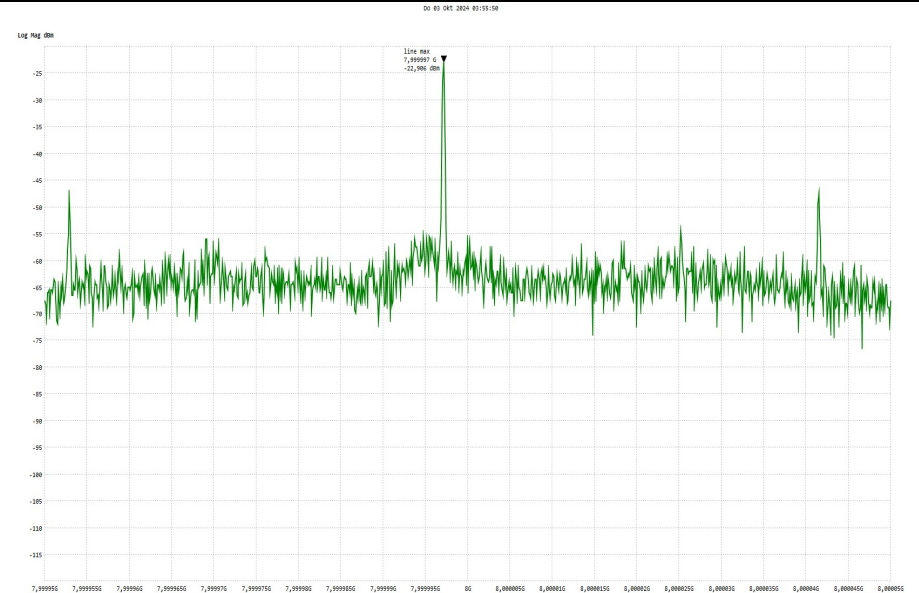
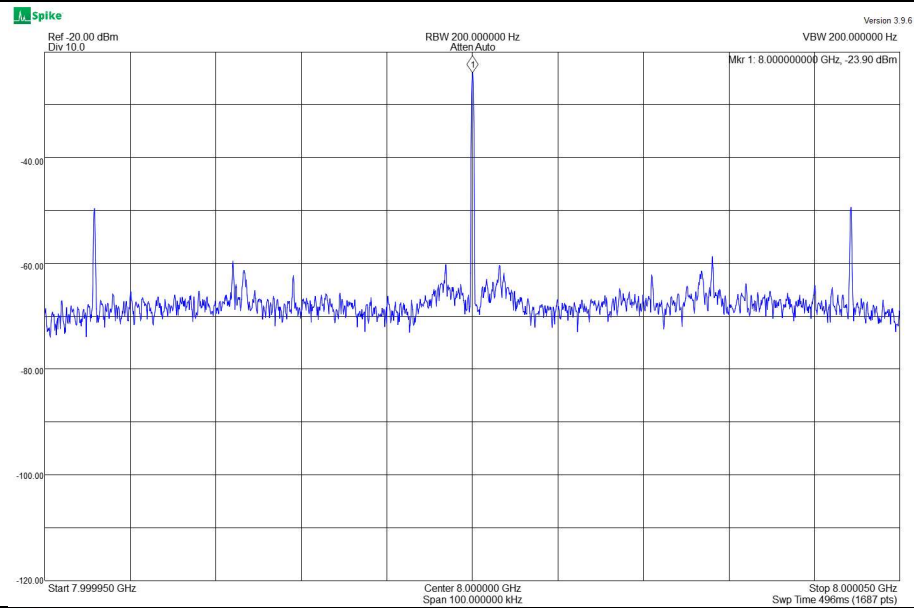
6GHz



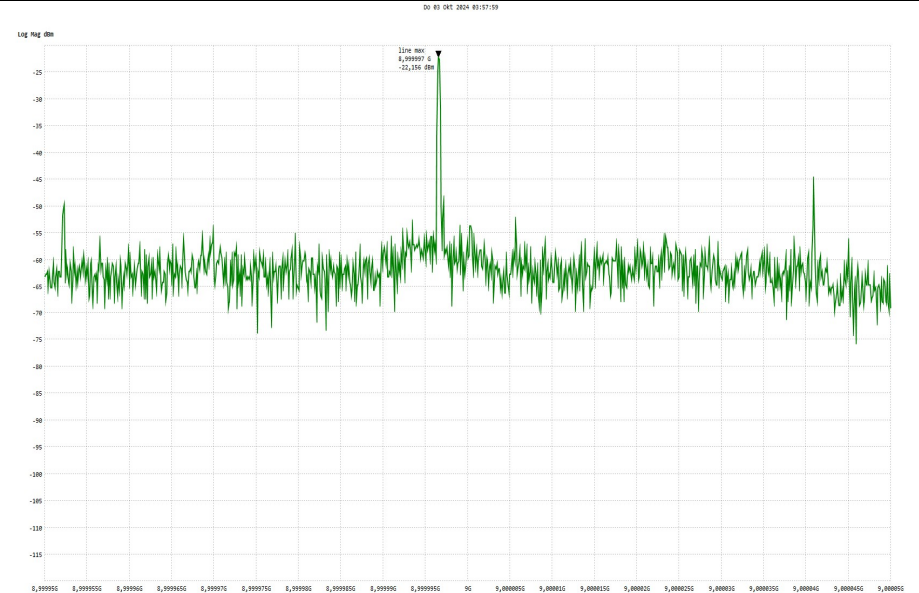
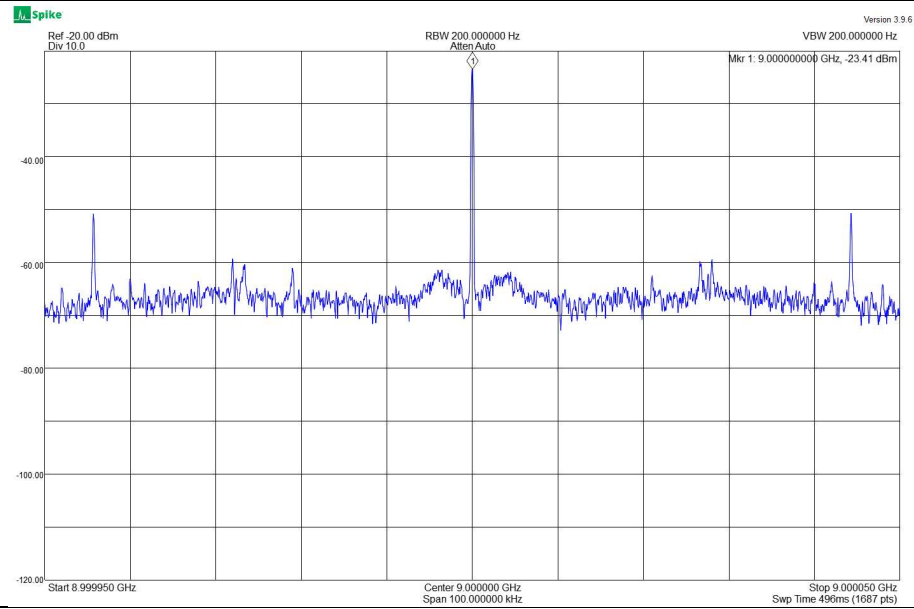
7GHz



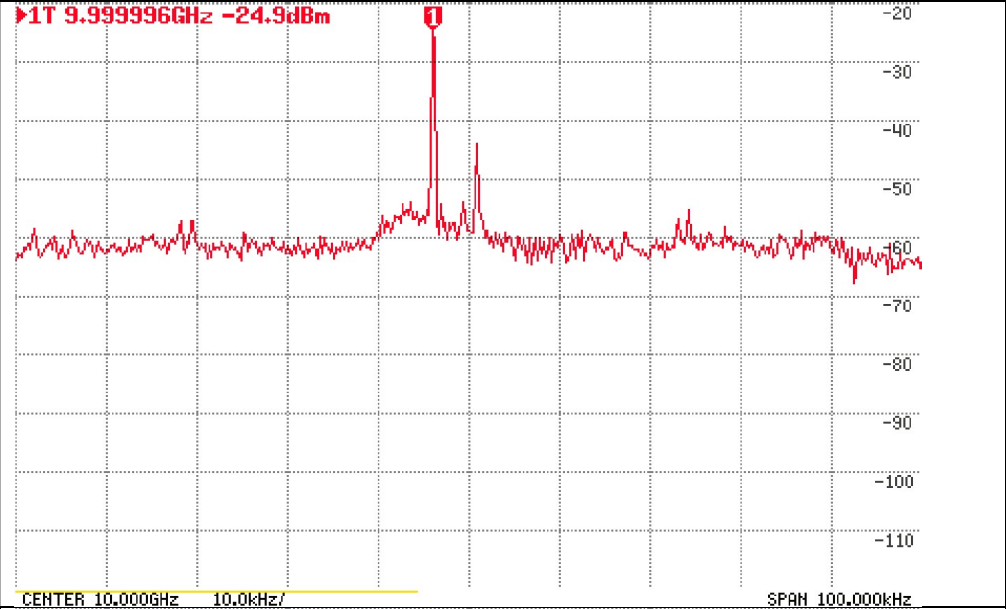
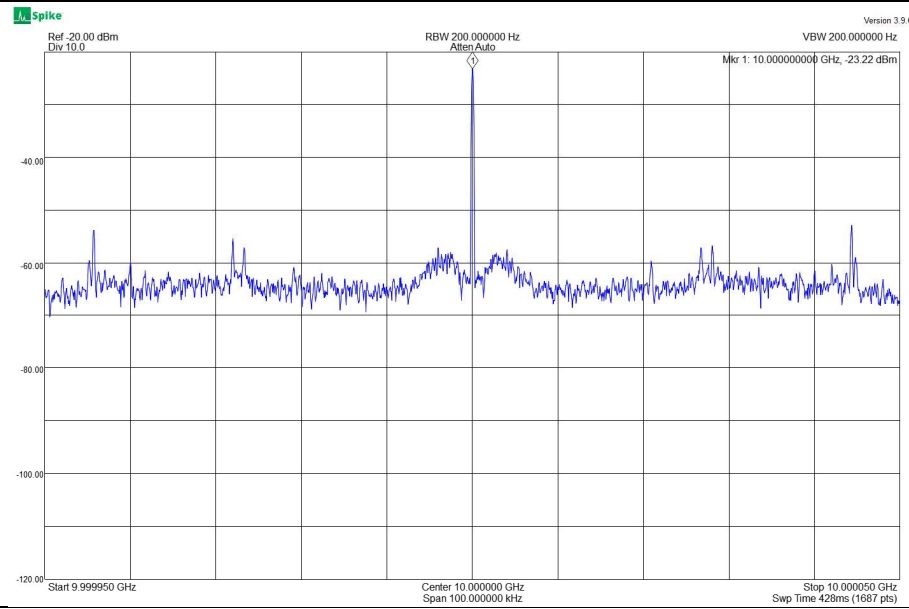
8GHz



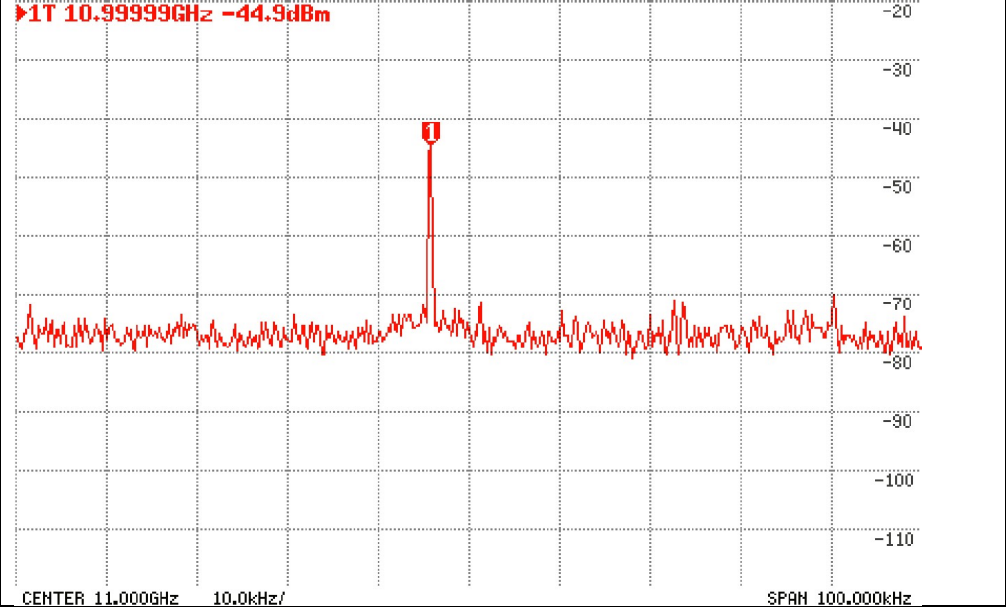
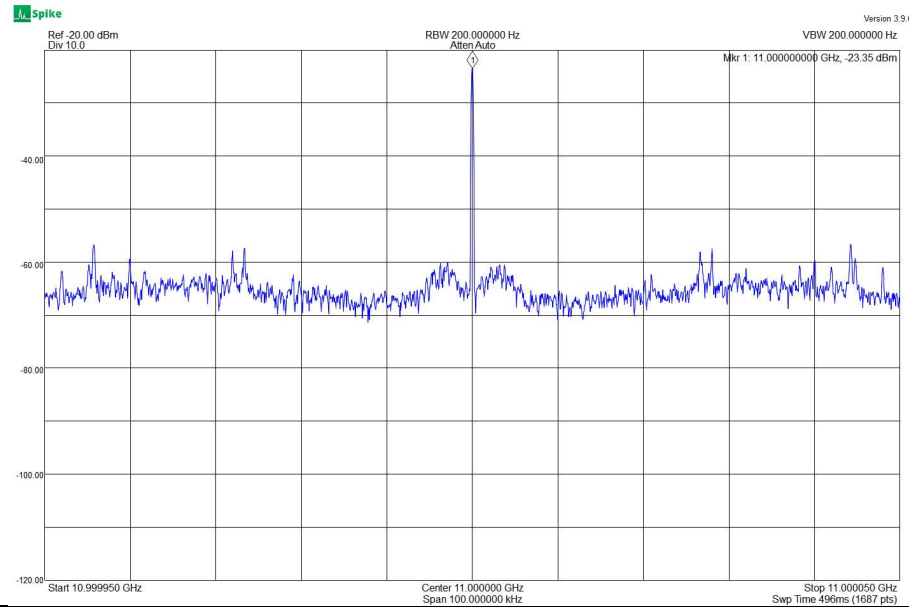
9GHz



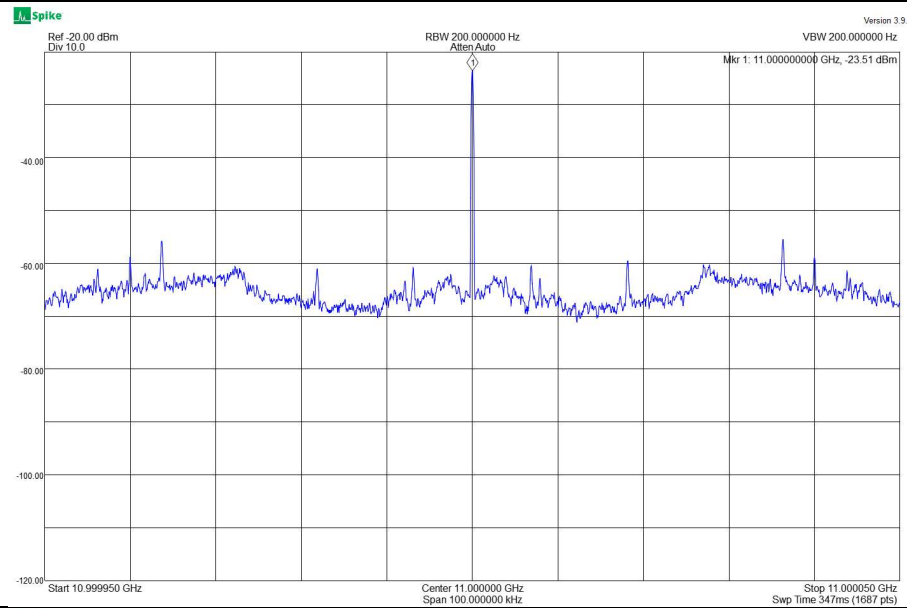
10GHz



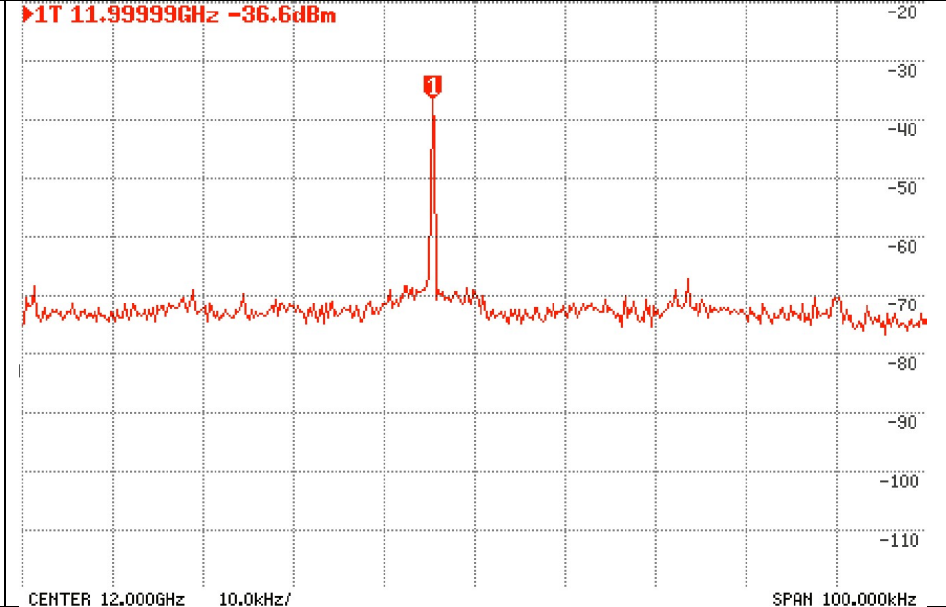
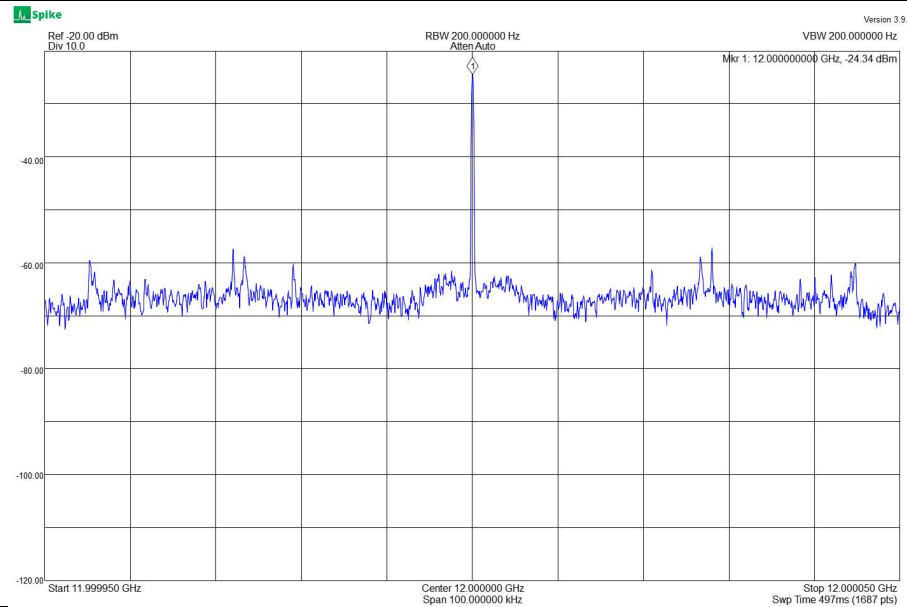
11GHz



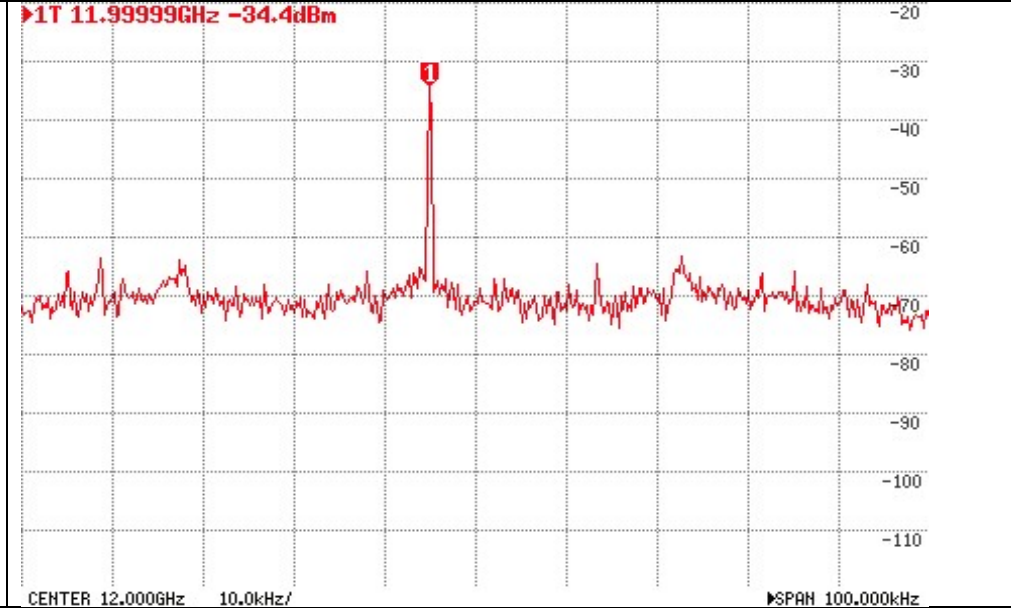
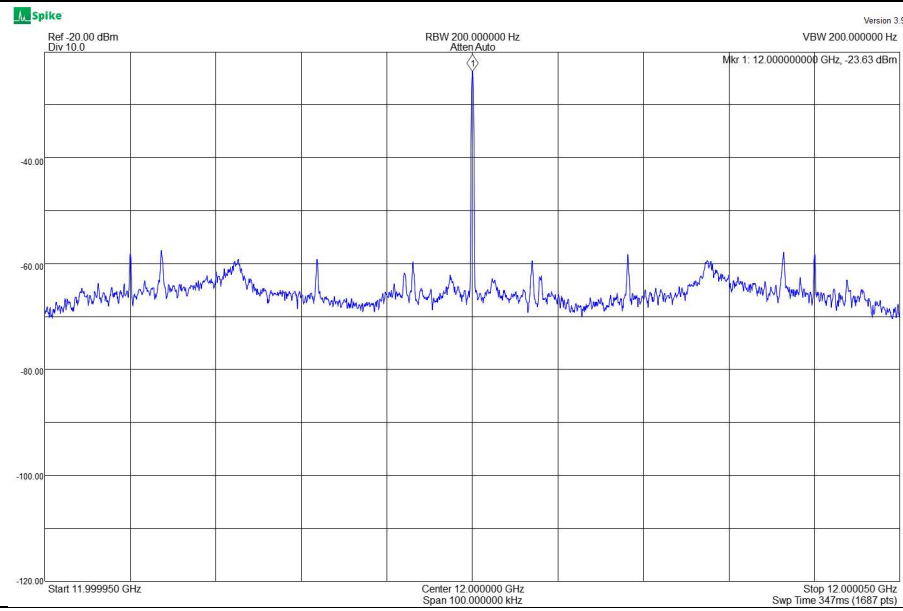
11GHz
neu, LNA
on/off



12GHz



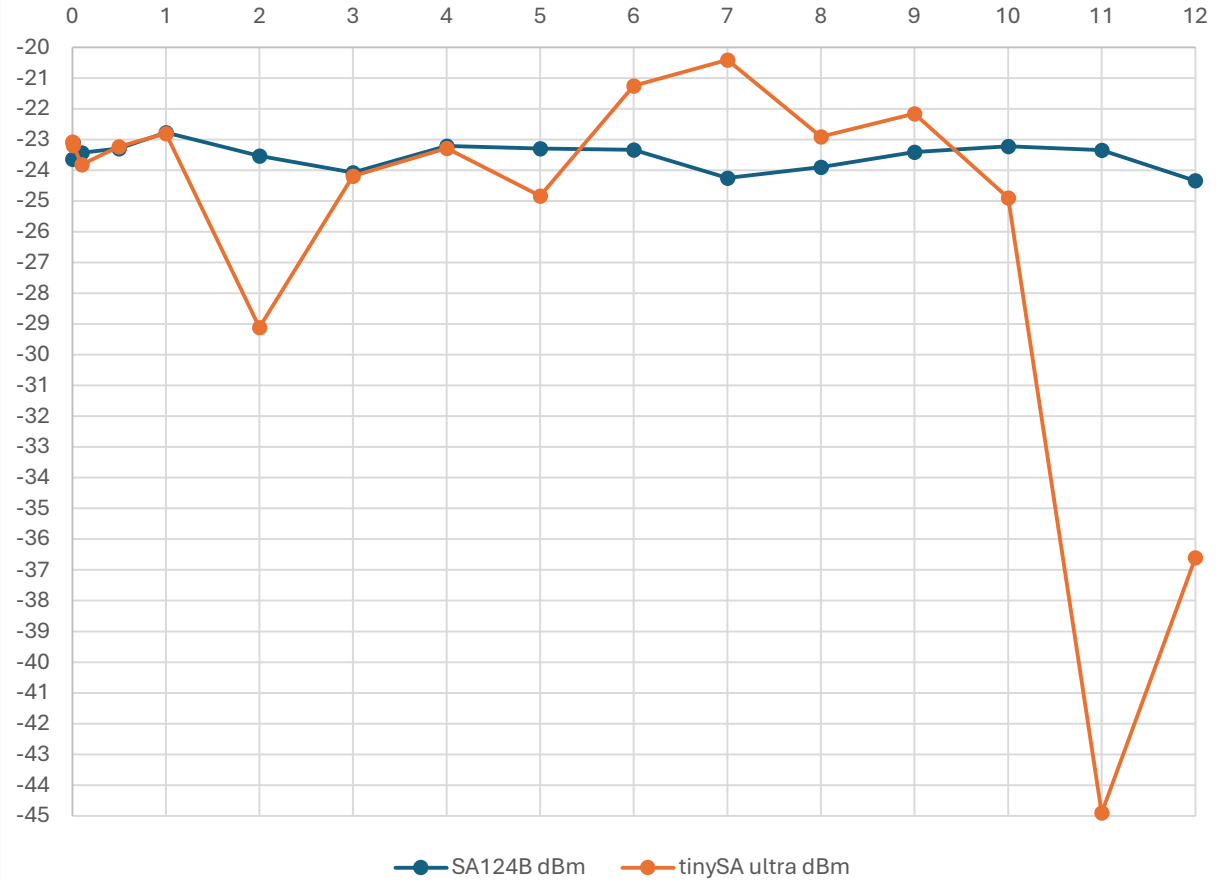
12GHz
neu



Messungen 1

f	SA124B	tinySA ultra	differenz tinySA ultra zu SA124B
GHz	dBm	dBm	dBm
0,001	-23,64	-23,08	0,56
0,01	-23,11	-23,19	-0,08
0,1	-23,43	-23,82	-0,39
0,5	-23,29	-23,23	0,06
1	-22,77	-22,81	-0,04
2	-23,53	-29,11	-5,58
3	-24,08	-24,19	-0,11
4	-23,21	-23,28	-0,07
5	-23,29	-24,84	-1,55
6	-23,34	-21,25	2,09
7	-24,25	-20,41	3,84
8	-23,9	-22,91	0,99
9	-23,41	-22,16	1,25
10	-23,22	-24,9	-1,68
11	-23,35	-44,9	-21,55
12	-24,34	-36,6	-12,26

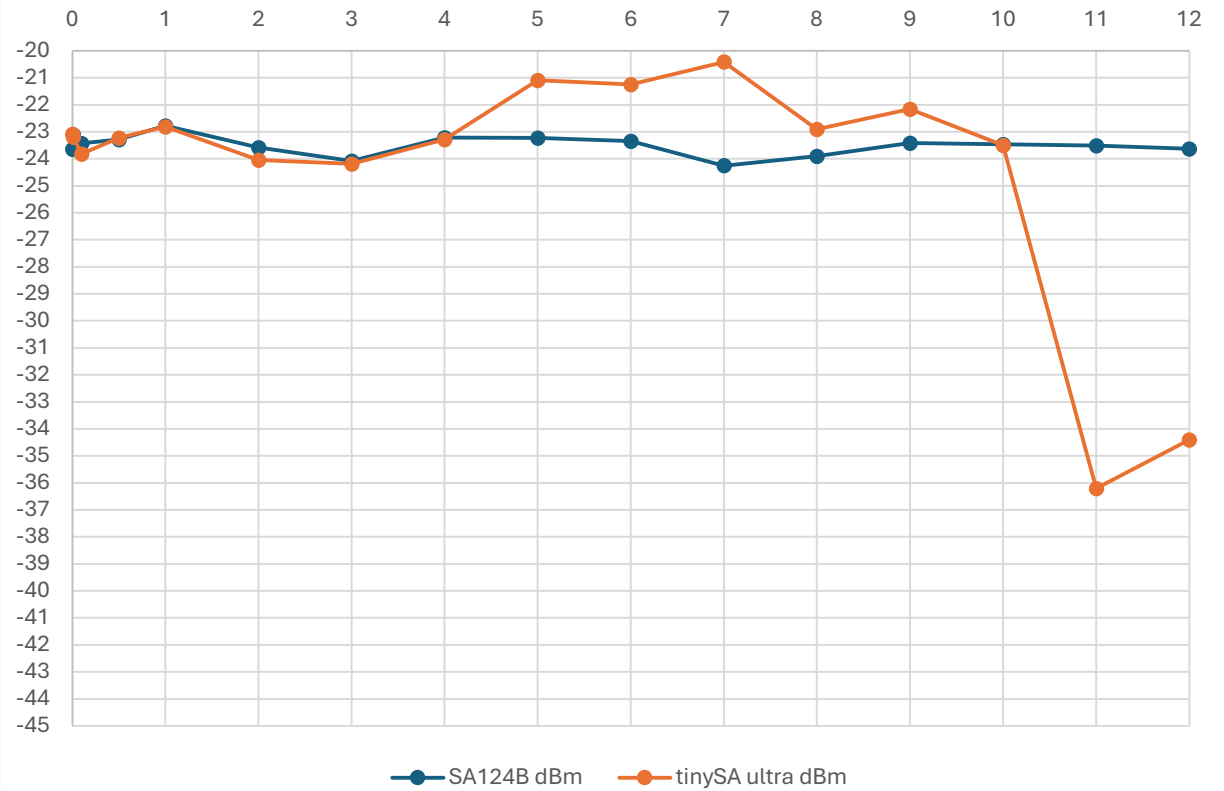
Vergleich Schmalbandmessungen RBW 200Hz



Messungen 2

f	SA124B	tinySA ultra	differenz tinySA ultra zu SA124B
GHz	dBm	dBm	dBm
0,001	-23,64	-23,08	0,56
0,01	-23,11	-23,19	-0,08
0,1	-23,43	-23,82	-0,39
0,5	-23,29	-23,23	0,06
1	-22,77	-22,81	-0,04
2	-23,58	-24,04	-0,46
3	-24,08	-24,19	-0,11
4	-23,21	-23,28	-0,07
5	-23,22	-21,09	2,13
6	-23,34	-21,25	2,09
7	-24,25	-20,41	3,84
8	-23,9	-22,91	0,99
9	-23,41	-22,16	1,25
10	-23,46	-23,5	-0,04
11	-23,51	-36,2	-12,69
12	-23,63	-34,4	-10,77

Vergleich Schmalbandmessungen II RBW 200Hz

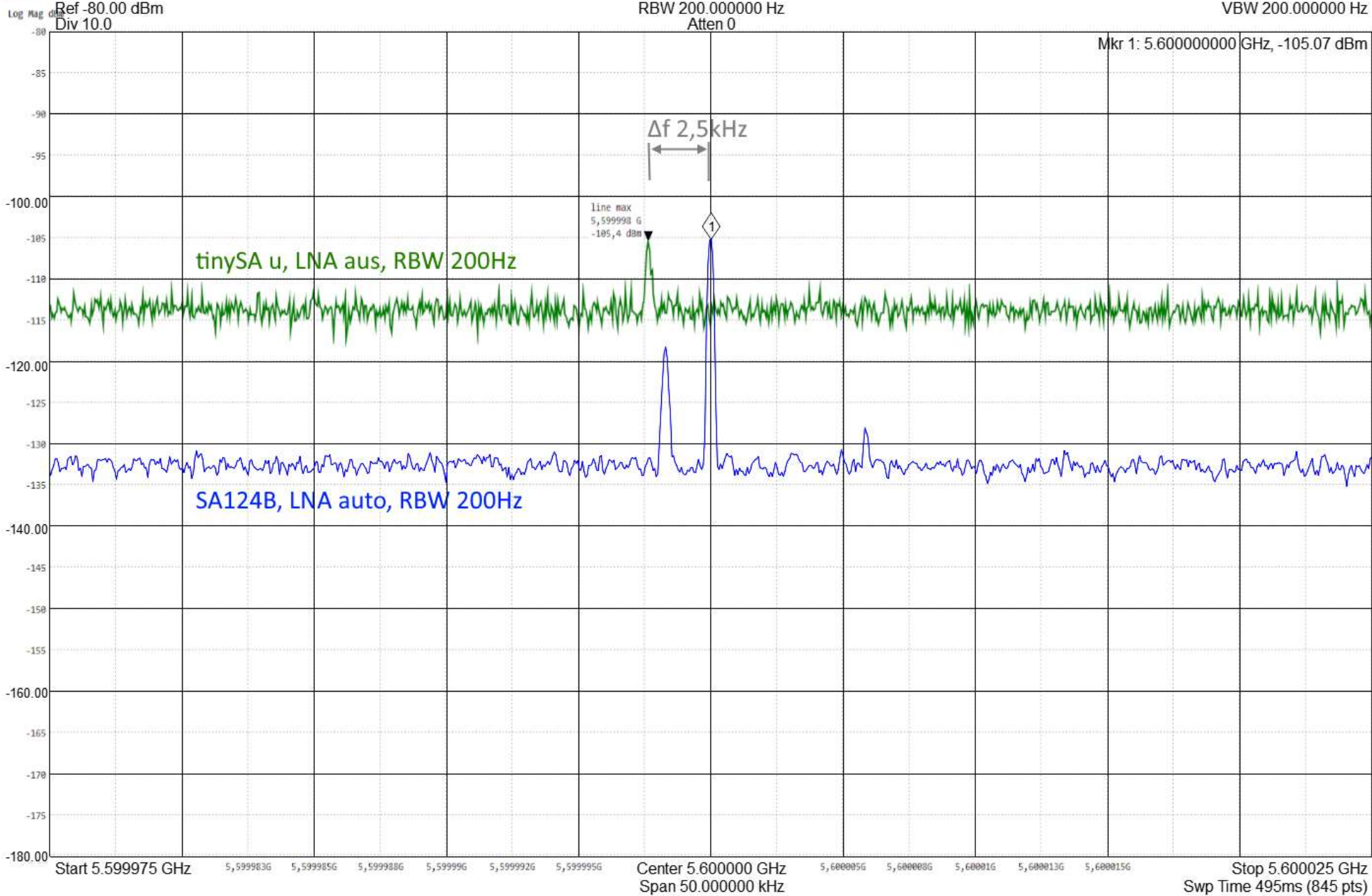


Empfindlichkeit 5,6GHz

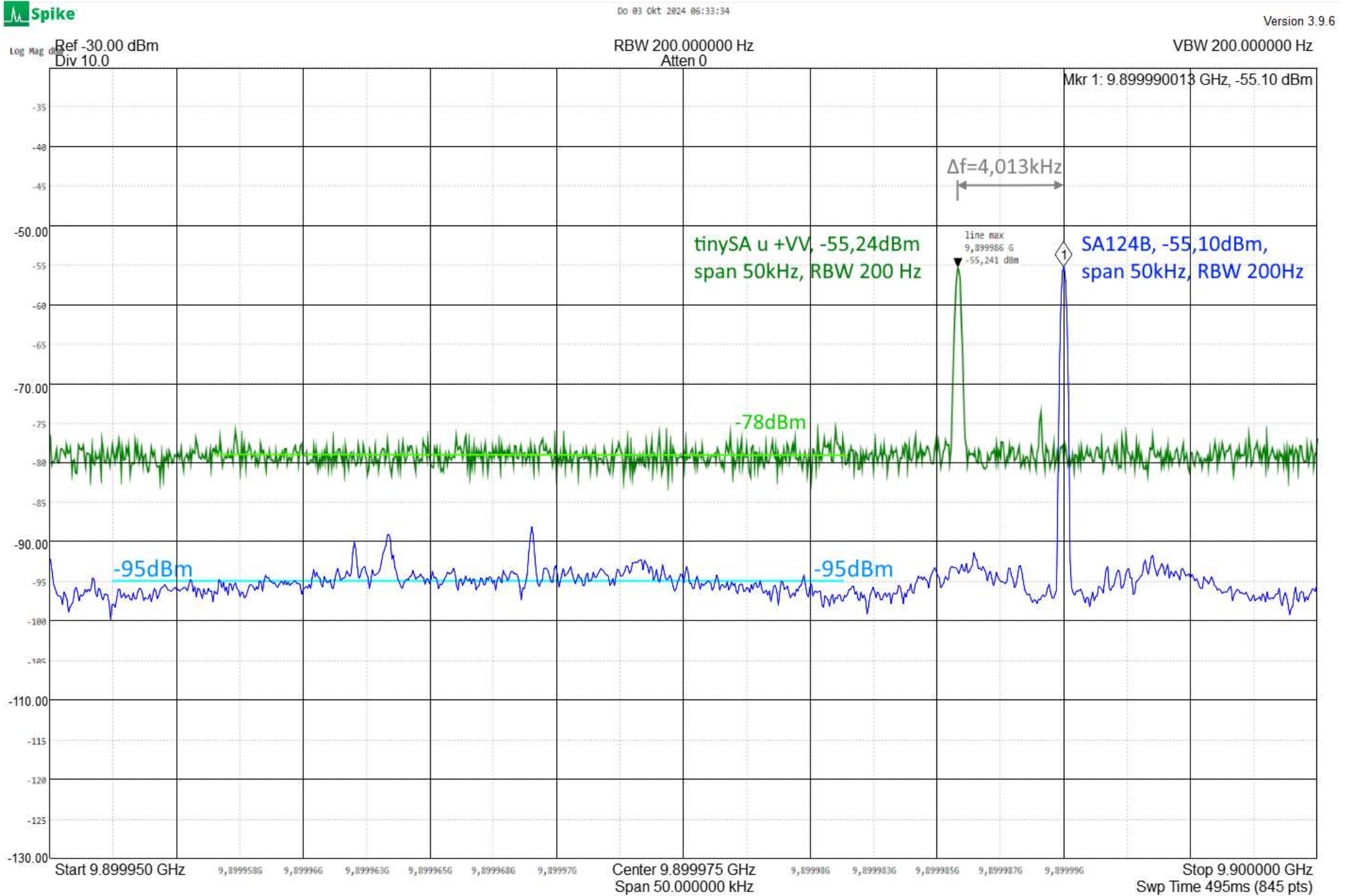


Do 03 Okt 2024 05:48:18

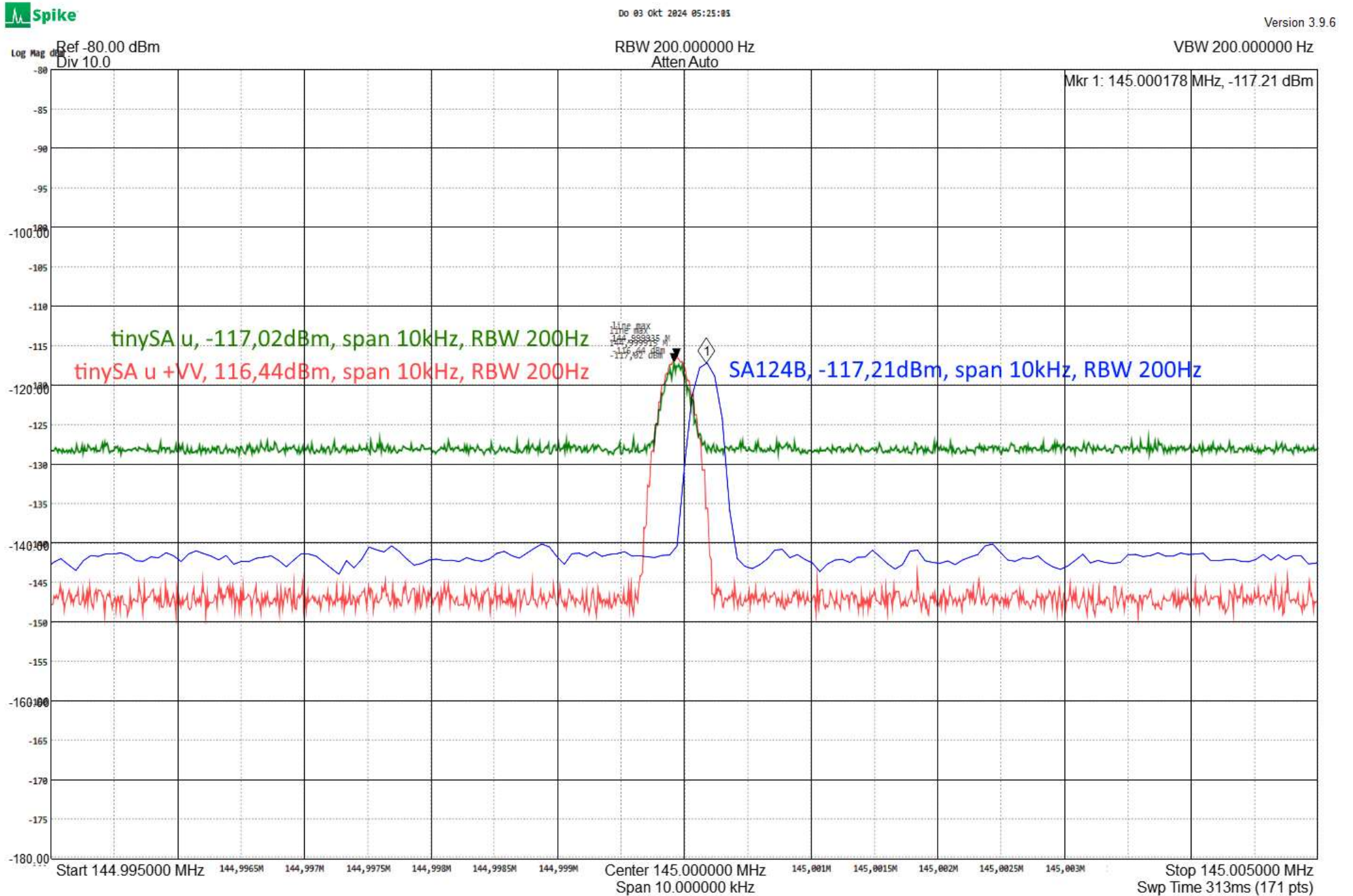
Version 3.9.6



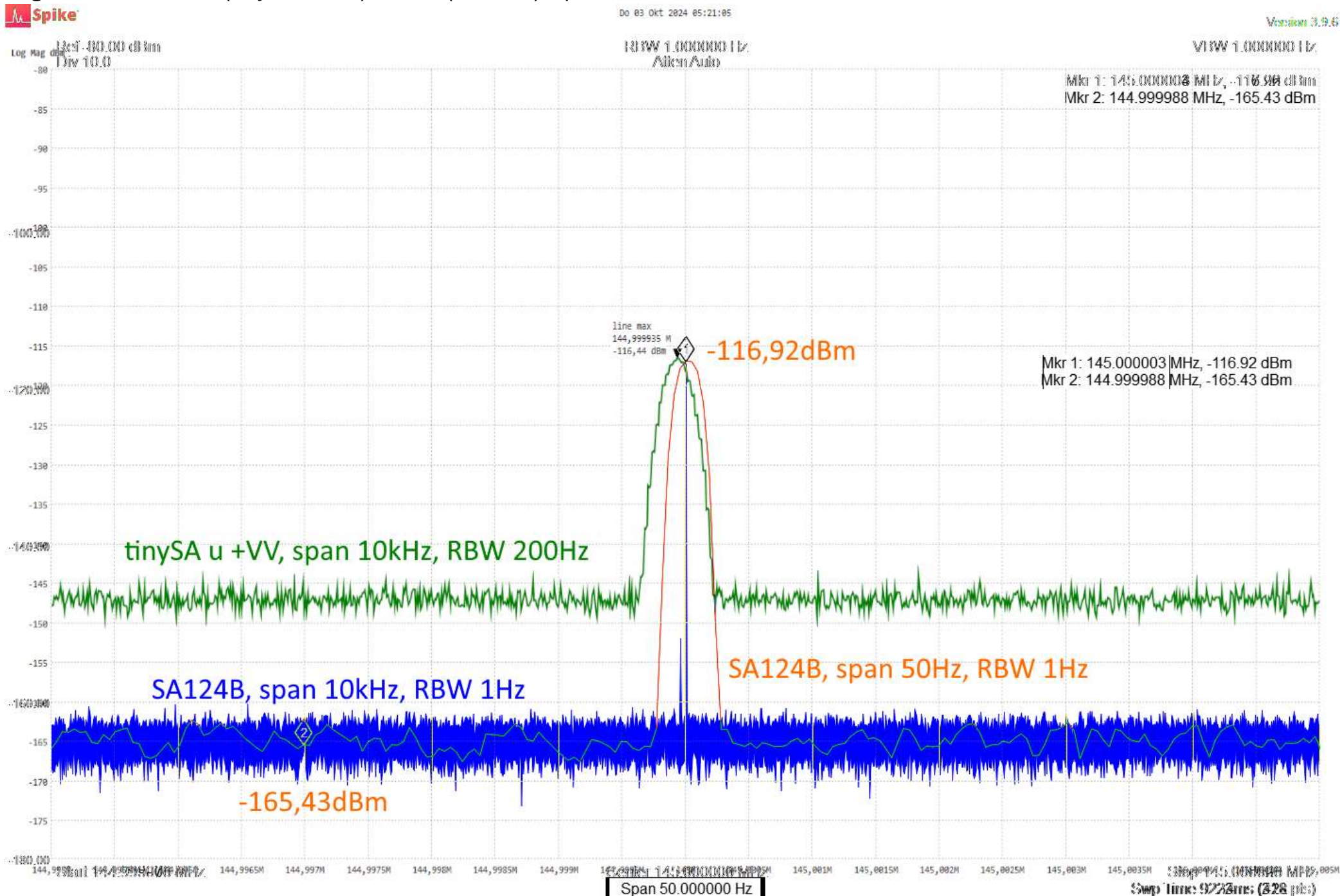
Empfindlichkeit 10GHz (9,9GHz)



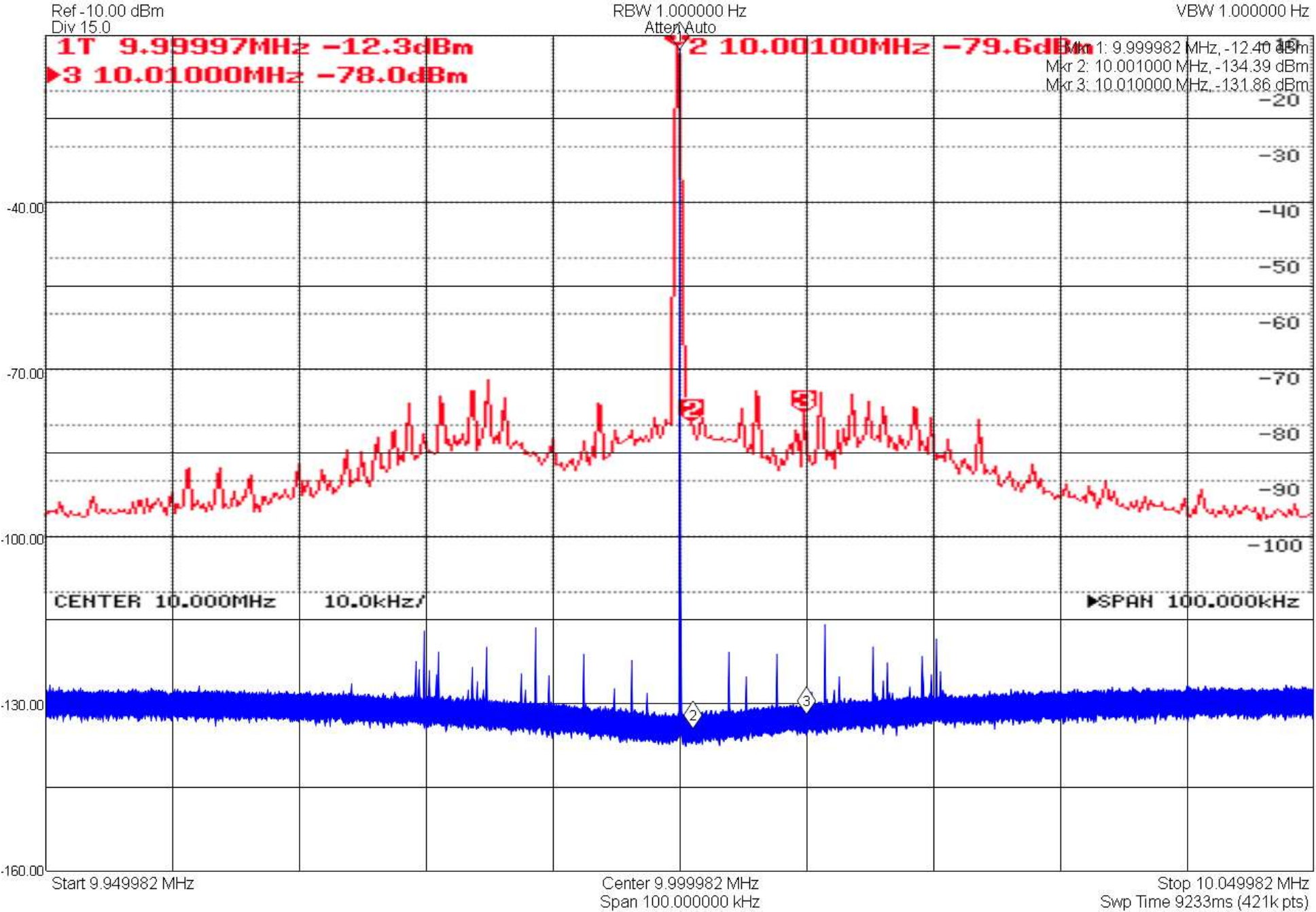
Wirkung VV (LNA) bei 145MHz, RBW 200Hz



Vergleich RBW 200Hz (tinySA u +VV) zu 1Hz (SA124B), span 50Hz



Rauschen bei 10MHz mit ultra-rauscharmem OCXO



	tinySA u, RBW 200Hz	tinySA u, RBW 1Hz (simuliert)	SA124B. RBW 1Hz
Träger 10MHz	-12,3dBm		-12,4dBm
Δf 1kHz	-79,5dBm	-102,5dBc/1Hz	-134dBm
Δf 10kHz	-78dBm	-101dBc/1Hz	-132dBm
Δf 100kHz	-95dBm	-118dBc/Hz	-130dBm

