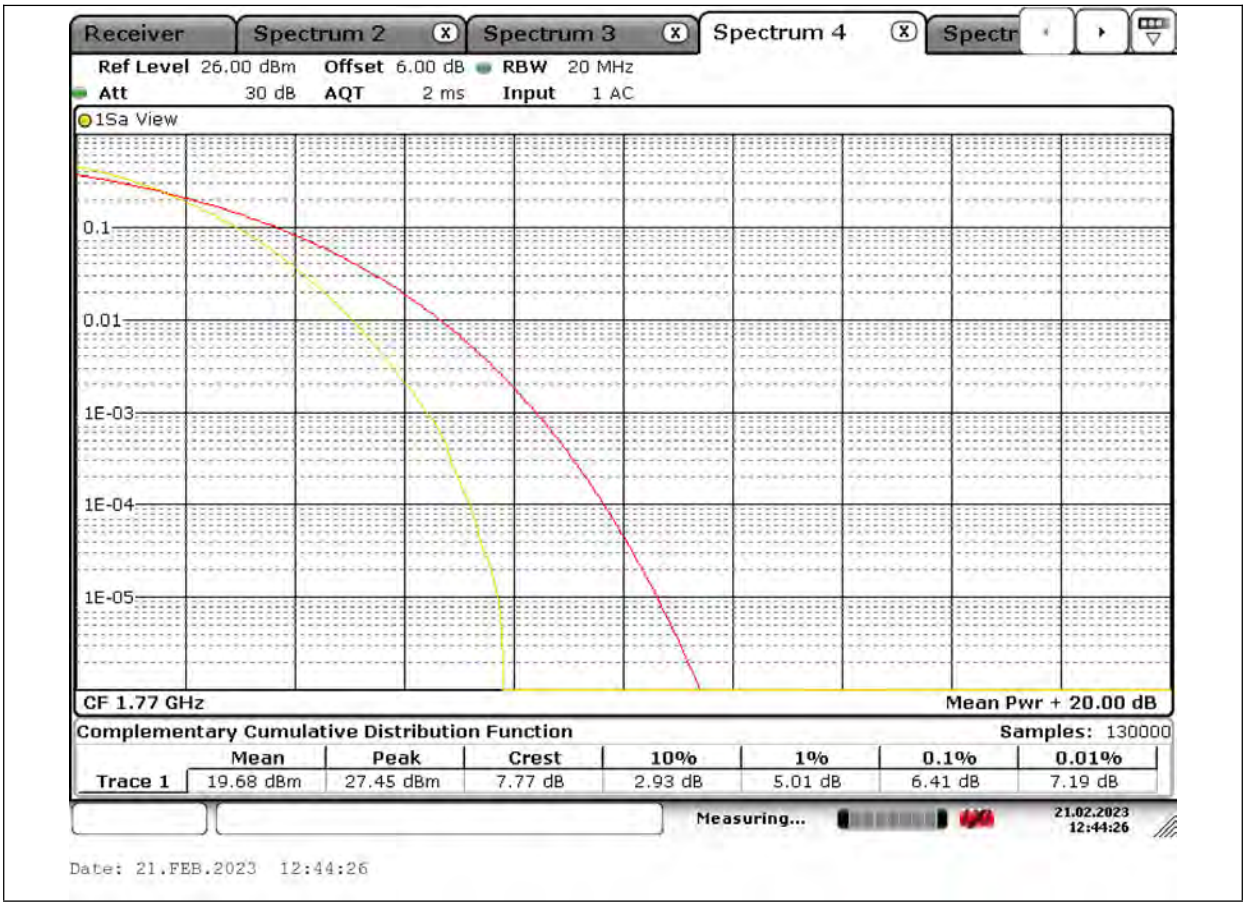

Receiver
Spectrum 2
Spectrum 3
Spectrum 4
Spectr
Ref Level 26.00 dBm Offset 6.00 dB RBW 20 MHz
Att 30 dB AQT 2 ms Input 1 AC
1Sa View
0.1
0.01
1E-03
1E-04
1E-05
CF 1.77 GHz
Mean Pwr + 20.00 dB
Complementary Cumulative Distribution Function
Samples: 130000
Mean Peak Crest 10% 1% 0.1% 0.01%
Trace 1 19.68 dBm 27.45 dBm 7.77 dB 2.93 dB 5.01 dB 6.41 dB 7.19 dB
Measuring...
21.02.2023
12:44:26
Date: 21.FEB.2023 12:44:26

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

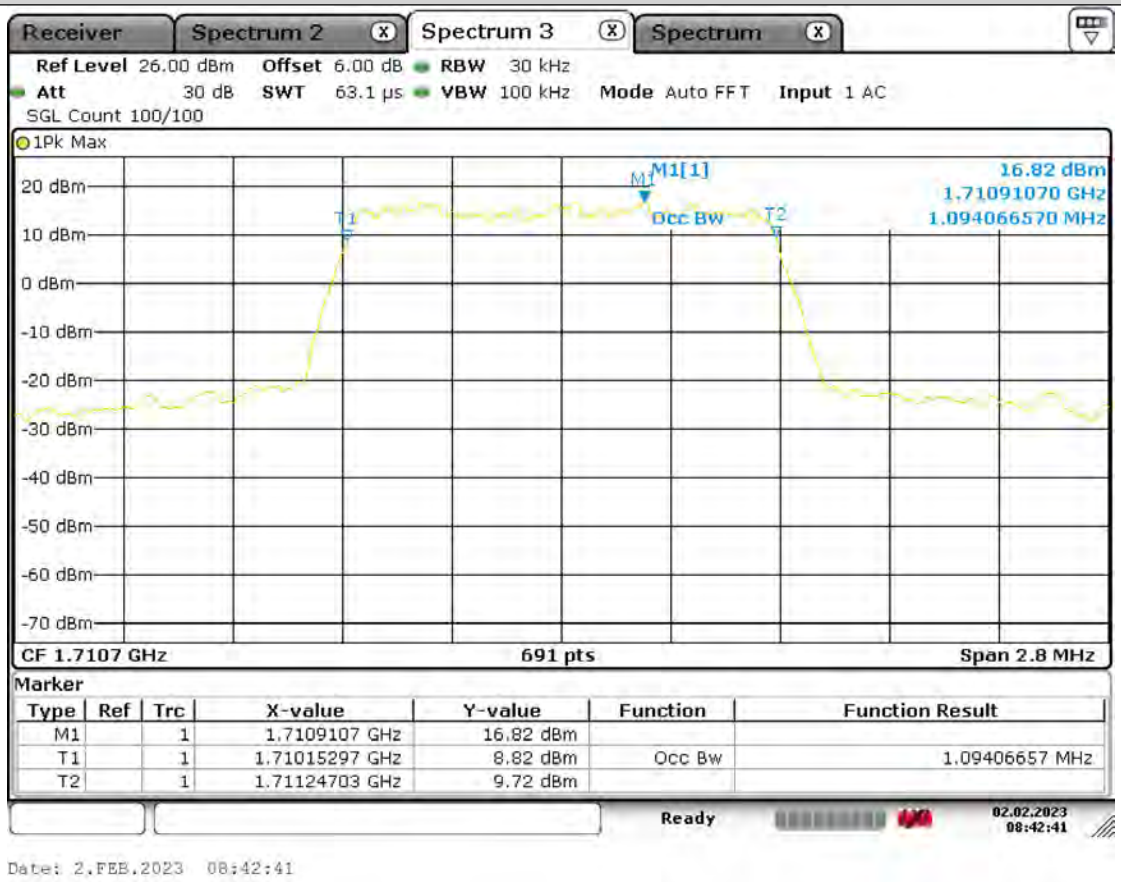
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band66	1.4MHz	QPSK	131979	6RB#0	1.094	1.240	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.102	1.256	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.090	1.248	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.098	1.240	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.090	12.44	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.114	1.248	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.718	3.030	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.753	3.013	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.735	3.022	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.743	3.065	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.726	3.117	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.709	3.065	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.515	4.848	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.500	4.920	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.500	4.935	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.500	4.978	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.544	4.949	PASS
Band66	5MHz	16QAM	132647	25RB#0	4.486	4.891	PASS
Band66	10MHz	QPSK	132022	50RB#0	9.001	9.928	PASS
Band66	10MHz	QPSK	132322	50RB#0	9.001	9.957	PASS
Band66	10MHz	QPSK	132622	50RB#0	9.059	9.783	PASS
Band66	10MHz	16QAM	132022	50RB#0	9.001	9.928	PASS
Band66	10MHz	16QAM	132322	50RB#0	9.001	9.899	PASS
Band66	10MHz	16QAM	132622	50RB#0	9.030	9.696	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.502	14.544	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.502	14.457	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.502	14.891	PASS
Band66	15MHz	16QAM	132047	75RB#0	13.415	14.674	PASS
Band66	15MHz	16QAM	132322	75RB#0	13.458	14.153	PASS
Band66	15MHz	16QAM	132597	75RB#0	13.415	14.327	PASS
Band66	20MHz	QPSK	132072	100RB#0	17.945	19.219	PASS
Band66	20MHz	QPSK	132322	100RB#0	17.887	18.929	PASS
Band66	20MHz	QPSK	132572	100RB#0	17.829	19.508	PASS
Band66	20MHz	16QAM	132072	100RB#0	17.887	19.161	PASS
Band66	20MHz	16QAM	132322	100RB#0	17.887	19.334	PASS
Band66	20MHz	16QAM	132572	100RB#0	17.945	18.987	PASS

Band66	1.4MHz	64QAM	131979	6RB#0	1.106	1.240	PASS
Band66	1.4MHz	64QAM	132322	6RB#0	1.094	1.252	PASS
Band66	1.4MHz	64QAM	132665	6RB#0	1.098	1.260	PASS
Band66	3MHz	64QAM	131987	15RB#0	2.718	3.083	PASS
Band66	3MHz	64QAM	132322	15RB#0	2.718	3.083	PASS
Band66	3MHz	64QAM	132657	15RB#0	2.744	3.056	PASS
Band66	5MHz	64QAM	131997	25RB#0	4.486	4.906	PASS
Band66	5MHz	64QAM	132322	25RB#0	4.486	4.949	PASS
Band66	5MHz	64QAM	132647	25RB#0	4.530	4.949	PASS
Band66	10MHz	64QAM	132022	50RB#0	9.001	10.014	PASS
Band66	10MHz	64QAM	132322	50RB#0	9.001	9.986	PASS
Band66	10MHz	64QAM	132622	50RB#0	9.059	10.043	PASS
Band66	15MHz	64QAM	132047	75RB#0	13.458	14.848	PASS
Band66	15MHz	64QAM	132322	75RB#0	13.458	14.631	PASS
Band66	15MHz	64QAM	132597	75RB#0	13.545	14.457	PASS
Band66	20MHz	64QAM	132072	100RB#0	17.829	19.334	PASS
Band66	20MHz	64QAM	132322	100RB#0	18.002	19.392	PASS
Band66	20MHz	64QAM	132572	100RB#0	18.002	18.755	PASS

Test Graphs

Band66-1.4MHz-QPSK-131979-6RB#0



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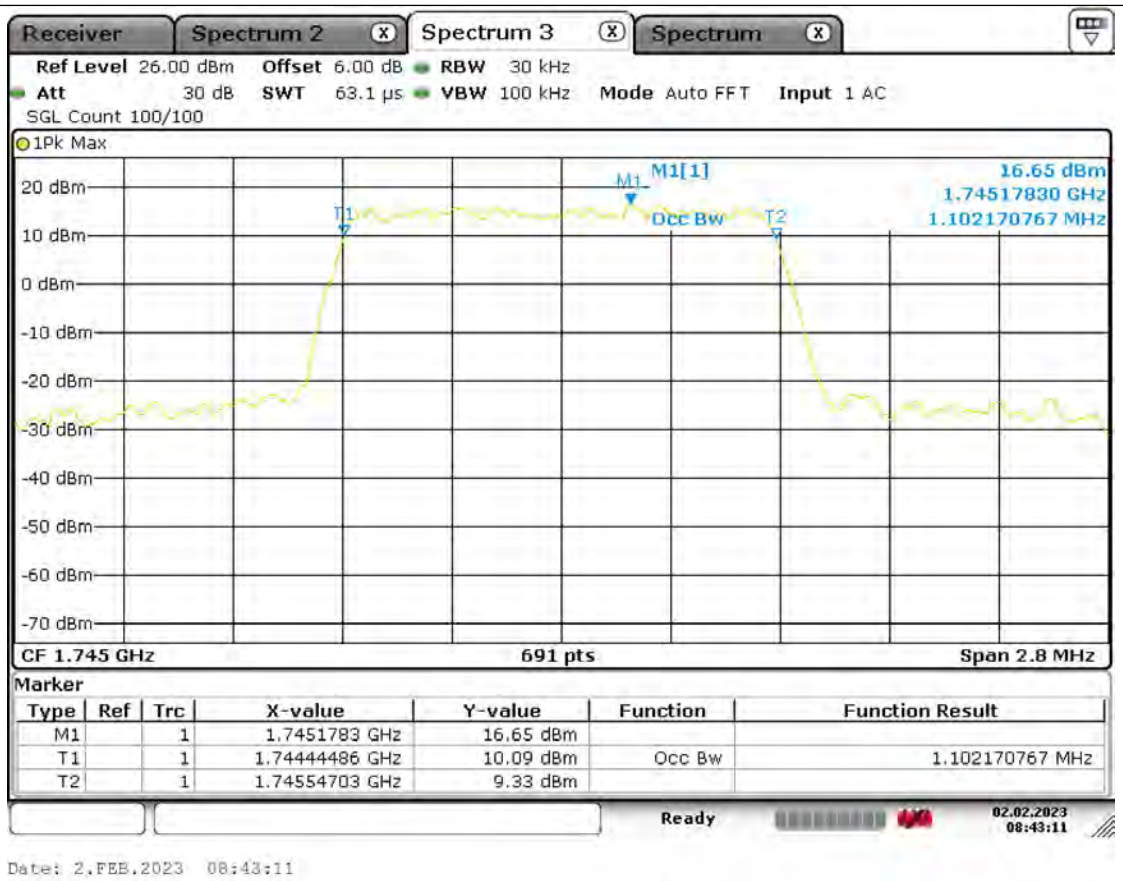

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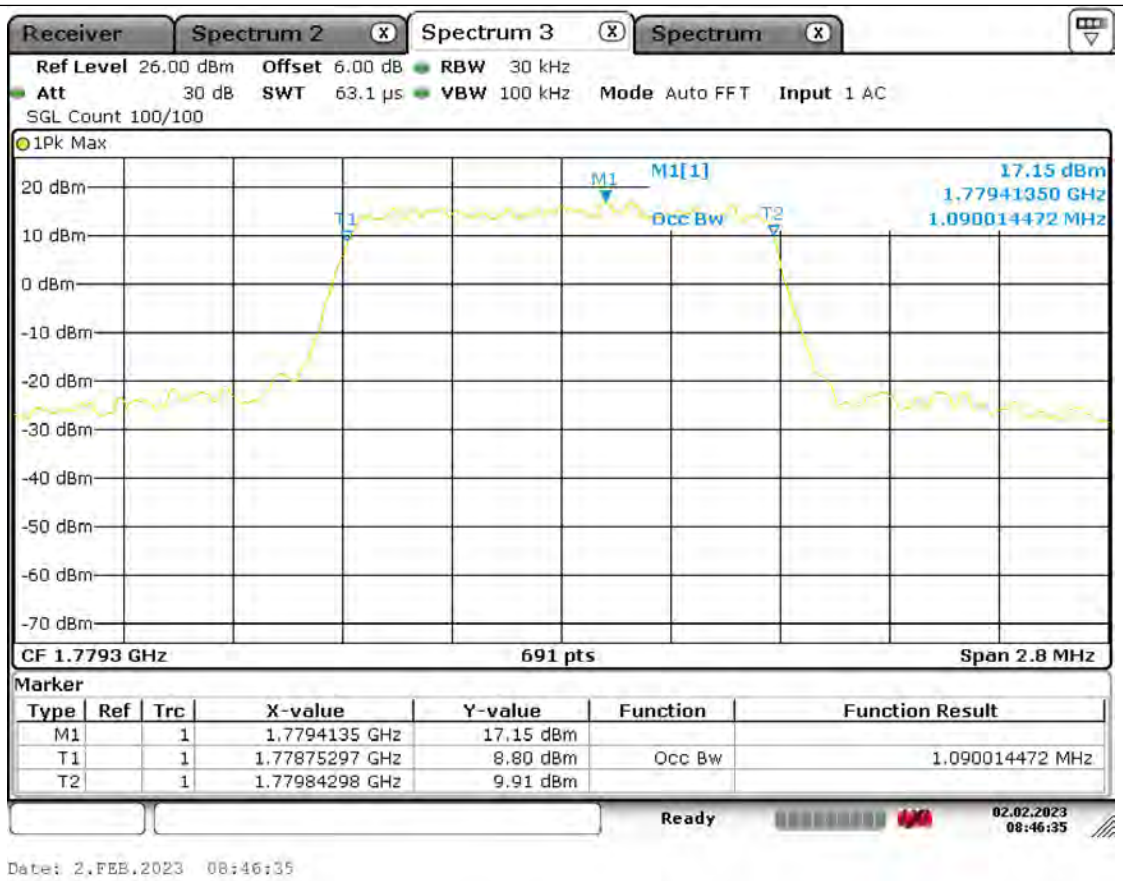
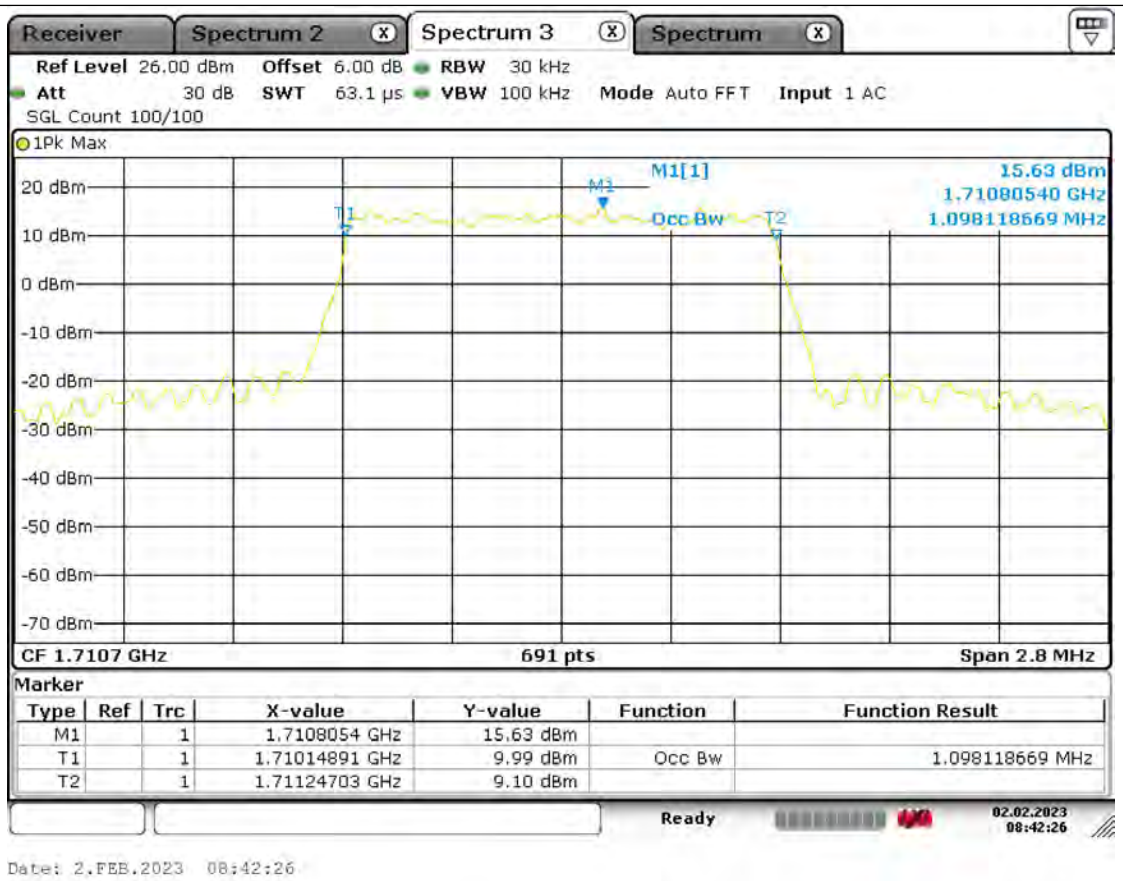


Band66-1.4MHz-16QAM-131979-6RB#0



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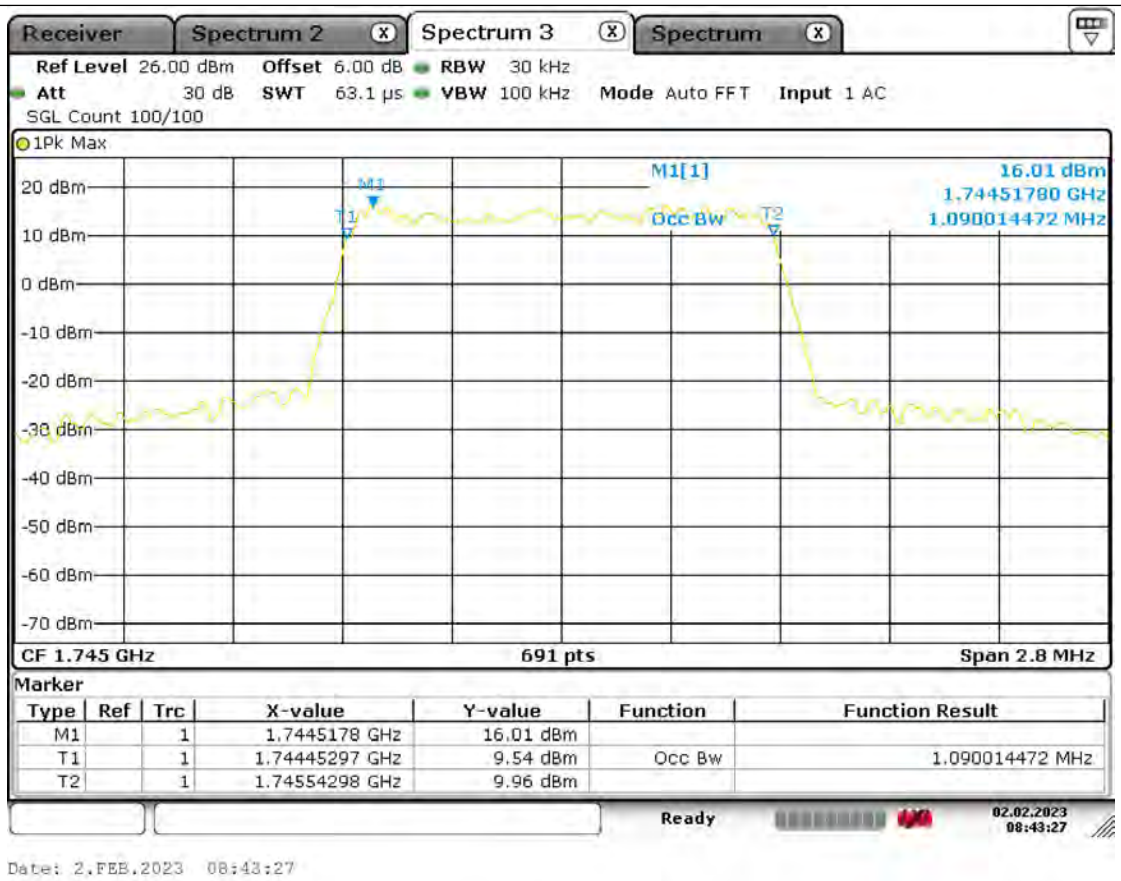

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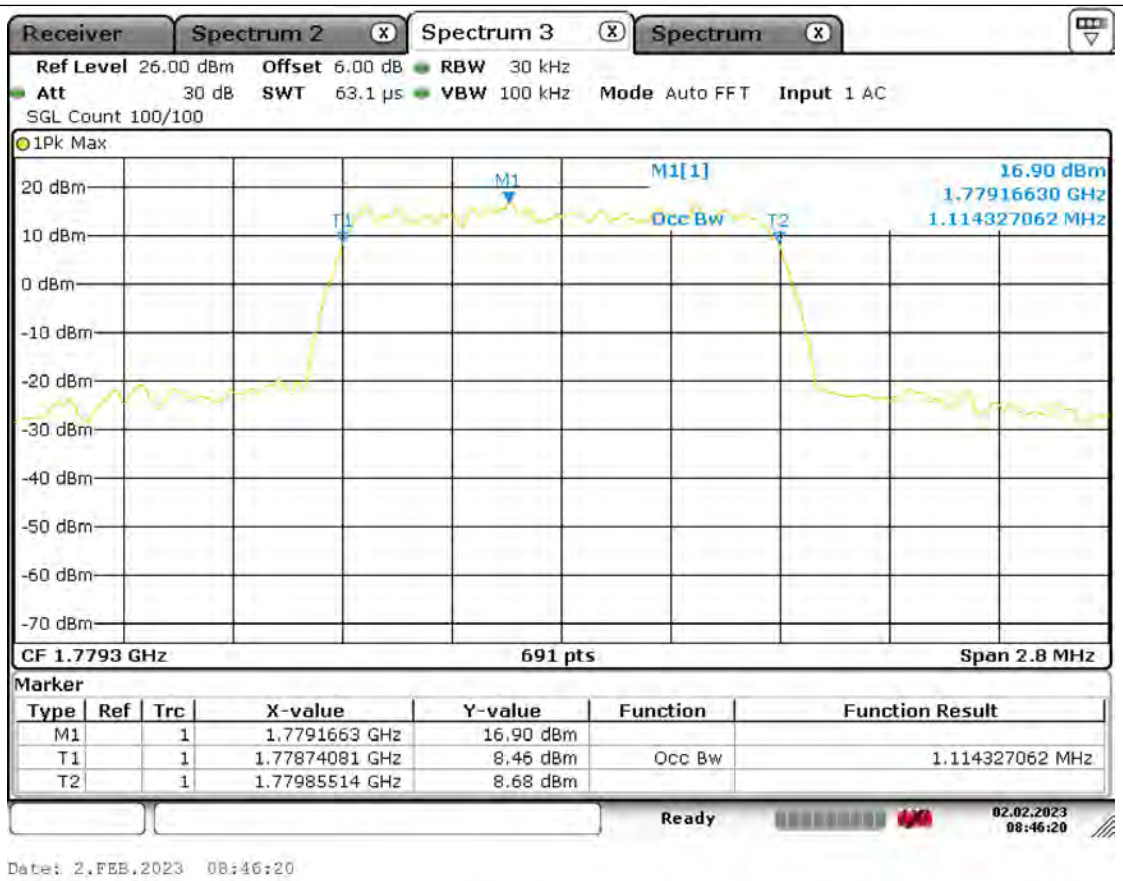
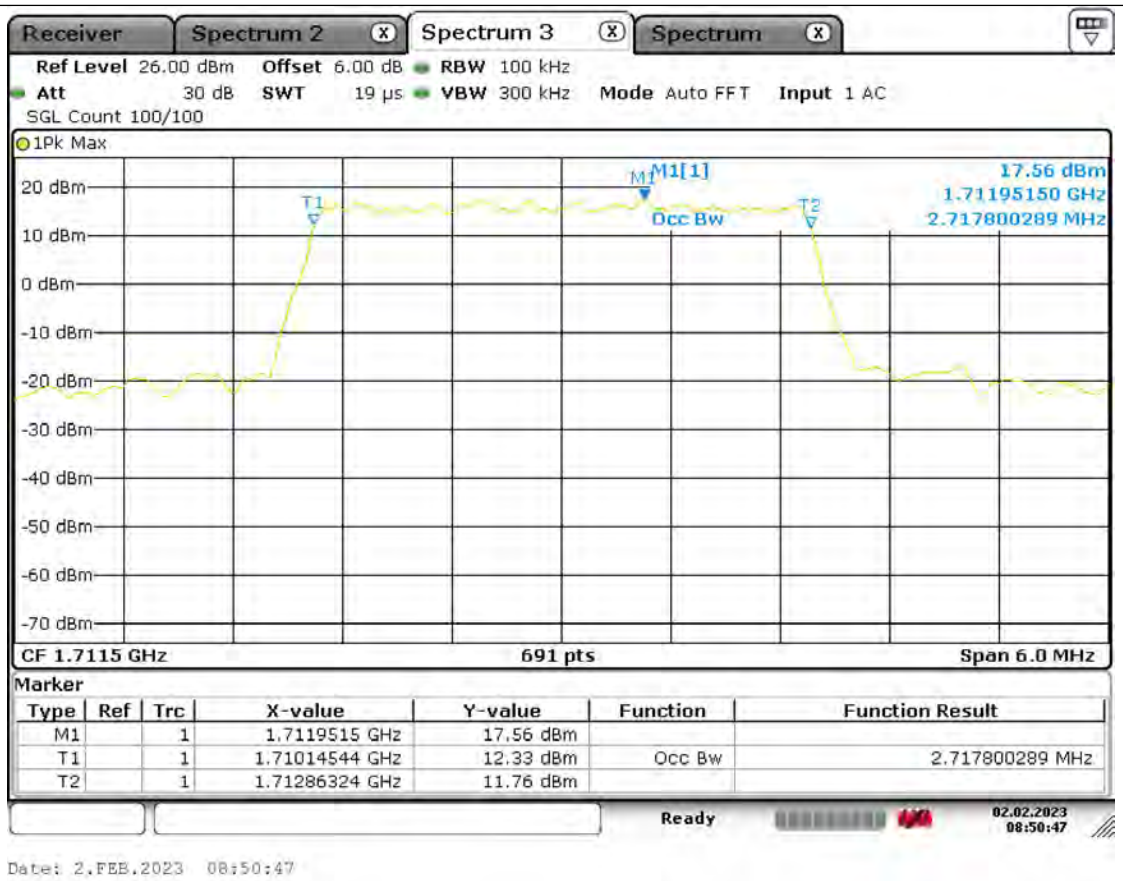
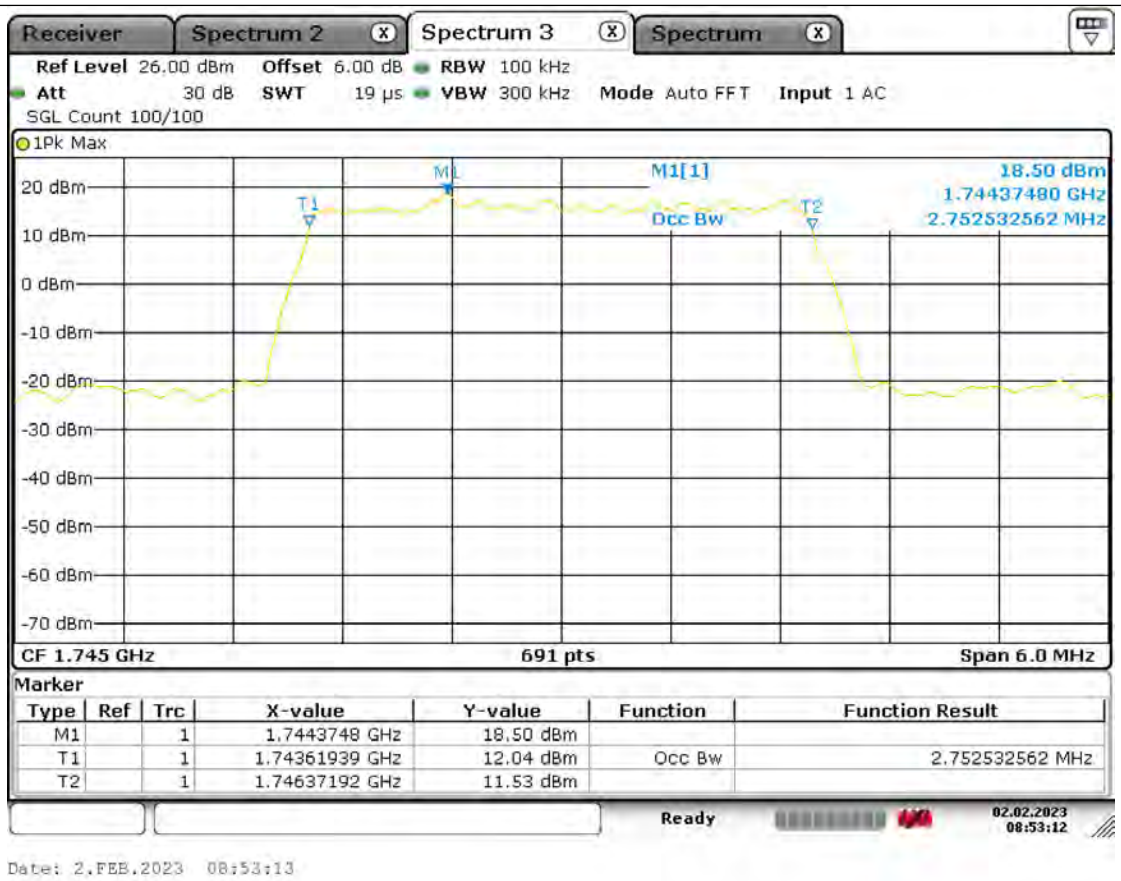


Band66-3MHz-QPSK-131987-15RB#0



Band66-3MHz-QPSK-132322-15RB#0



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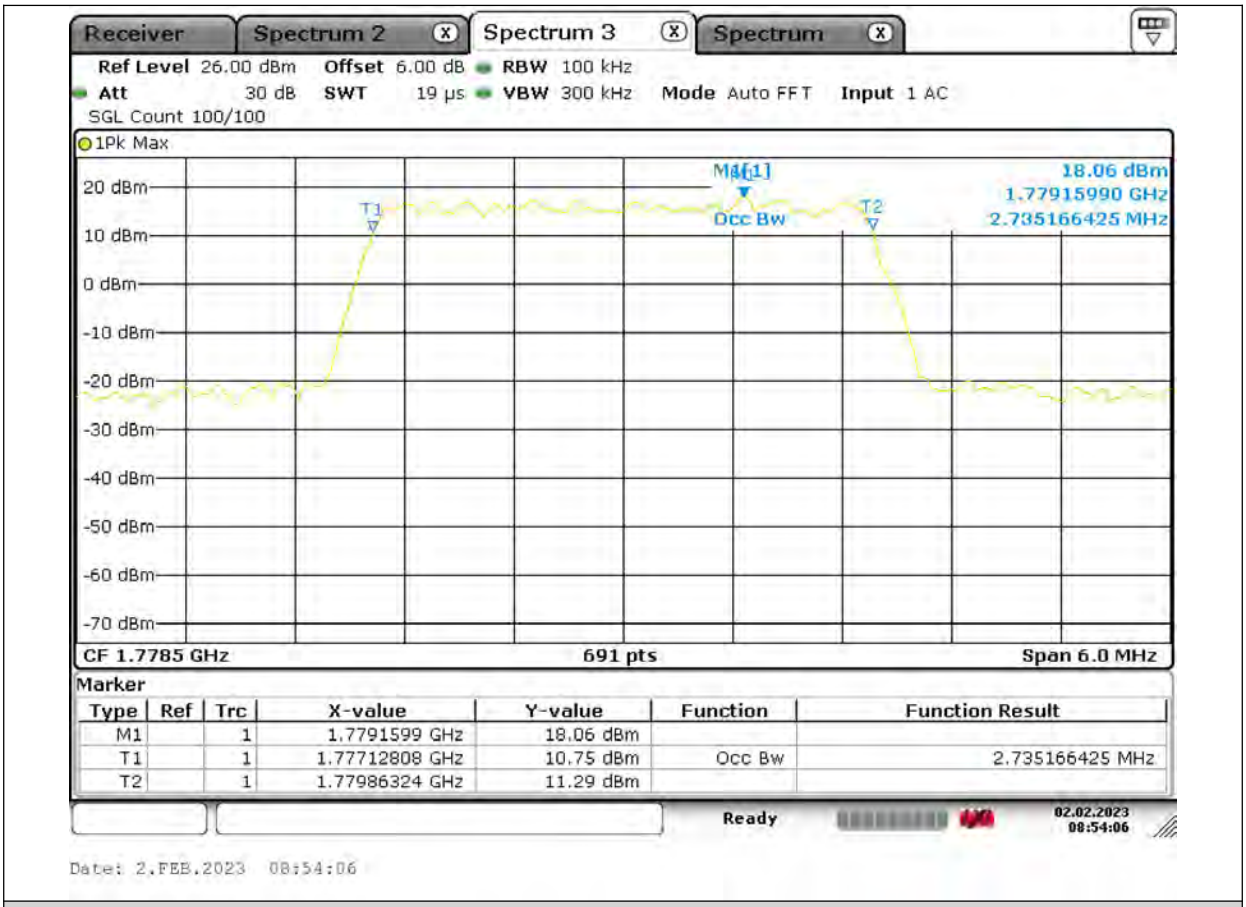

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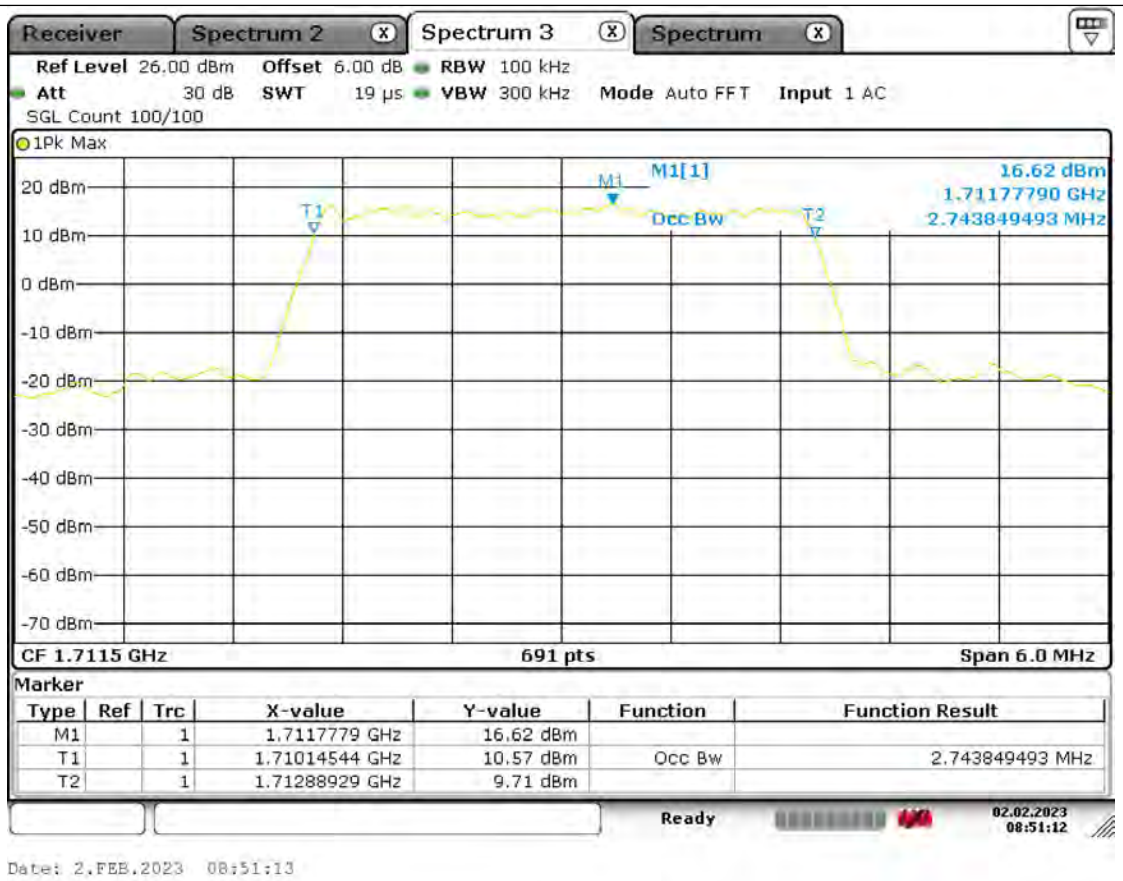

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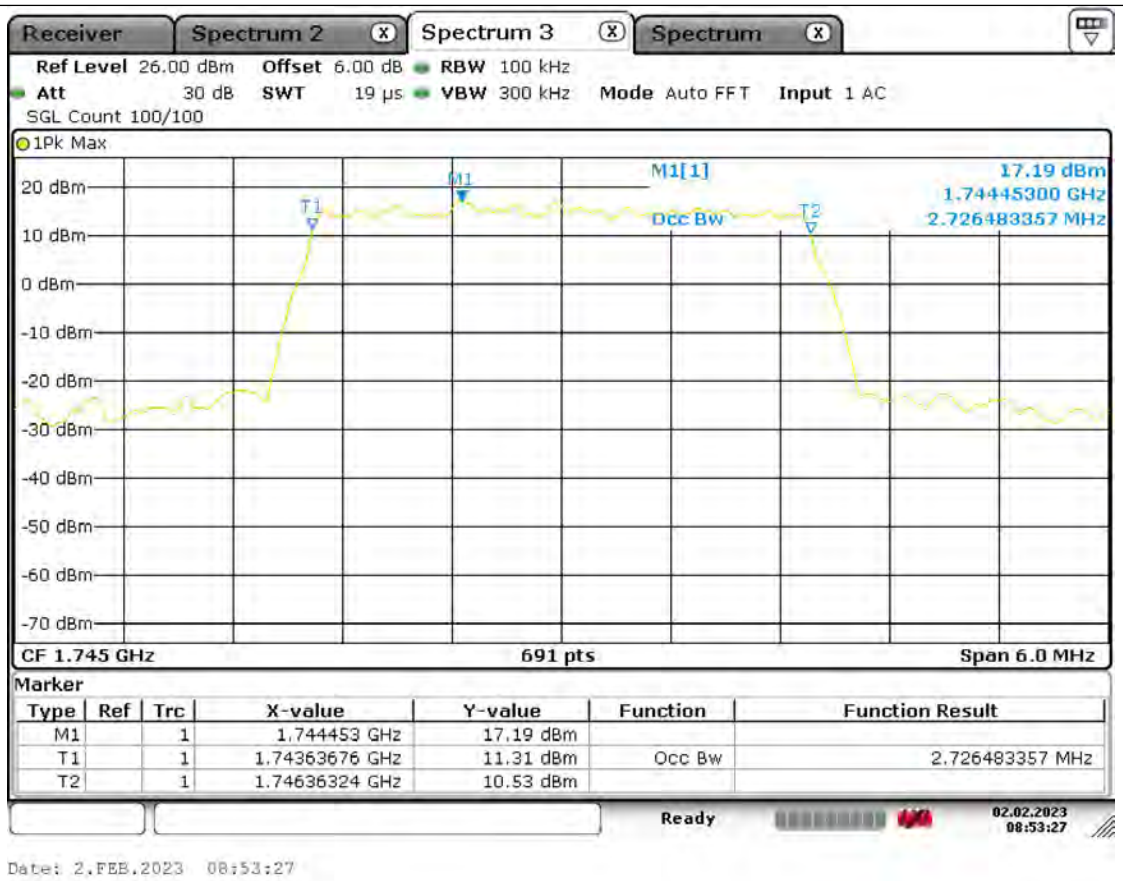

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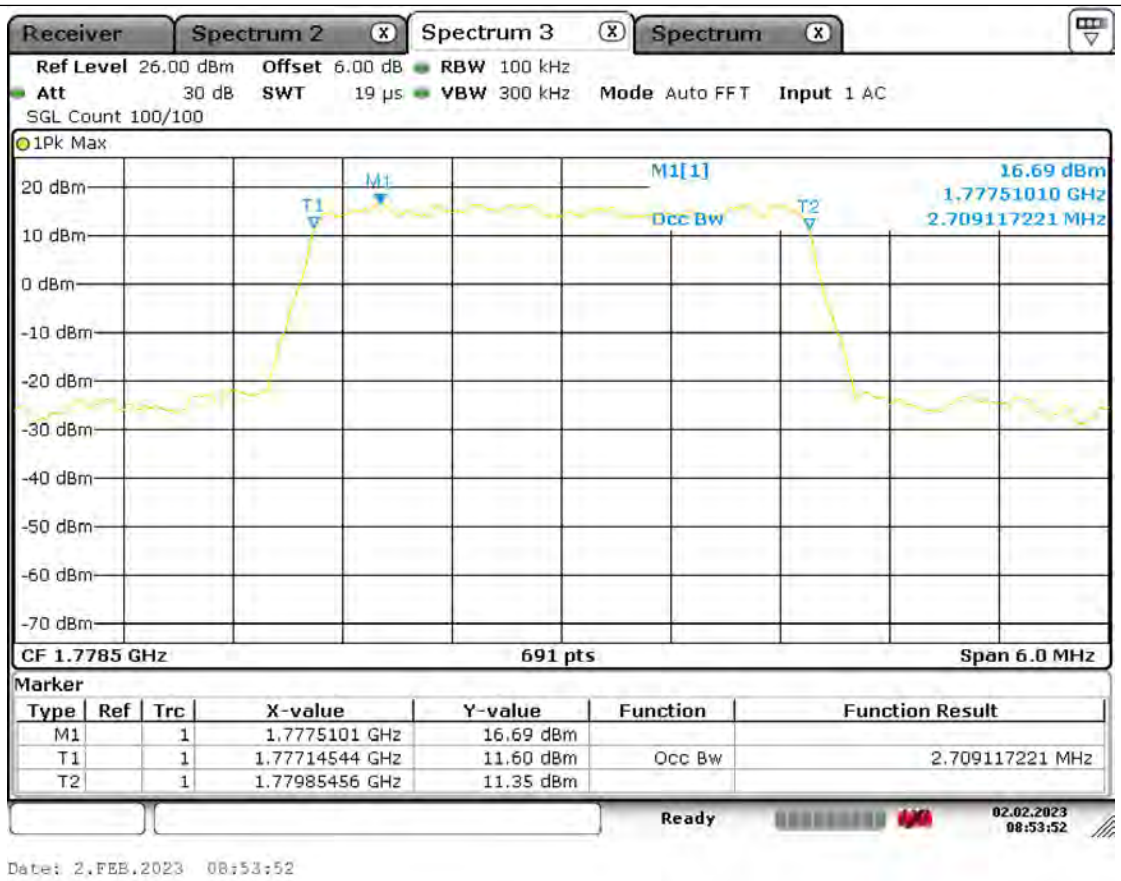

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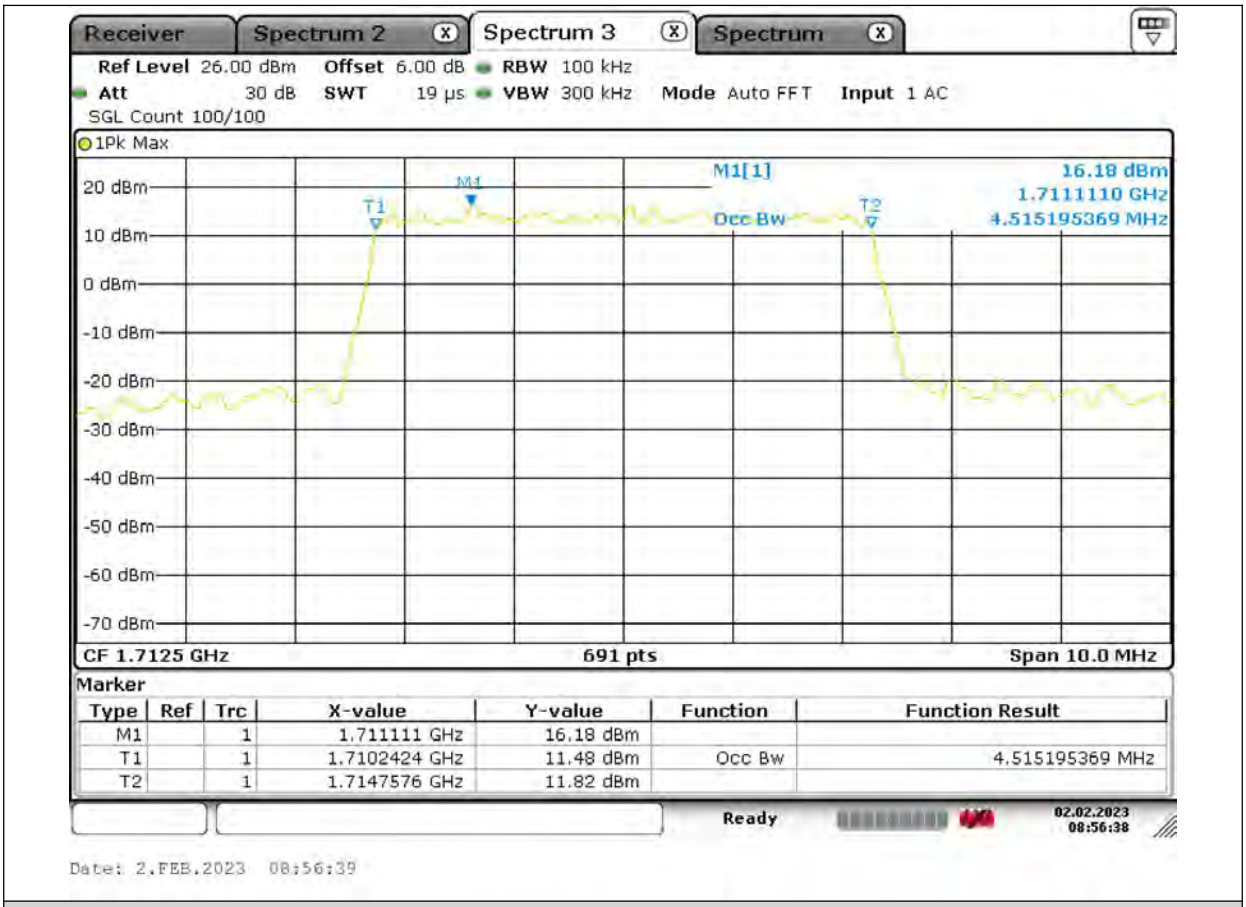

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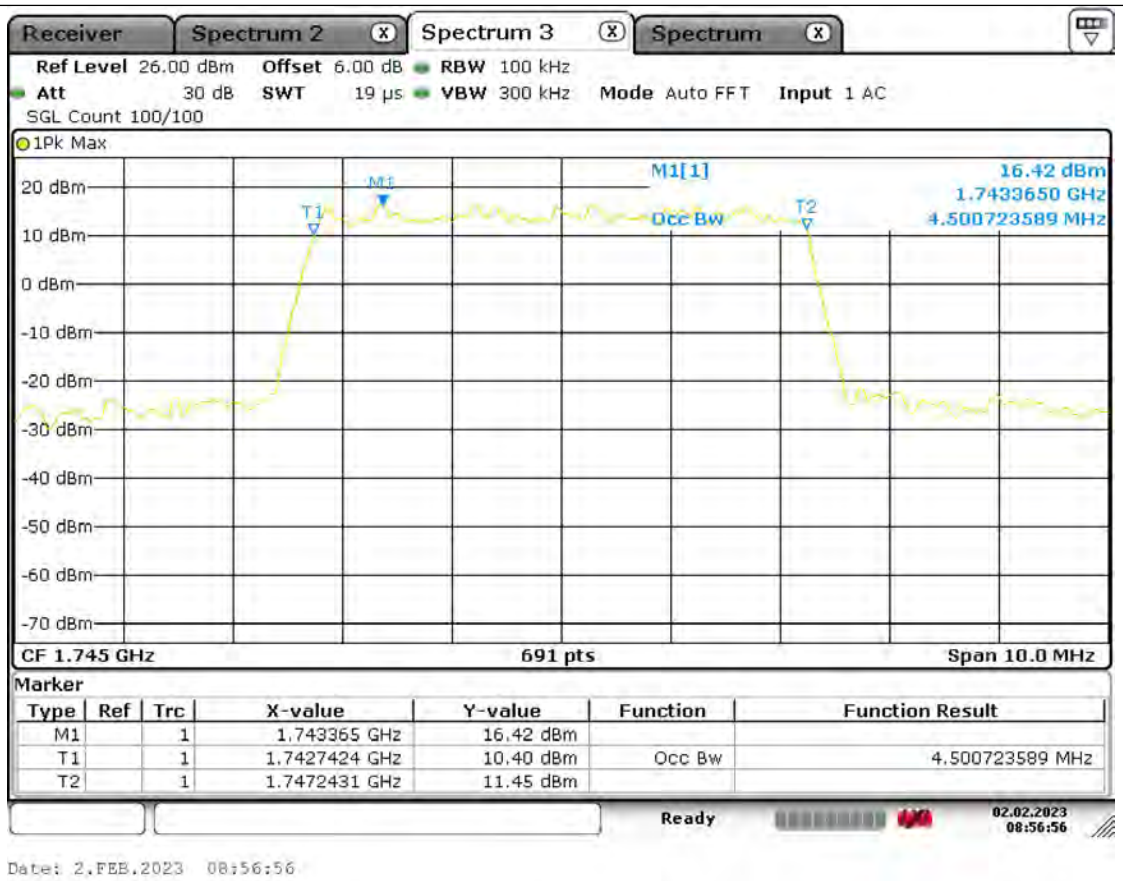

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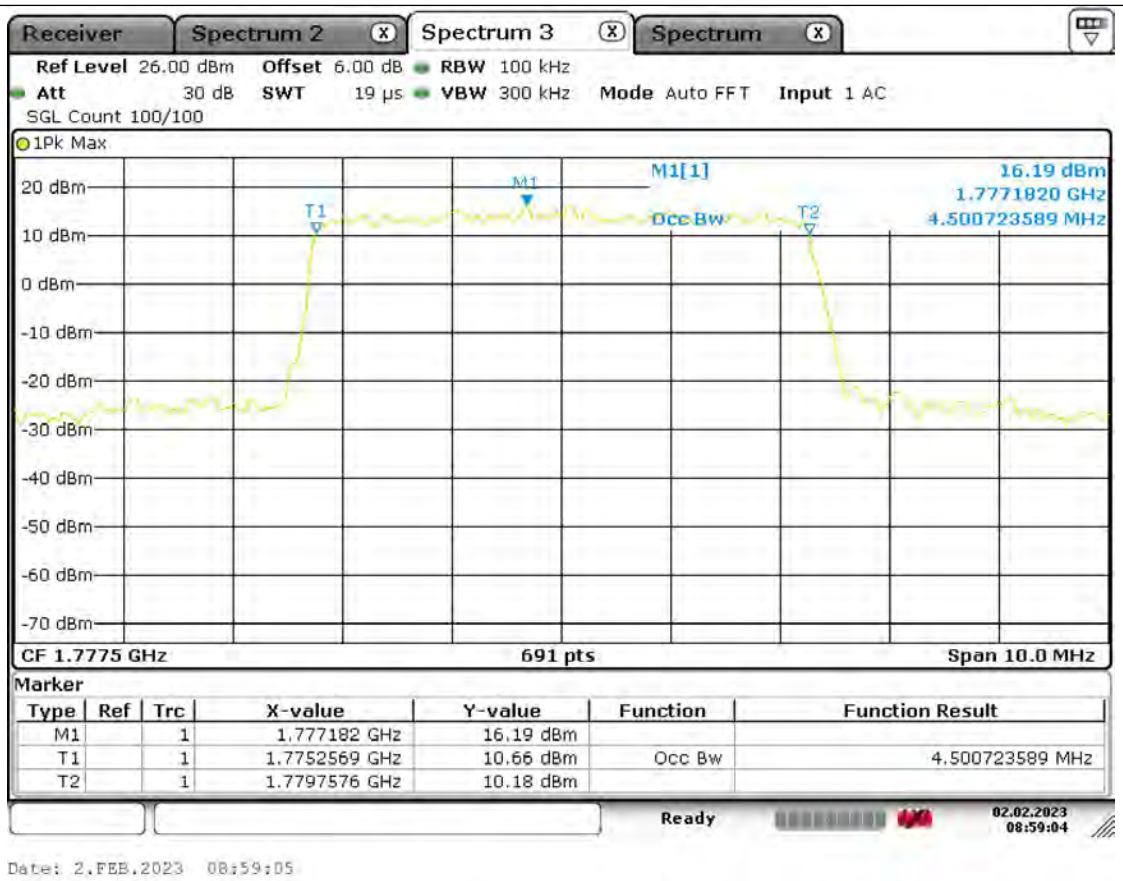

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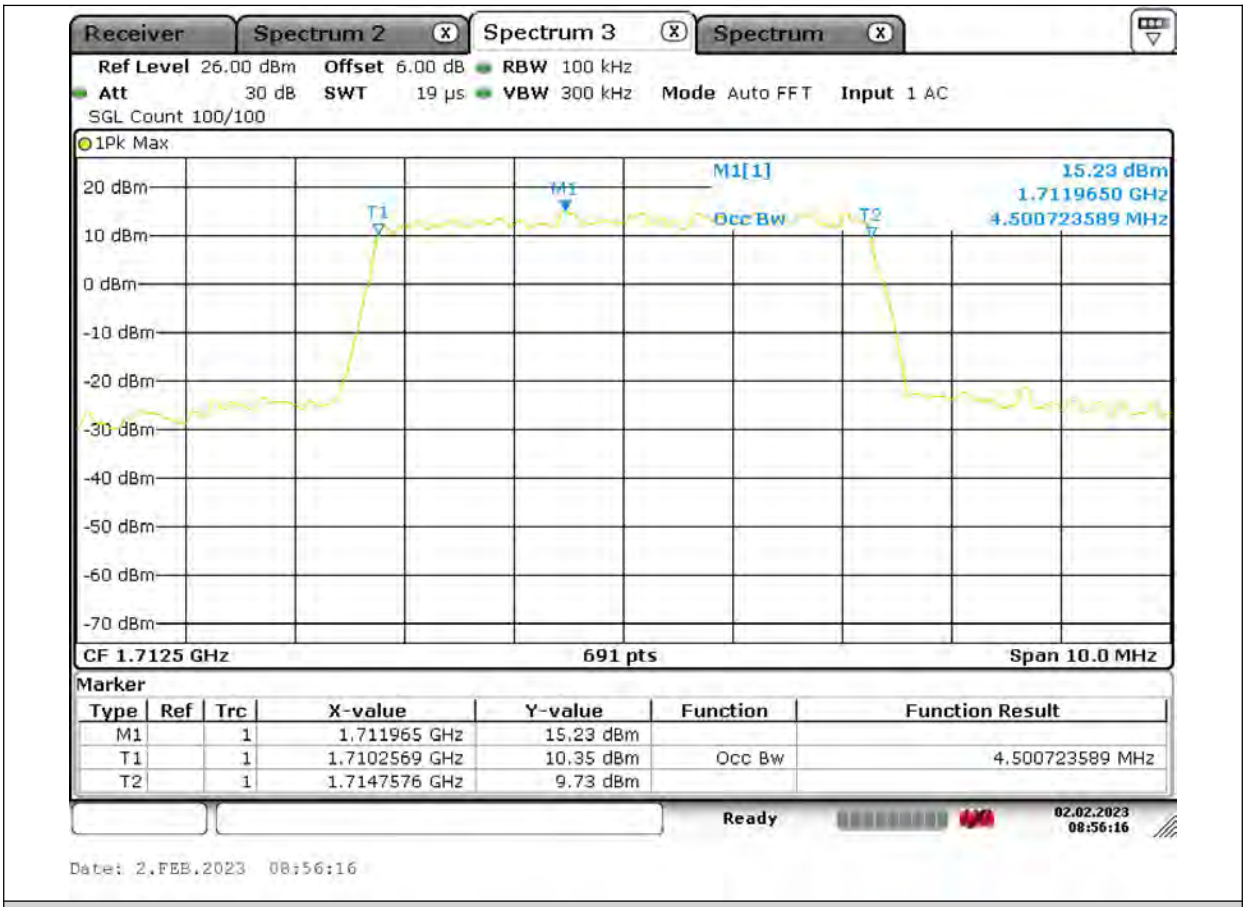

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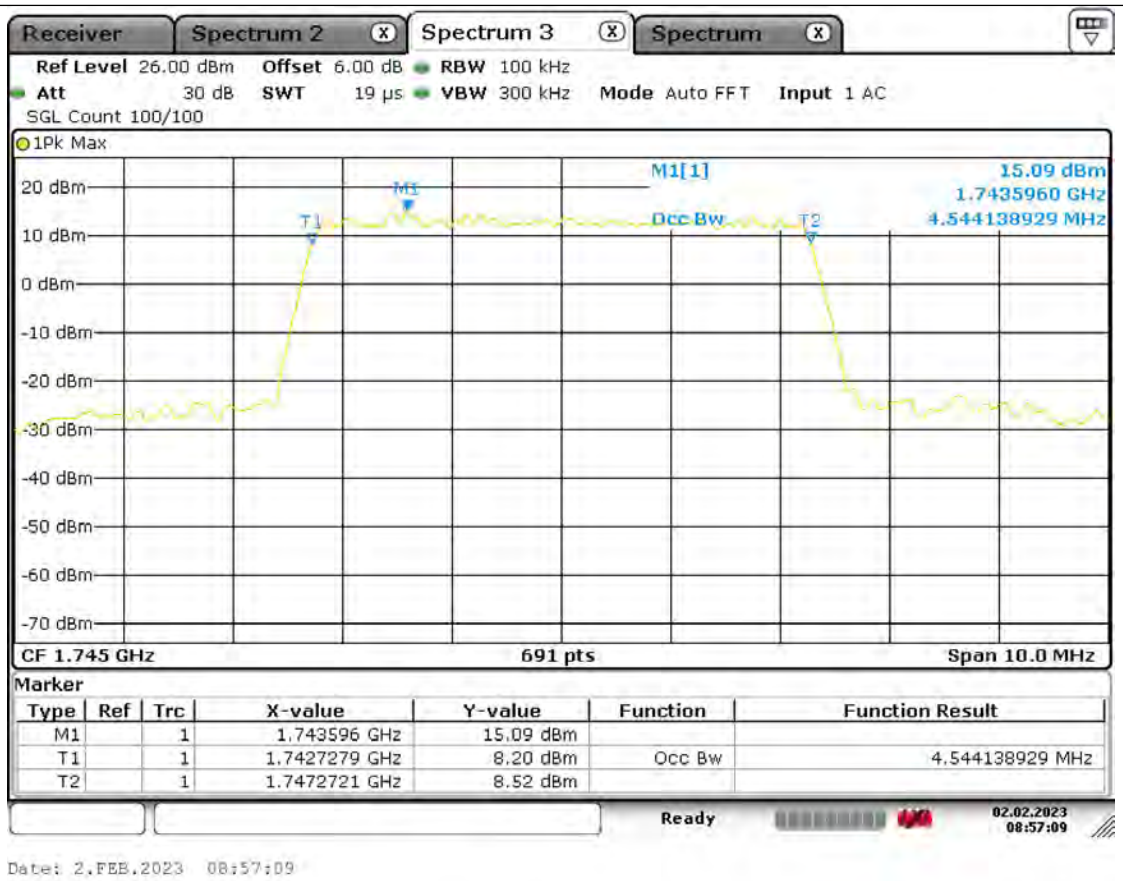

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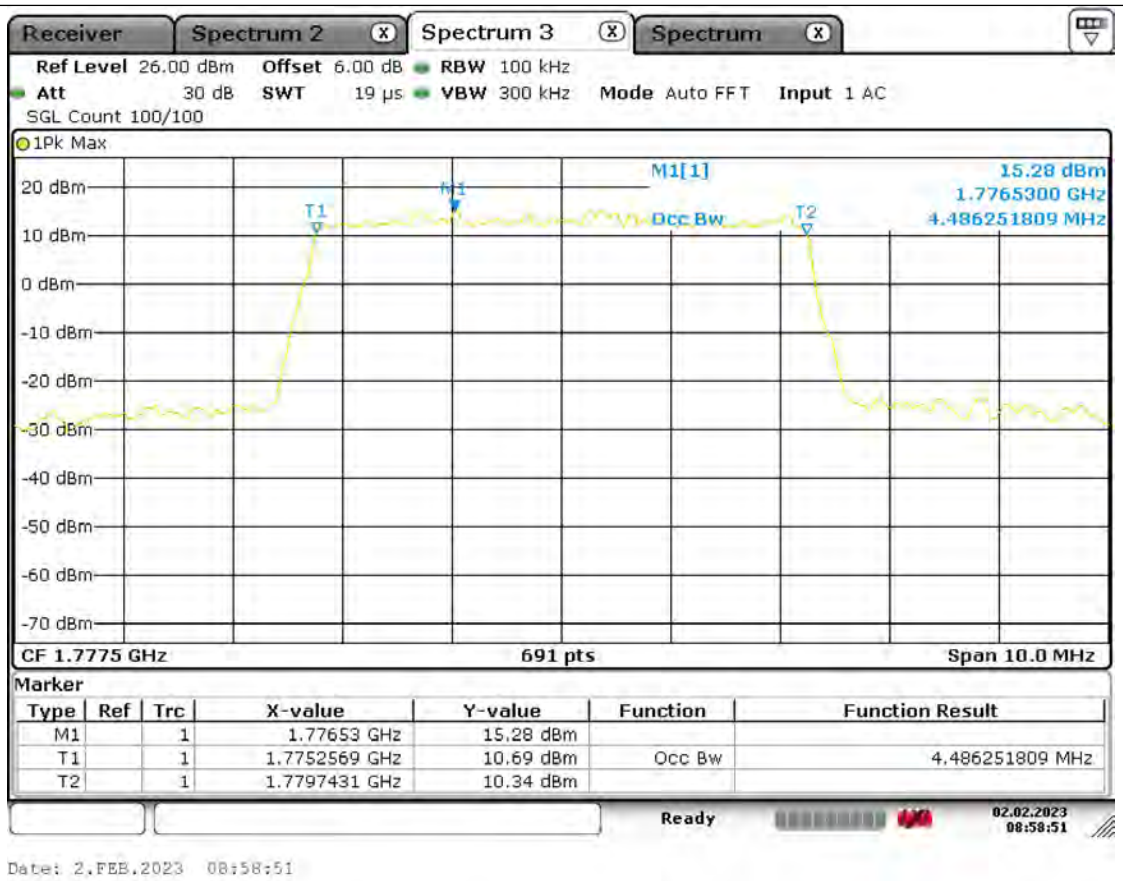
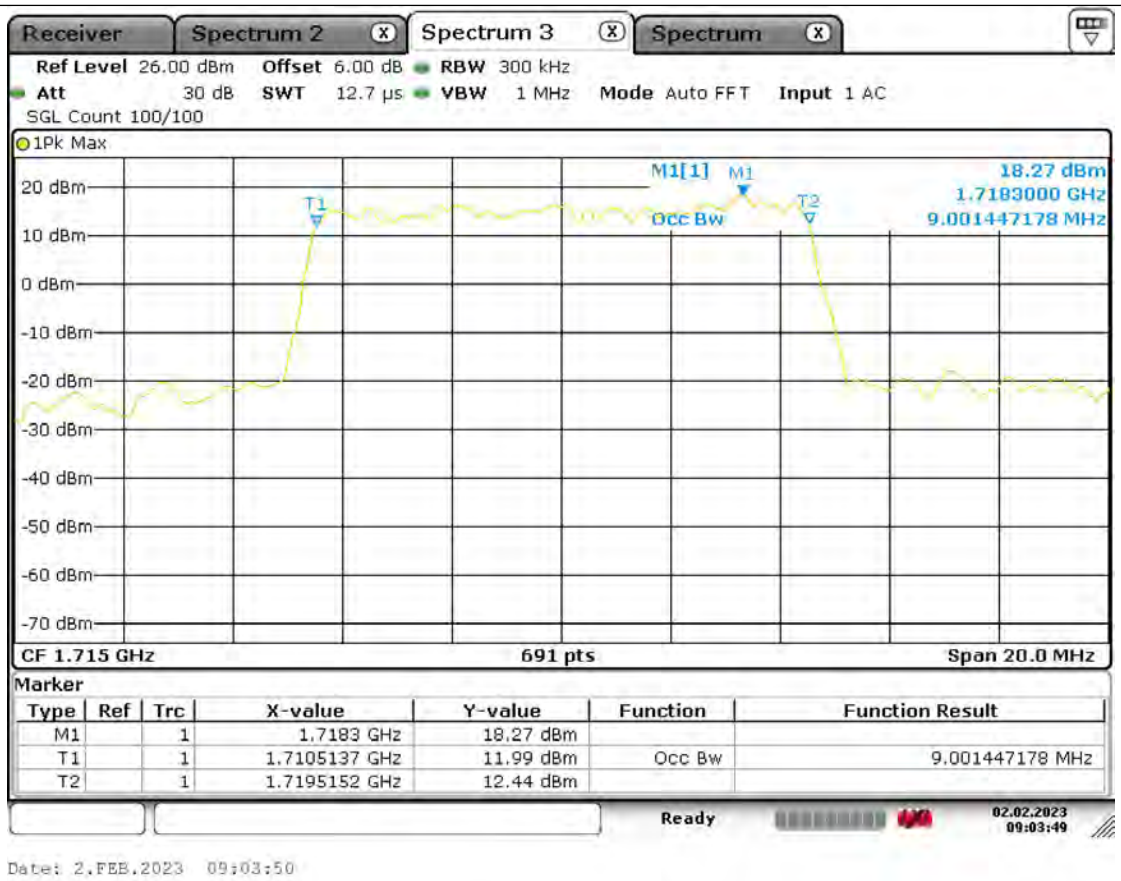


Band66-10MHz-QPSK-132022-50RB#0



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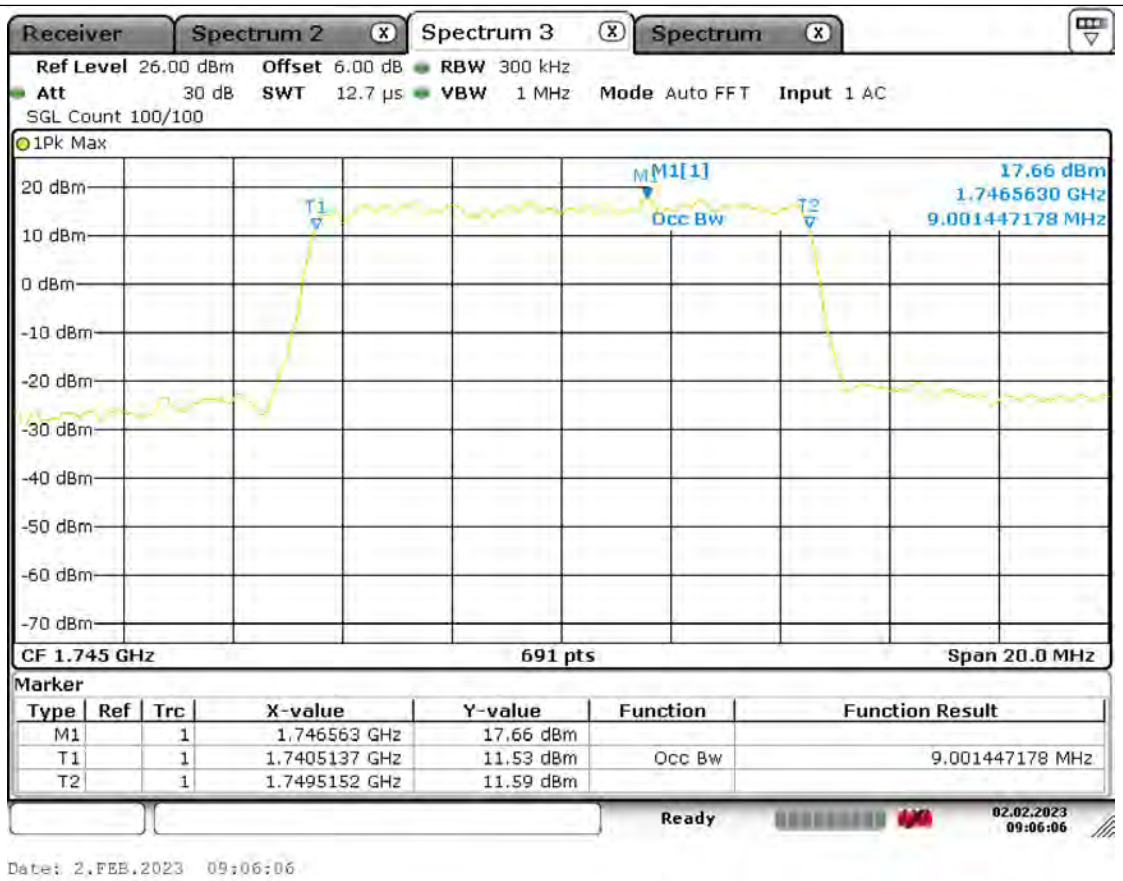

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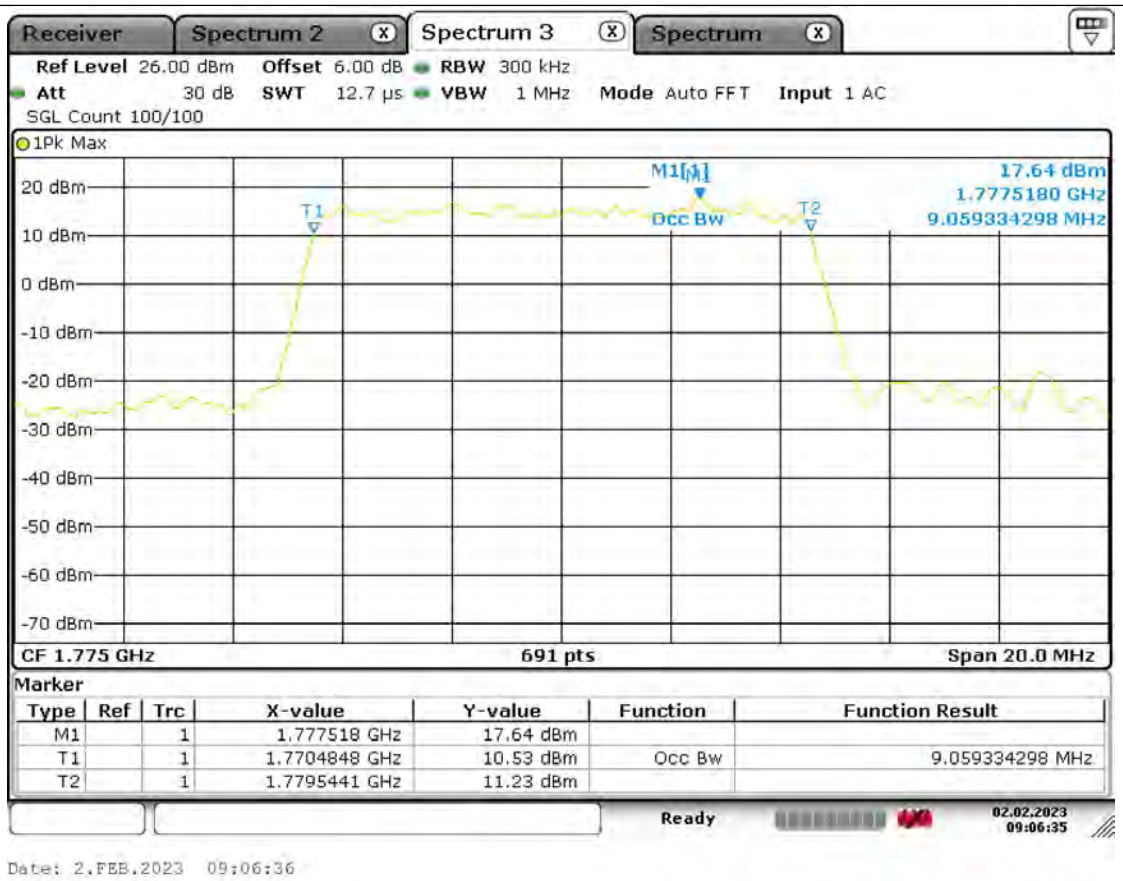

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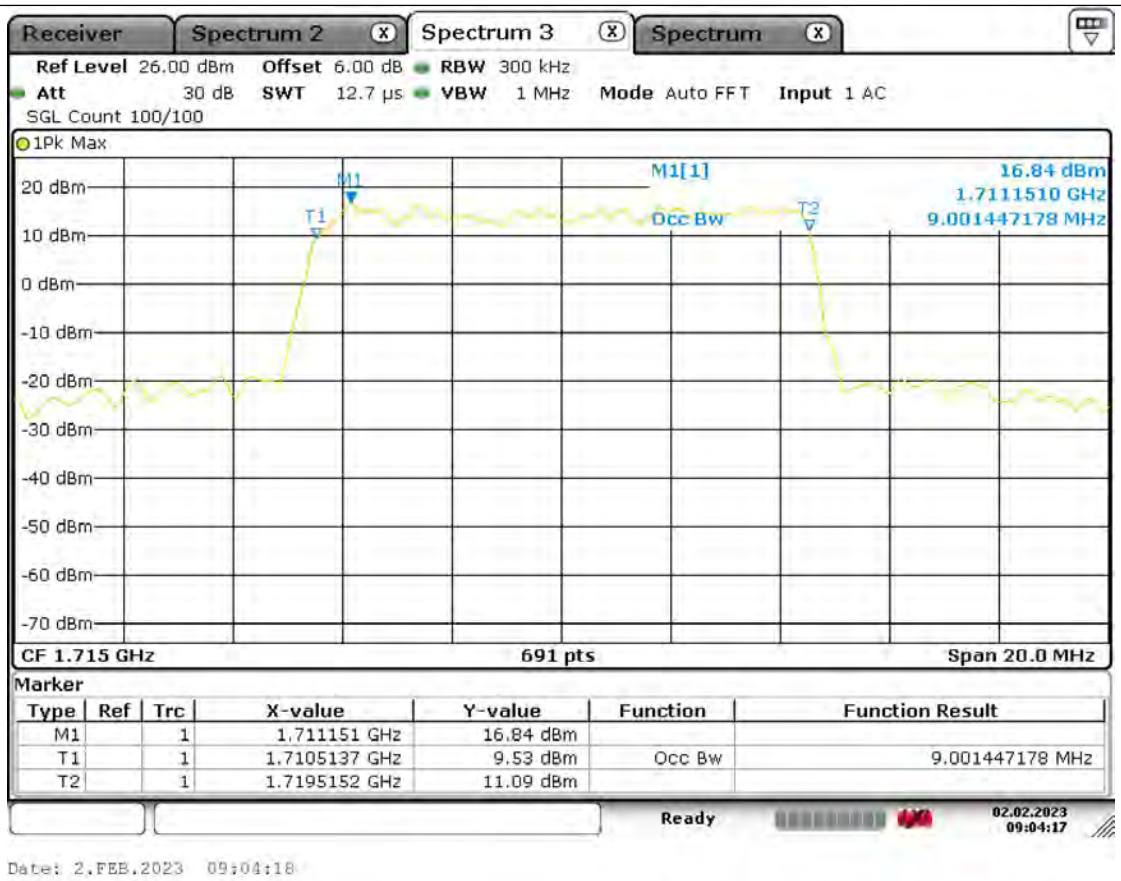

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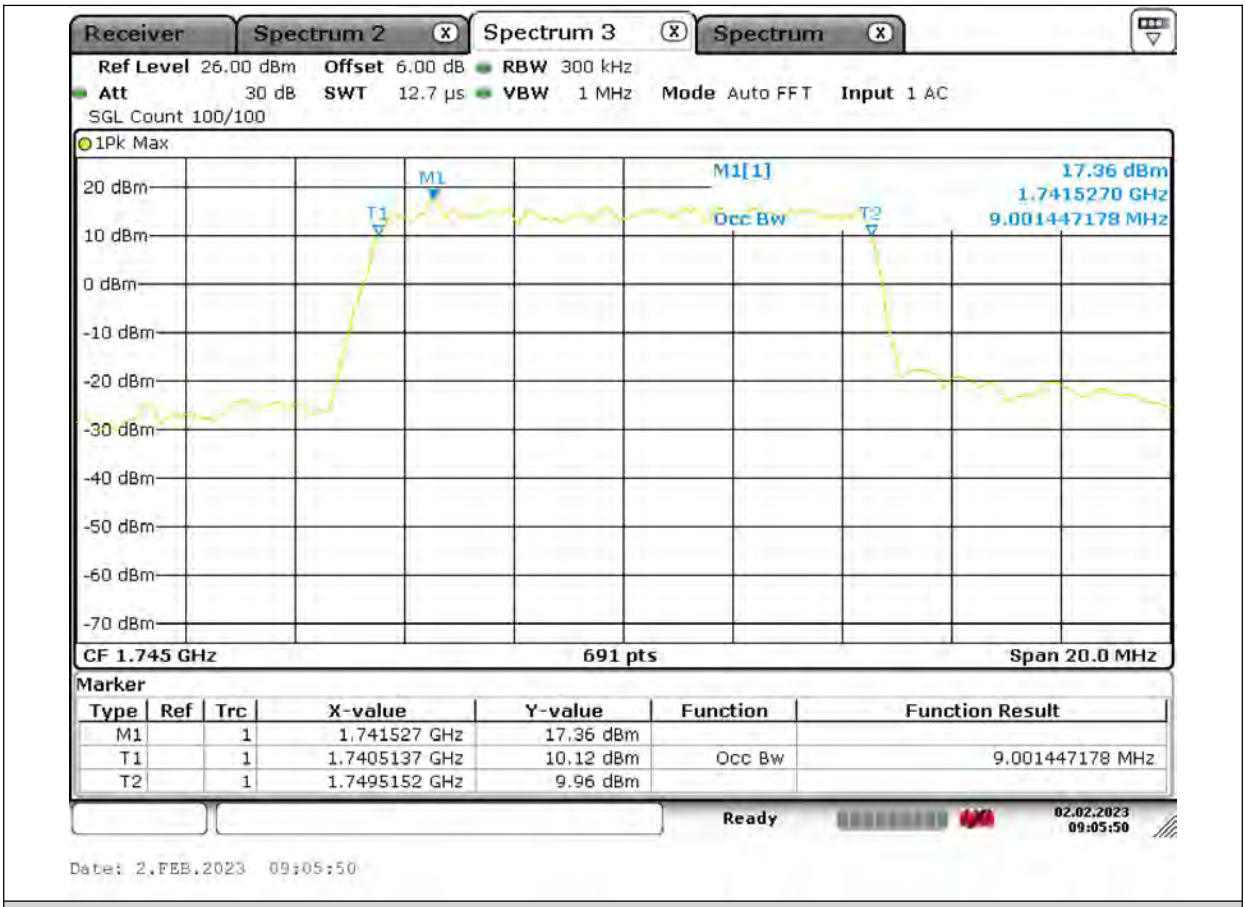

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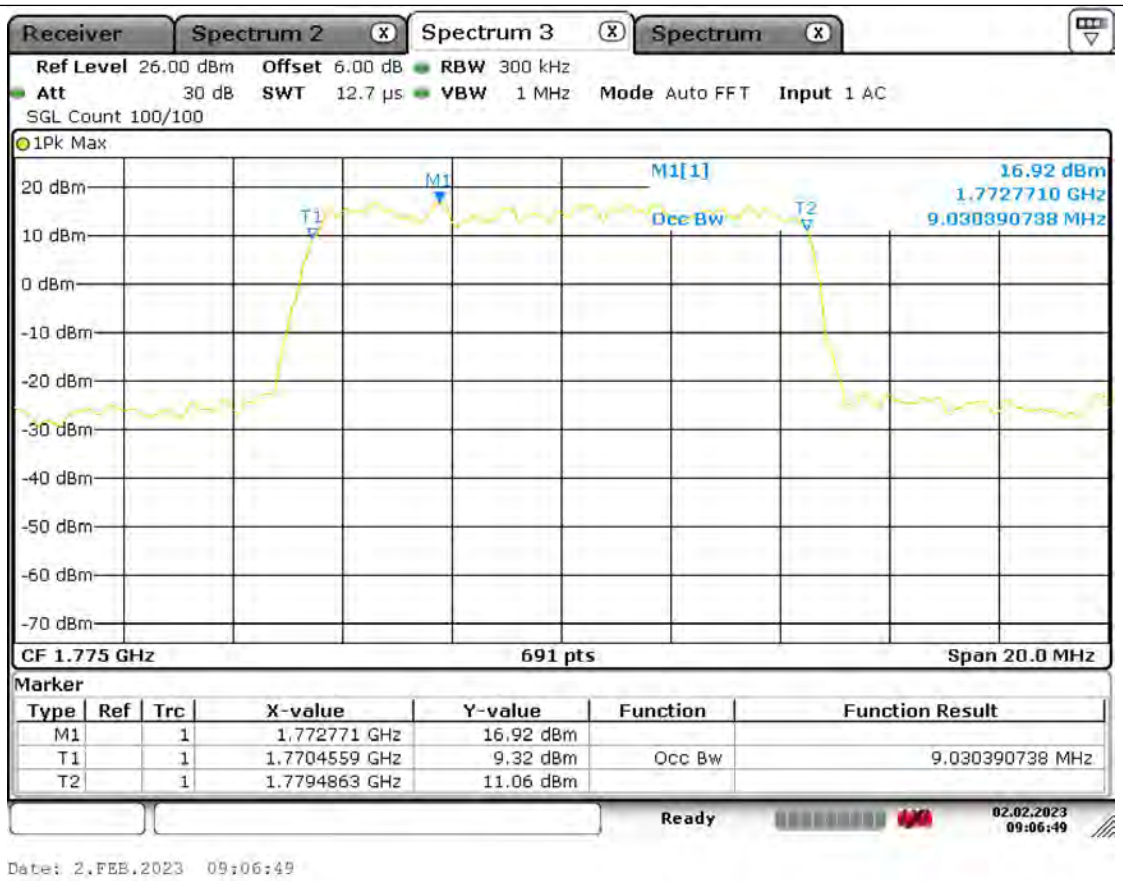
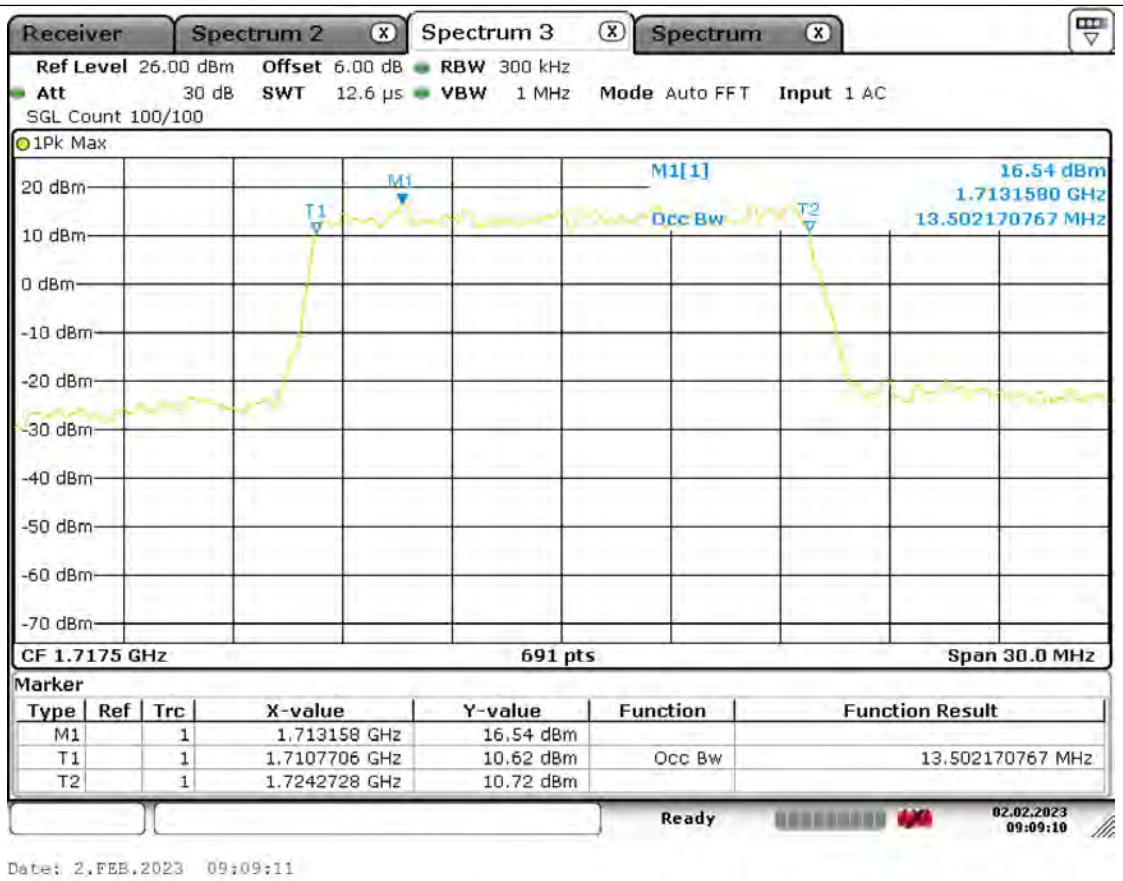


Band66-15MHz-QPSK-132047-75RB#0



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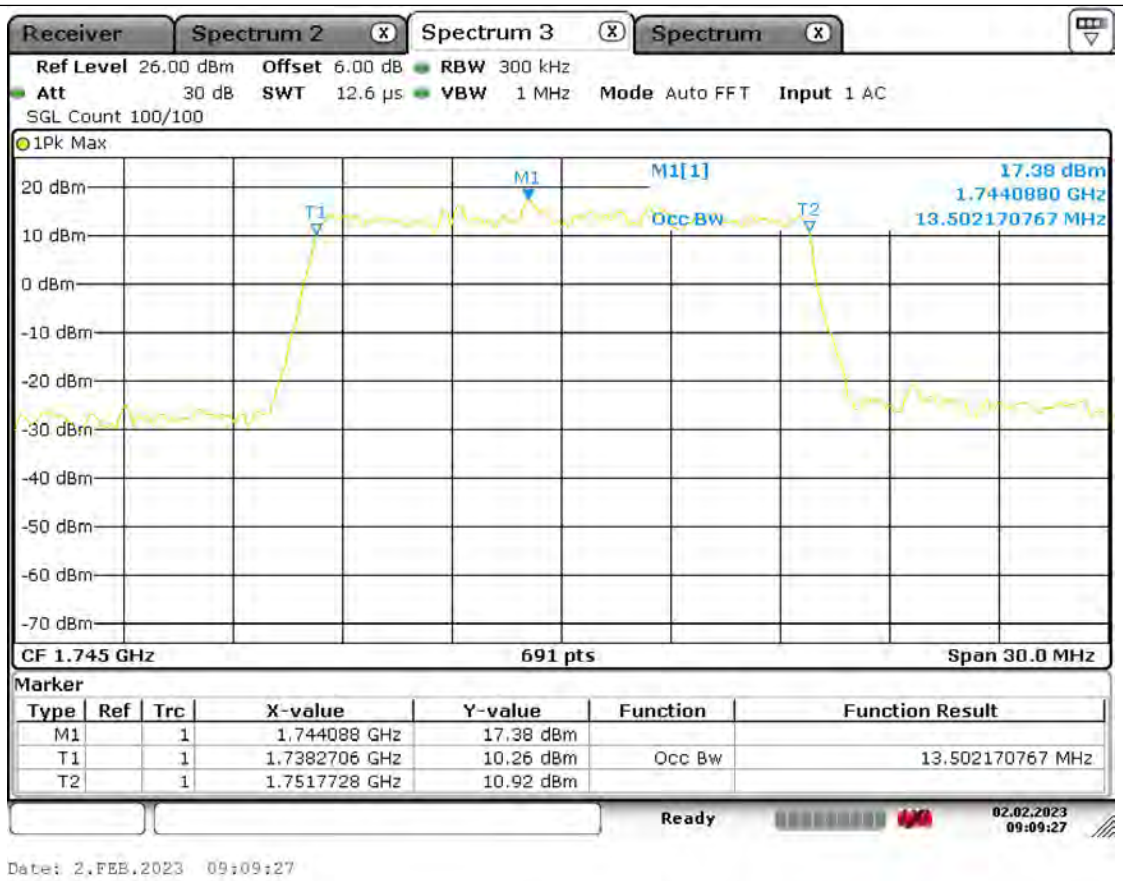

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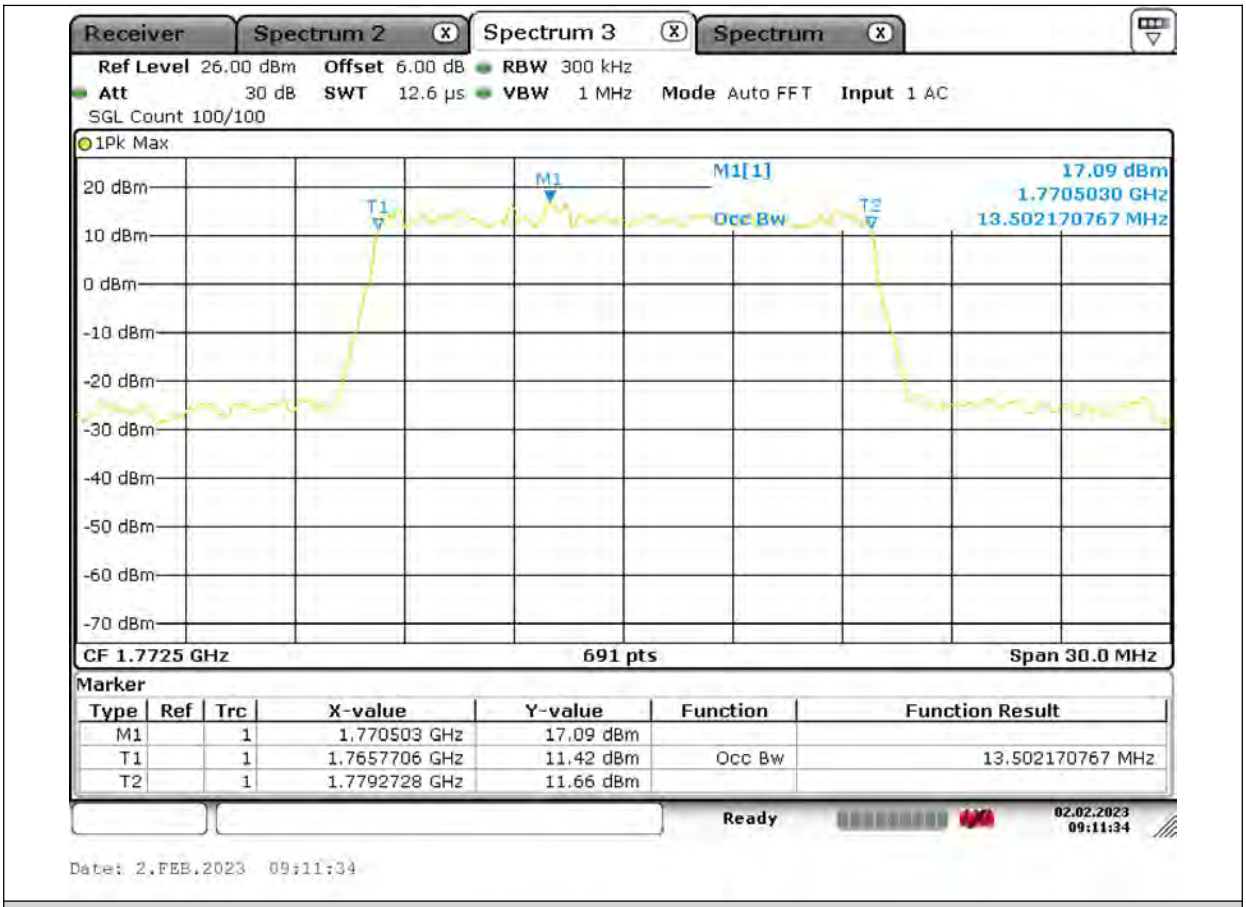

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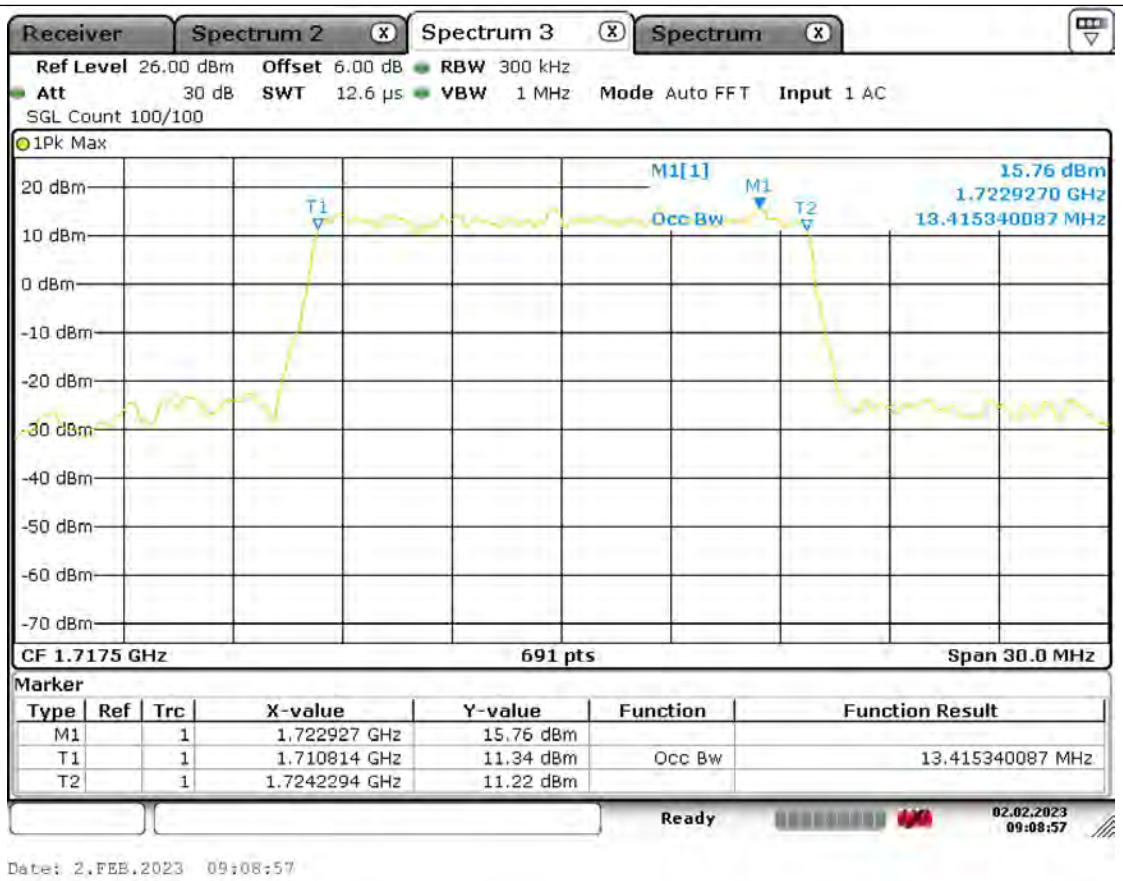

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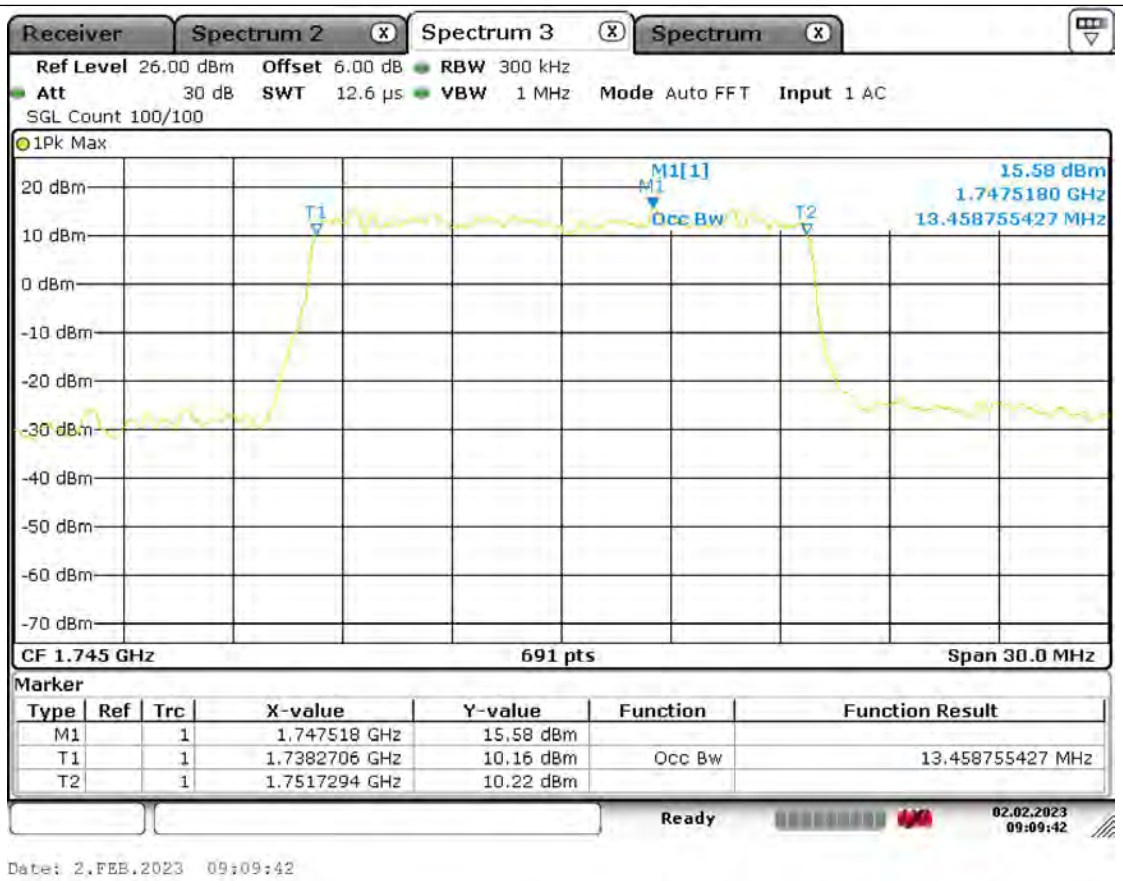

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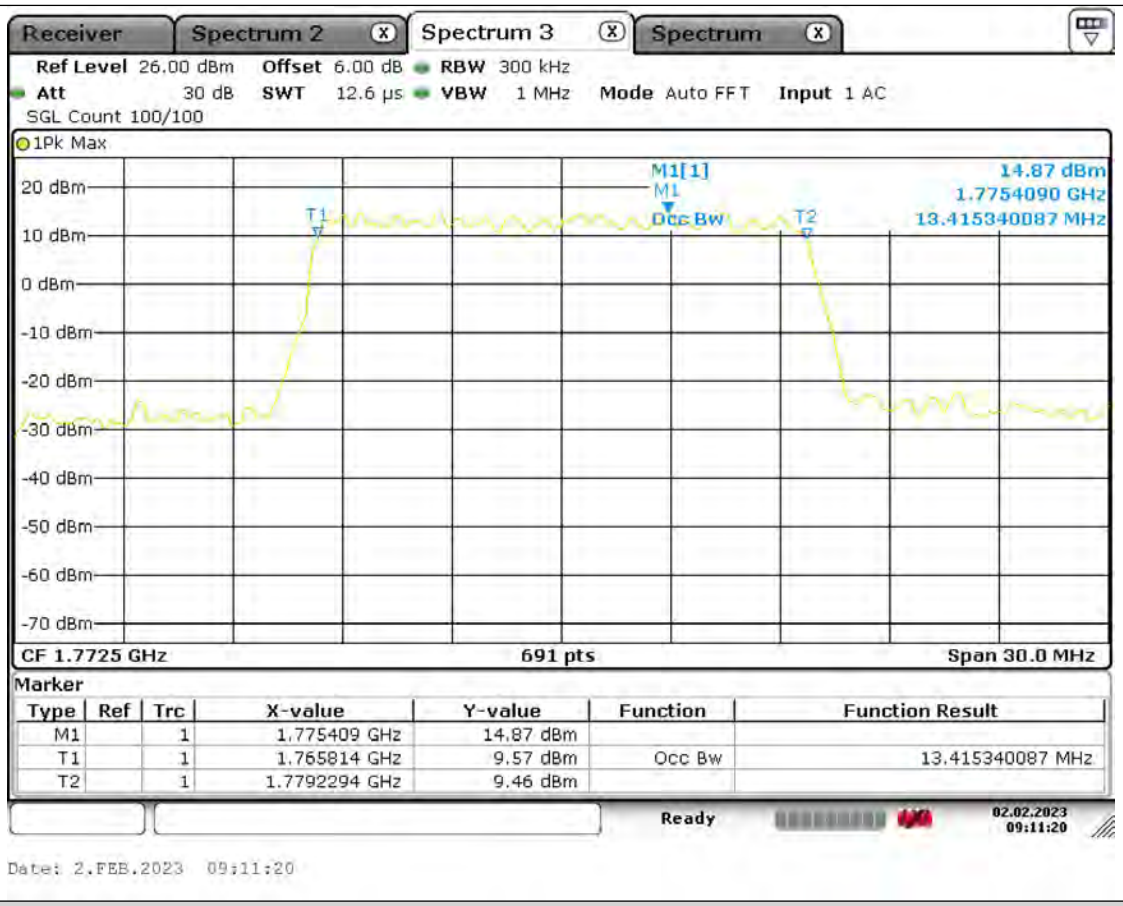

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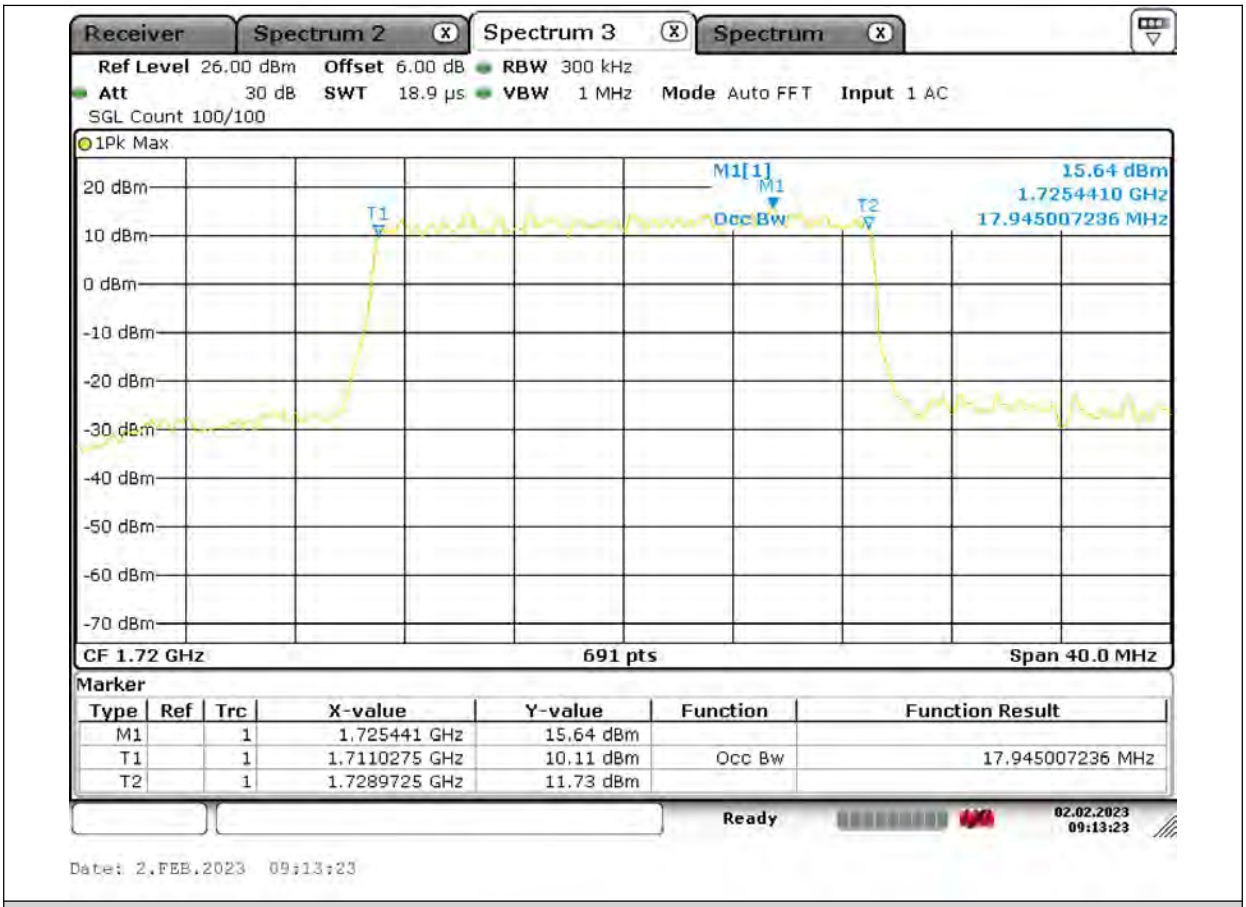

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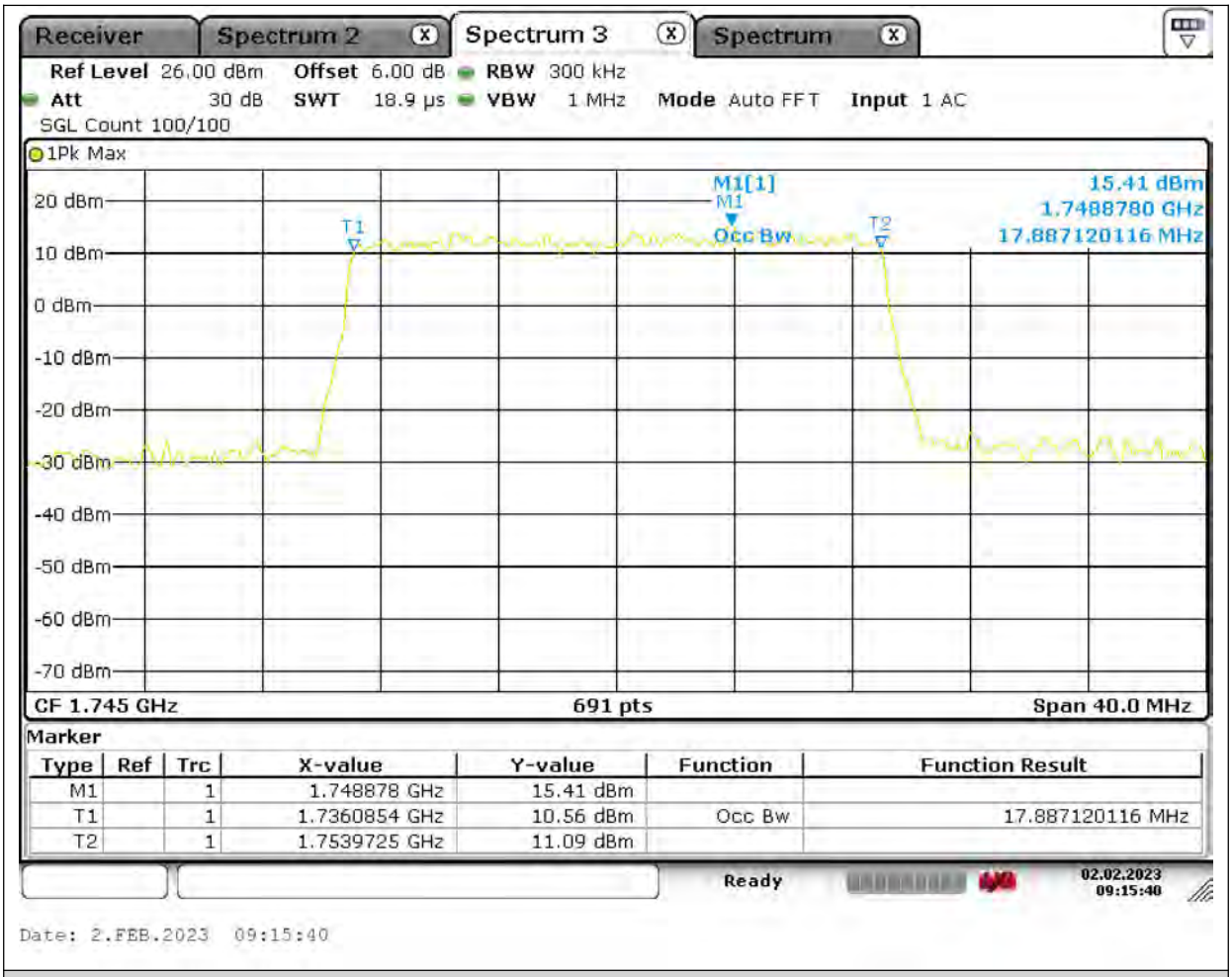

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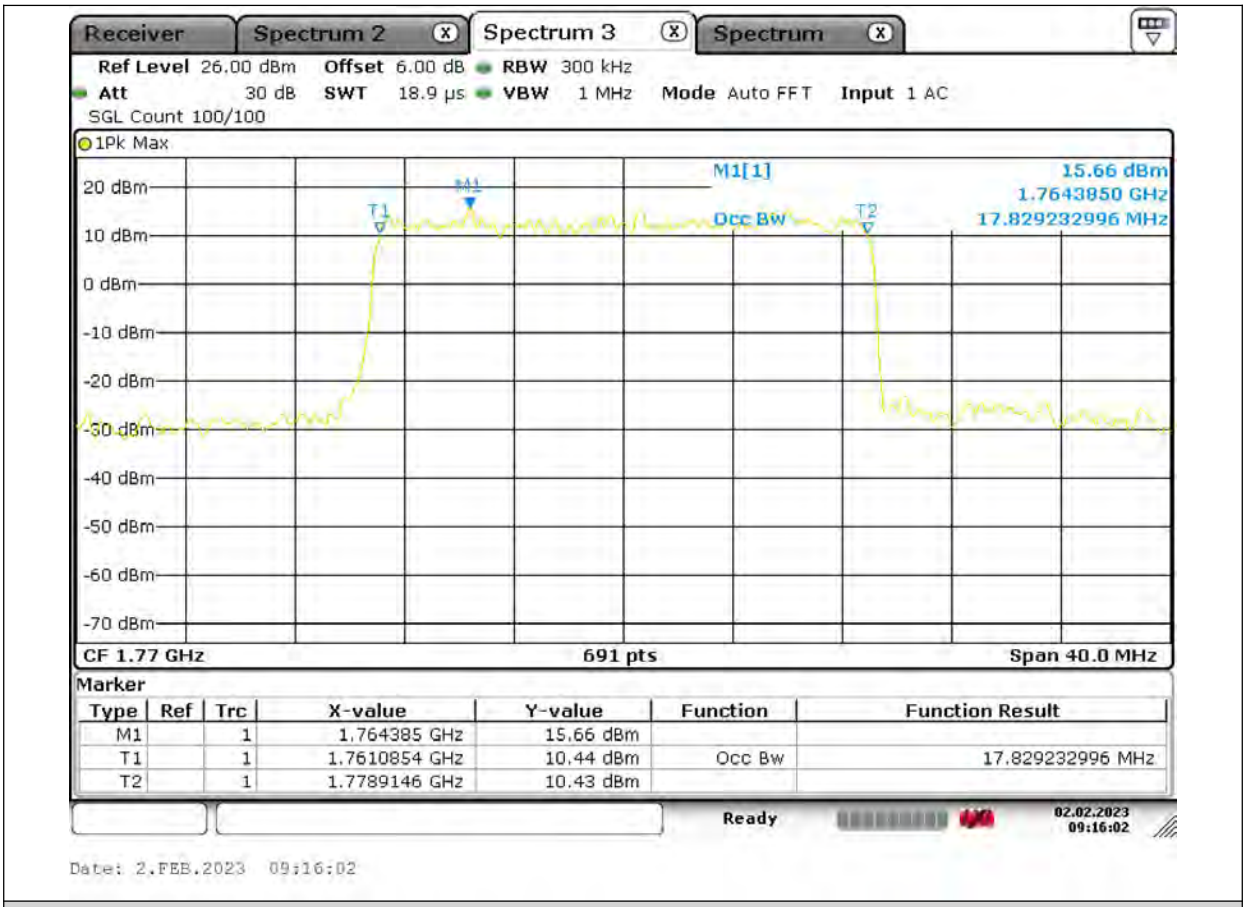

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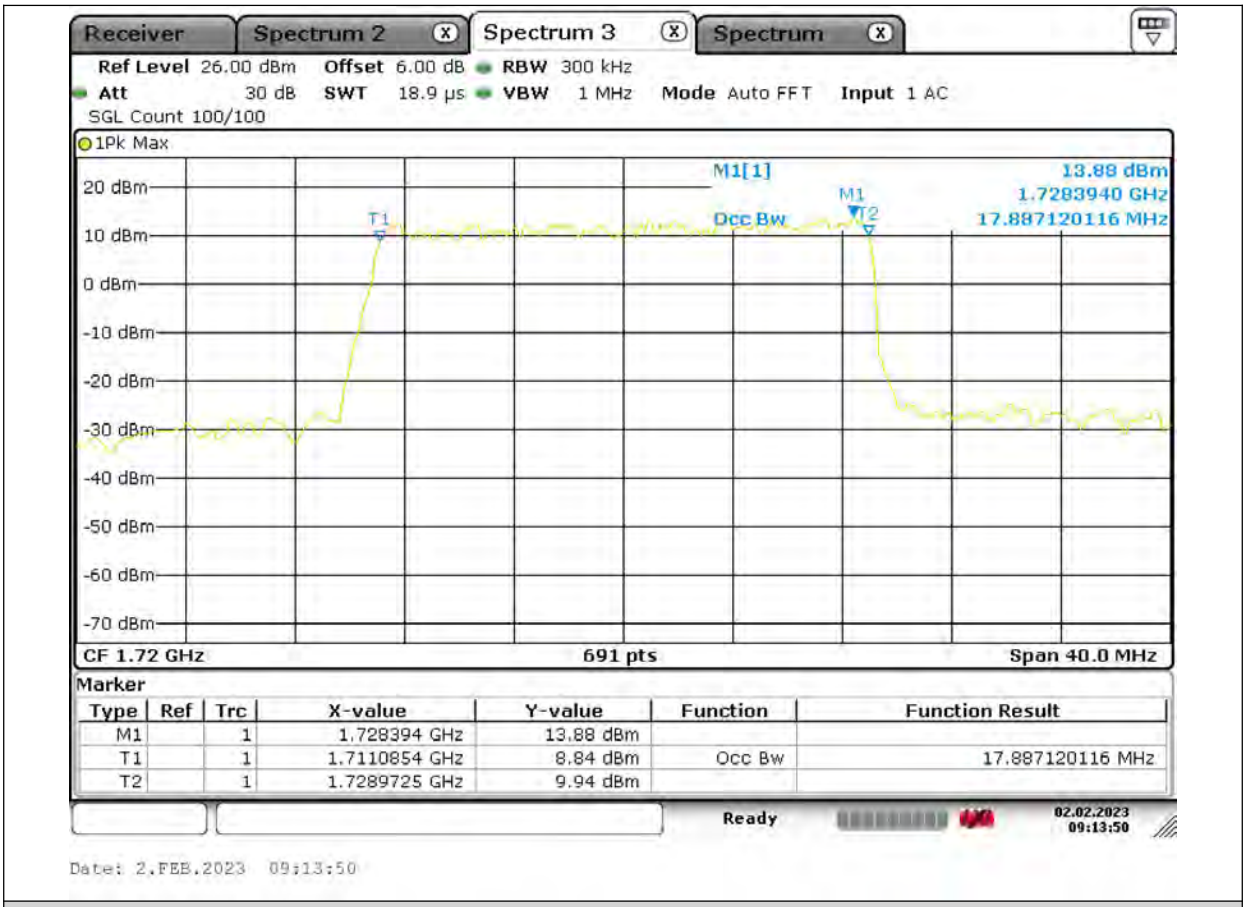
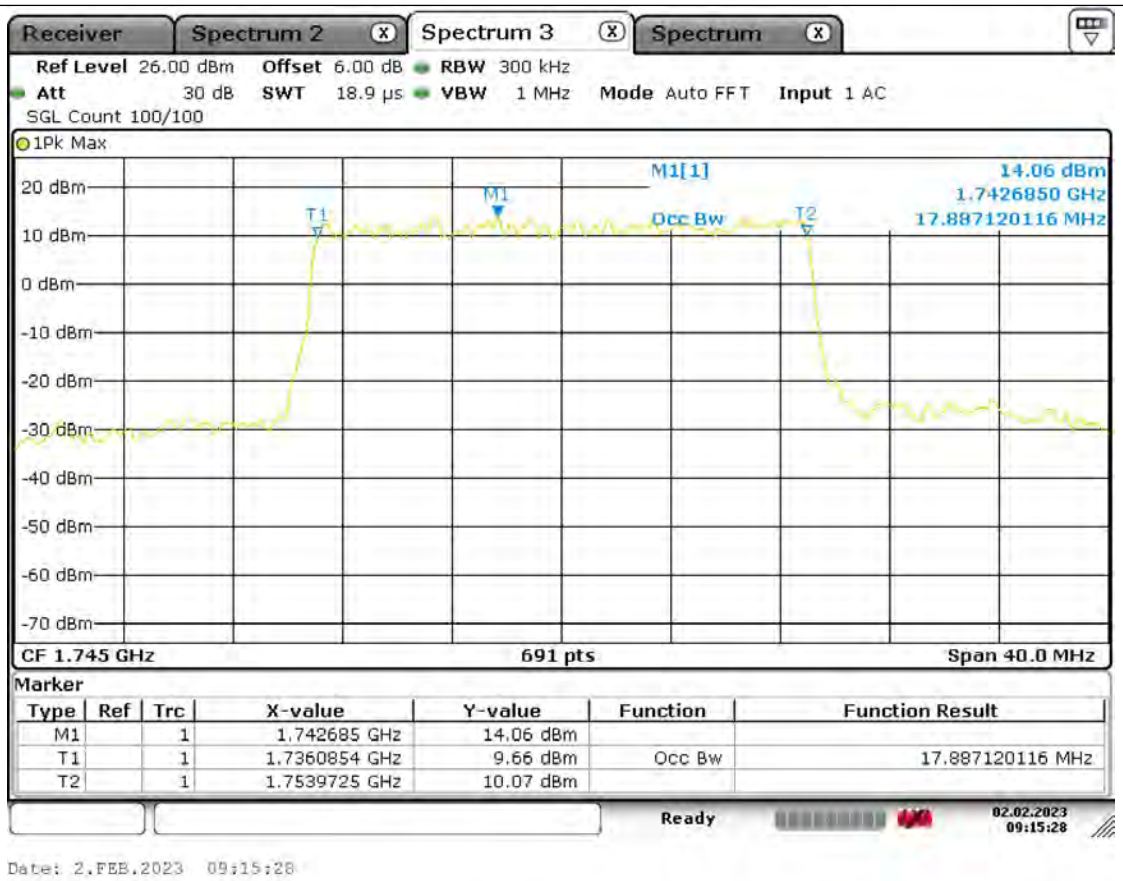


Band66-20MHz-16QAM-132322-100RB#0



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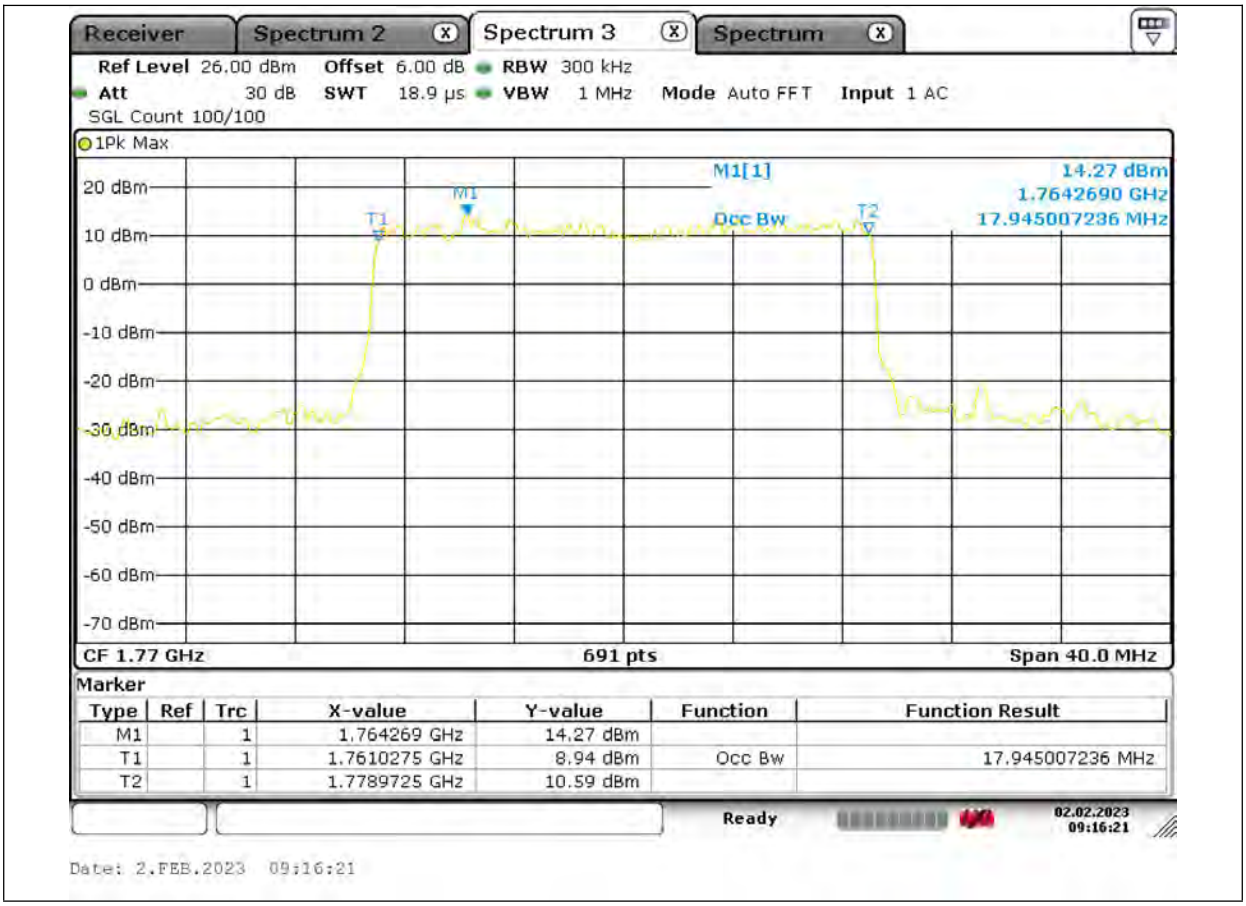
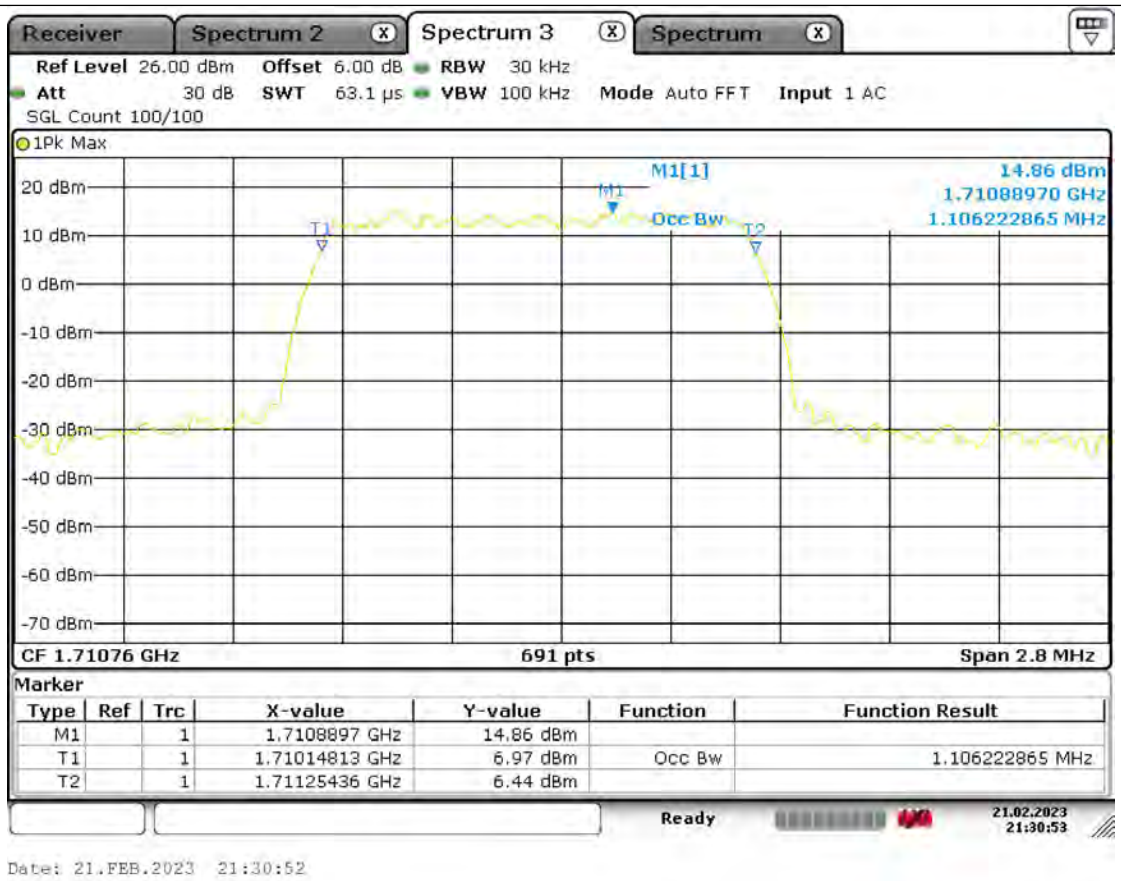
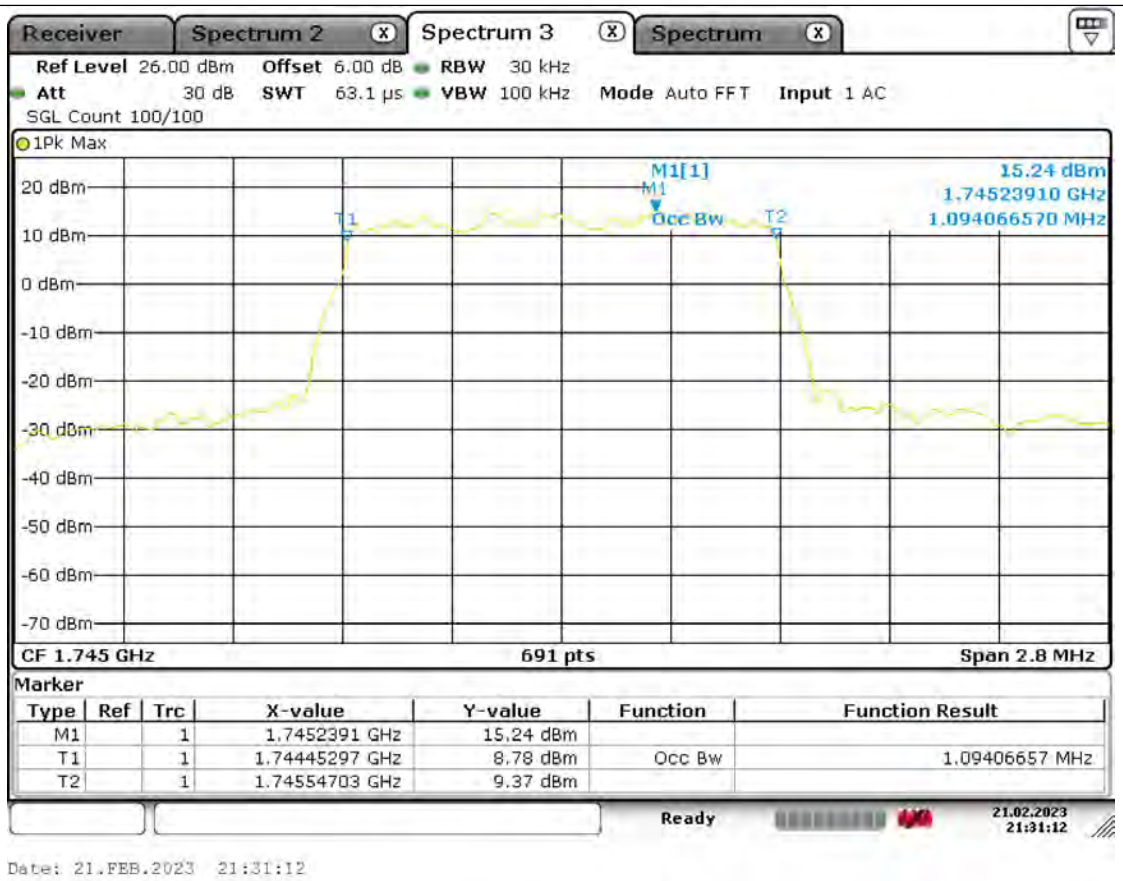


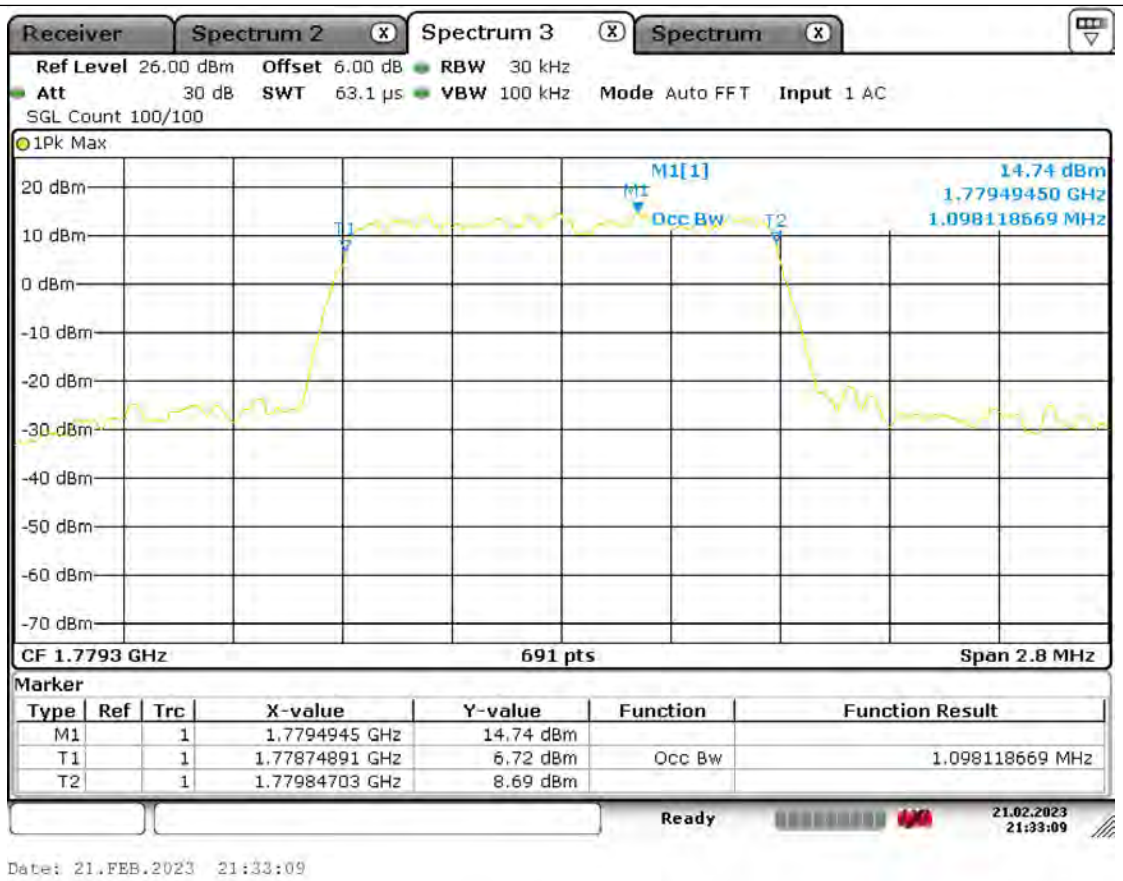
Band66-1.4MHz-64QAM-131979-6RB#0



Band66-1.4MHz-64QAM-132322-6RB#0



Band66-1.4MHz-64QAM-132665-6RB#0



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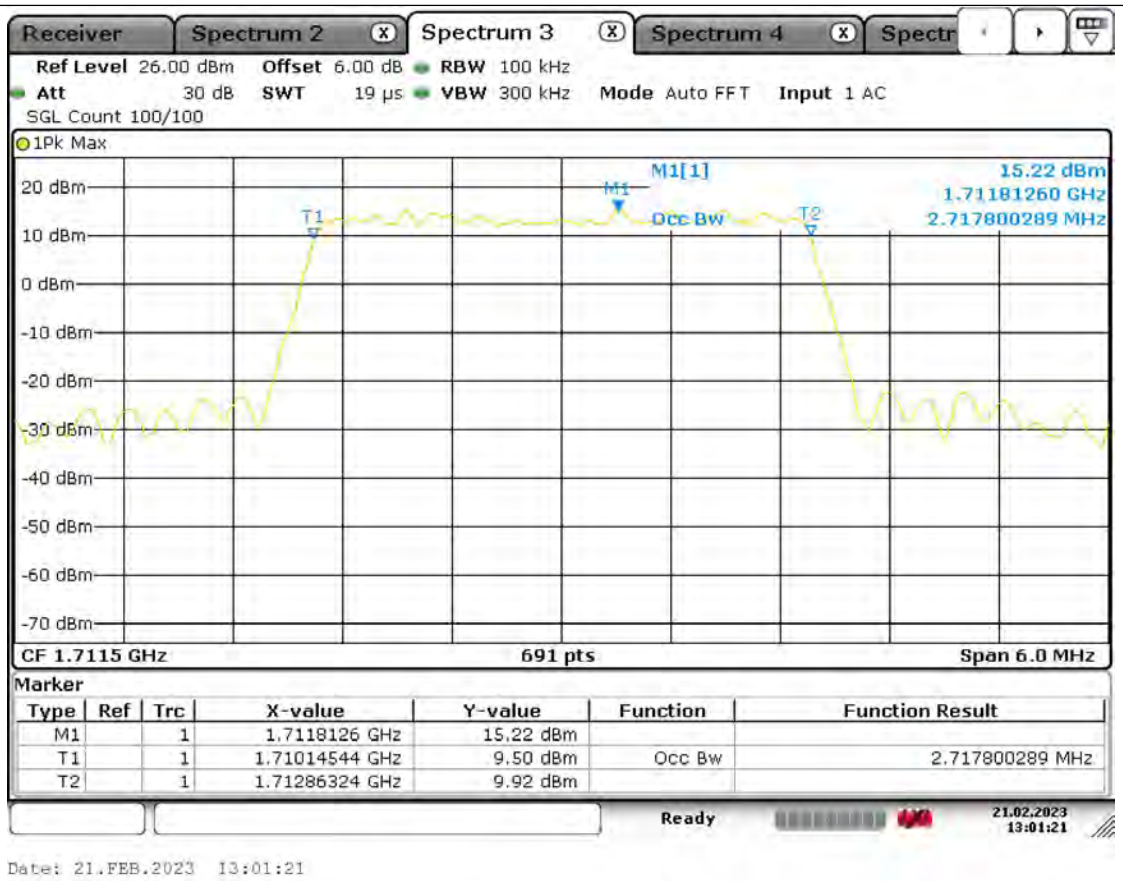

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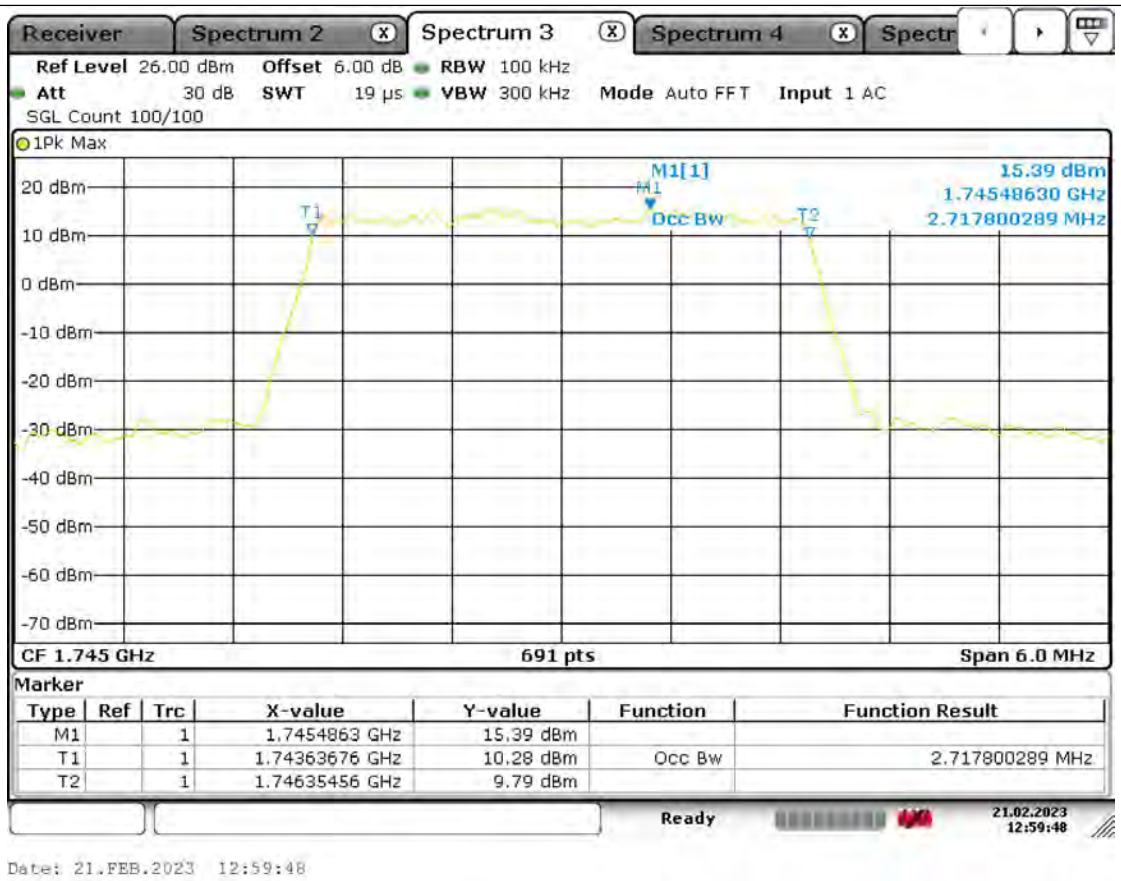

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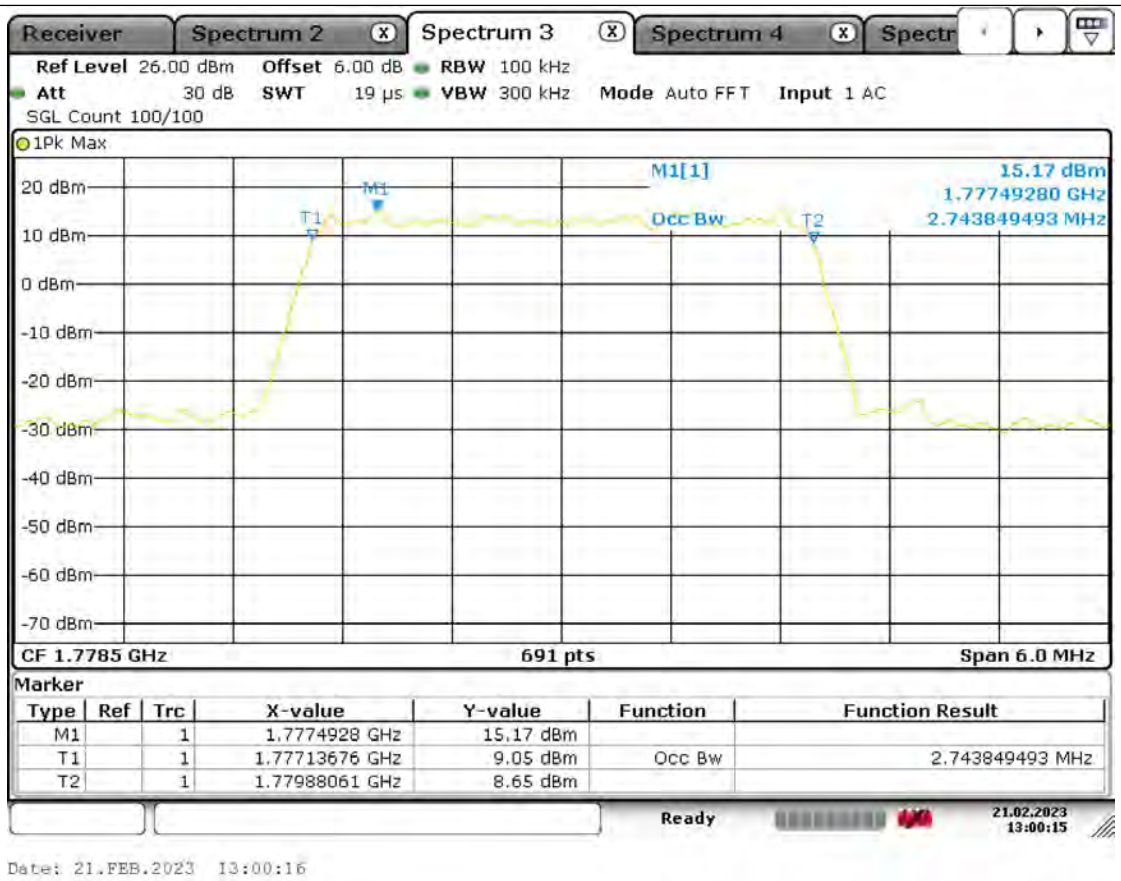

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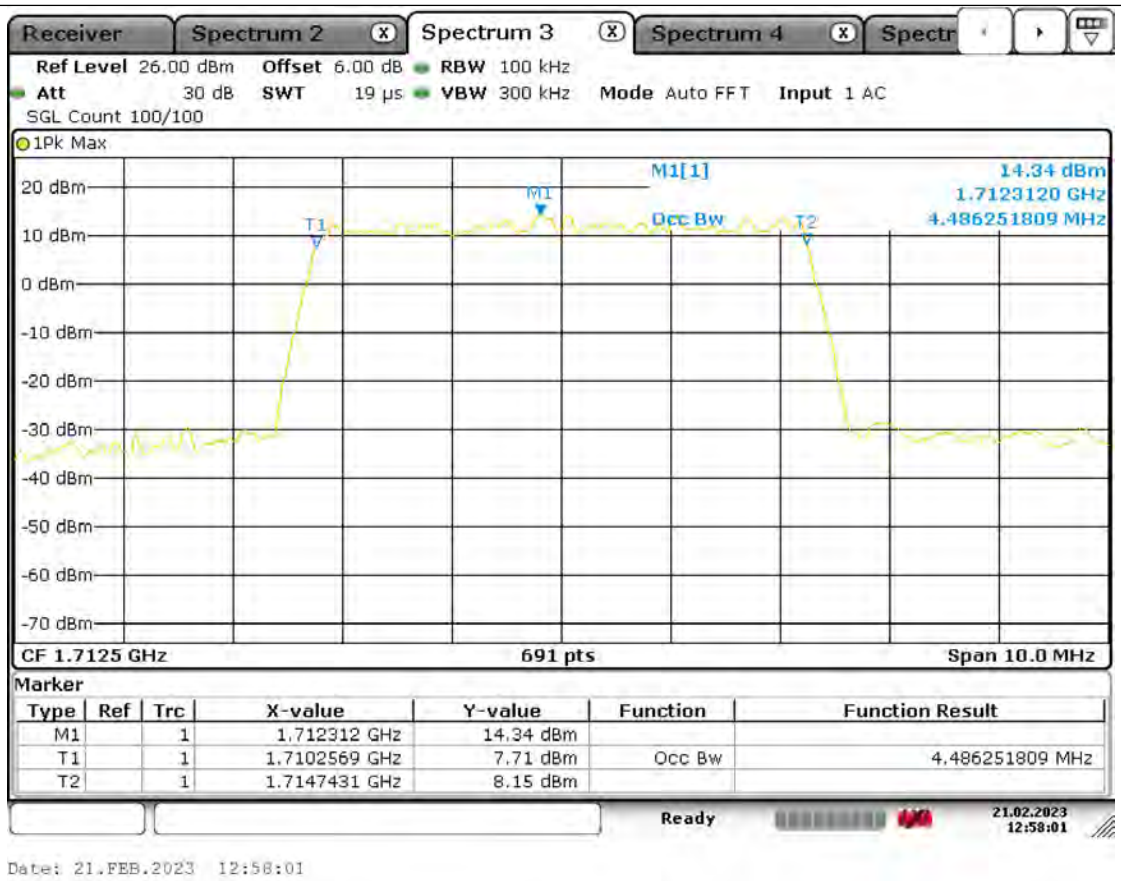

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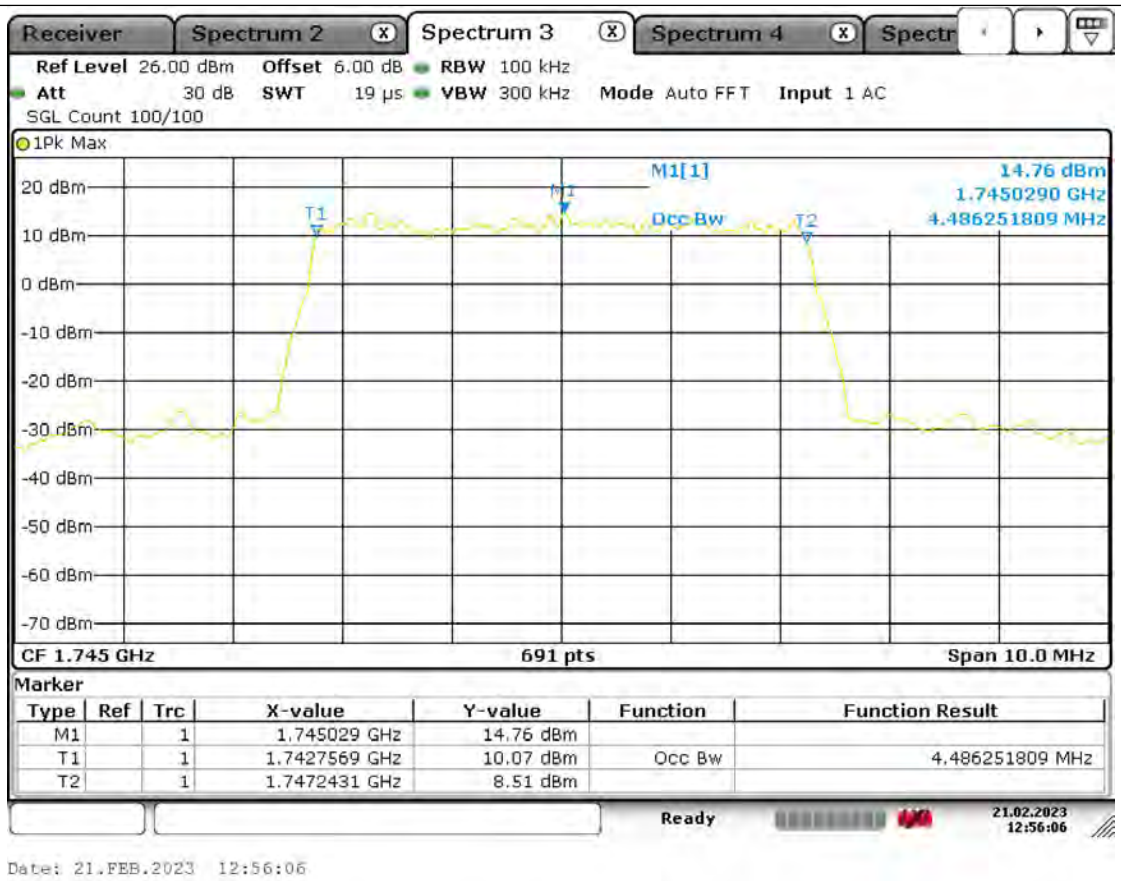

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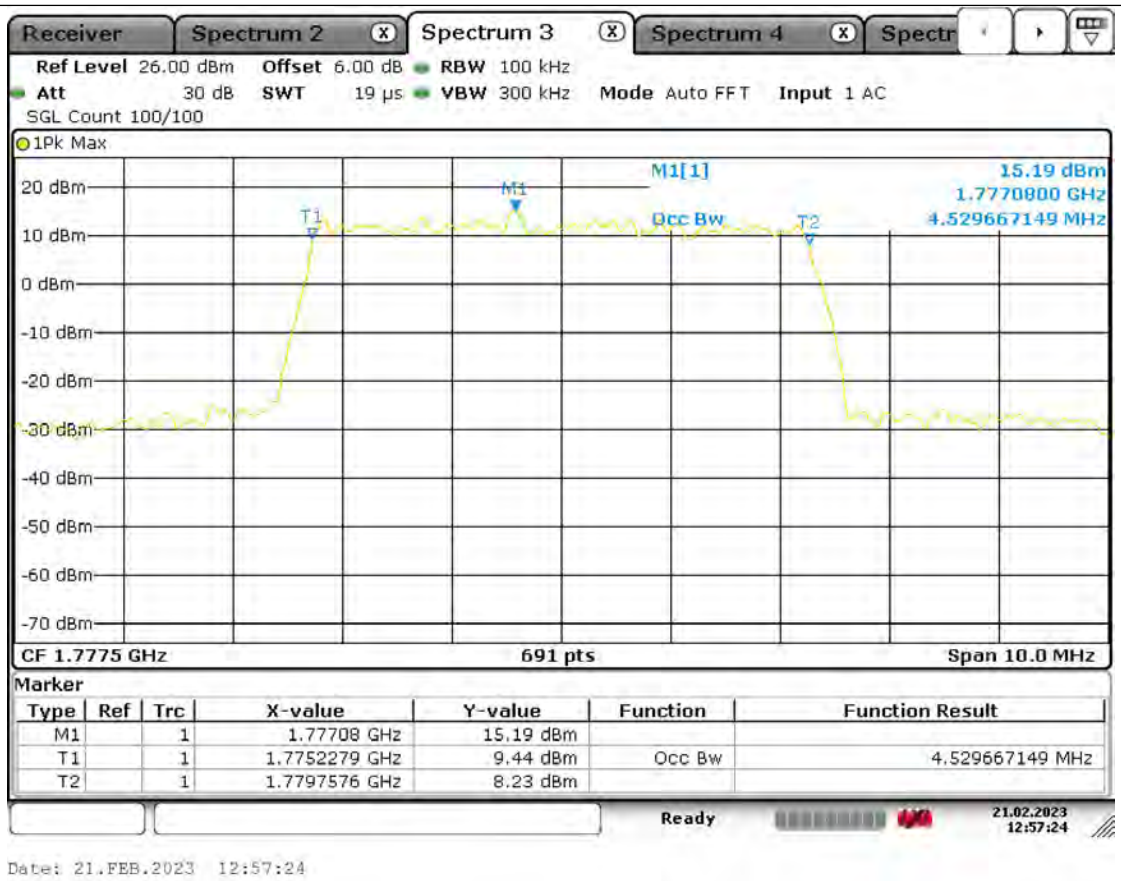

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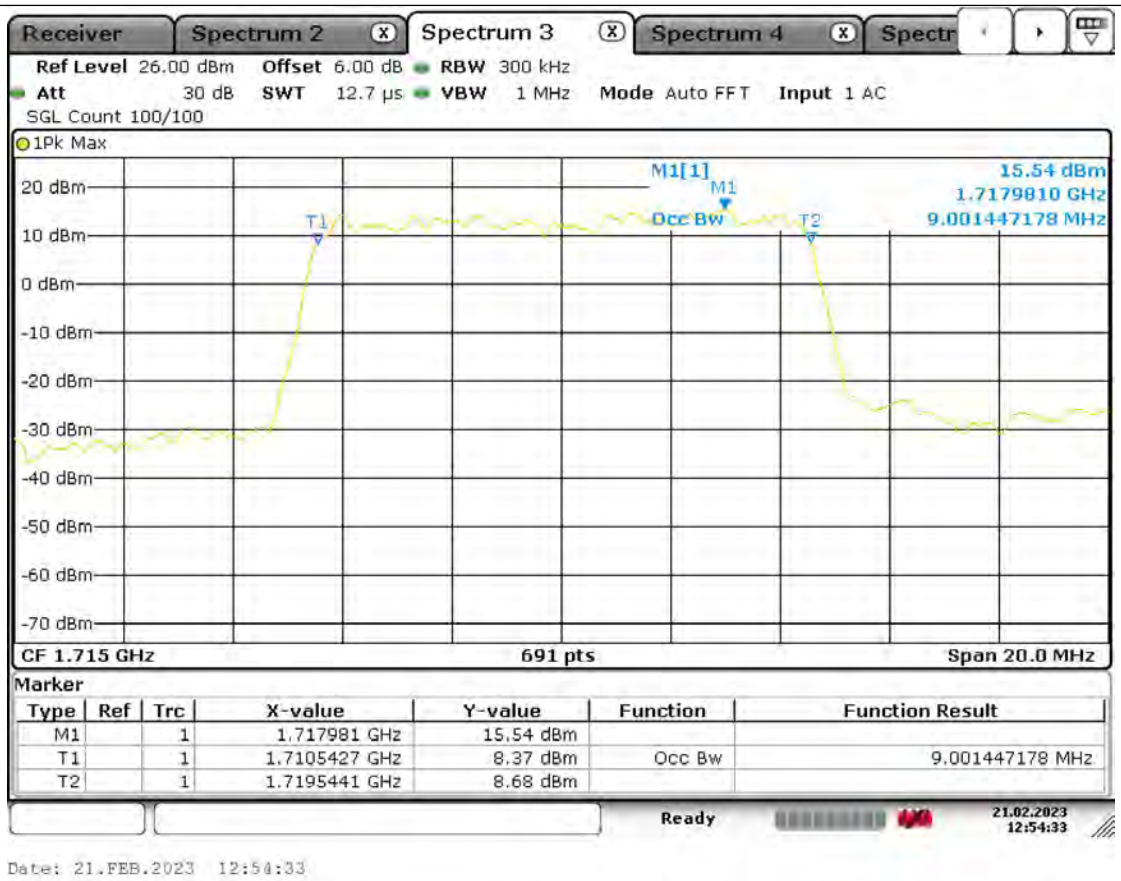

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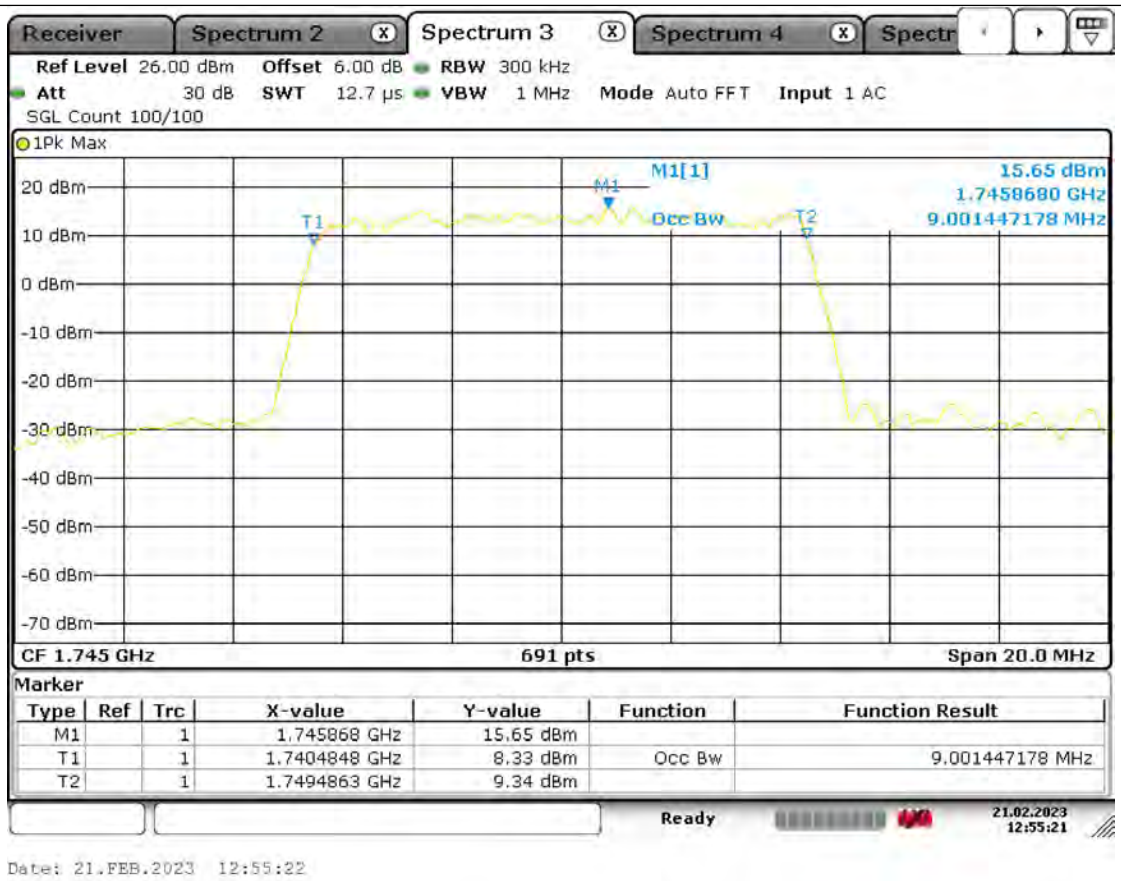

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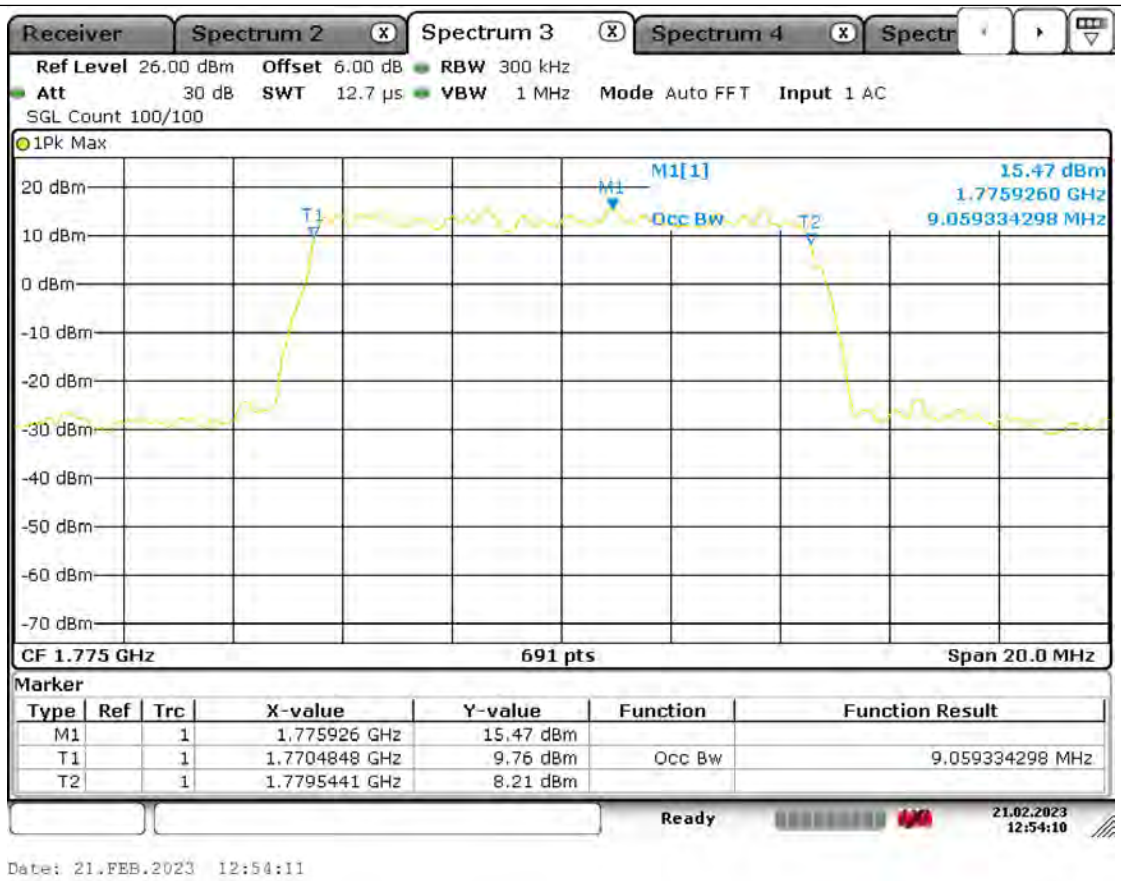

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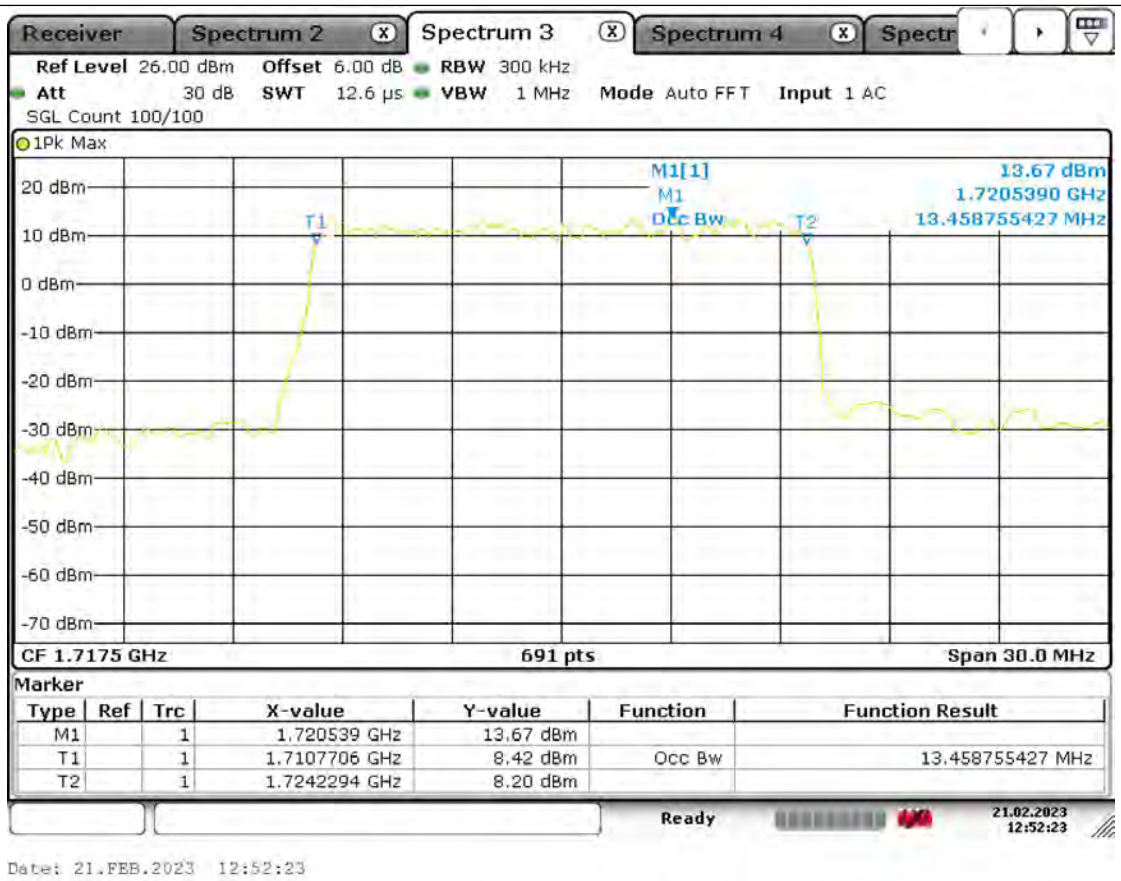

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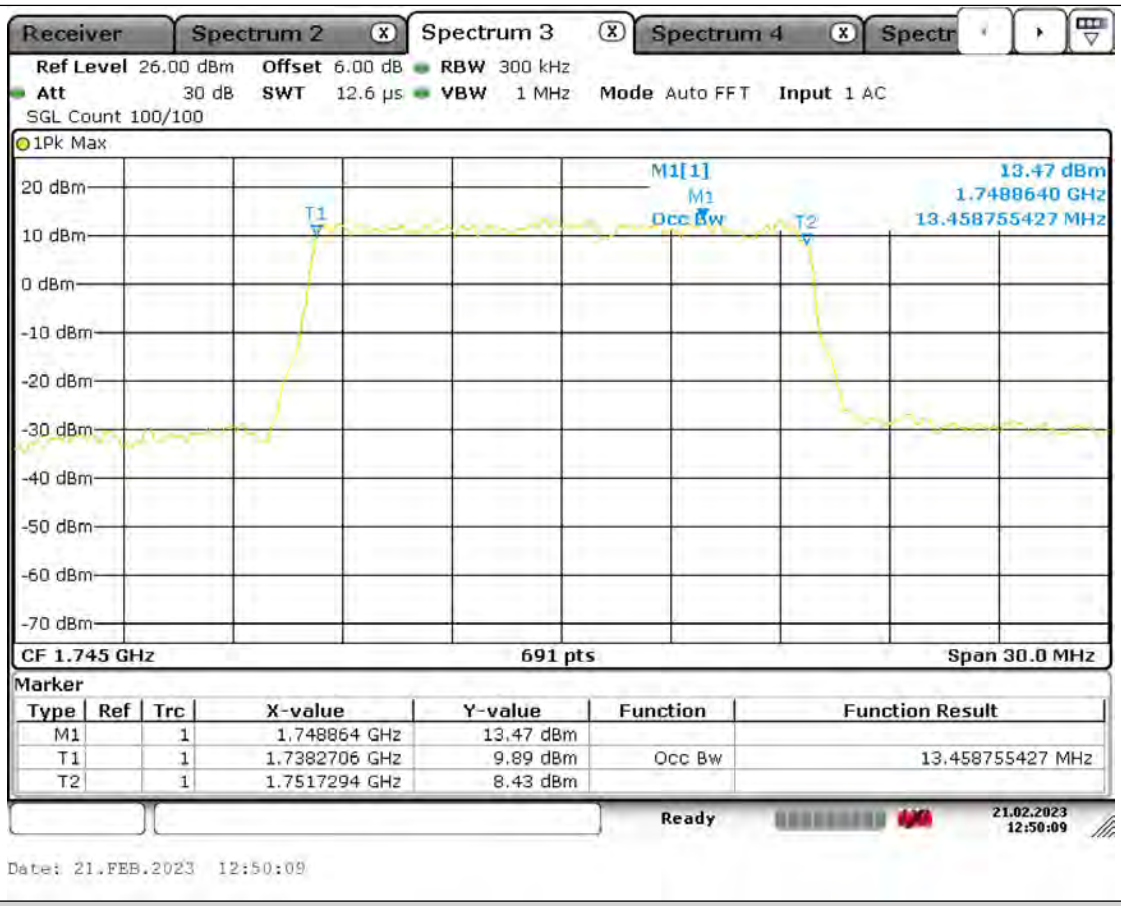

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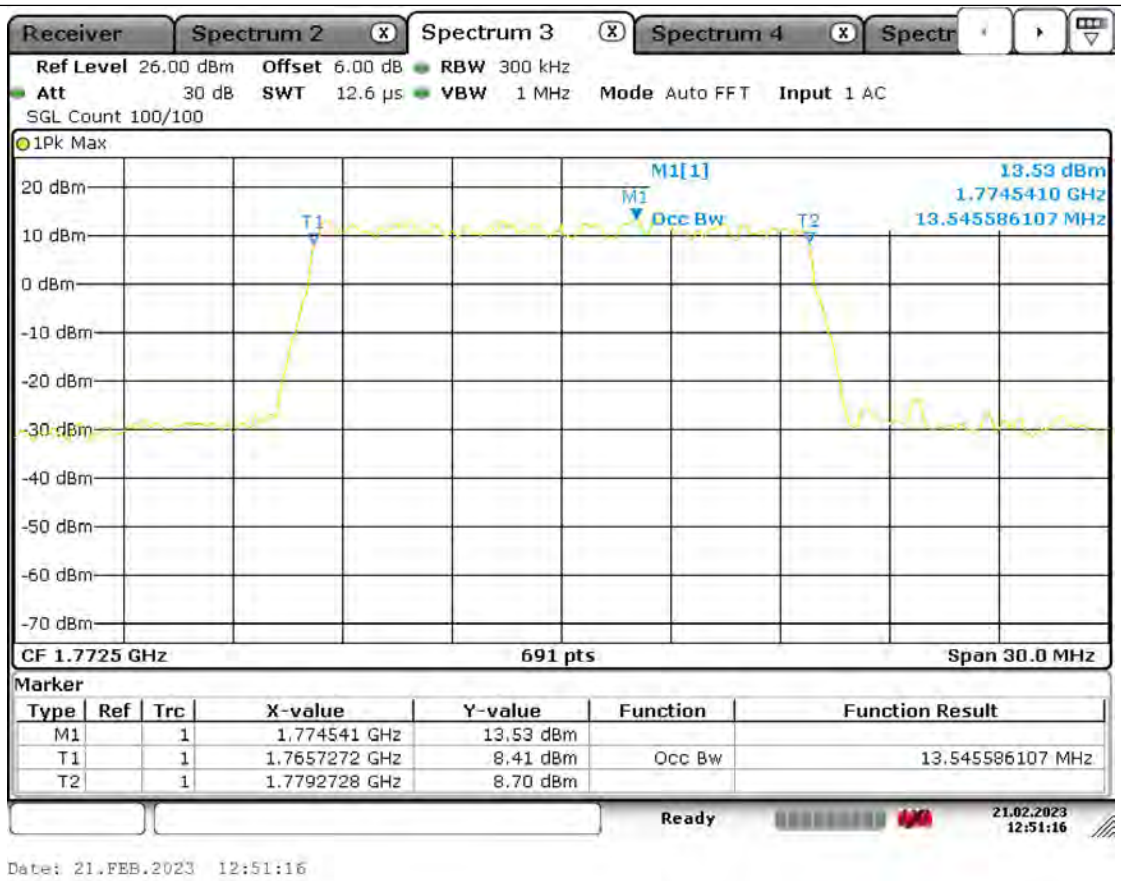

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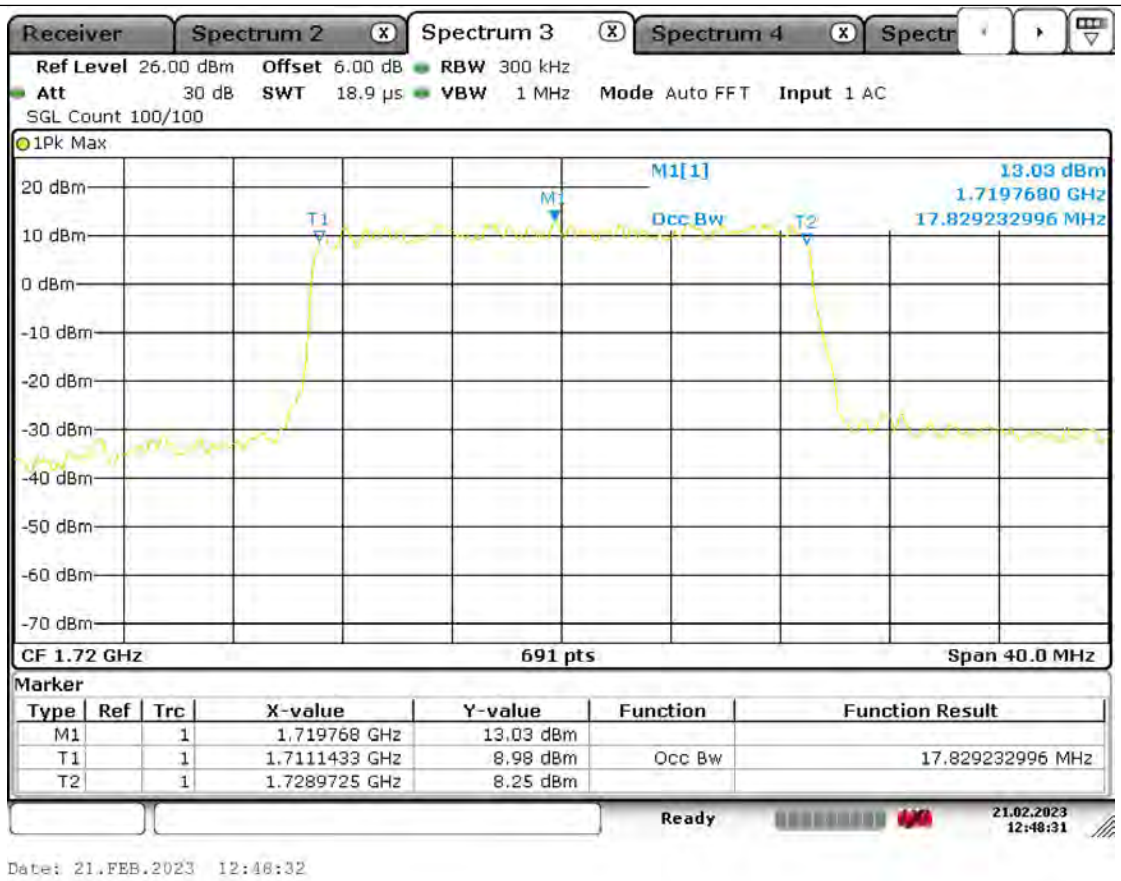

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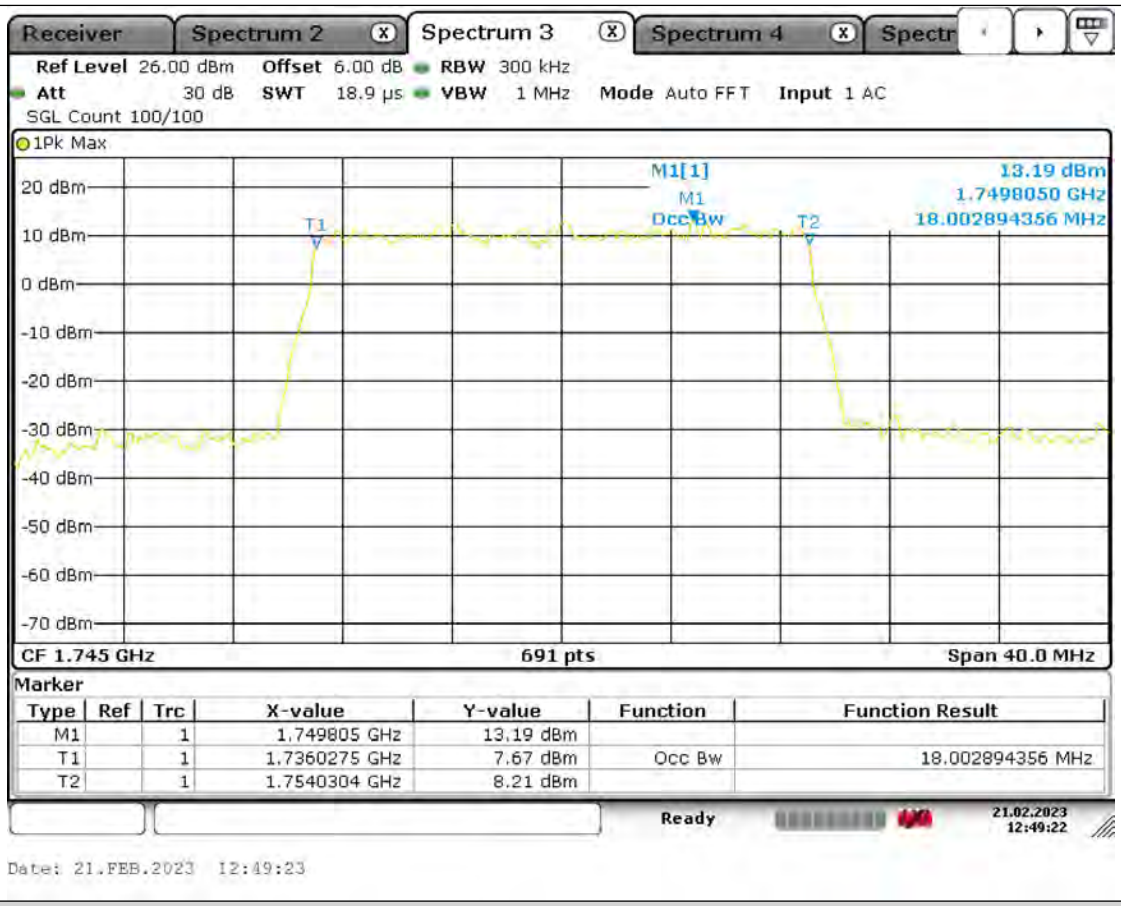

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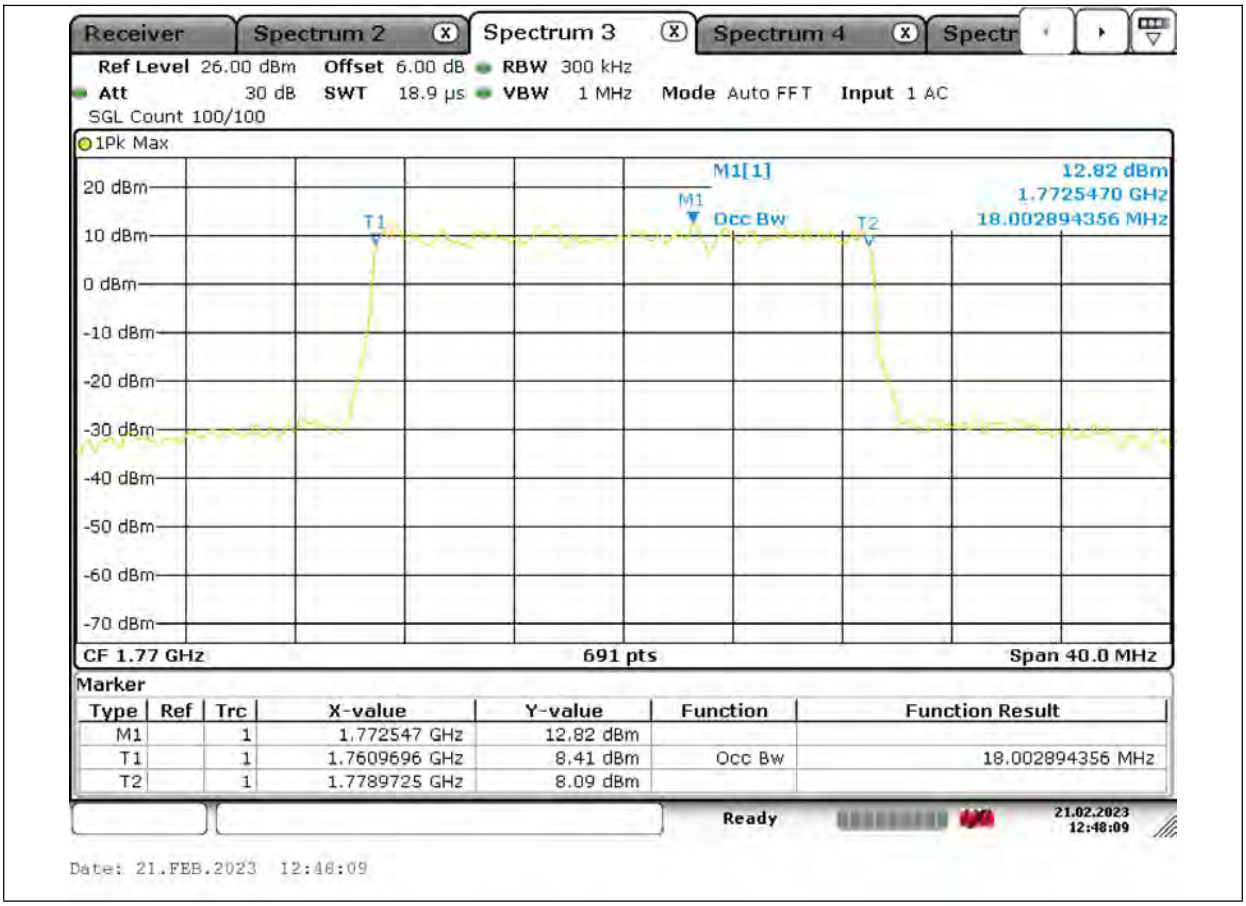
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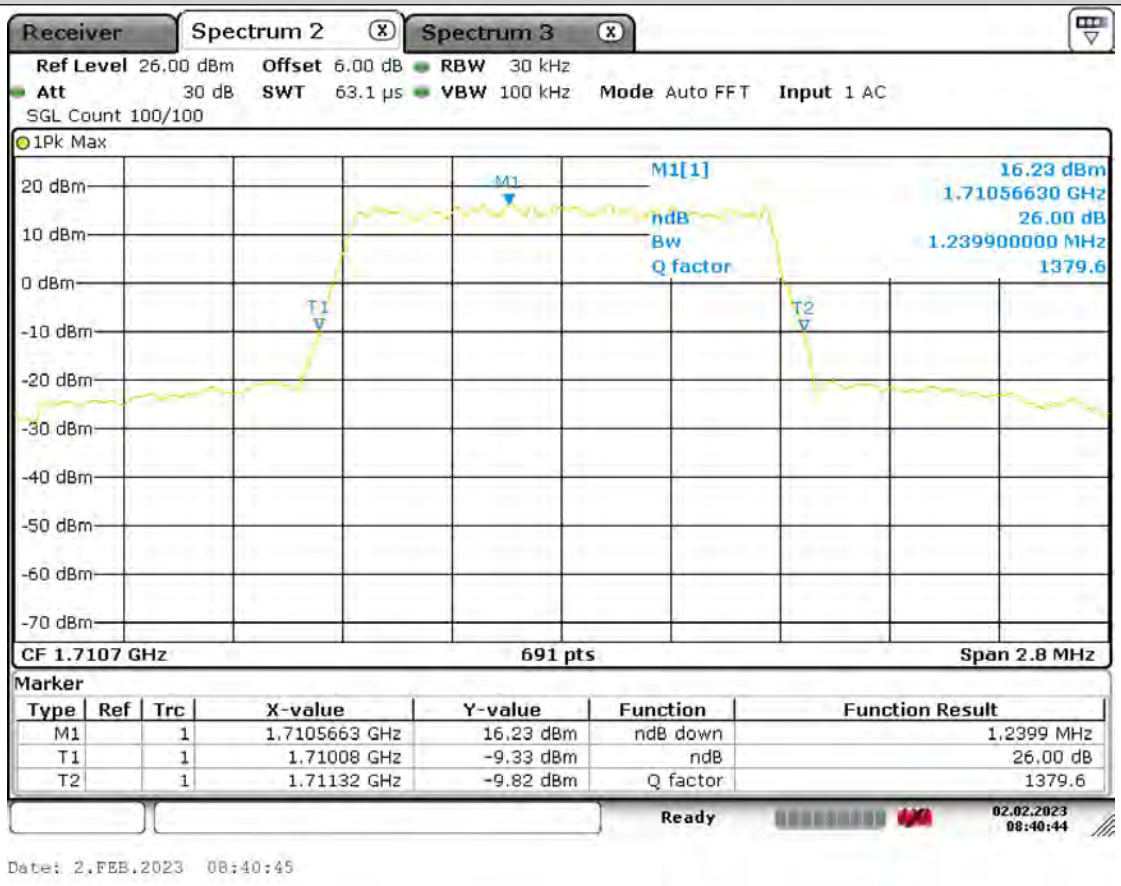
Spectrum 2
Spectrum 3
Spectrum 4
Spectr
Ref Level 26.00 dBm Offset 6.00 dB RBW 300 kHz
Att 30 dB SWT 18.9 µs VBW 1 MHz Mode Auto FFT Input 1 AC
SGL Count 100/100
1Pk Max
M1[1] 12.82 dBm
1.7725470 GHz
18.002894356 MHz
M1
T1
T2
Occ Bw
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 1.77 GHz
691 pts
Span 40.0 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 1.772547 GHz 12.82 dBm
T1 1 1.7609696 GHz 8.41 dBm Occ Bw 18.002894356 MHz
T2 1 1.7789725 GHz 8.09 dBm
Ready
21.02.2023
12:48:09
Date: 21.FEB.2023 12:48:09

26dB Bandwidth

Band66-1.4MHz-QPSK-131979-6RB#0



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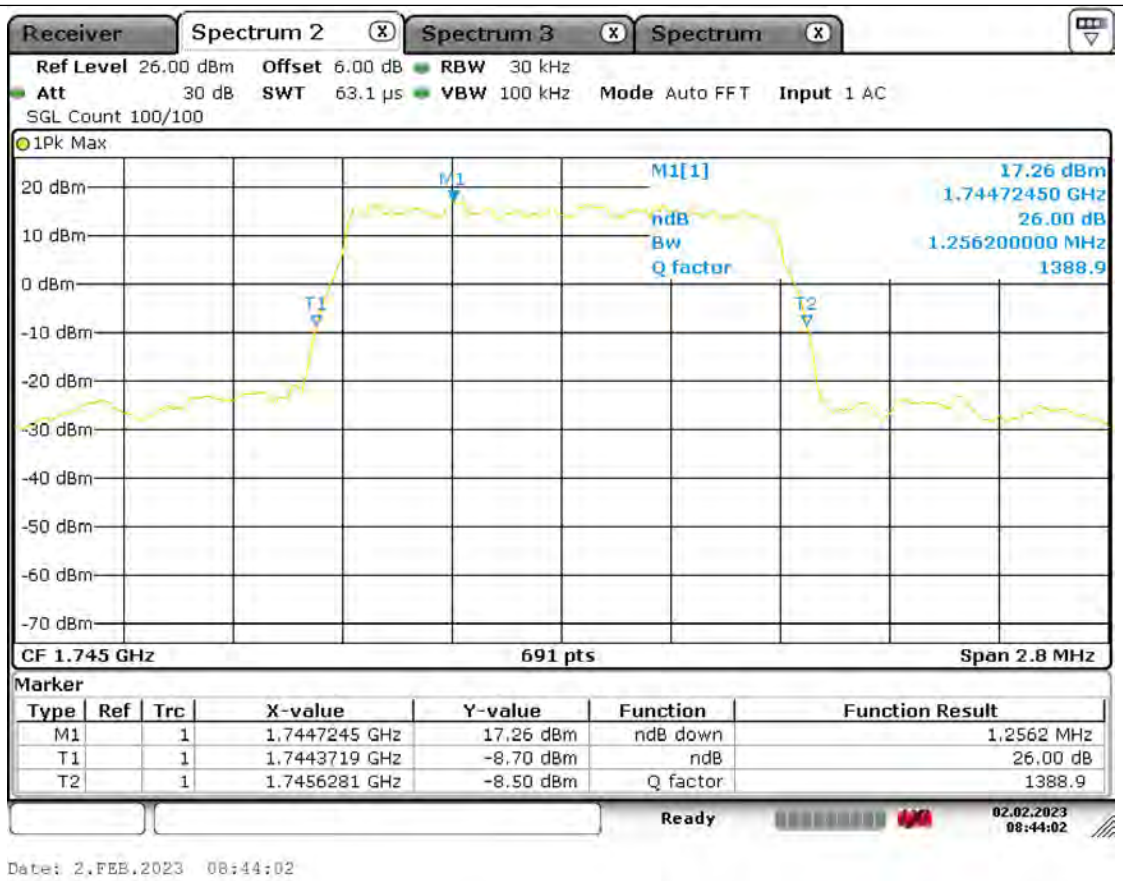

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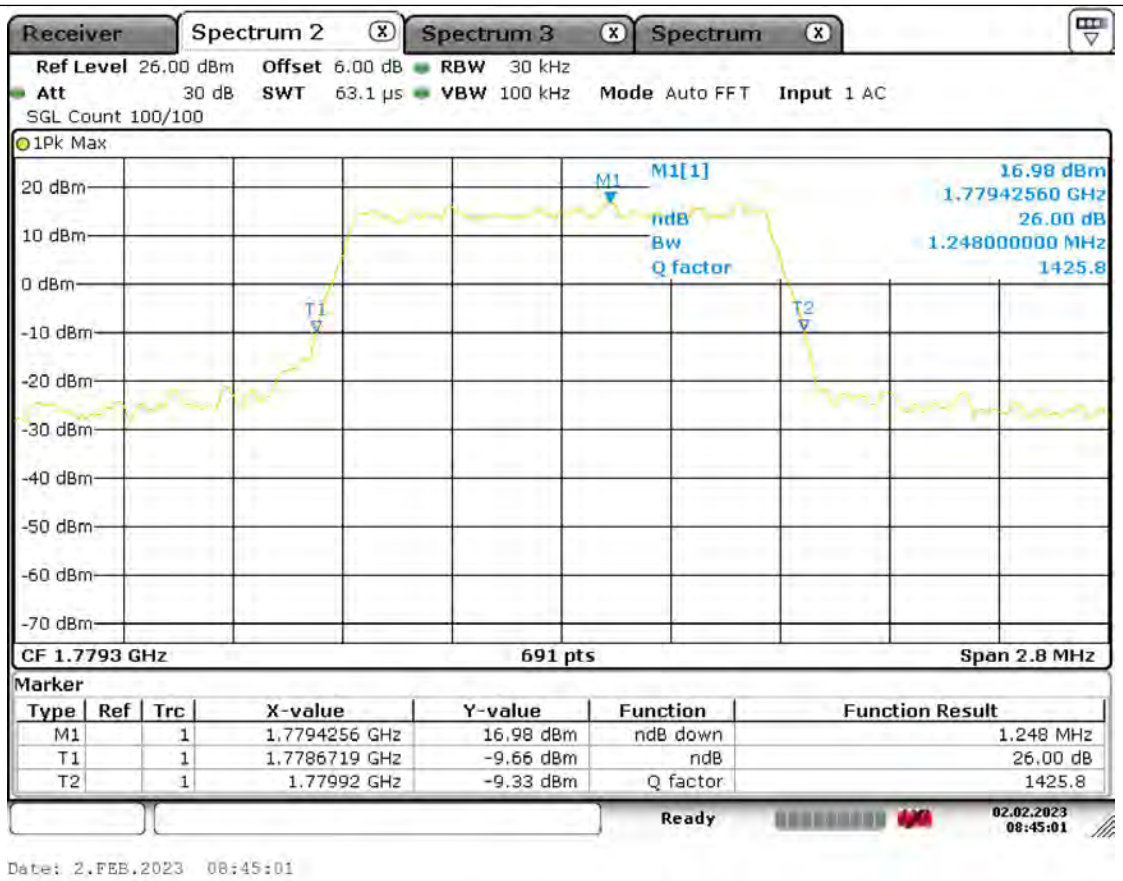

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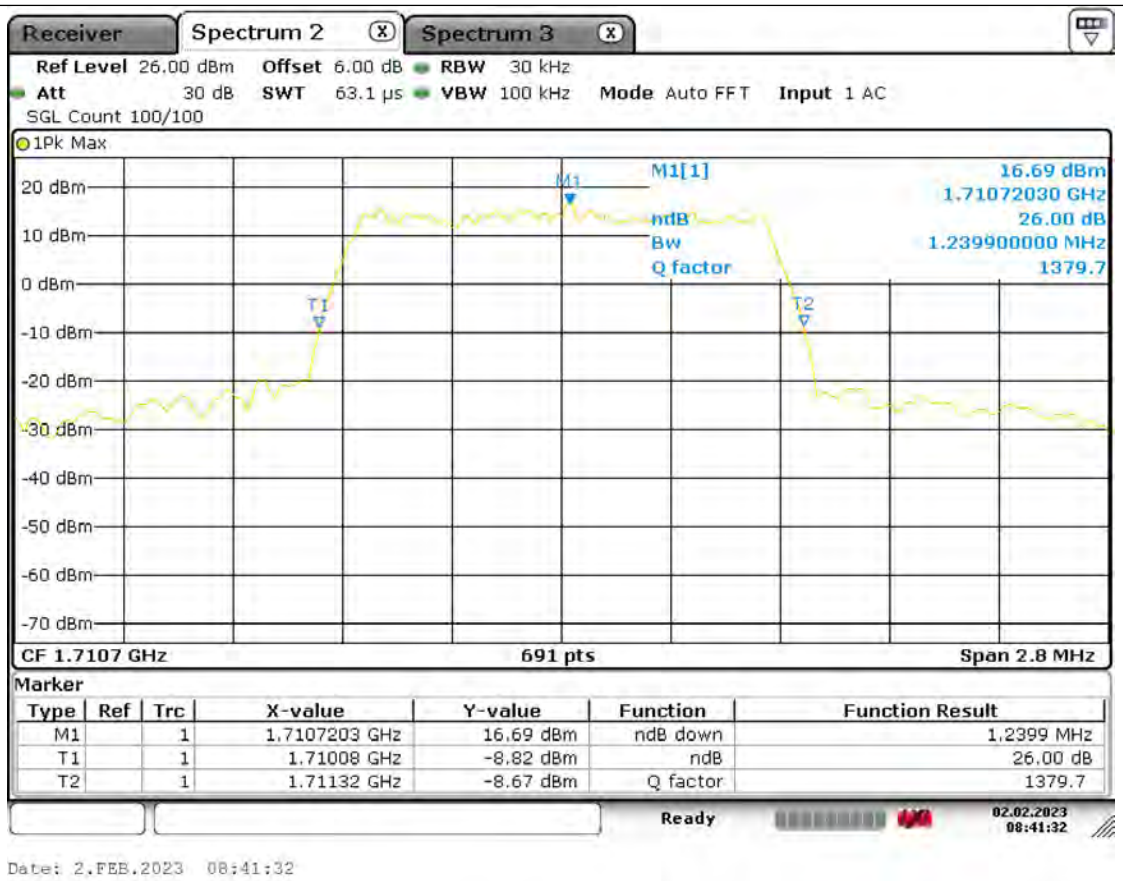

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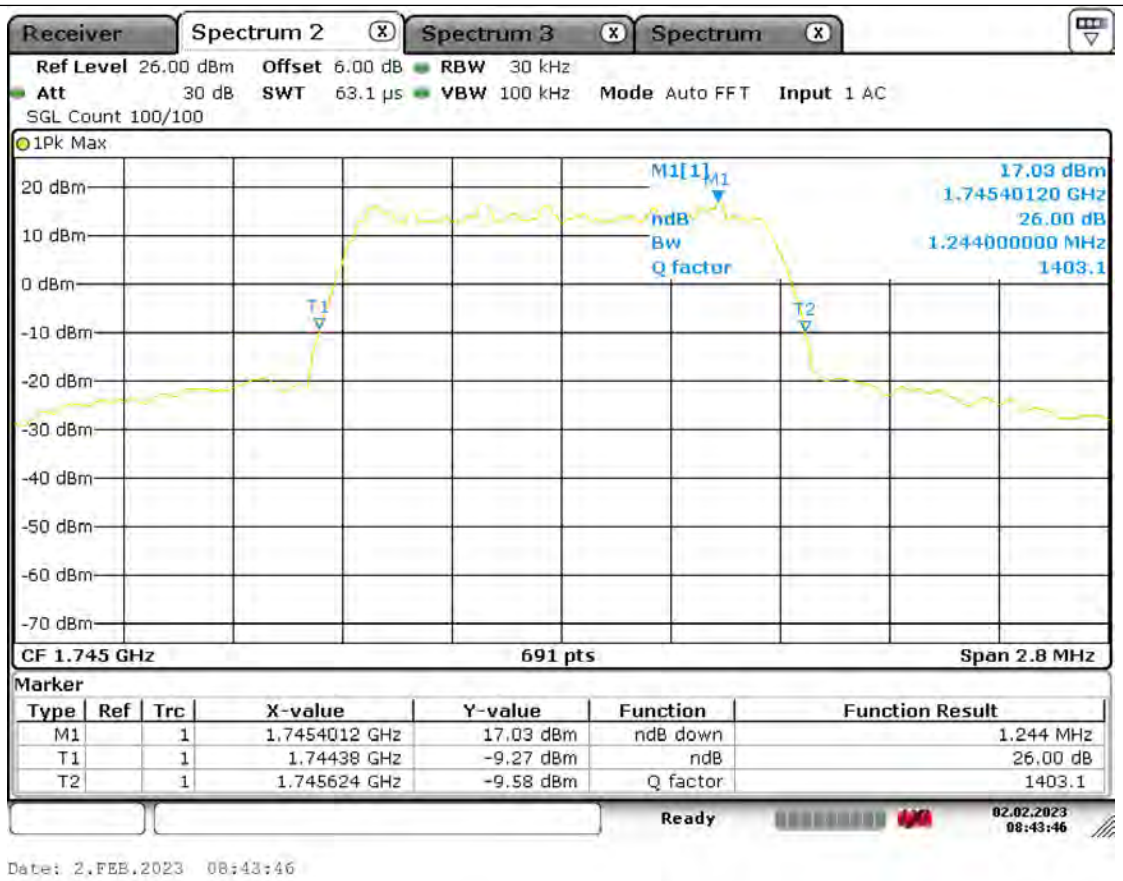

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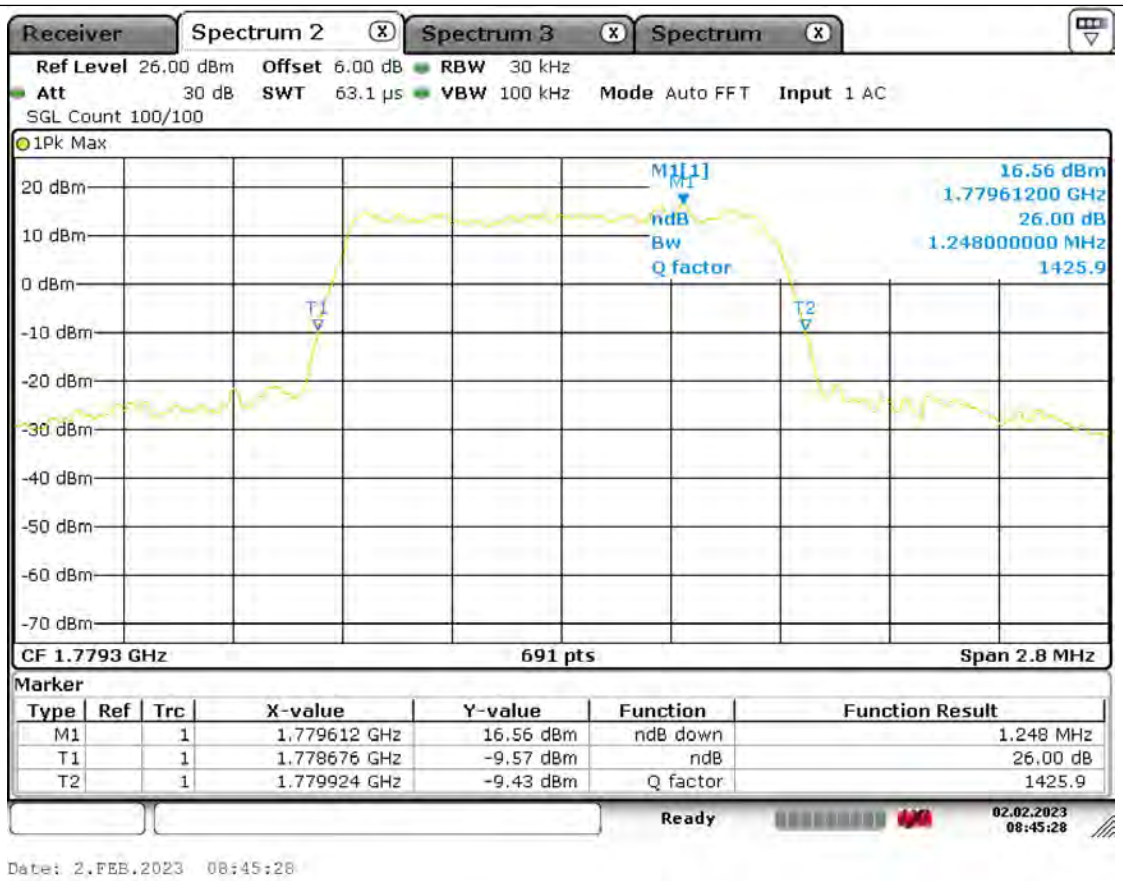

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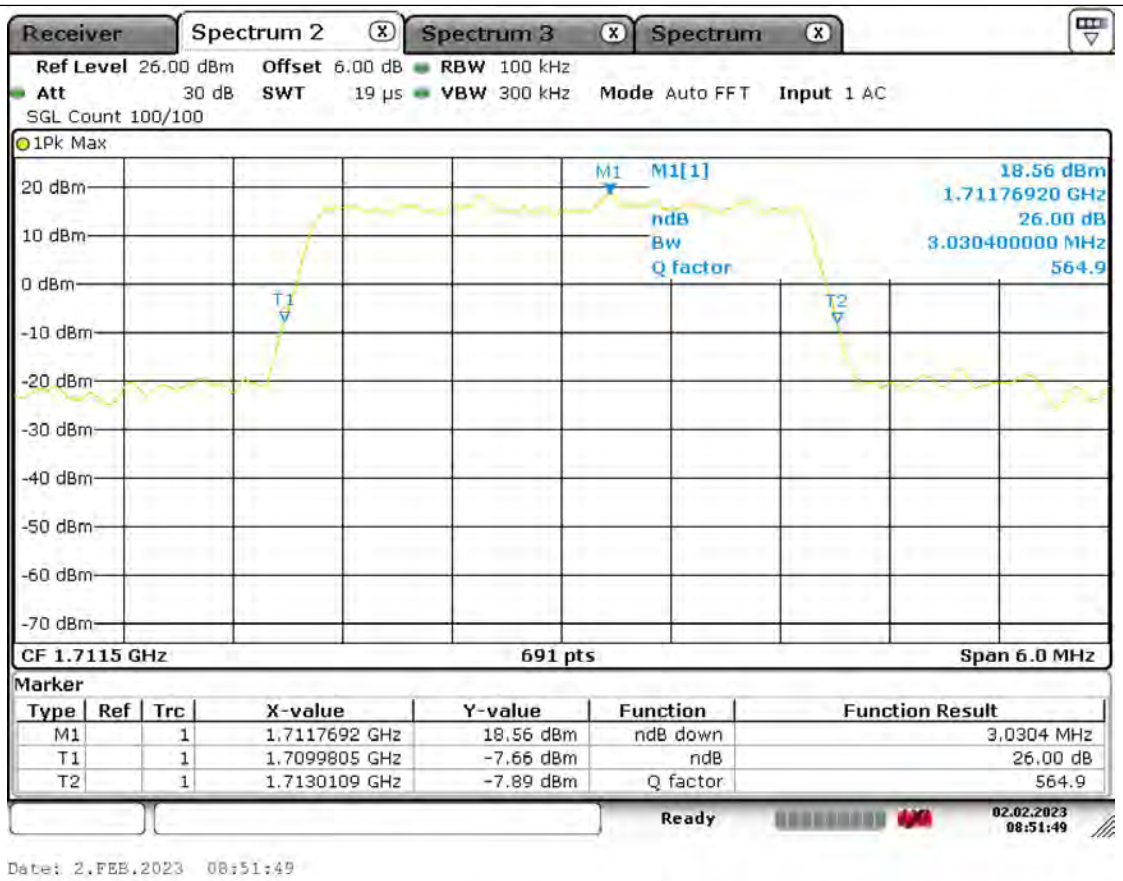

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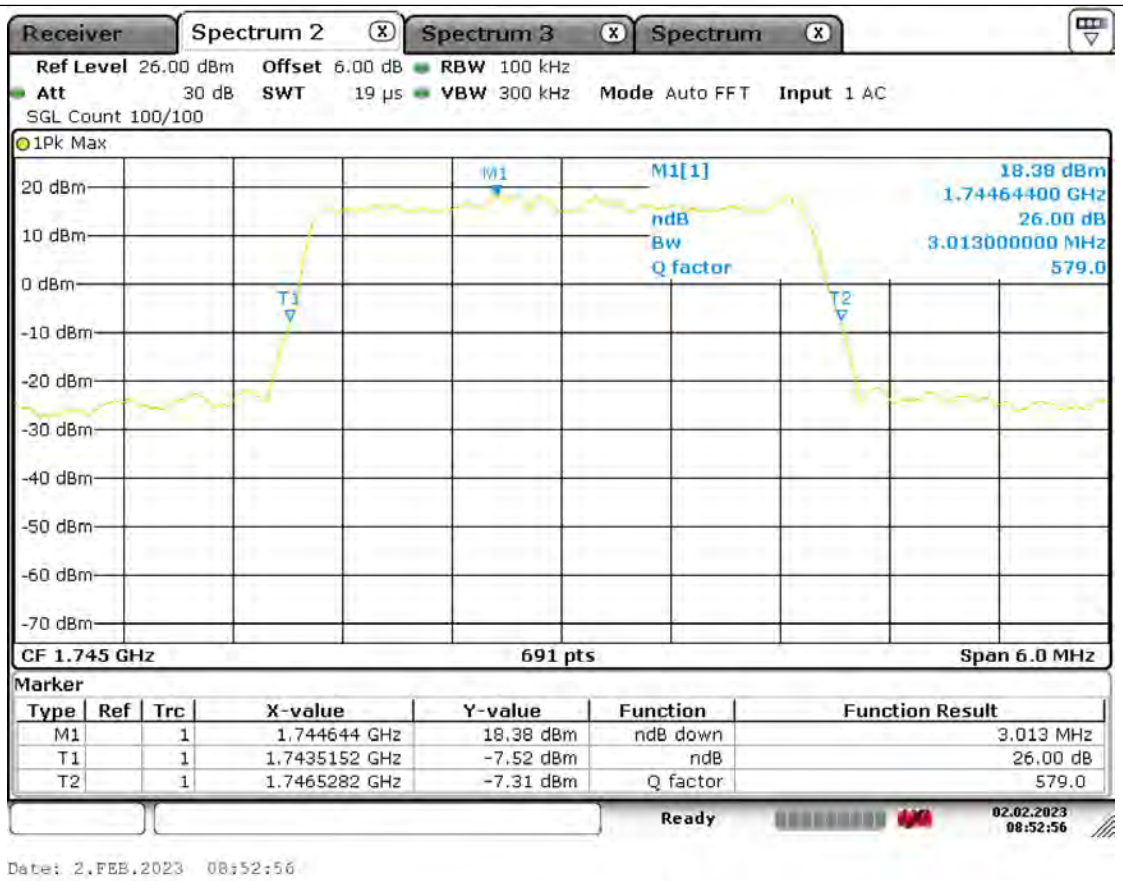

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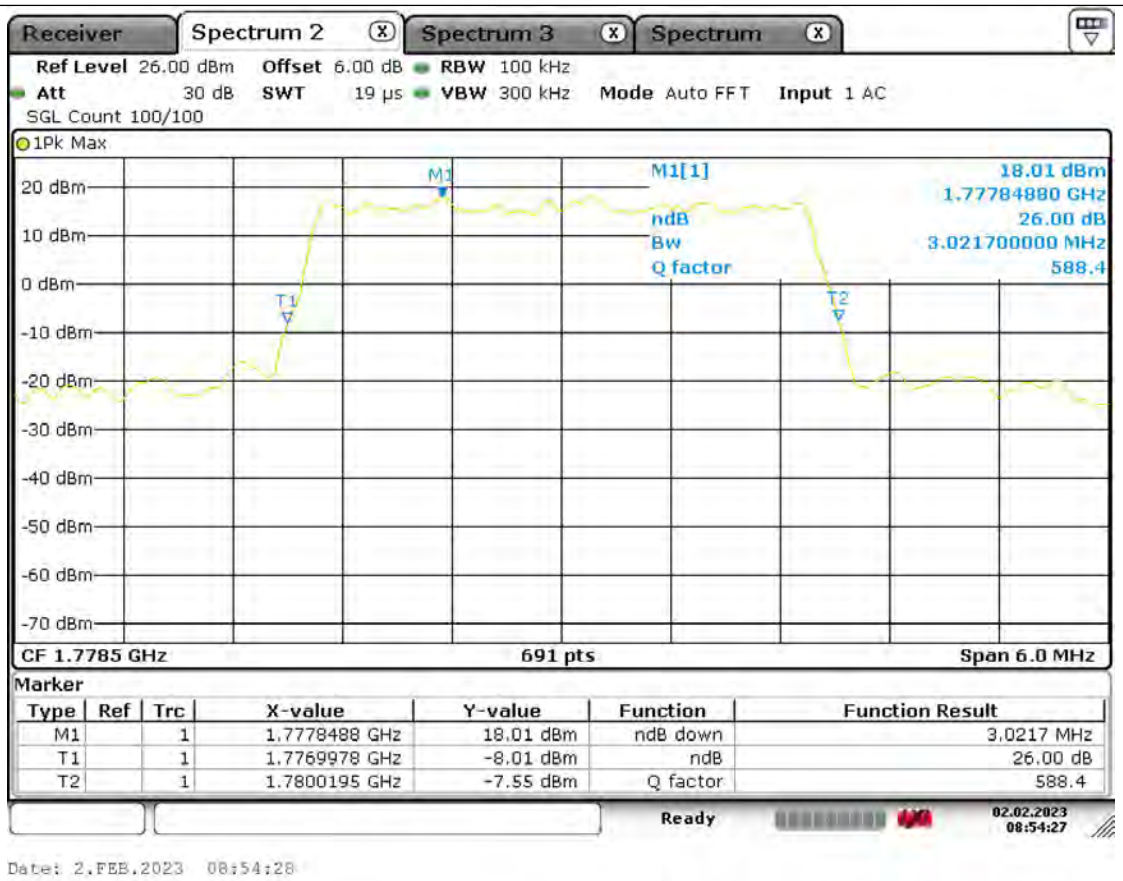

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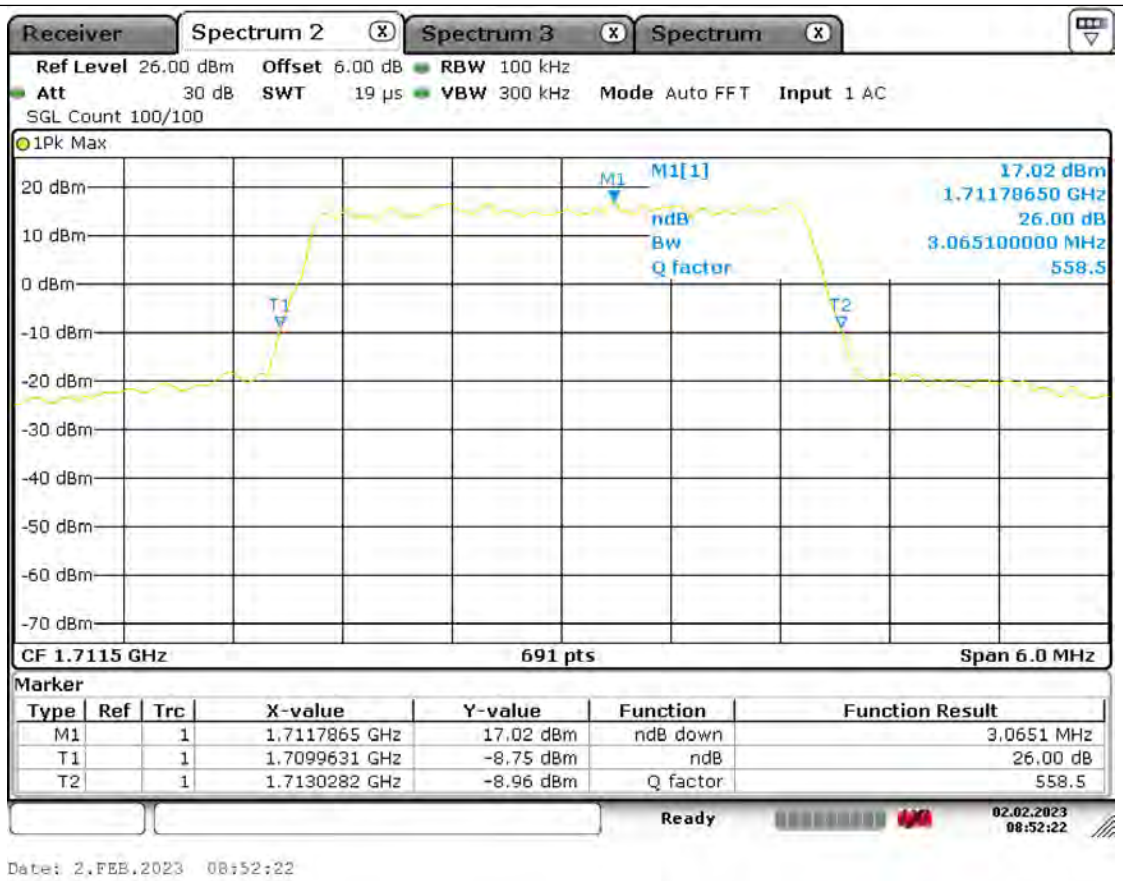

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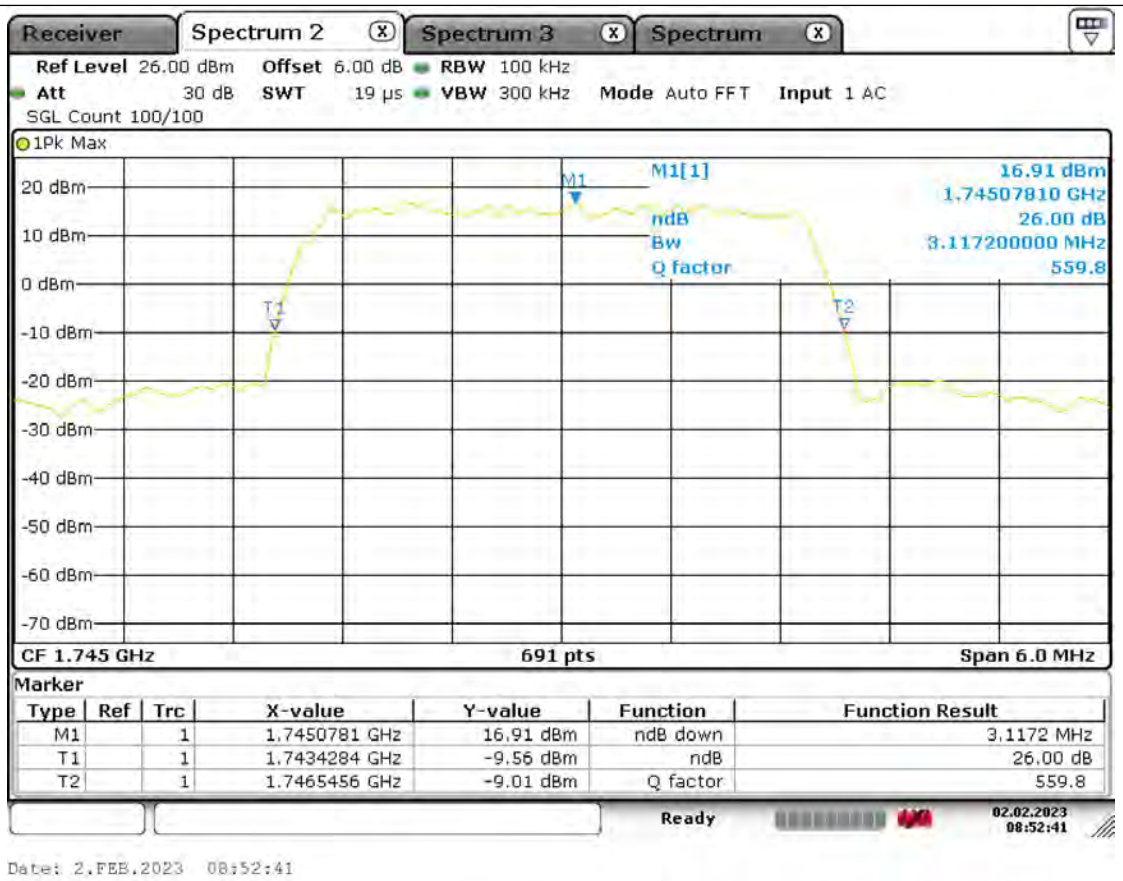

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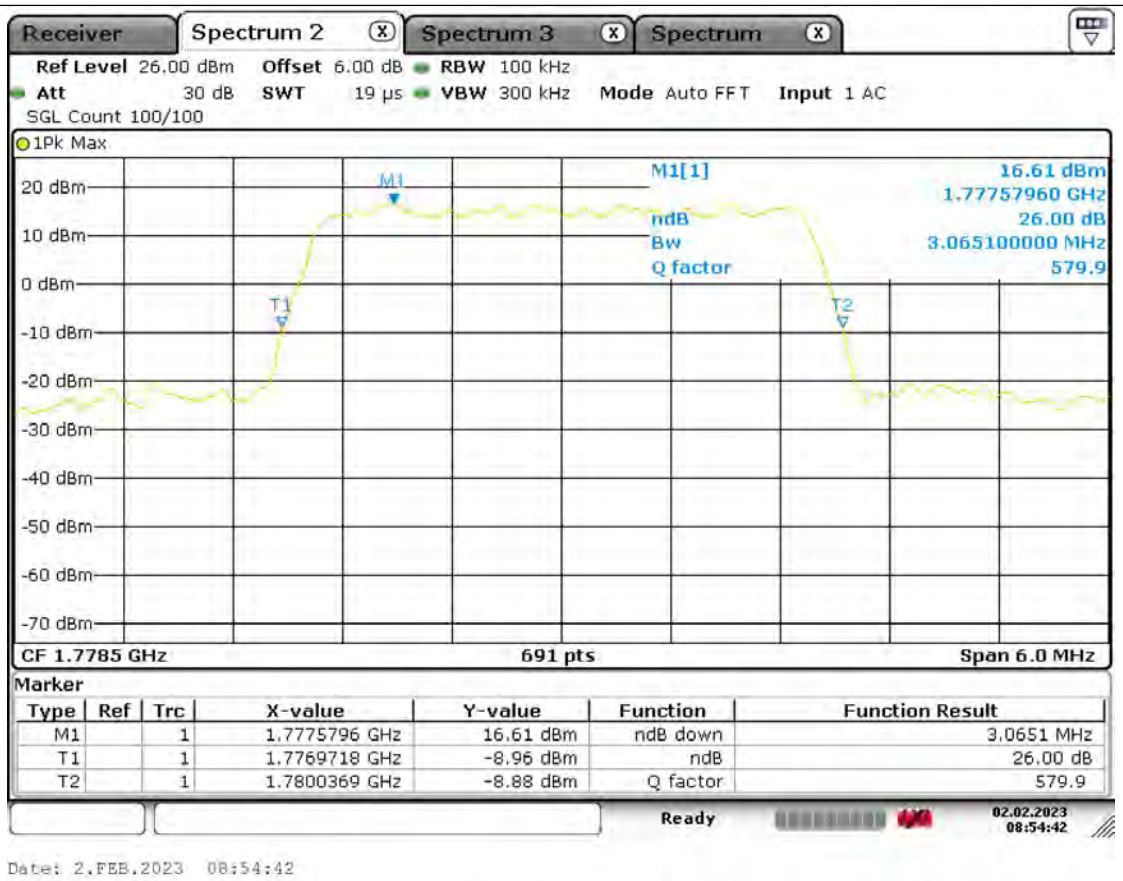

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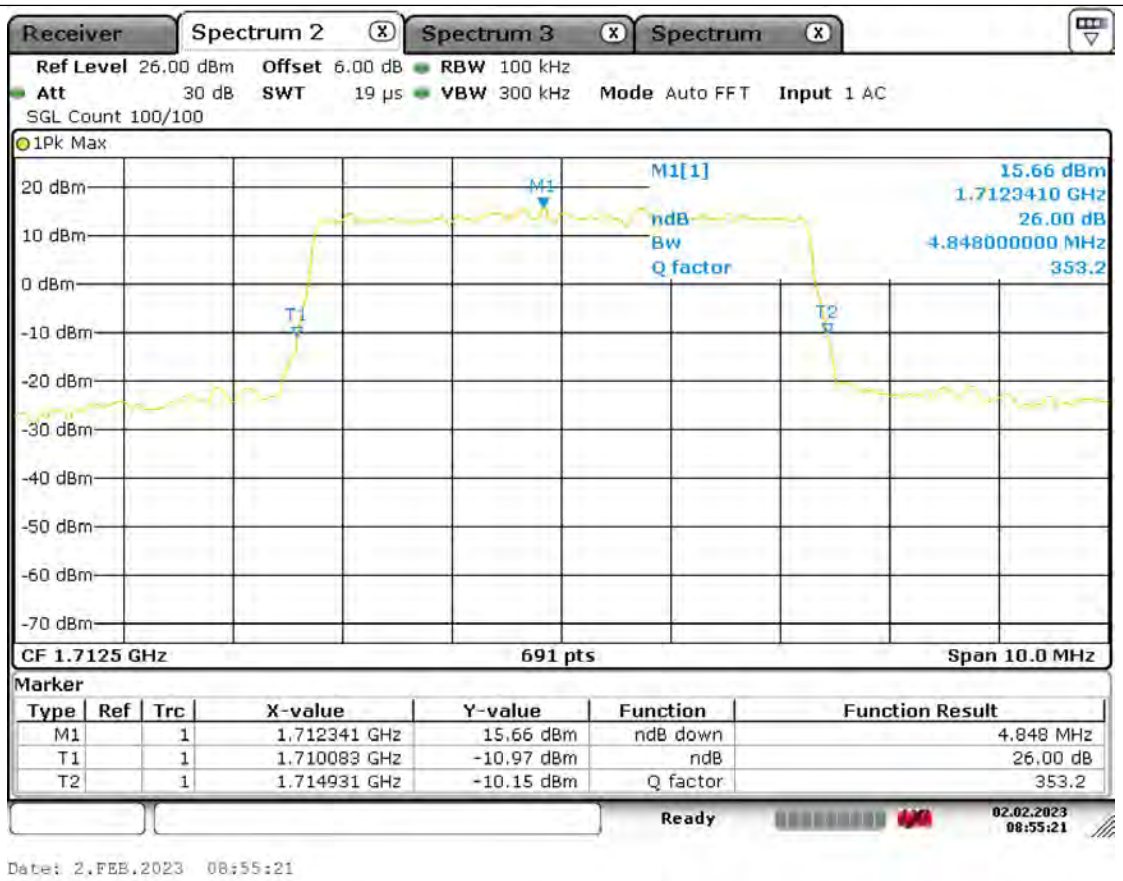

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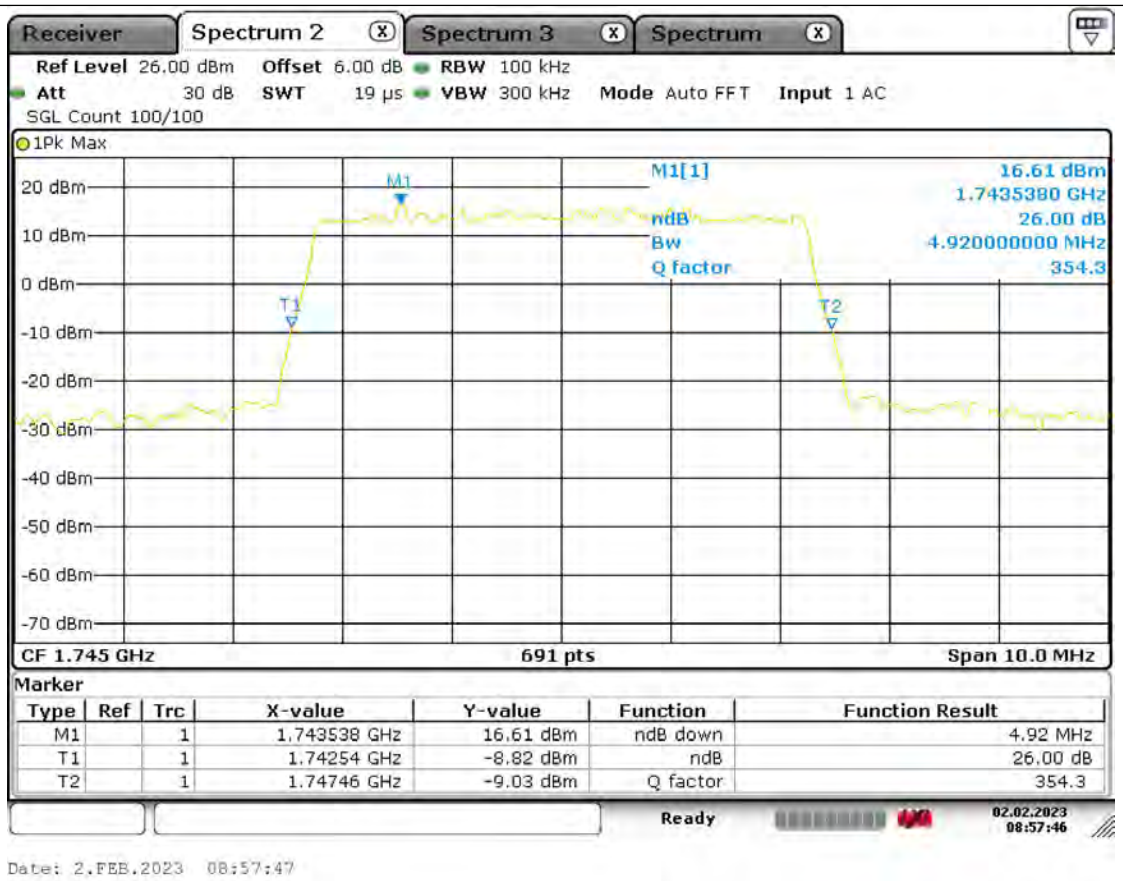

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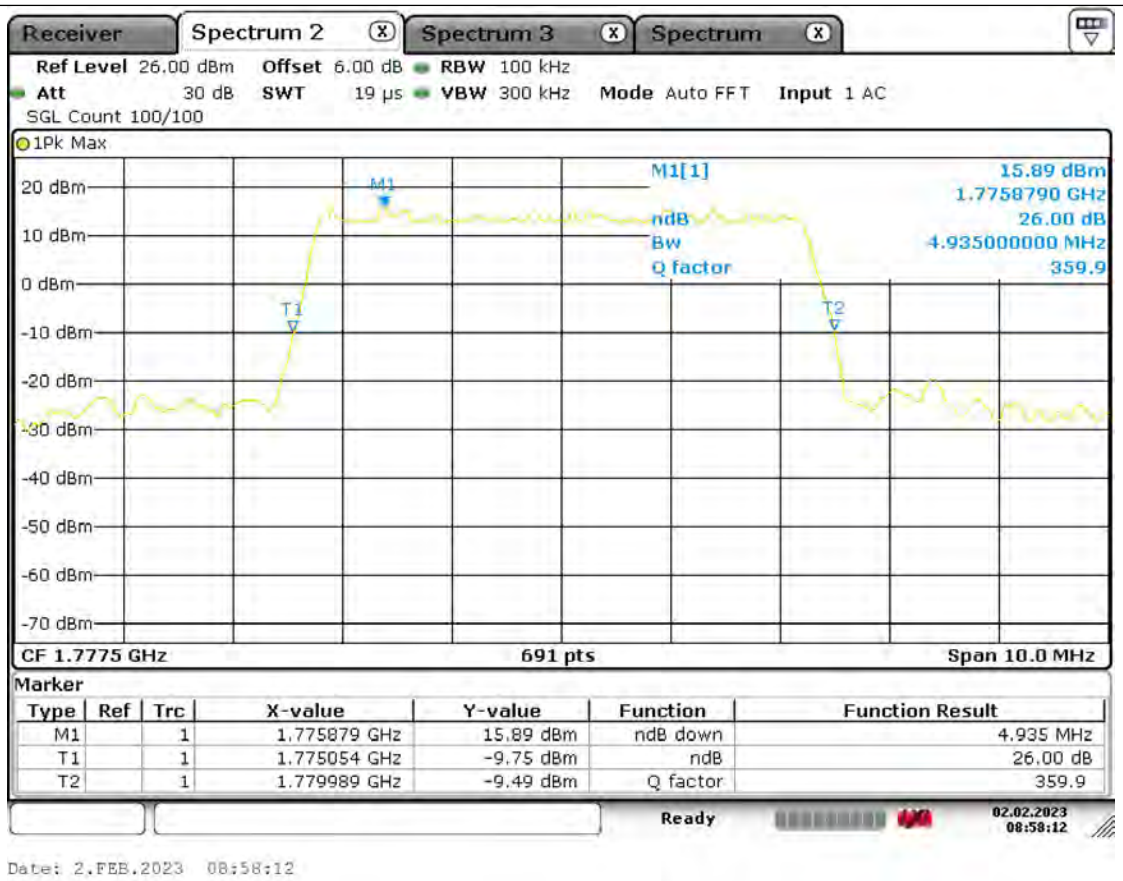

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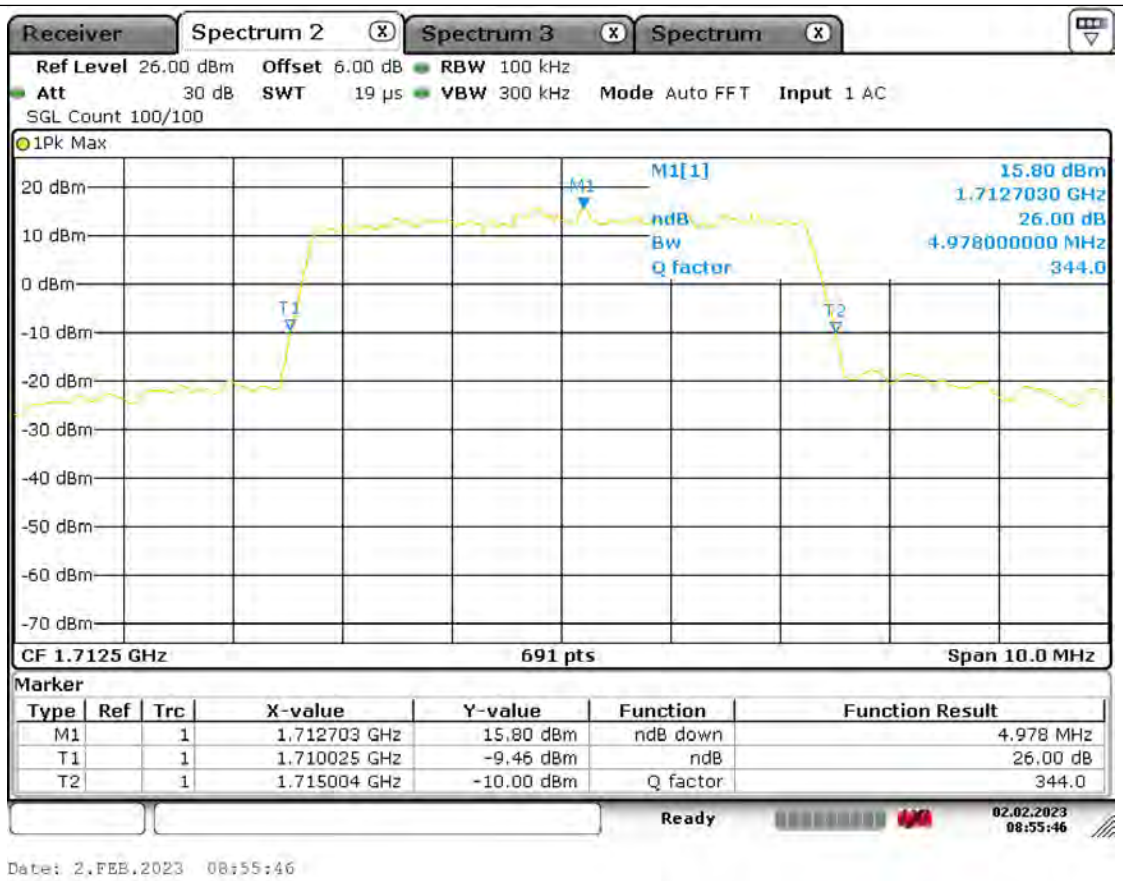

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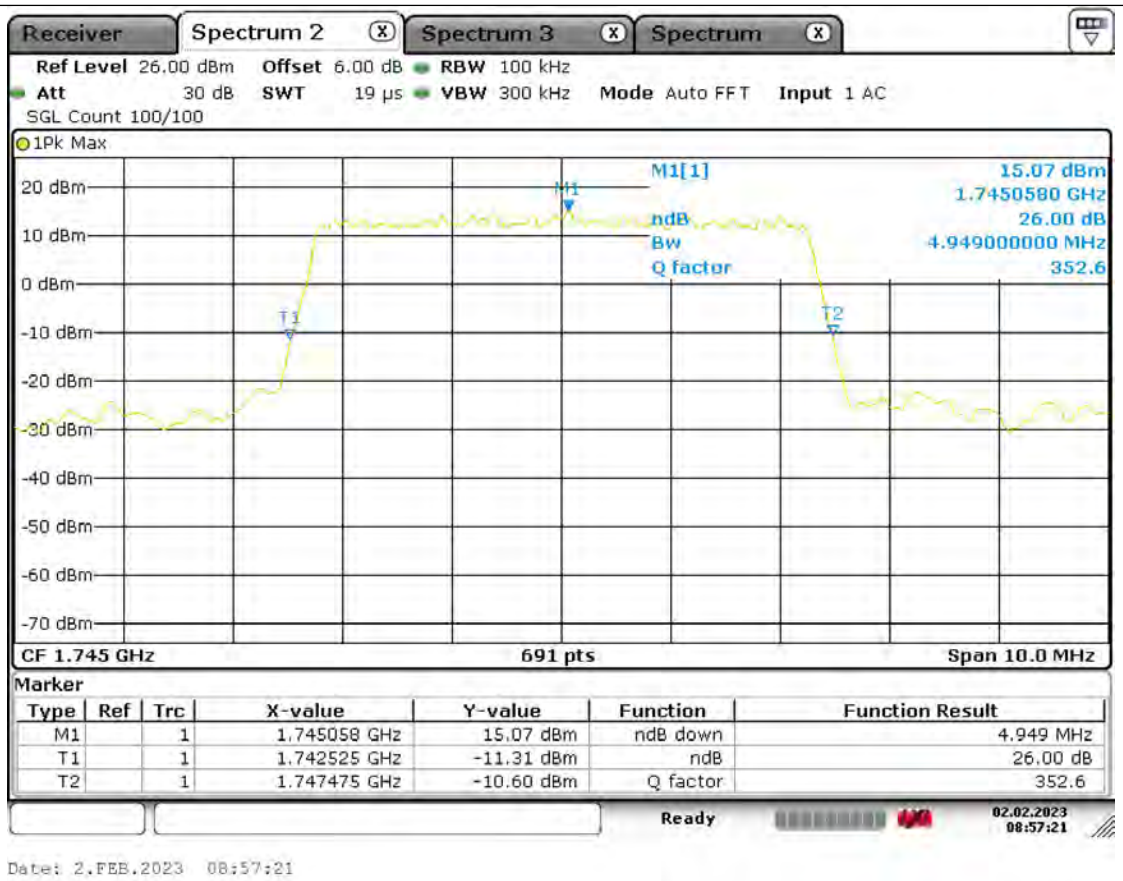

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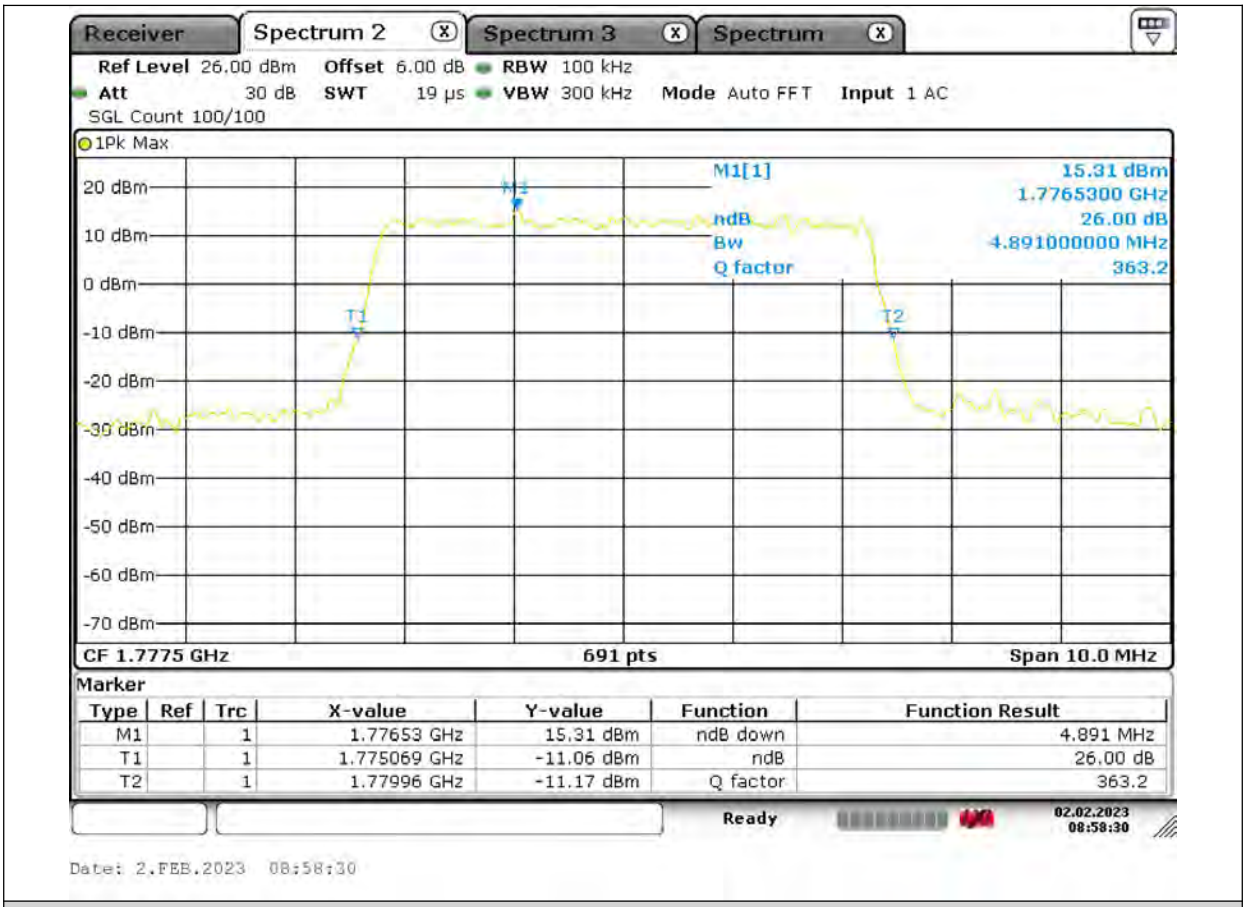

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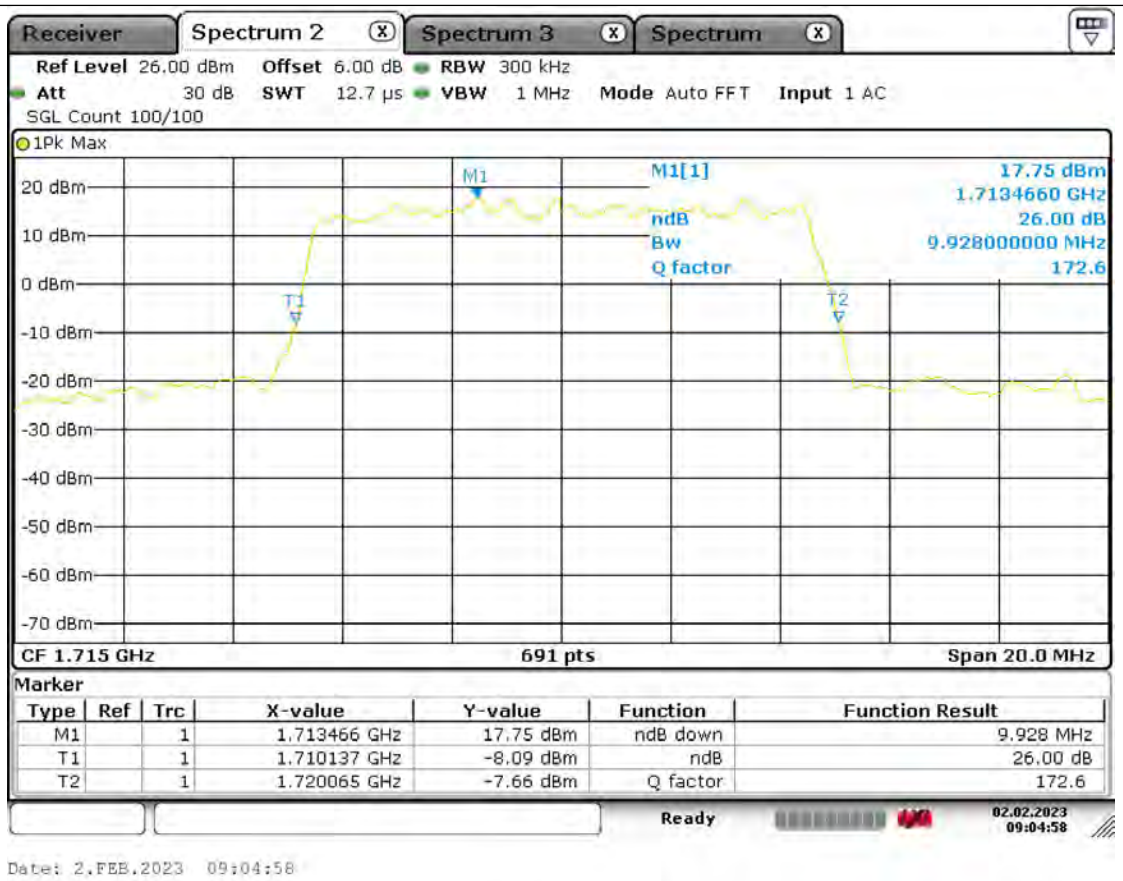

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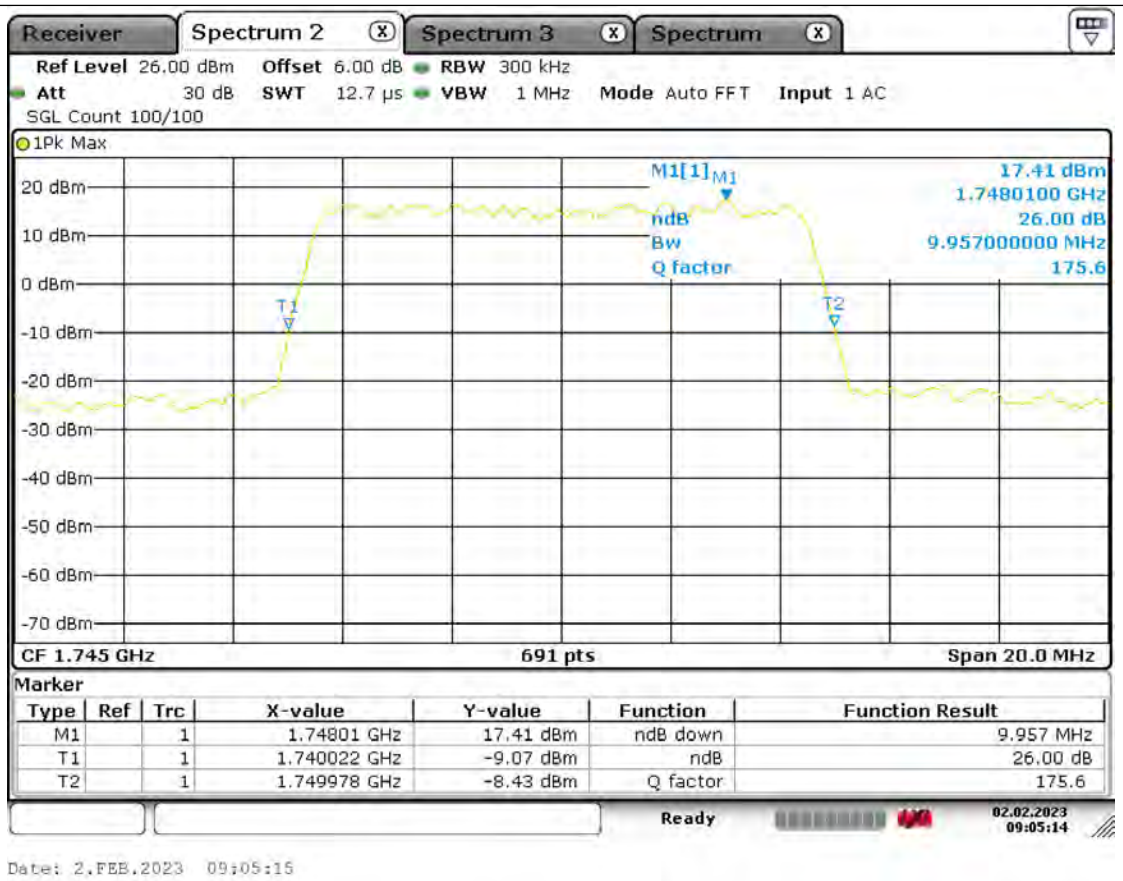

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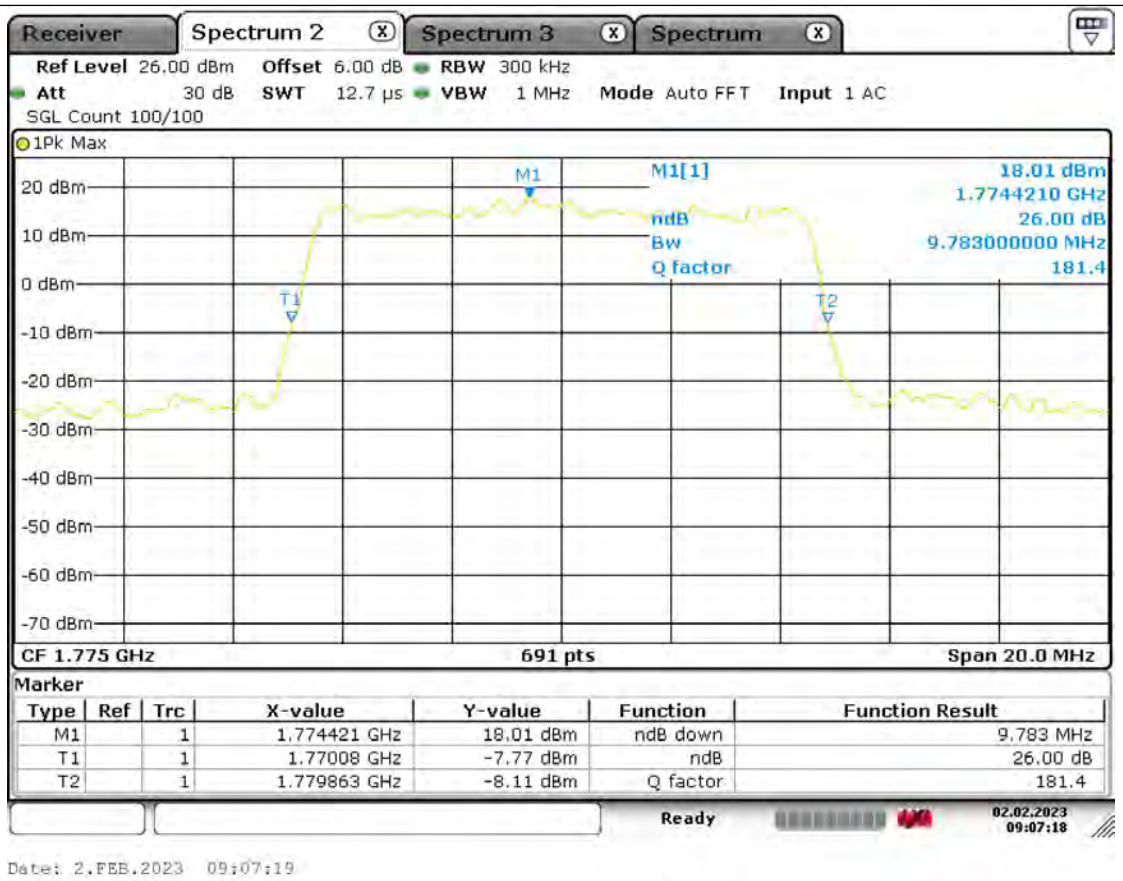

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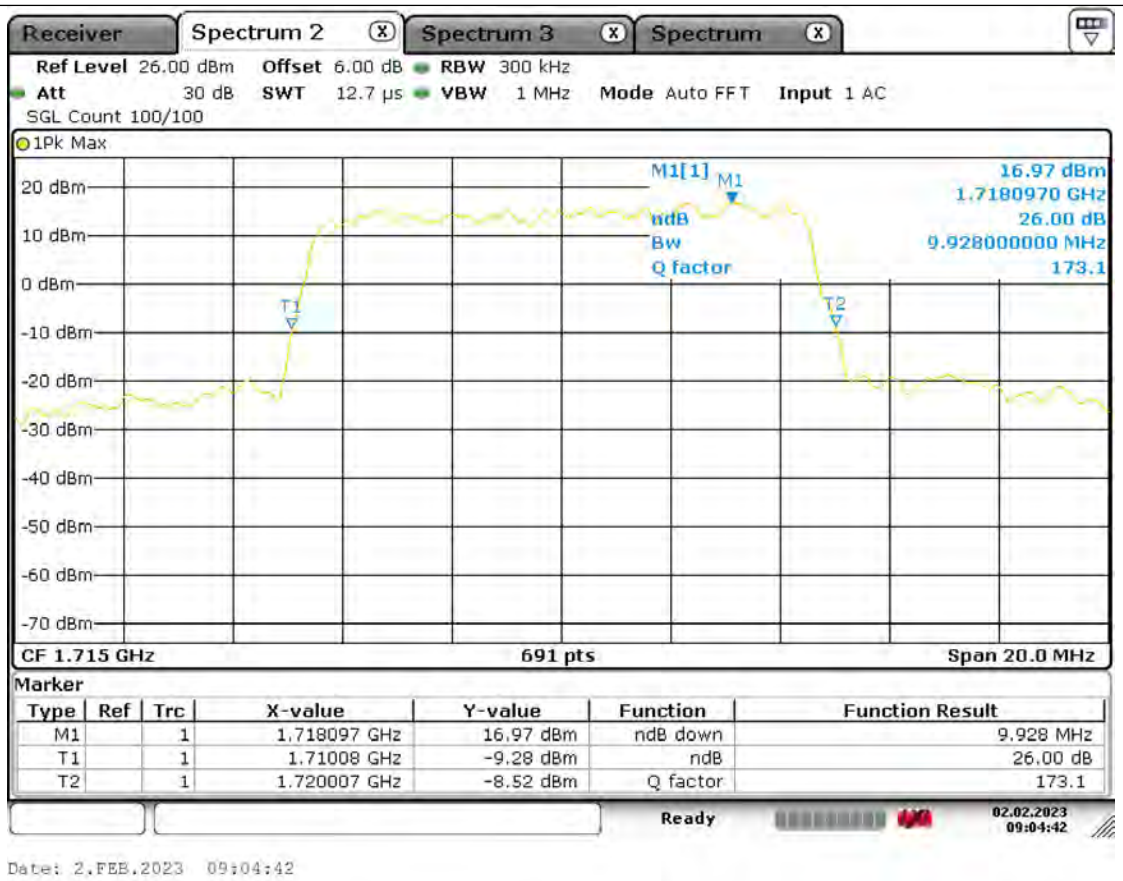

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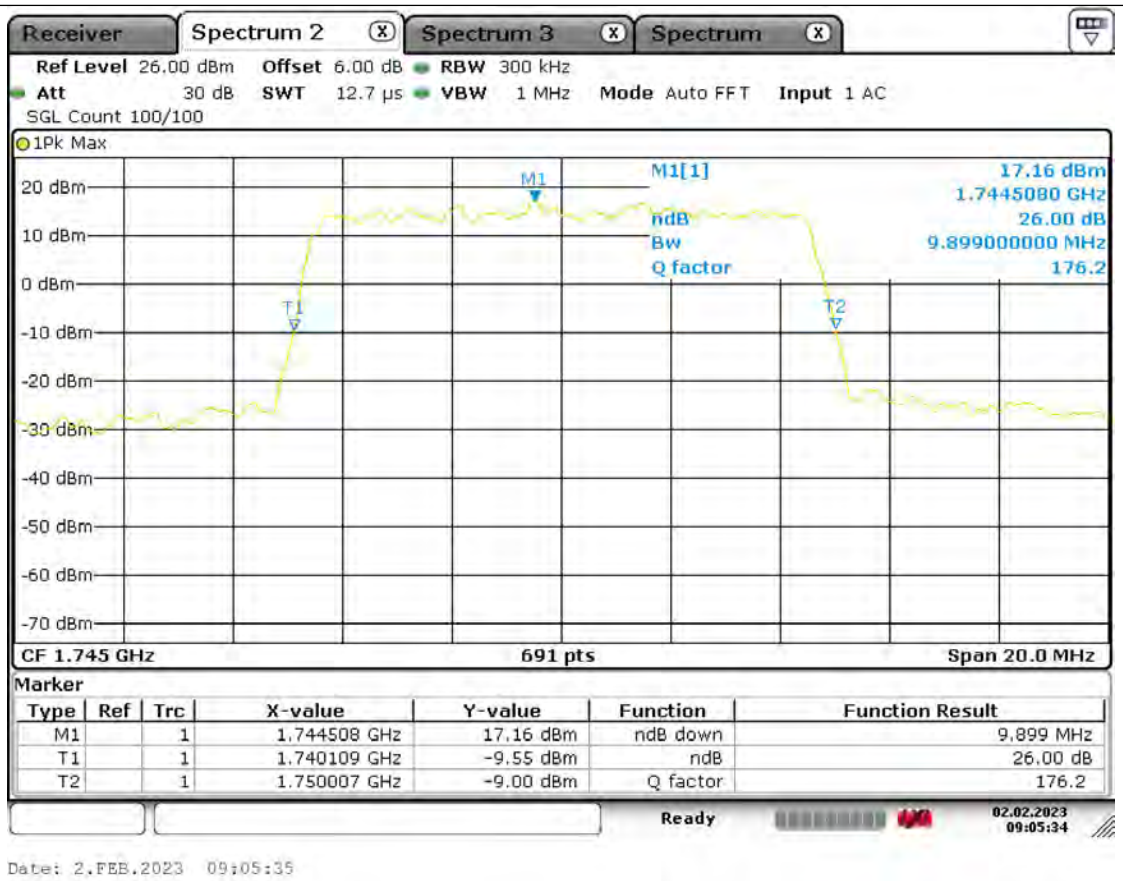

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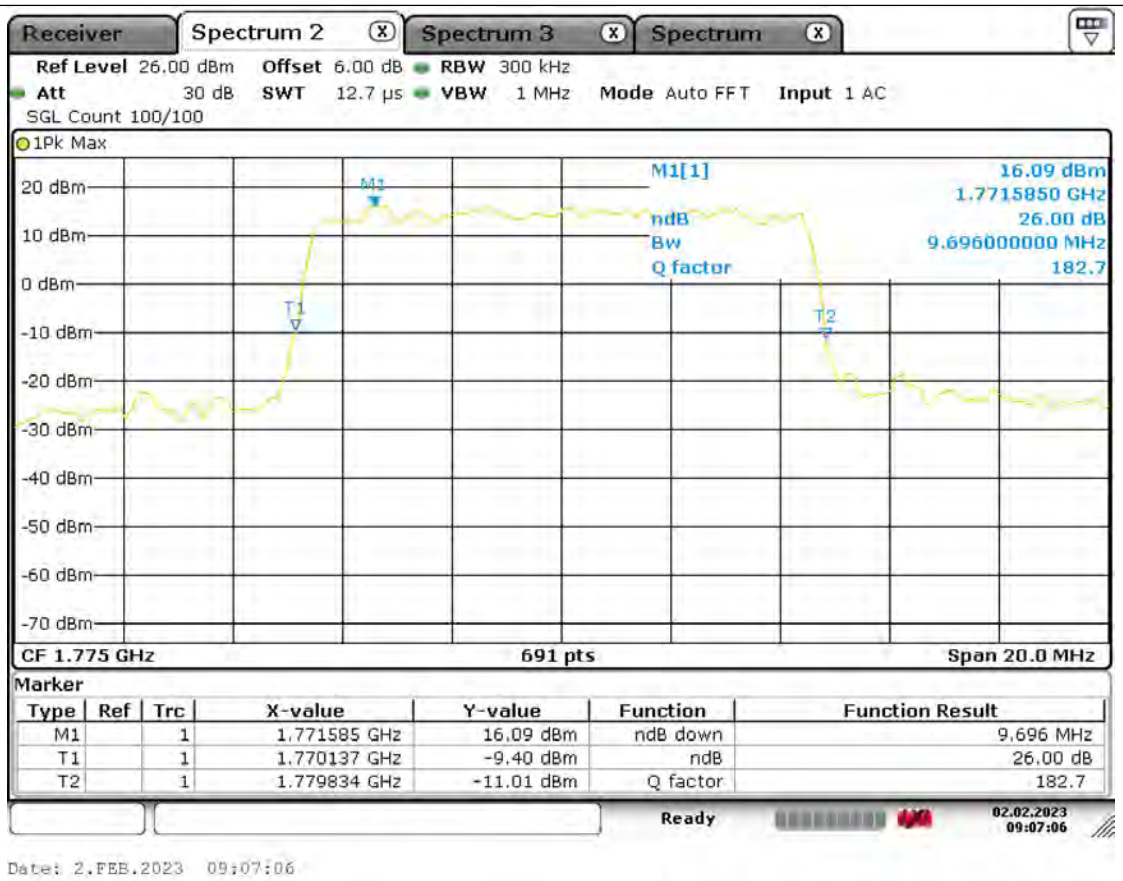

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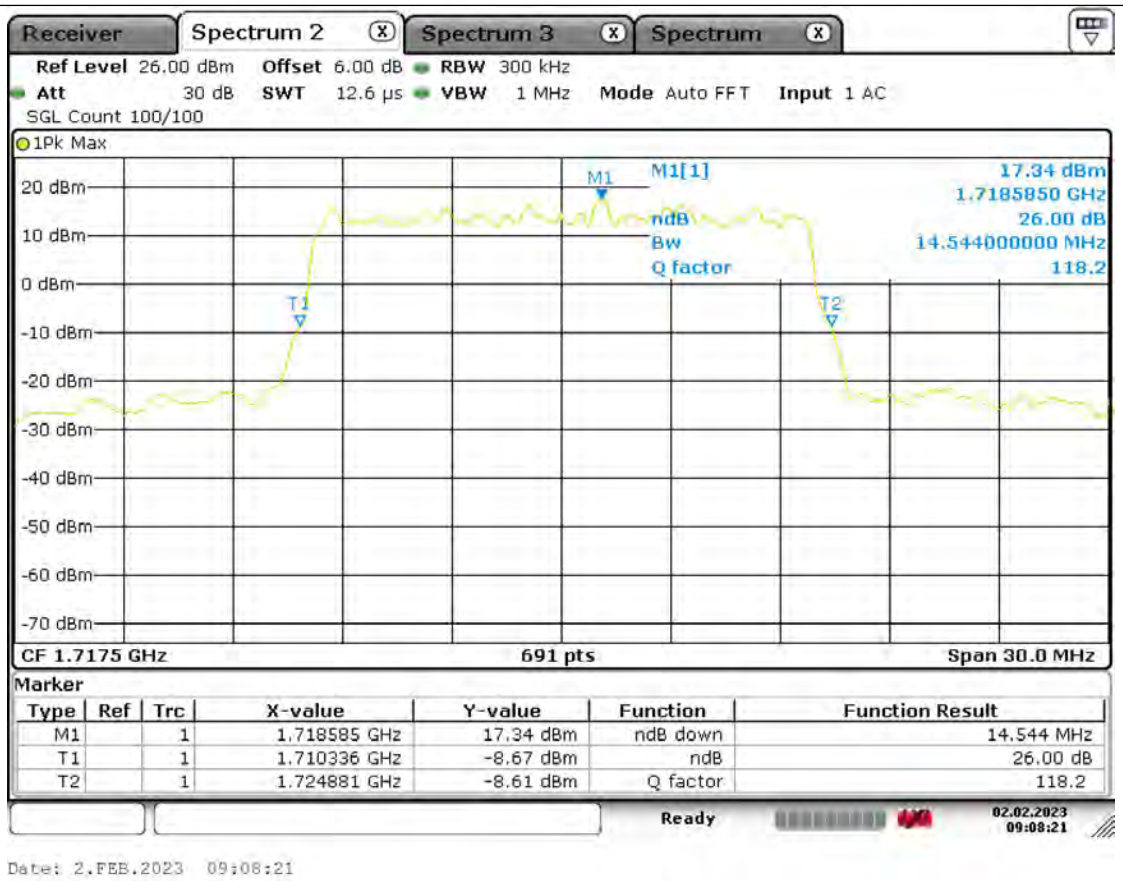

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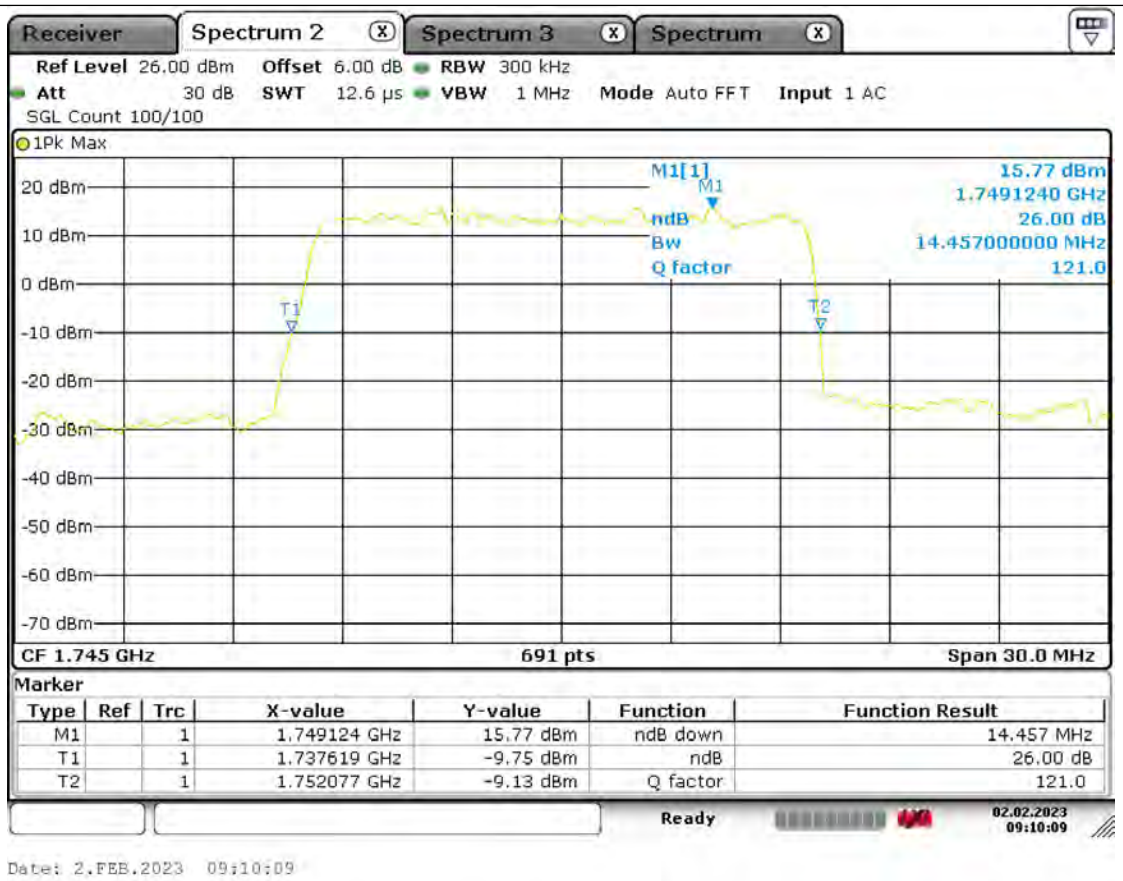

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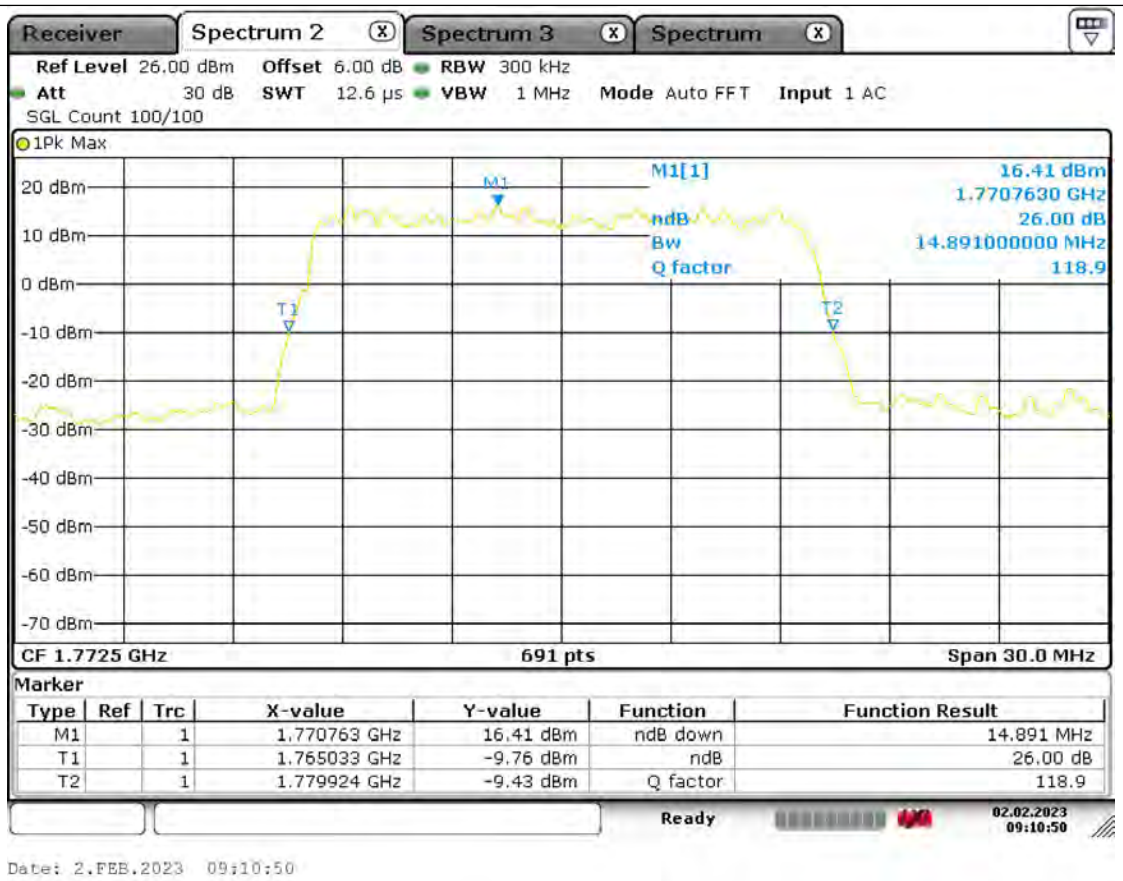

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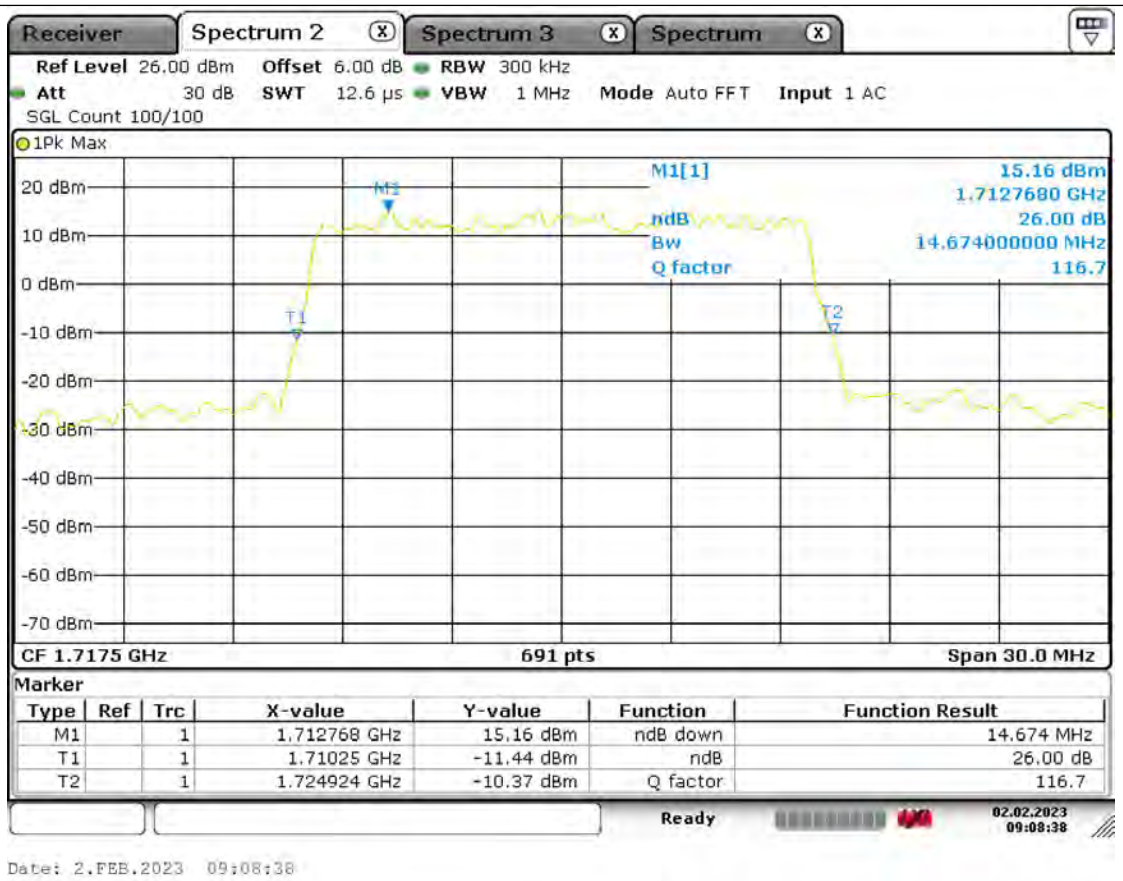

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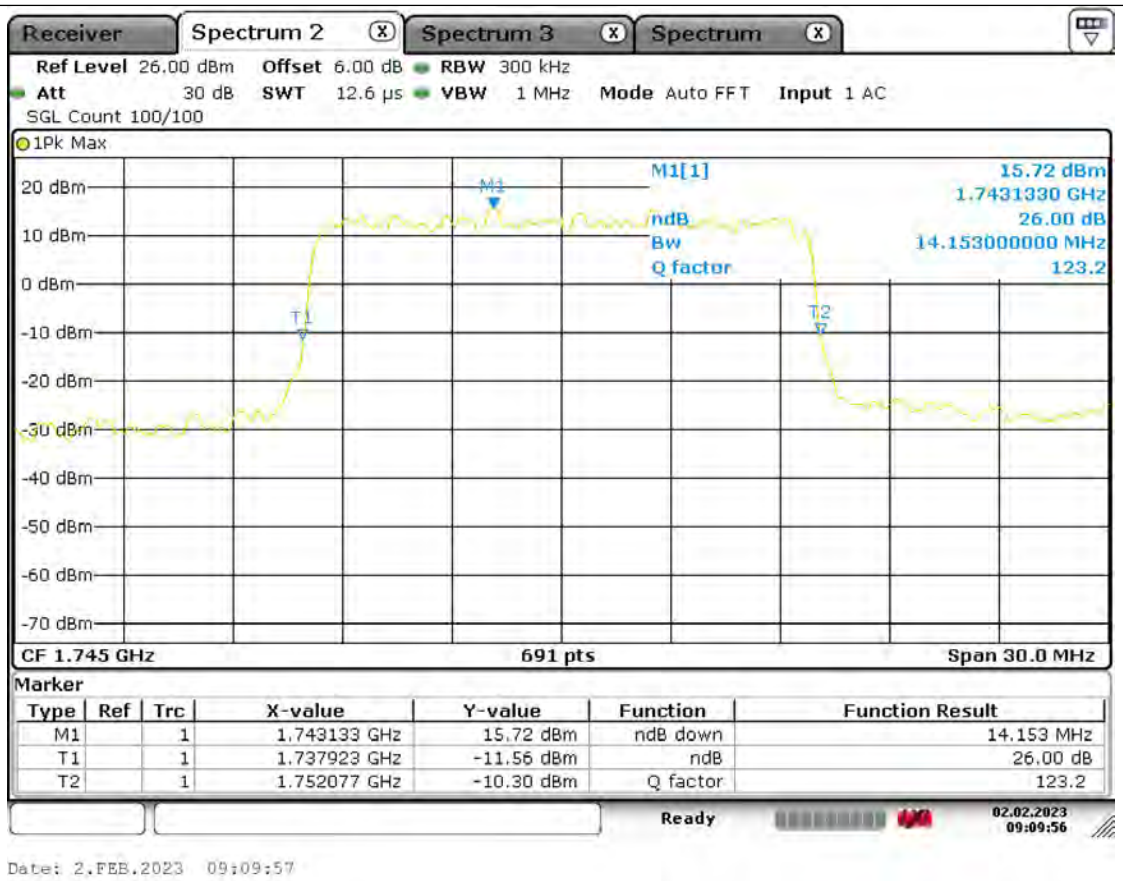

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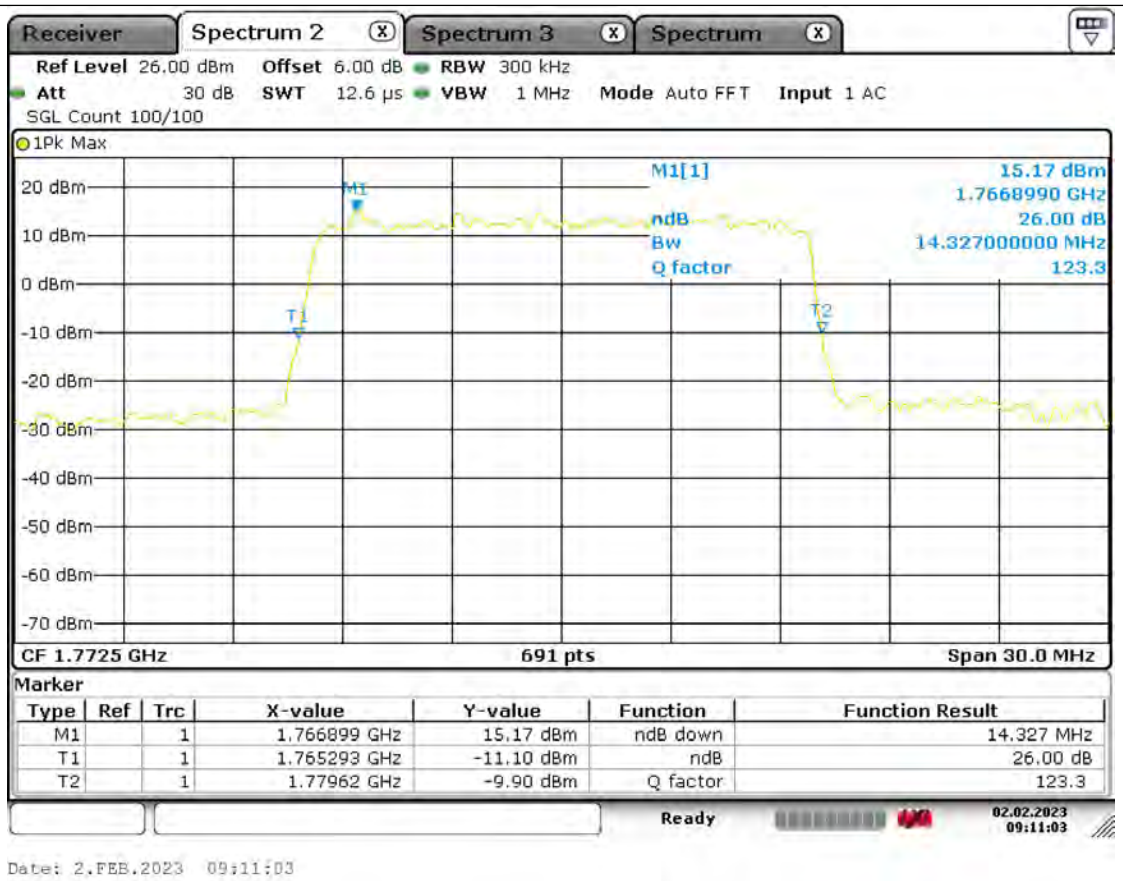

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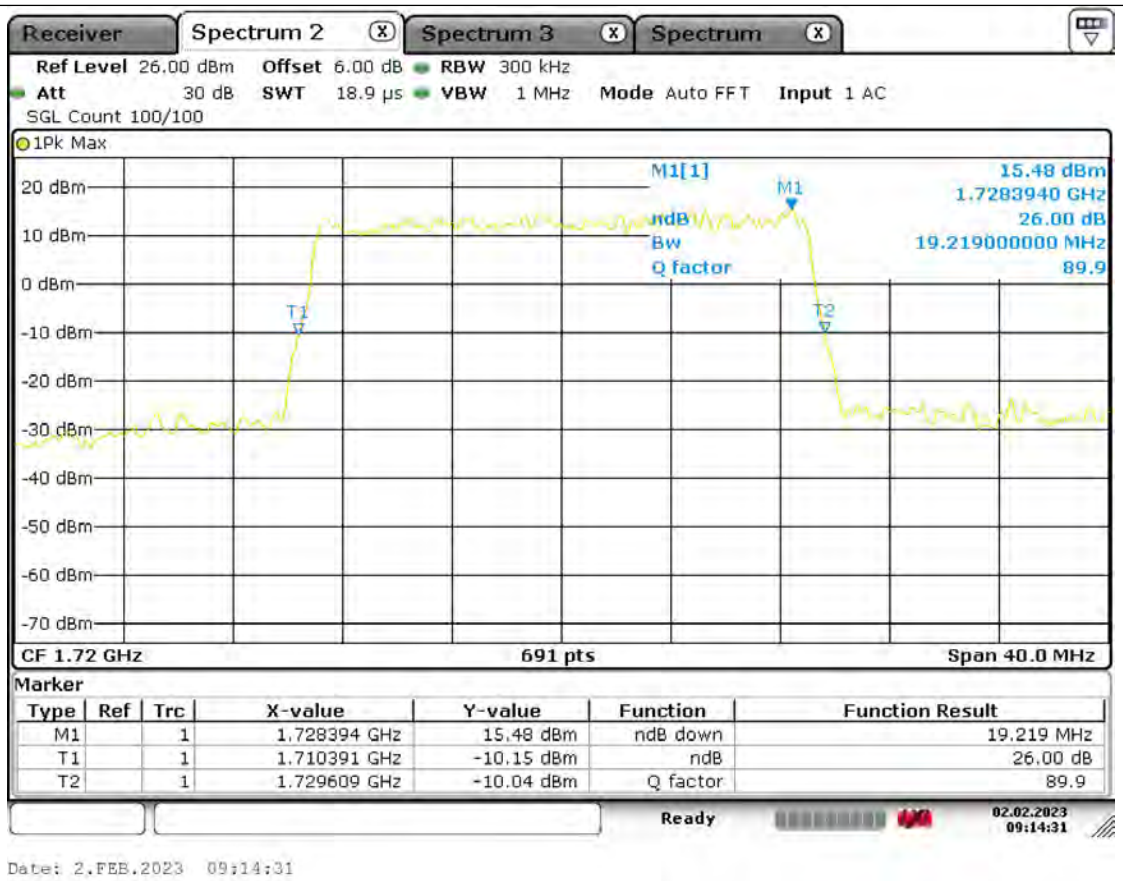

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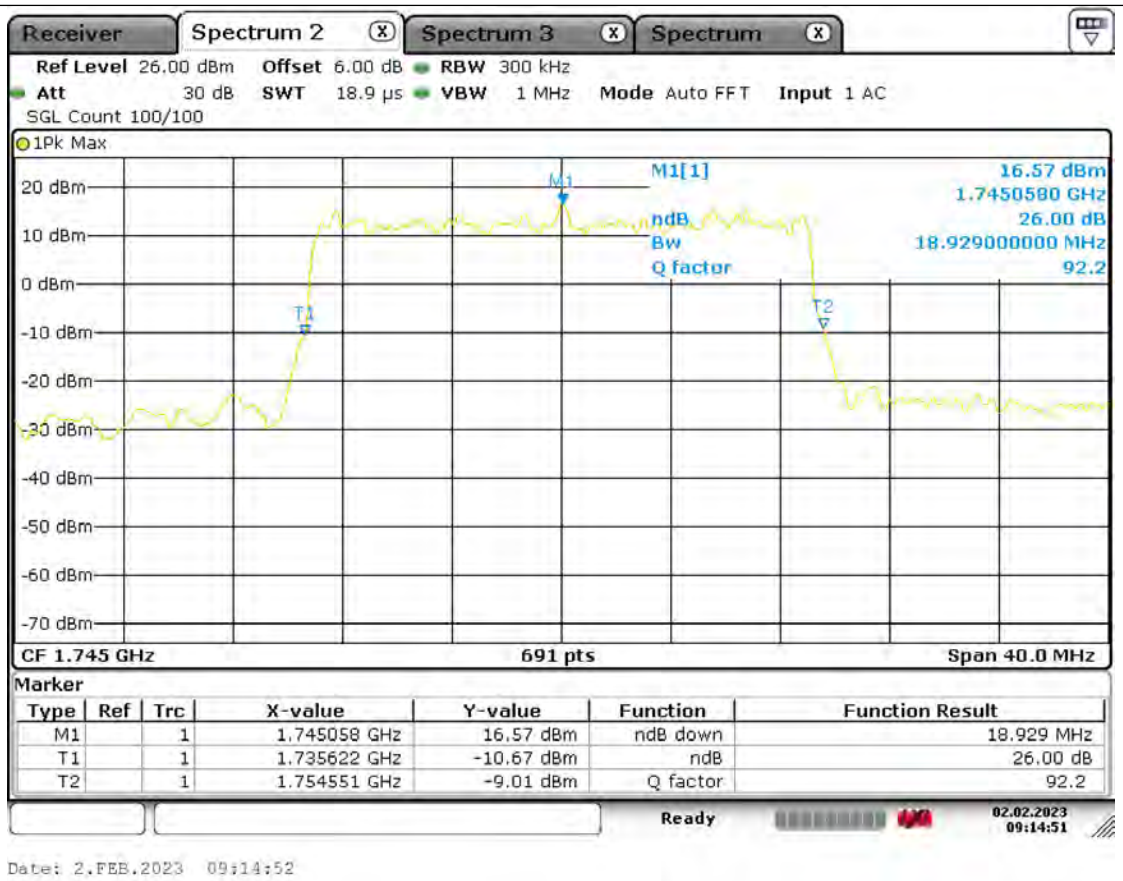
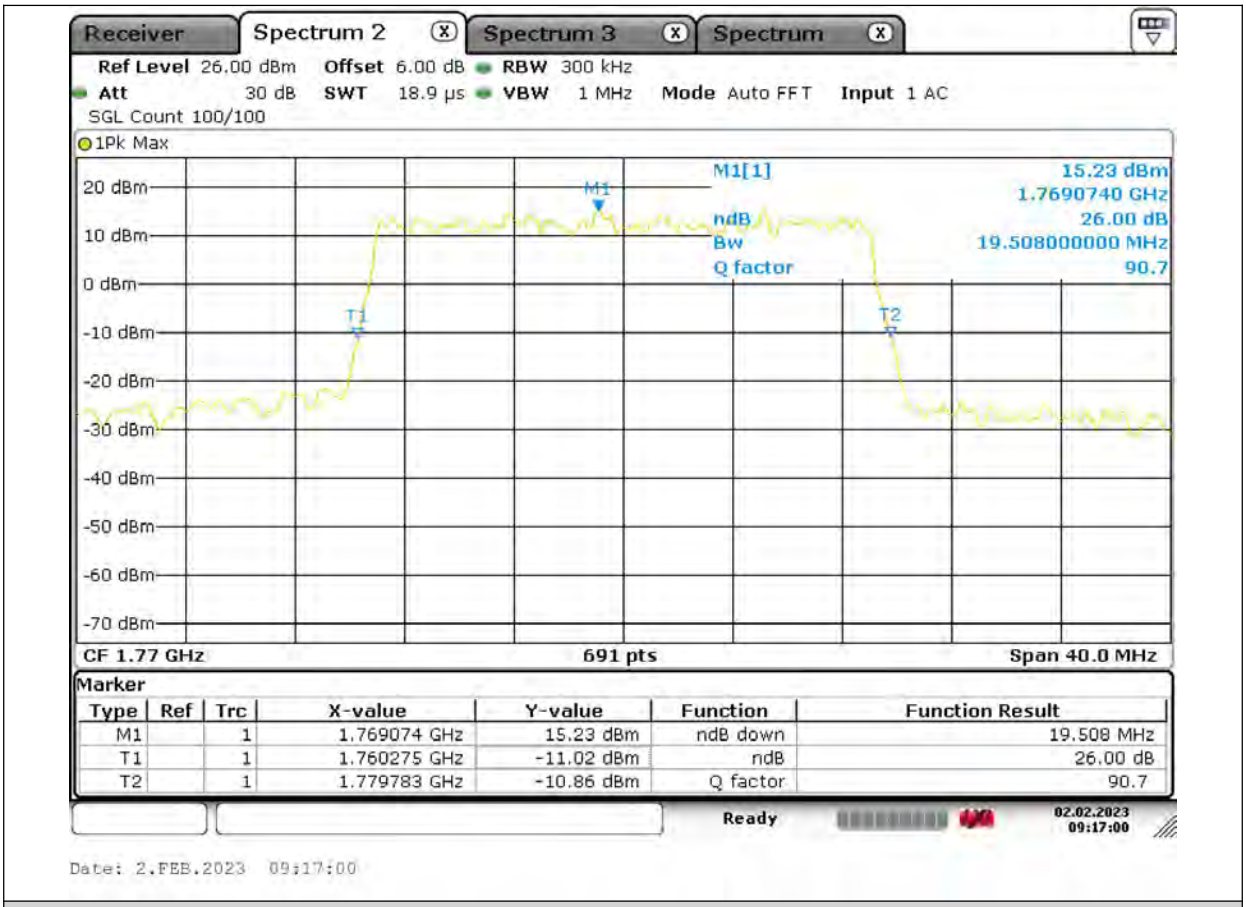
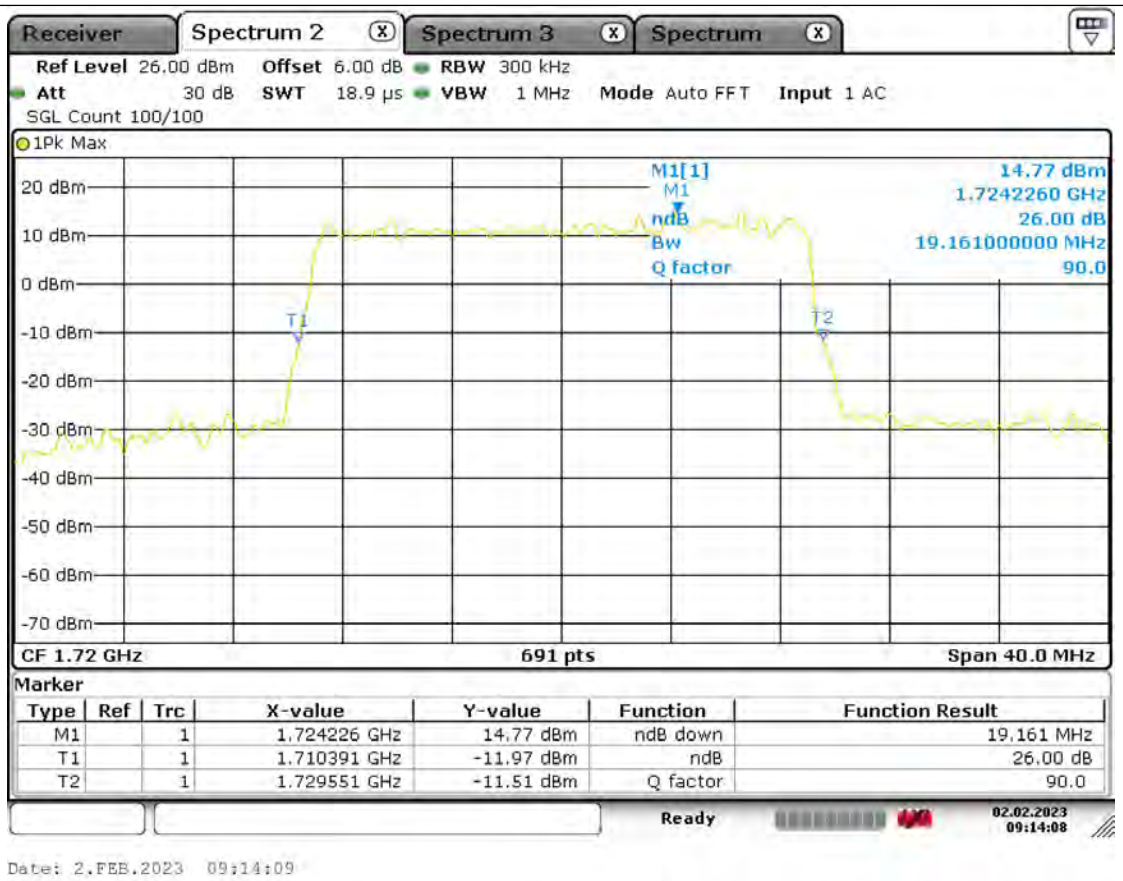


Band66-20MHz-QPSK-132572-100RB#0



Band66-20MHz-16QAM-132072-100RB#0



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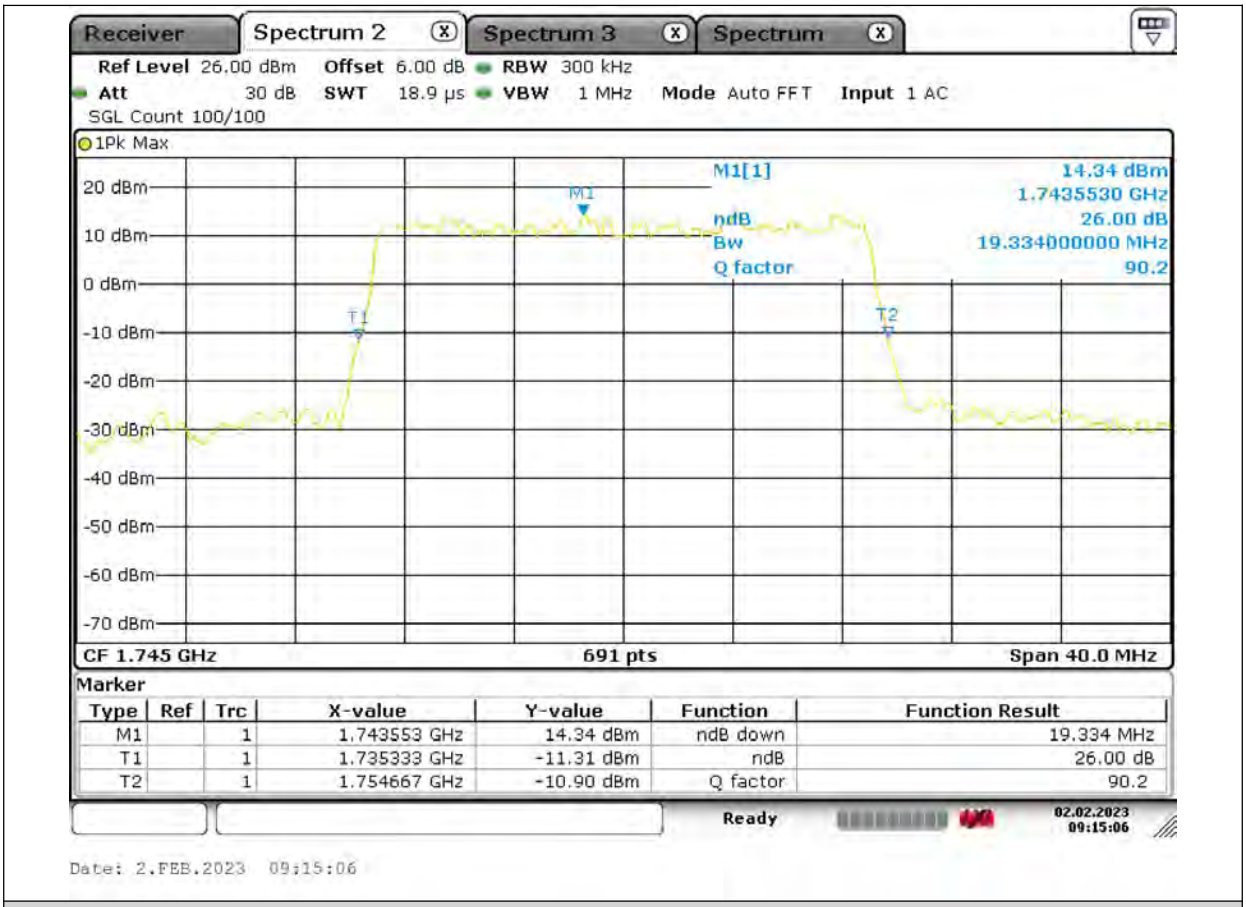

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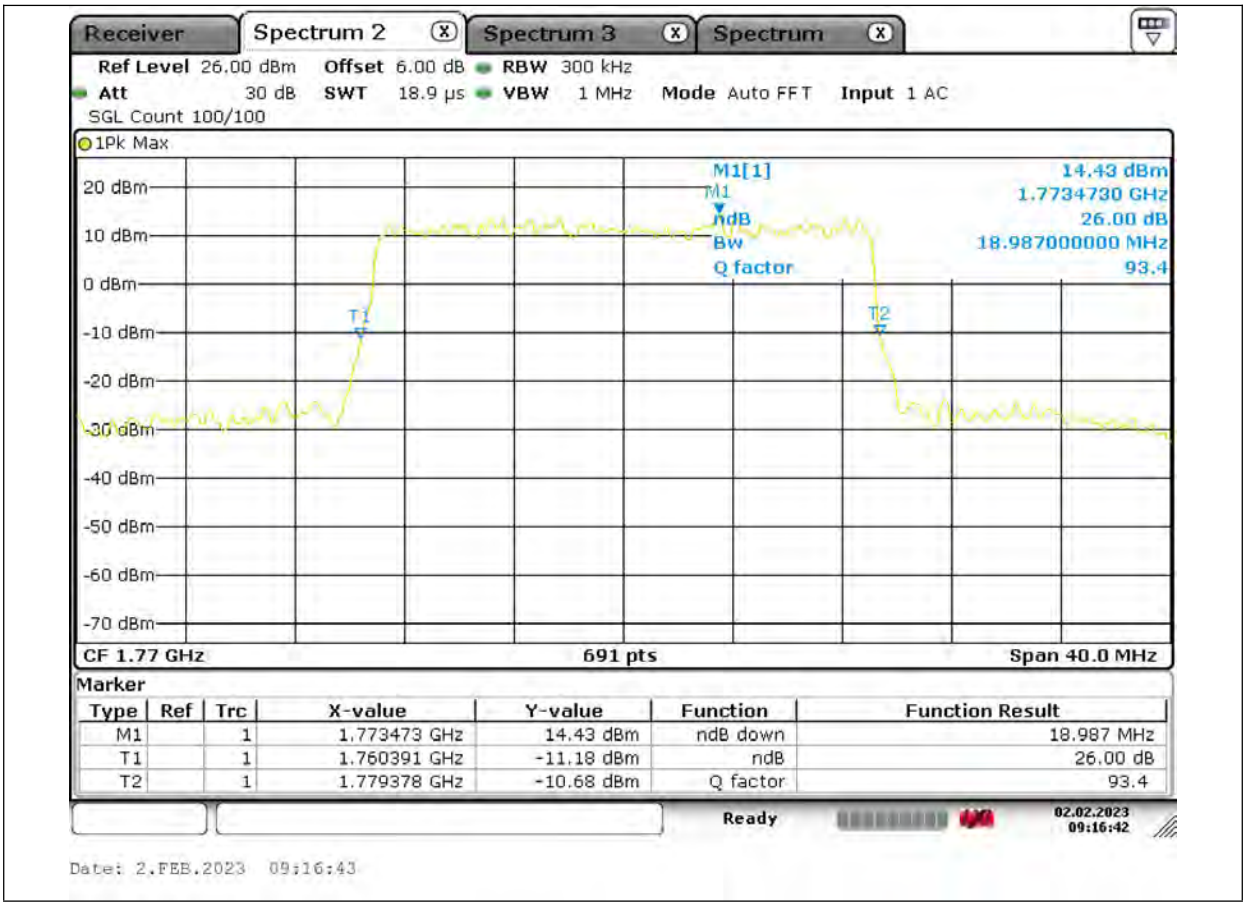
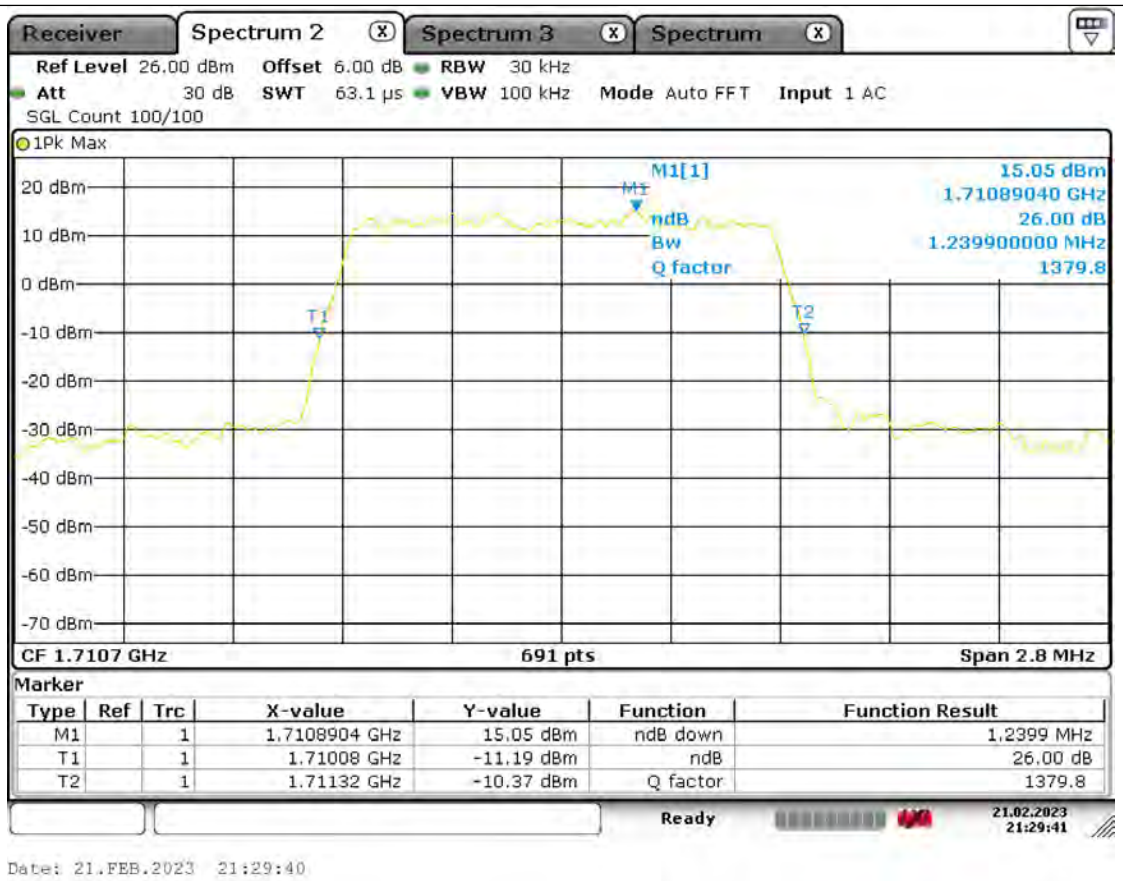


Band66-1.4MHz-64QAM-131979-6RB#0



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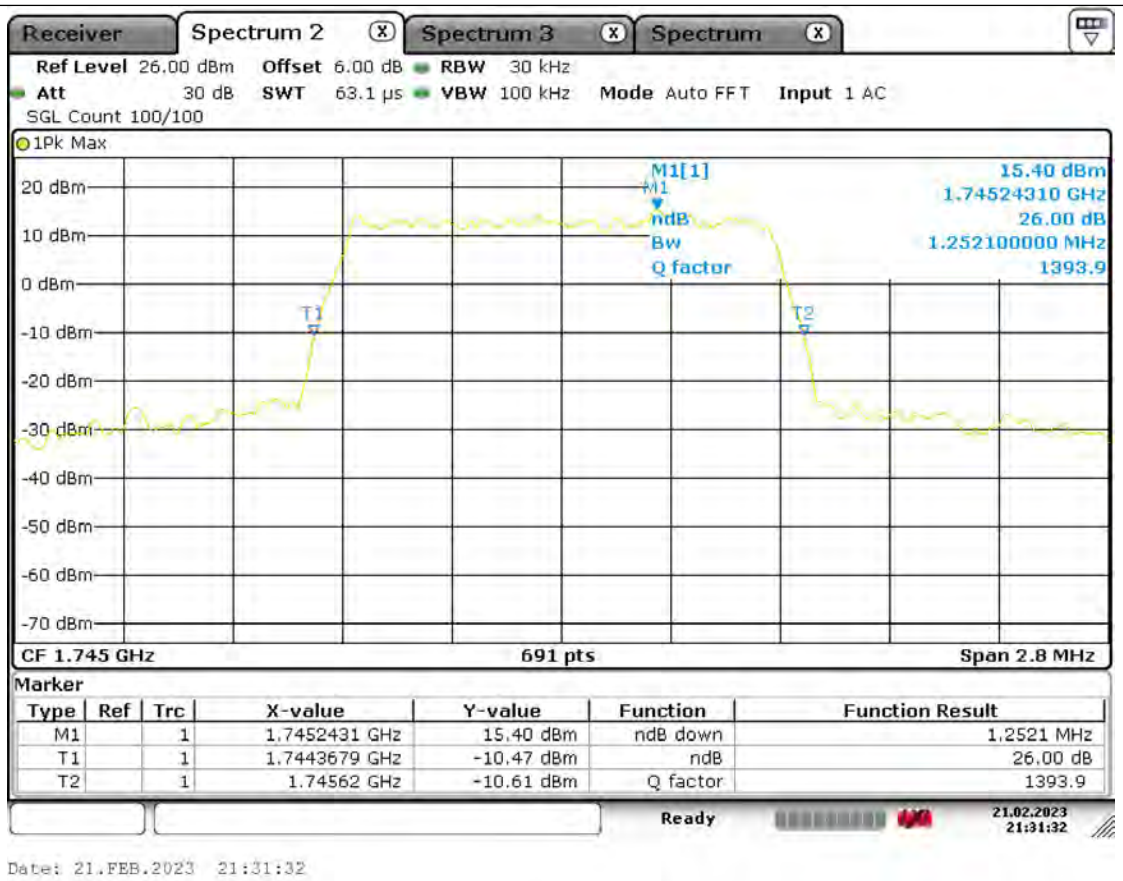

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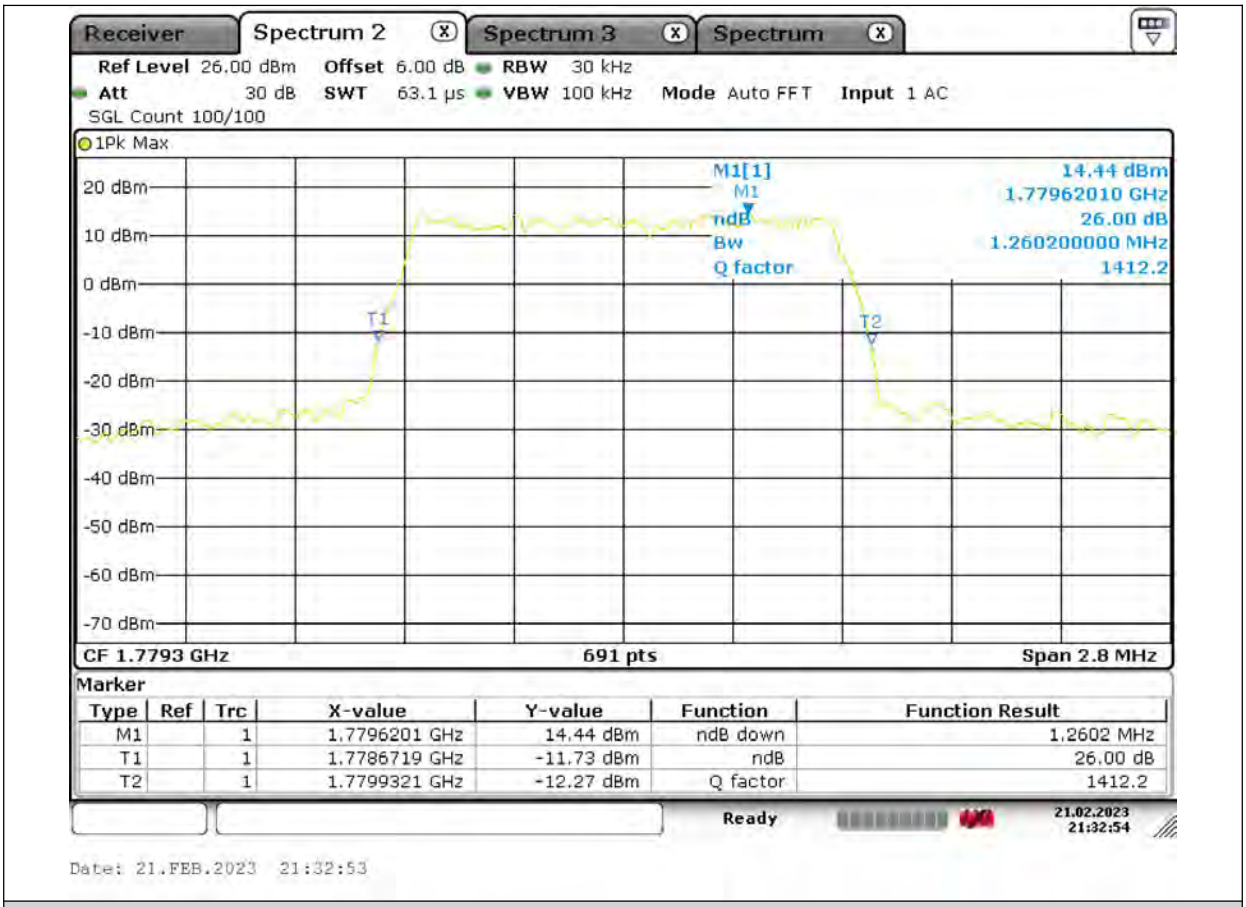
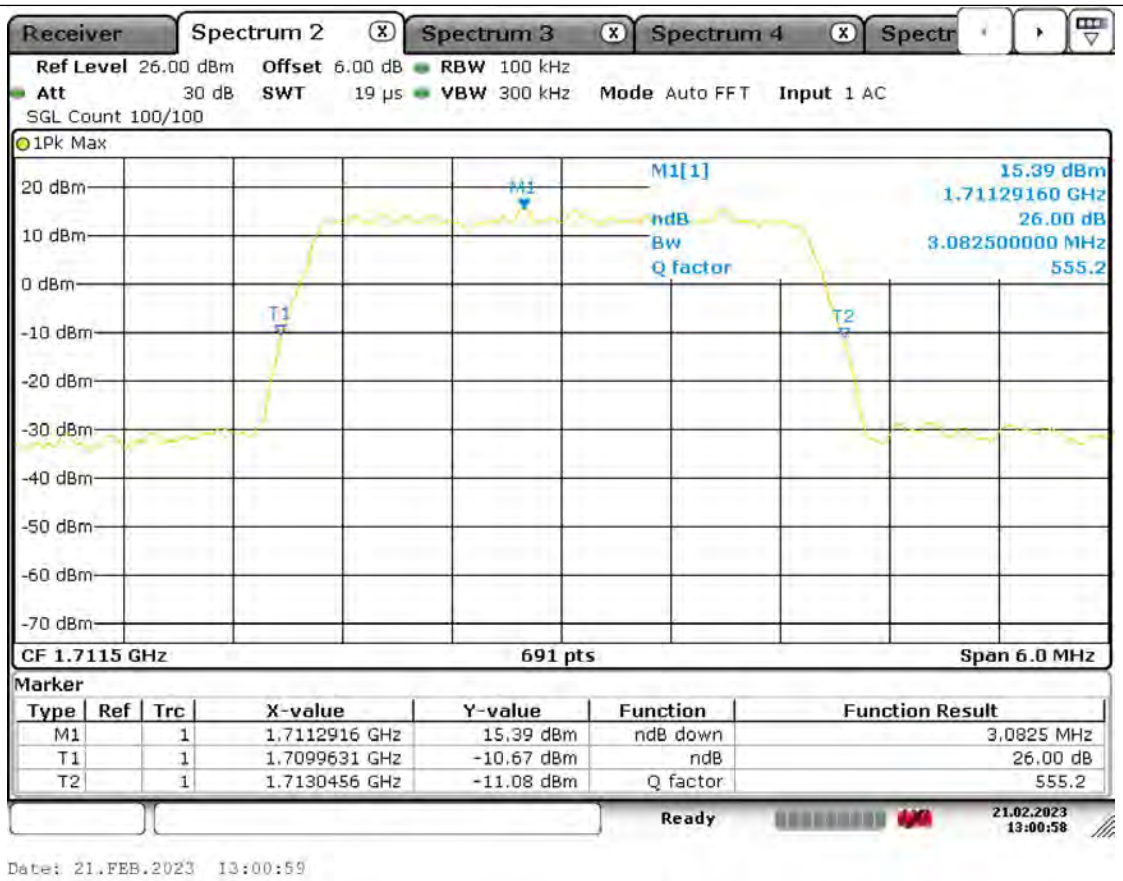


Band66-3MHz-64QAM-131987-15RB#0



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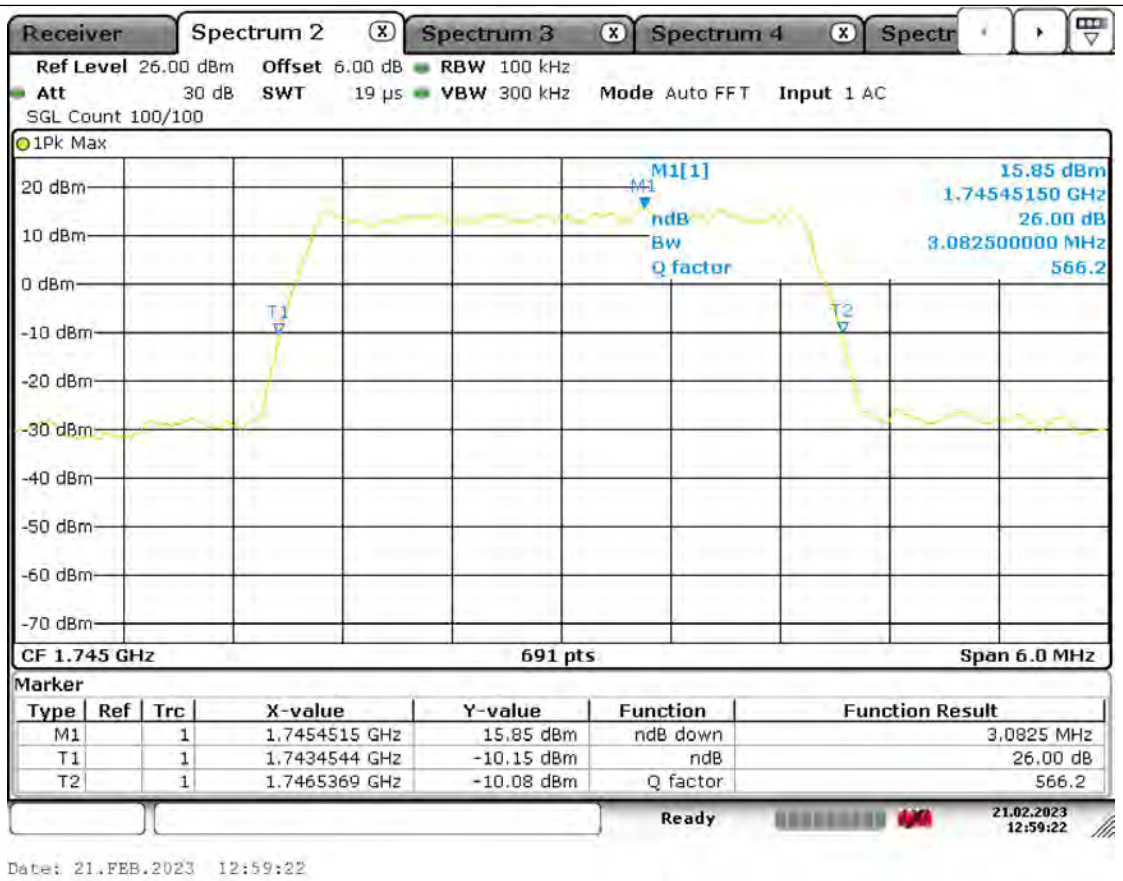

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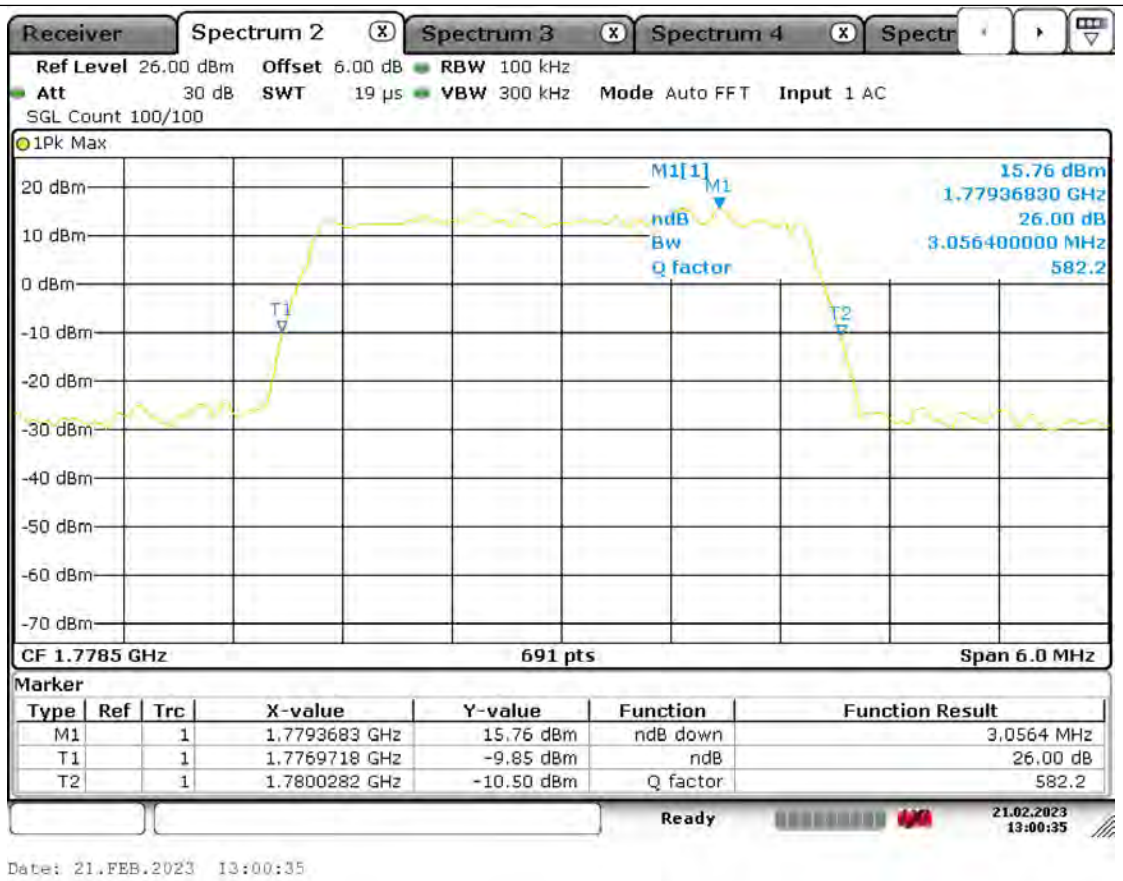
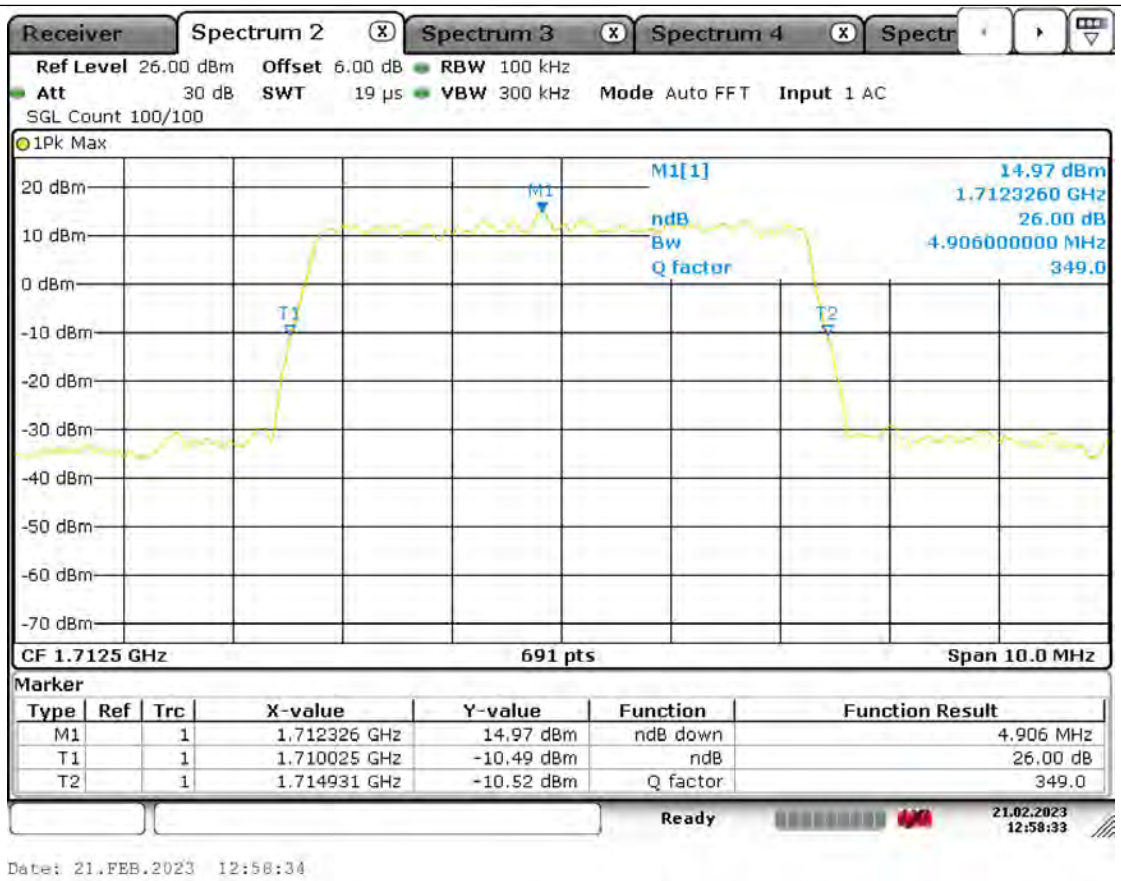


Band66-5MHz-64QAM-131997-25RB#0



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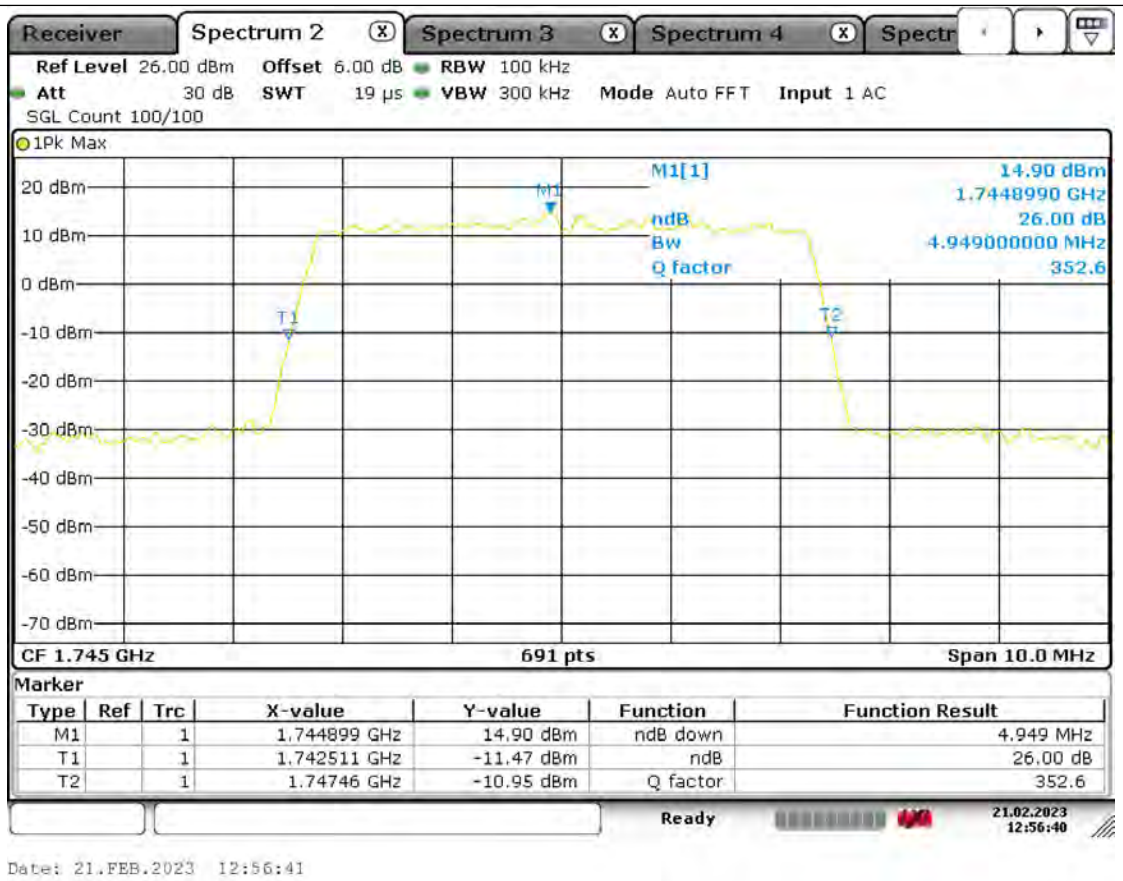
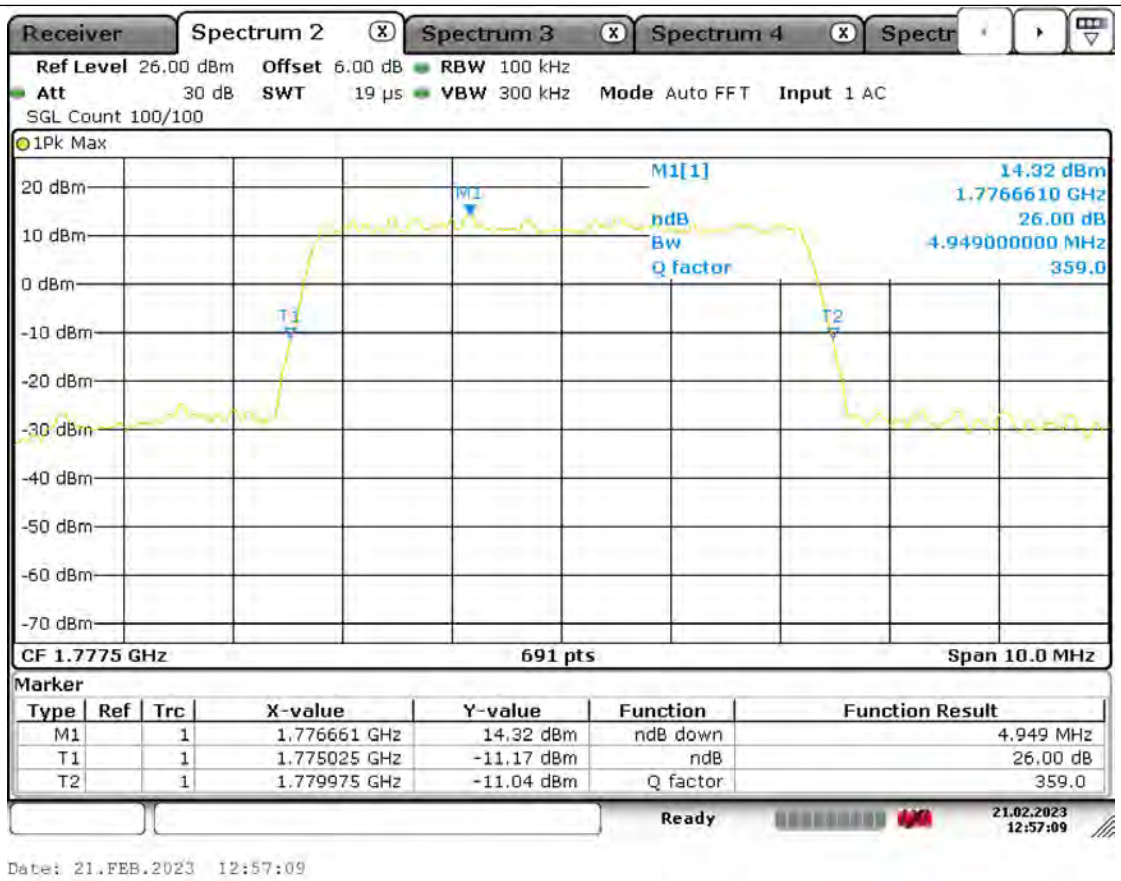


Band66-5MHz-64QAM-132647-25RB#0



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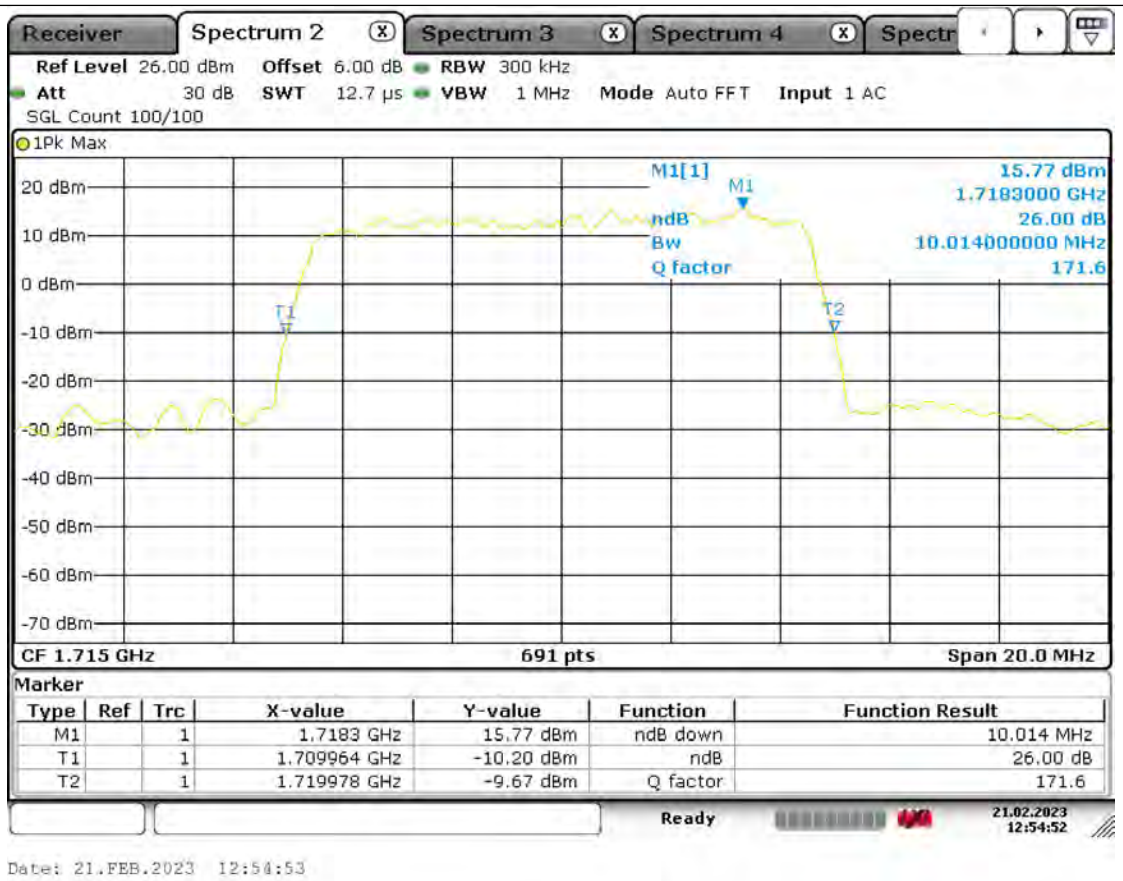
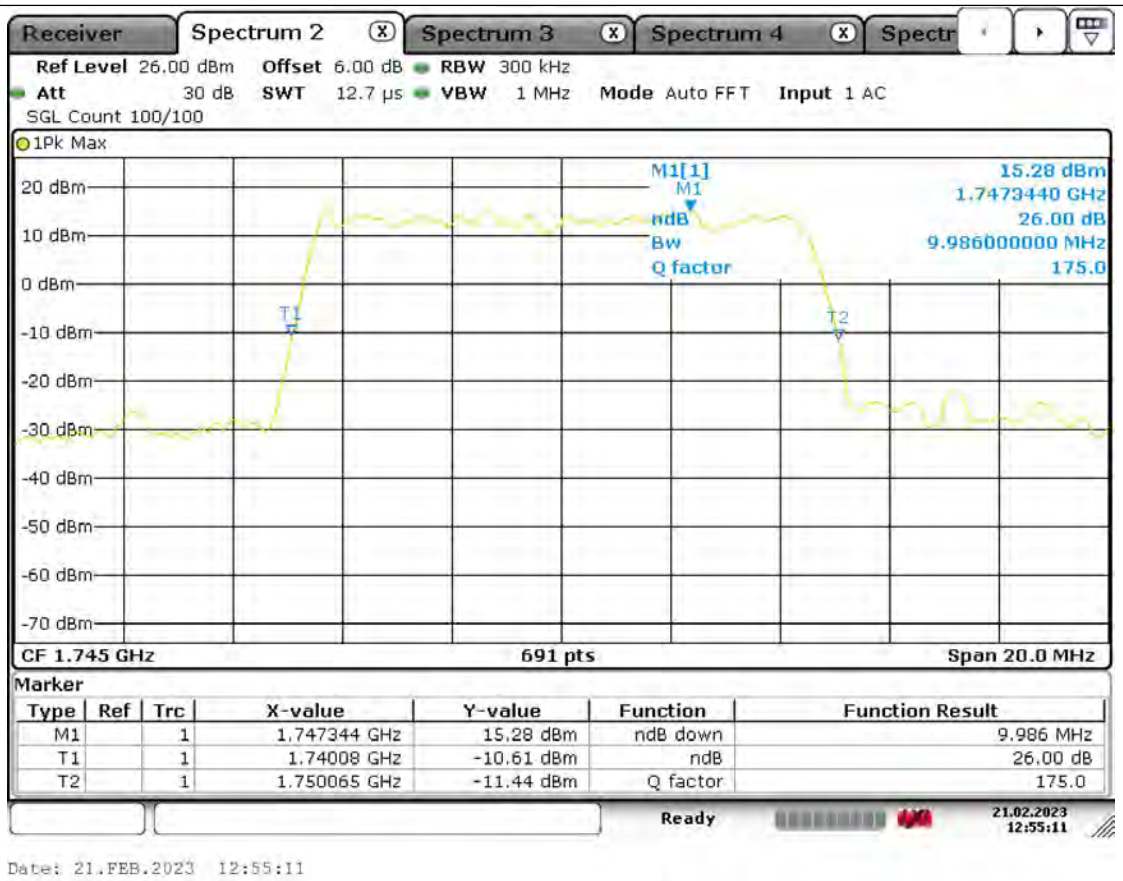


Band66-10MHz-64QAM-132322-50RB#0



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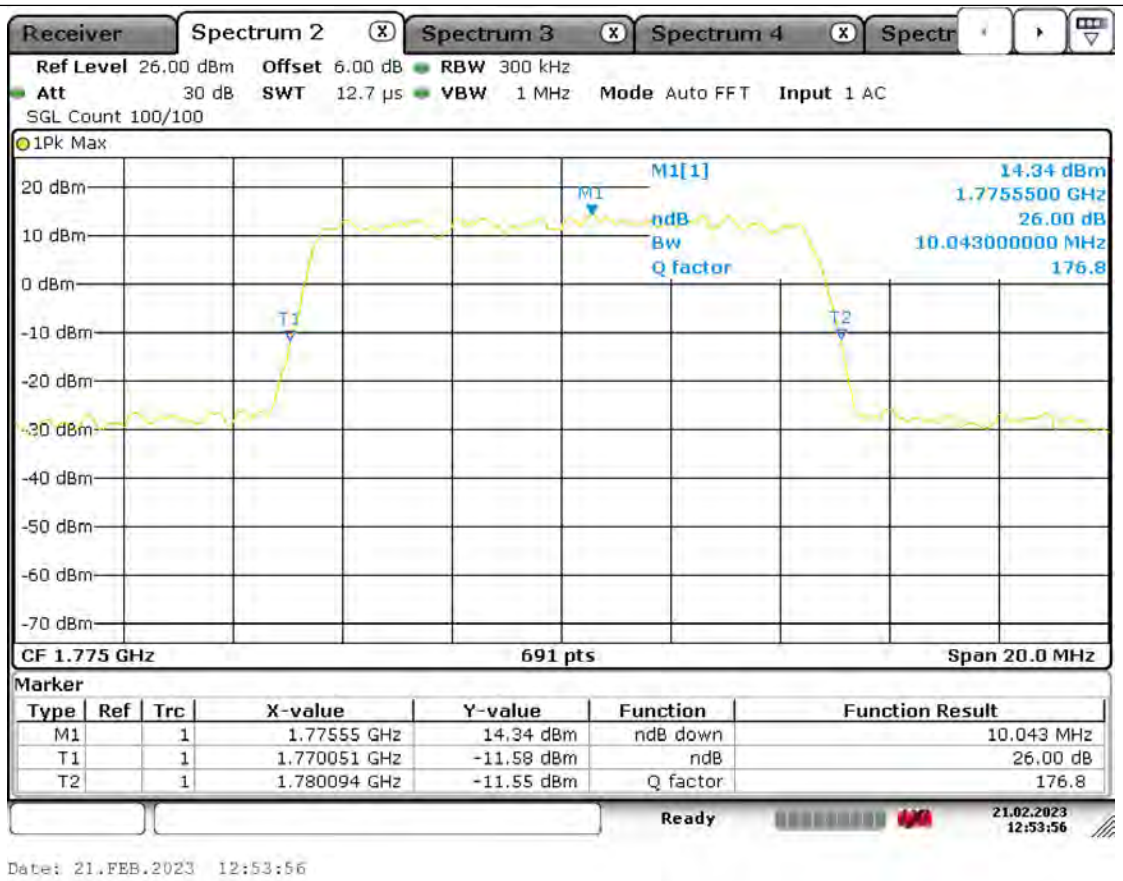
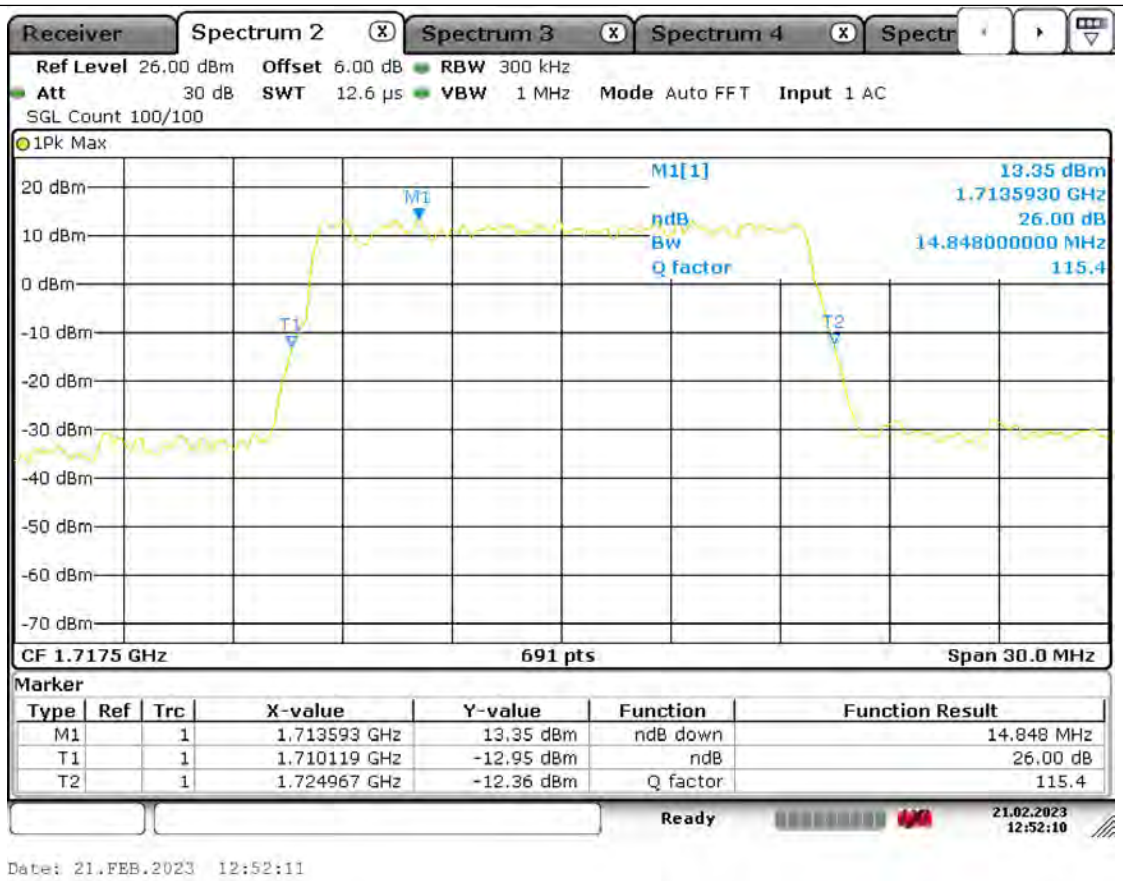
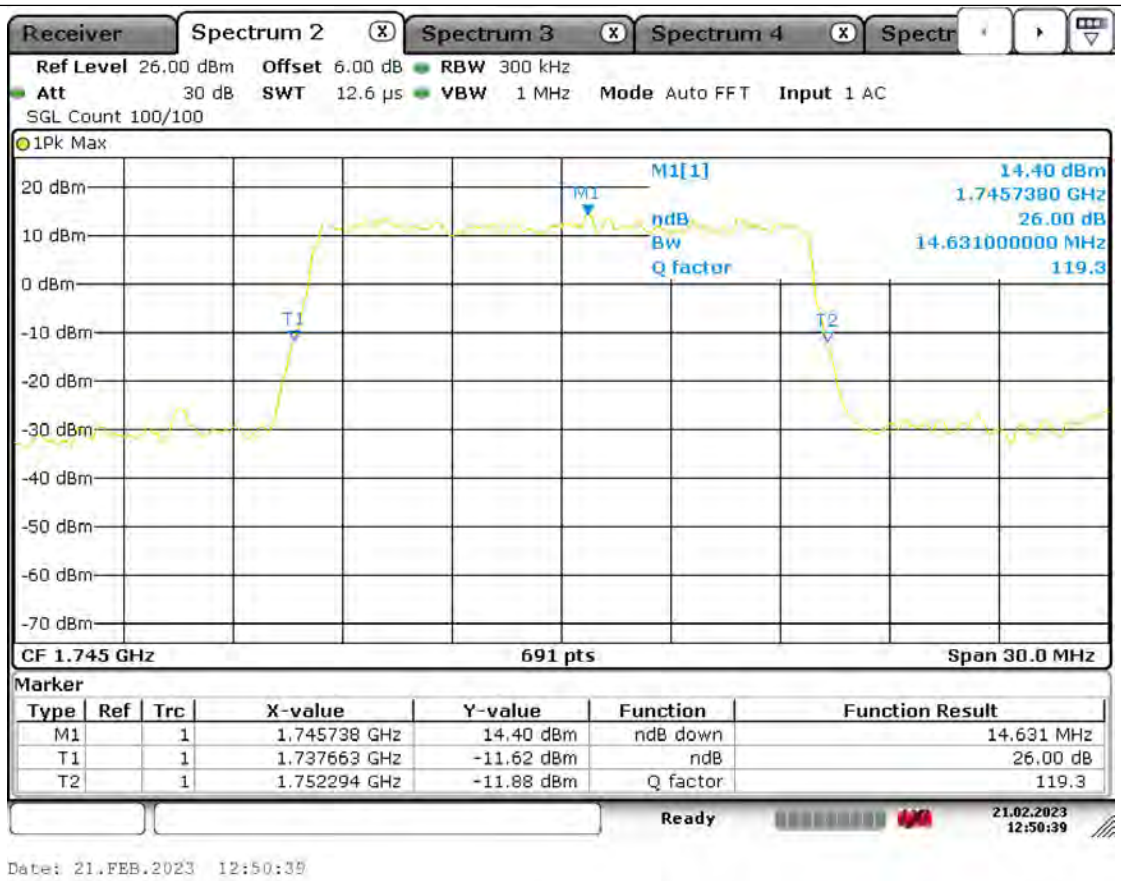


Band66-15MHz-64QAM-132047-75RB#0



Band66-15MHz-64QAM-132322-75RB#0



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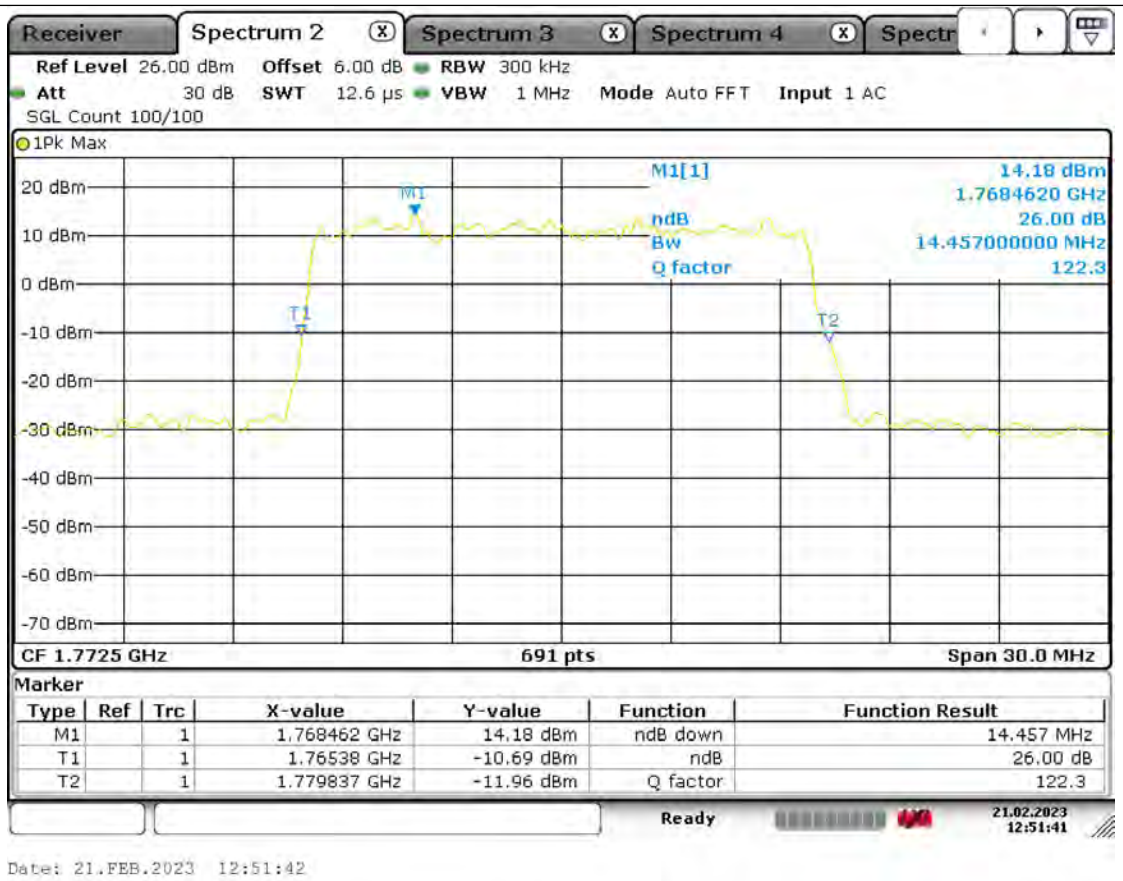
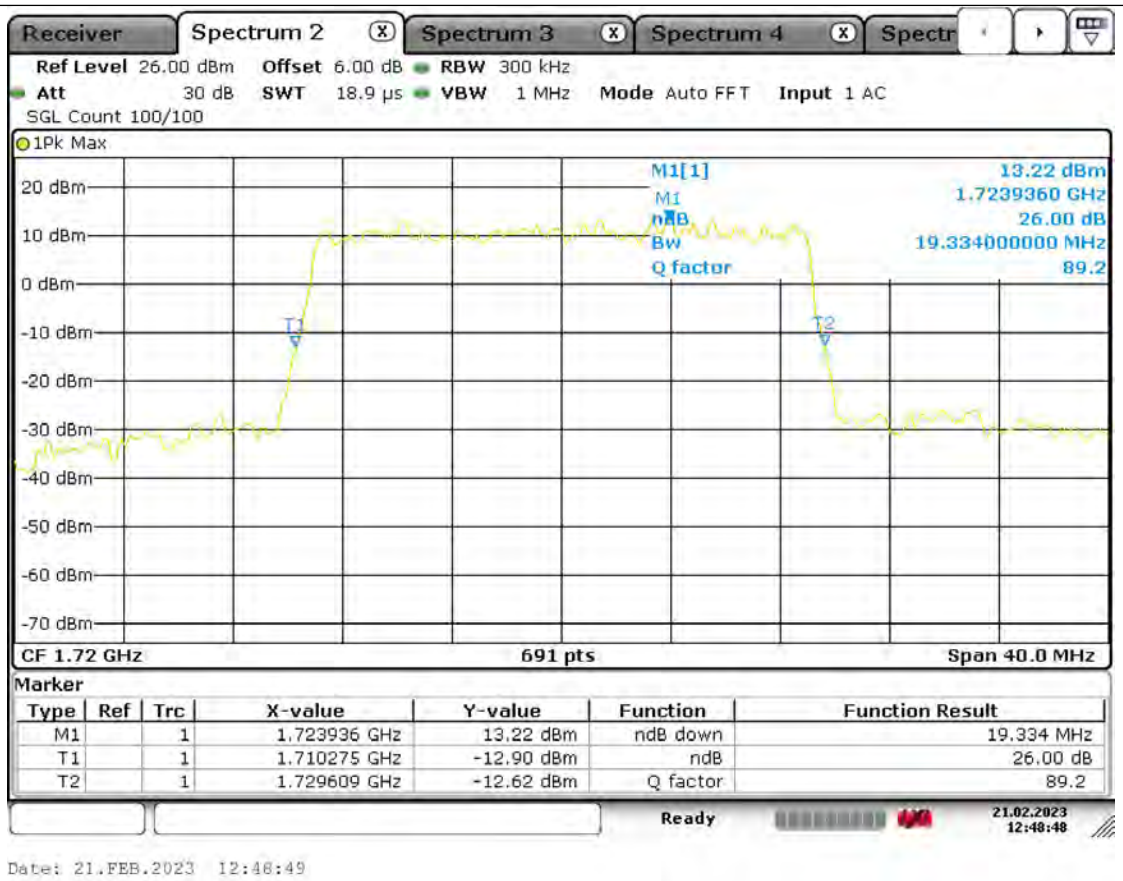


Band66-20MHz-64QAM-132072-100RB#0



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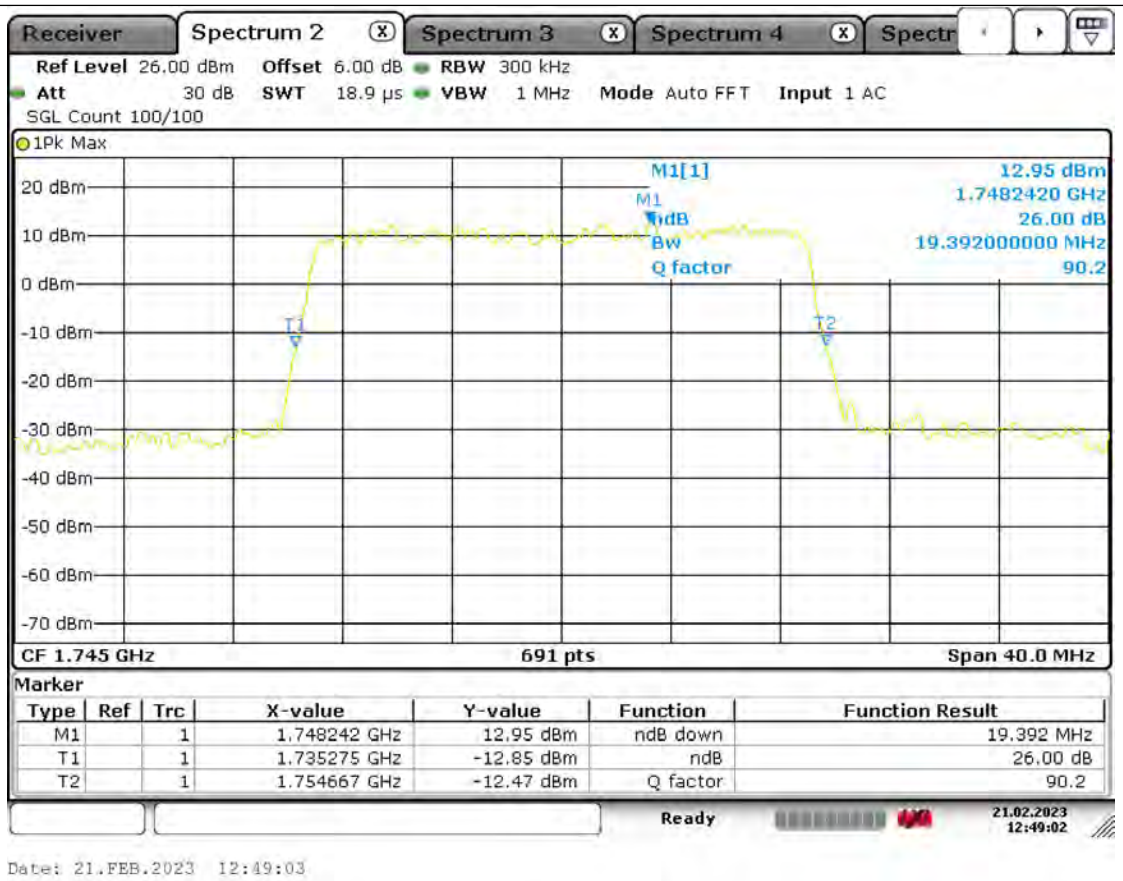

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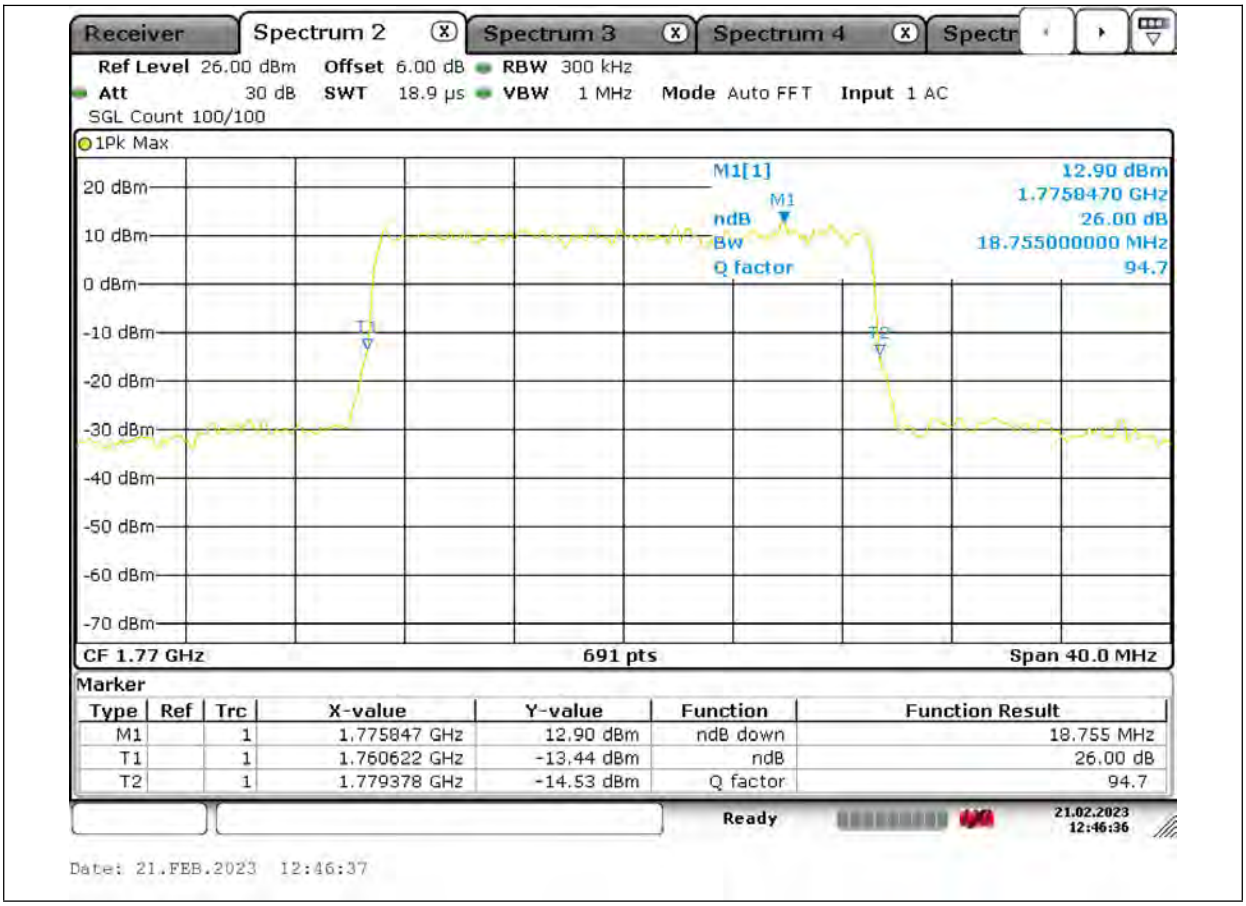


BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	-28.32	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	-28.11	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	-29.97	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	-25.71	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	-31.50	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	-29.89	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	-32.21	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	-29.89	PASS
Band66	3MHz	QPSK	131987	1RB#0	-20.02	PASS
Band66	3MHz	QPSK	131987	15RB#0	-26.60	PASS
Band66	3MHz	QPSK	132657	1RB#14	-21.93	PASS
Band66	3MHz	QPSK	132657	15RB#0	-24.01	PASS
Band66	3MHz	16QAM	131987	1RB#0	-20.65	PASS
Band66	3MHz	16QAM	131987	15RB#0	-24.01	PASS
Band66	3MHz	16QAM	132657	1RB#14	-23.48	PASS
Band66	3MHz	16QAM	132657	15RB#0	-28.63	PASS
Band66	5MHz	QPSK	131997	1RB#0	-28.52	PASS
Band66	5MHz	QPSK	131997	25RB#0	-27.5	PASS

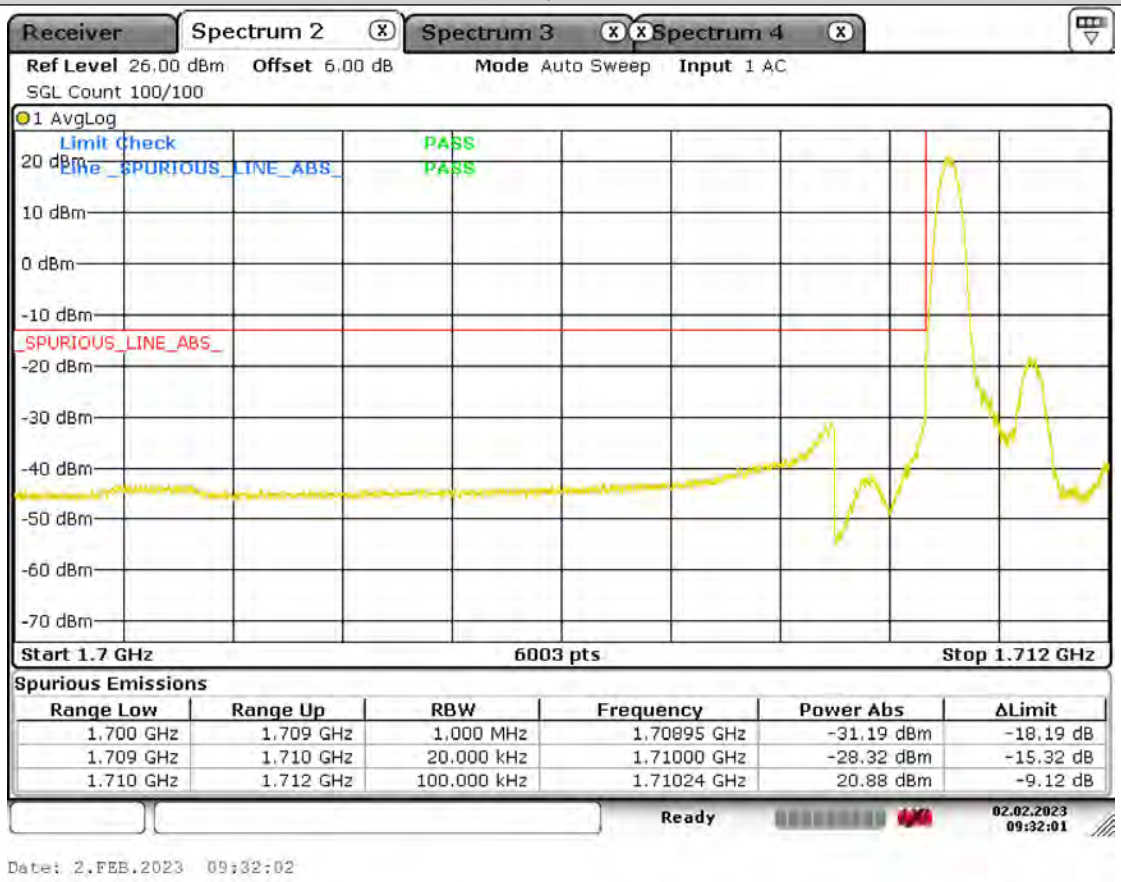
Band66	5MHz	QPSK	132647	1RB#24	-28.17	PASS
Band66	5MHz	QPSK	132647	25RB#0	-25.45	PASS
Band66	5MHz	16QAM	131997	1RB#0	-29.44	PASS
Band66	5MHz	16QAM	131997	25RB#0	-29.16	PASS
Band66	5MHz	16QAM	132647	1RB#24	-30.35	PASS
Band66	5MHz	16QAM	132647	25RB#0	-25.65	PASS
Band66	10MHz	QPSK	132022	1RB#0	-36.02	PASS
Band66	10MHz	QPSK	132022	50RB#0	-27.98	PASS
Band66	10MHz	QPSK	132622	1RB#49	-34.12	PASS
Band66	10MHz	QPSK	132622	50RB#0	-30.22	PASS
Band66	10MHz	16QAM	132022	1RB#0	-37.15	PASS
Band66	10MHz	16QAM	132022	50RB#0	-32.05	PASS
Band66	10MHz	16QAM	132622	1RB#49	-38.82	PASS
Band66	10MHz	16QAM	132622	50RB#0	-28.01	PASS
Band66	15MHz	QPSK	132047	1RB#0	-37.95	PASS
Band66	15MHz	QPSK	132047	75RB#0	-31.08	PASS
Band66	15MHz	QPSK	132597	1RB#74	-38.06	PASS
Band66	15MHz	QPSK	132597	75RB#0	-28.50	PASS
Band66	15MHz	16QAM	132047	1RB#0	-38.47	PASS
Band66	15MHz	16QAM	132047	75RB#0	-32.50	PASS
Band66	15MHz	16QAM	132597	1RB#74	-39.82	PASS
Band66	15MHz	16QAM	132597	75RB#0	-28.45	PASS
Band66	20MHz	QPSK	132072	1RB#0	-40.71	PASS
Band66	20MHz	QPSK	132072	100RB#0	-33.73	PASS
Band66	20MHz	QPSK	132572	1RB#99	-41.21	PASS
Band66	20MHz	QPSK	132572	100RB#0	-29.96	PASS
Band66	20MHz	16QAM	132072	1RB#0	-41.55	PASS
Band66	20MHz	16QAM	132072	100RB#0	-34.09	PASS
Band66	20MHz	16QAM	132572	1RB#99	-41.37	PASS
Band66	20MHz	16QAM	132572	100RB#0	-30.36	PASS

Band66	1.4MHz	64QAM	131979	1RB#0	-32.12	PASS
Band66	1.4MHz	64QAM	131979	6RB#0	-30.40	PASS
Band66	1.4MHz	64QAM	132665	1RB#5	-32.80	PASS
Band66	1.4MHz	64QAM	132665	6RB#0	-28.79	PASS
Band66	3MHz	64QAM	131987	1RB#0	-23.48	PASS
Band66	3MHz	64QAM	131987	15RB#0	-30.76	PASS
Band66	3MHz	64QAM	132657	1RB#14	-24.03	PASS
Band66	3MHz	64QAM	132657	15RB#0	-26.29	PASS
Band66	5MHz	64QAM	131997	1RB#0	-32.33	PASS
Band66	5MHz	64QAM	131997	25RB#0	-31.80	PASS
Band66	5MHz	64QAM	132647	1RB#24	-30.76	PASS
Band66	5MHz	64QAM	132647	25RB#0	-27.15	PASS
Band66	10MHz	64QAM	132022	1RB#0	-38.66	PASS
Band66	10MHz	64QAM	132022	50RB#0	-29.40	PASS
Band66	10MHz	64QAM	132622	1RB#49	-40.09	PASS
Band66	10MHz	64QAM	132622	50RB#0	-34.22	PASS
Band66	15MHz	64QAM	132047	1RB#0	-40.78	PASS
Band66	15MHz	64QAM	132047	75RB#0	-34.71	PASS
Band66	15MHz	64QAM	132597	1RB#74	-40.15	PASS
Band66	15MHz	64QAM	132597	75RB#0	-30.04	PASS
Band66	20MHz	64QAM	132072	1RB#0	-42.31	PASS
Band66	20MHz	64QAM	132072	100RB#0	-35.65	PASS

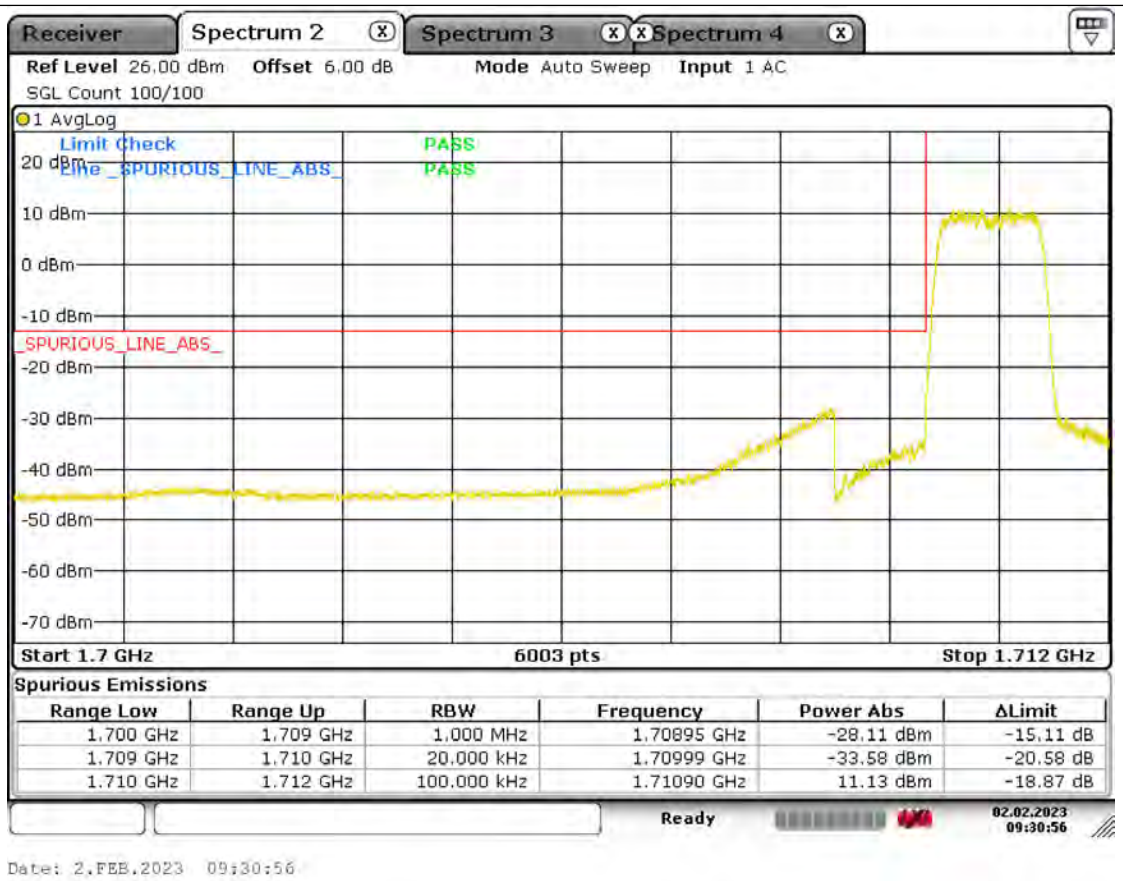
Band66	20MHz	64QAM	132572	1RB#99	-44.86	PASS
Band66	20MHz	64QAM	132572	100RB#0	-31.65	PASS

Test Graphs

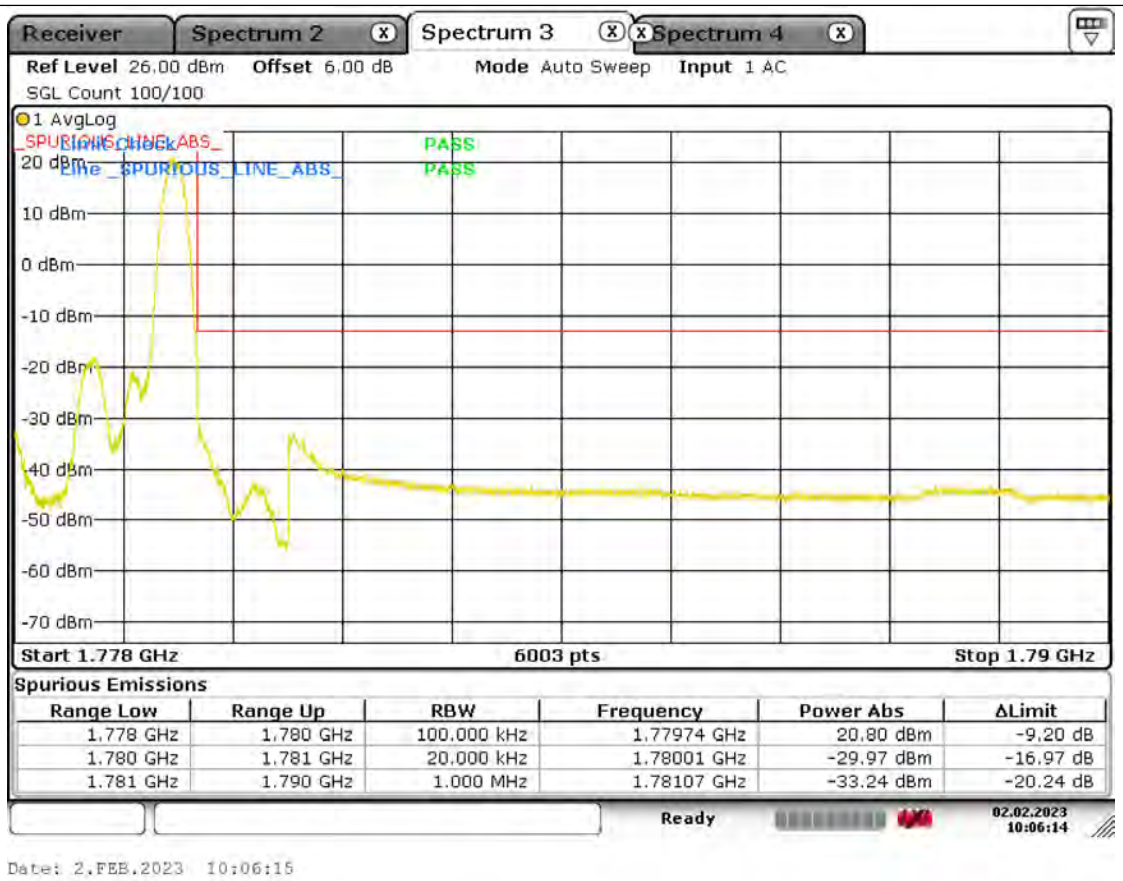
Band66-1.4MHz-QPSK-131979-1RB#0



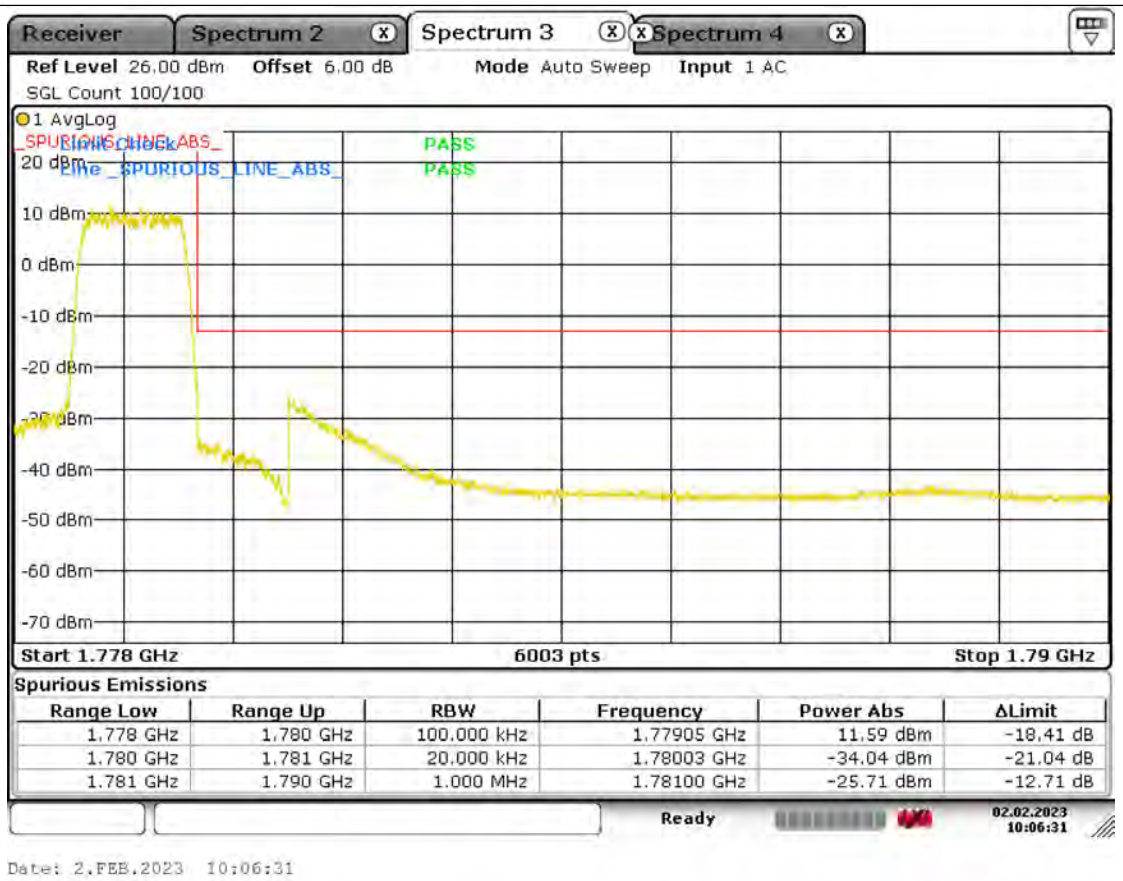
Band66-1.4MHz-QPSK-131979-6RB#0



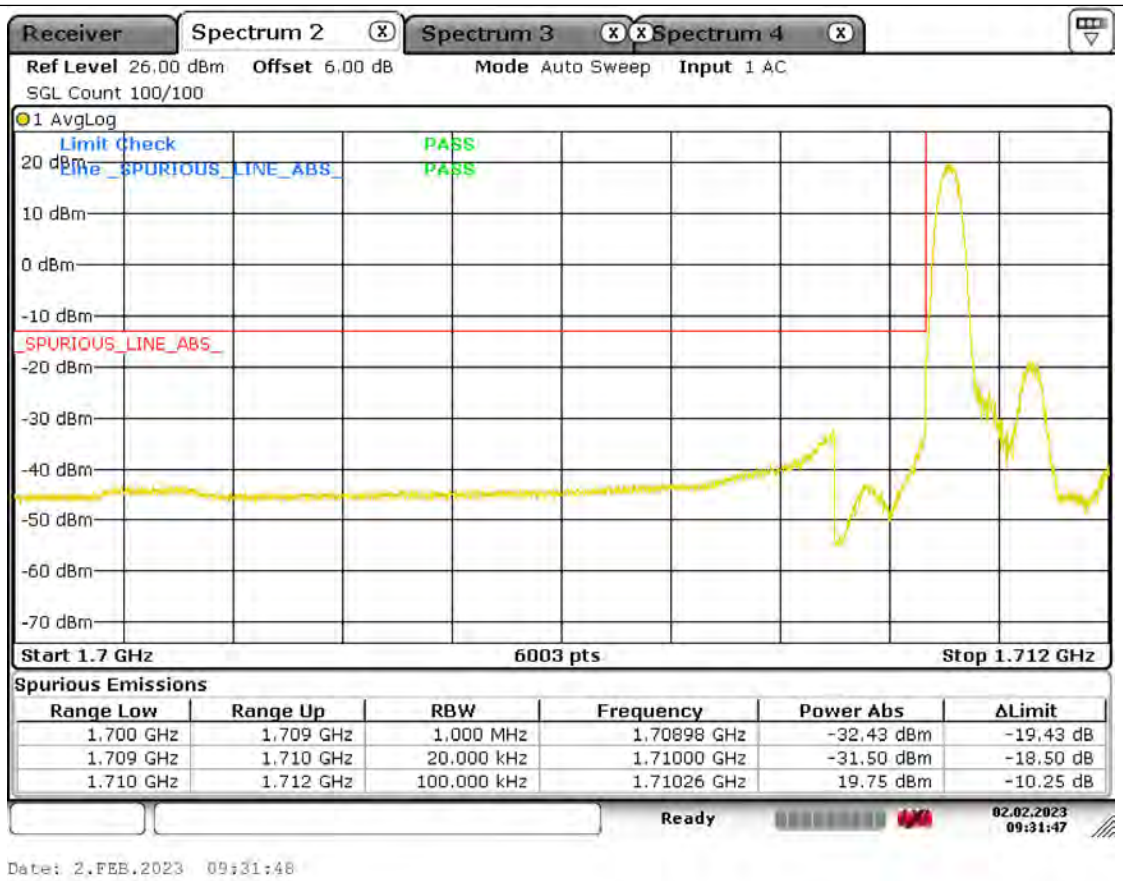
Band66-1.4MHz-QPSK-132665-1RB#5



Band66-1.4MHz-QPSK-132665-6RB#0

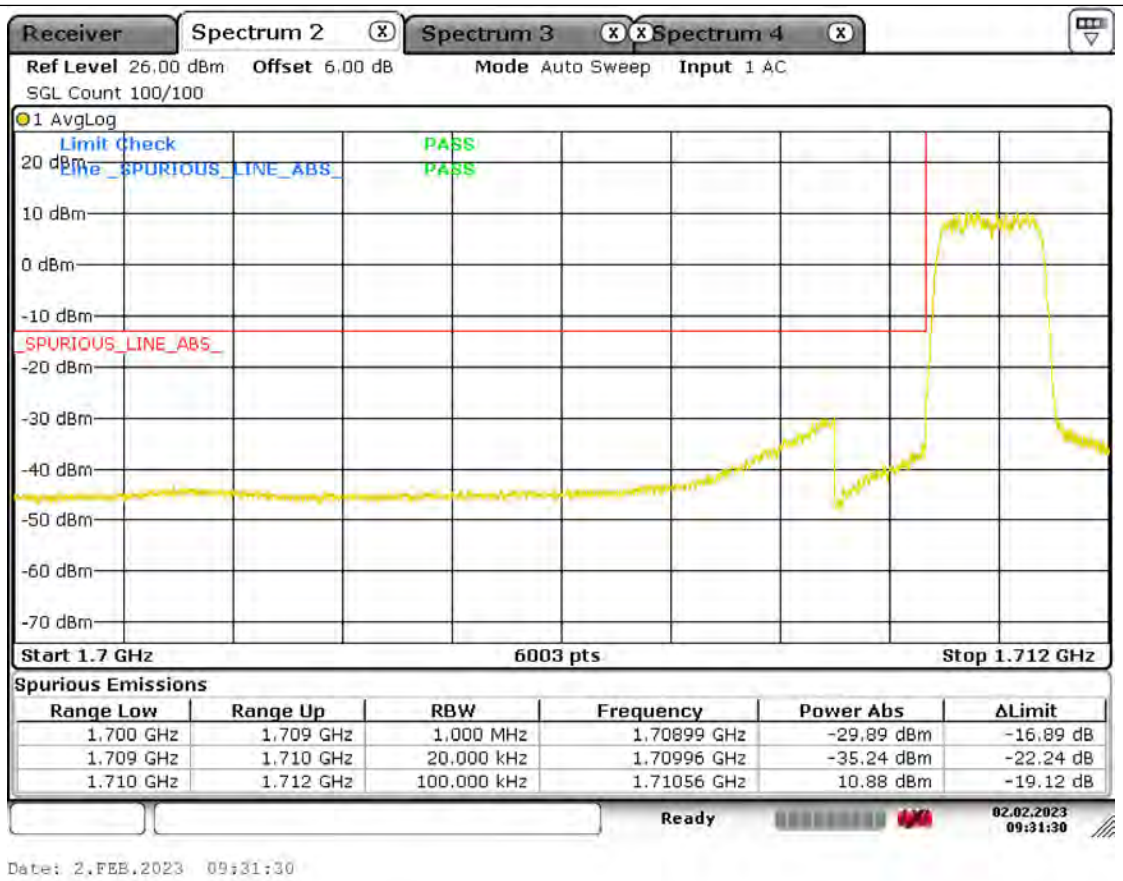


Band66-1.4MHz-16QAM-131979-1RB#0

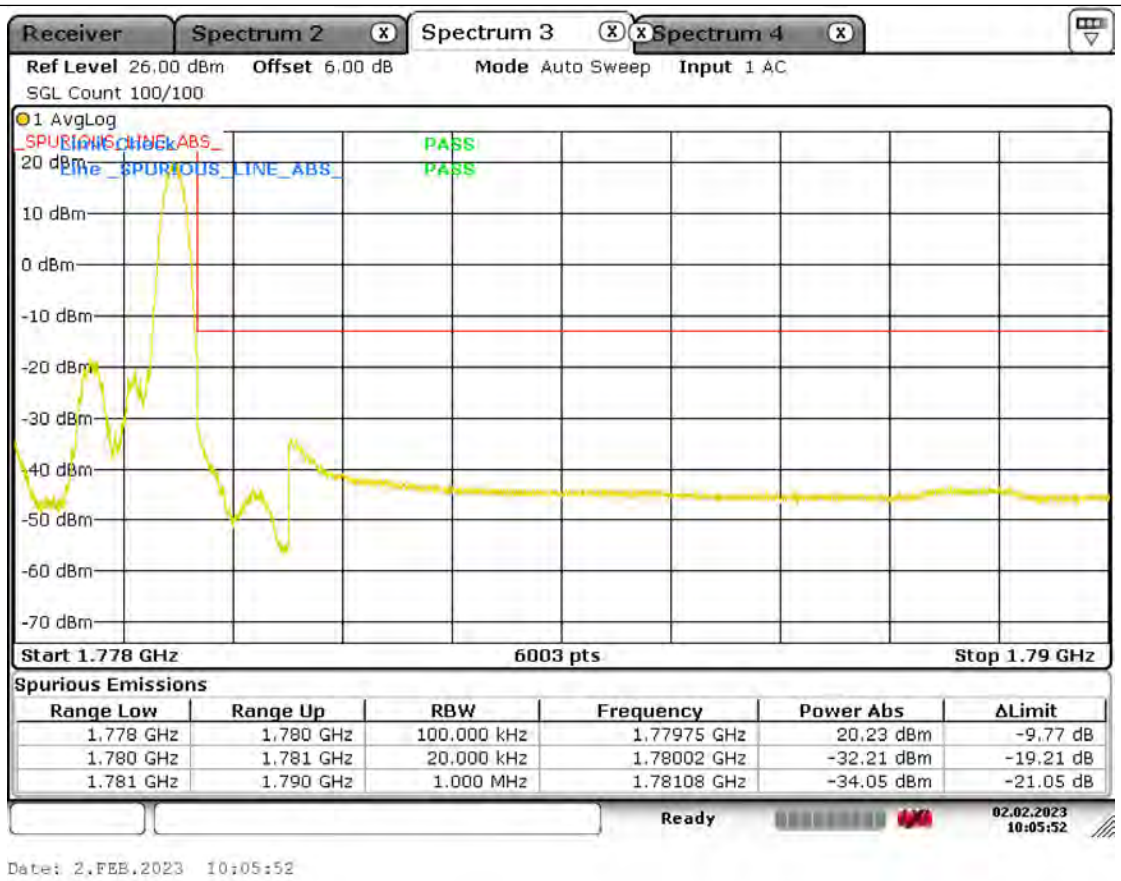


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70898 GHz	-32.43 dBm	-19.43 dB
1.709 GHz	1.710 GHz	20.000 kHz	1.71000 GHz	-31.50 dBm	-18.50 dB
1.710 GHz	1.712 GHz	100.000 kHz	1.71026 GHz	19.75 dBm	-10.25 dB

Band66-1.4MHz-16QAM-131979-6RB#0



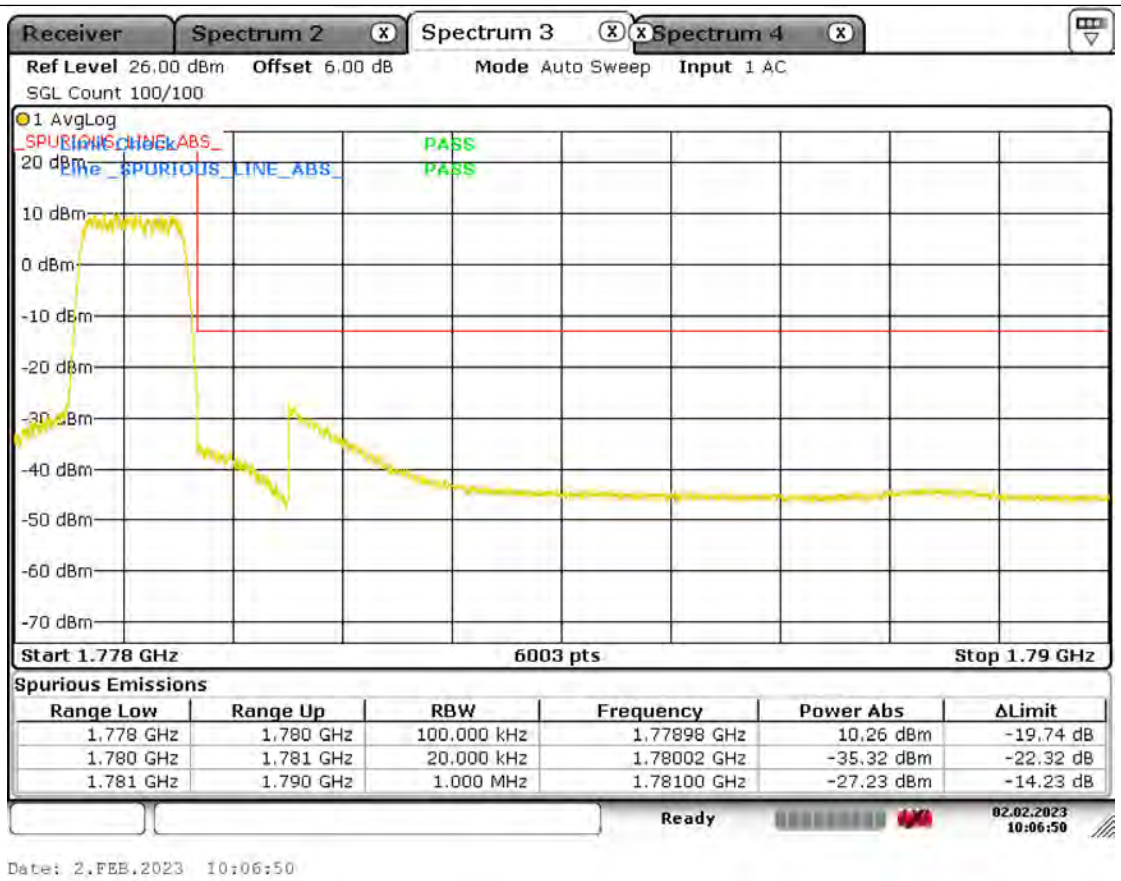
Band66-1.4MHz-16QAM-132665-1RB#5



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.778 GHz	1.780 GHz	100.000 kHz	1.77975 GHz	20.23 dBm	-9.77 dB
1.780 GHz	1.781 GHz	20.000 kHz	1.78002 GHz	-32.21 dBm	-19.21 dB
1.781 GHz	1.790 GHz	1.000 MHz	1.78108 GHz	-34.05 dBm	-21.05 dB

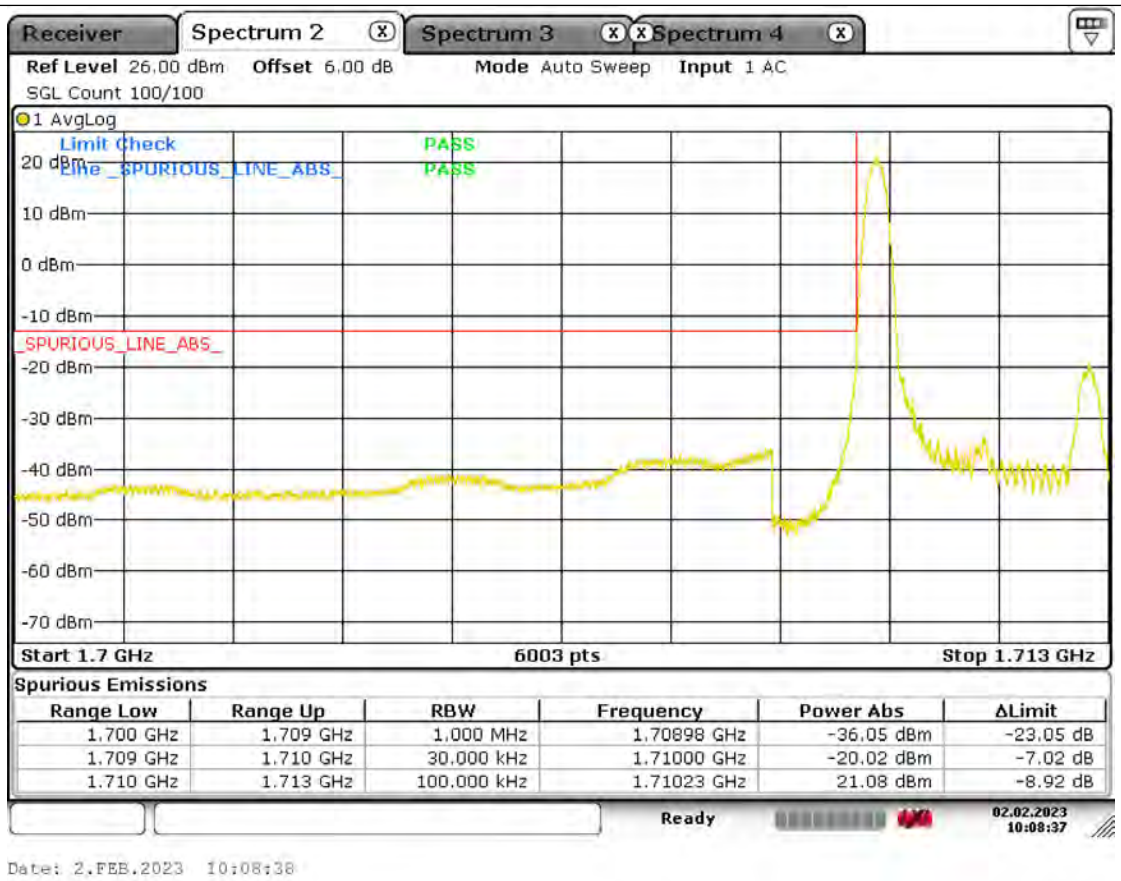
Band66-1.4MHz-16QAM-132665-6RB#0



Spurious Emissions

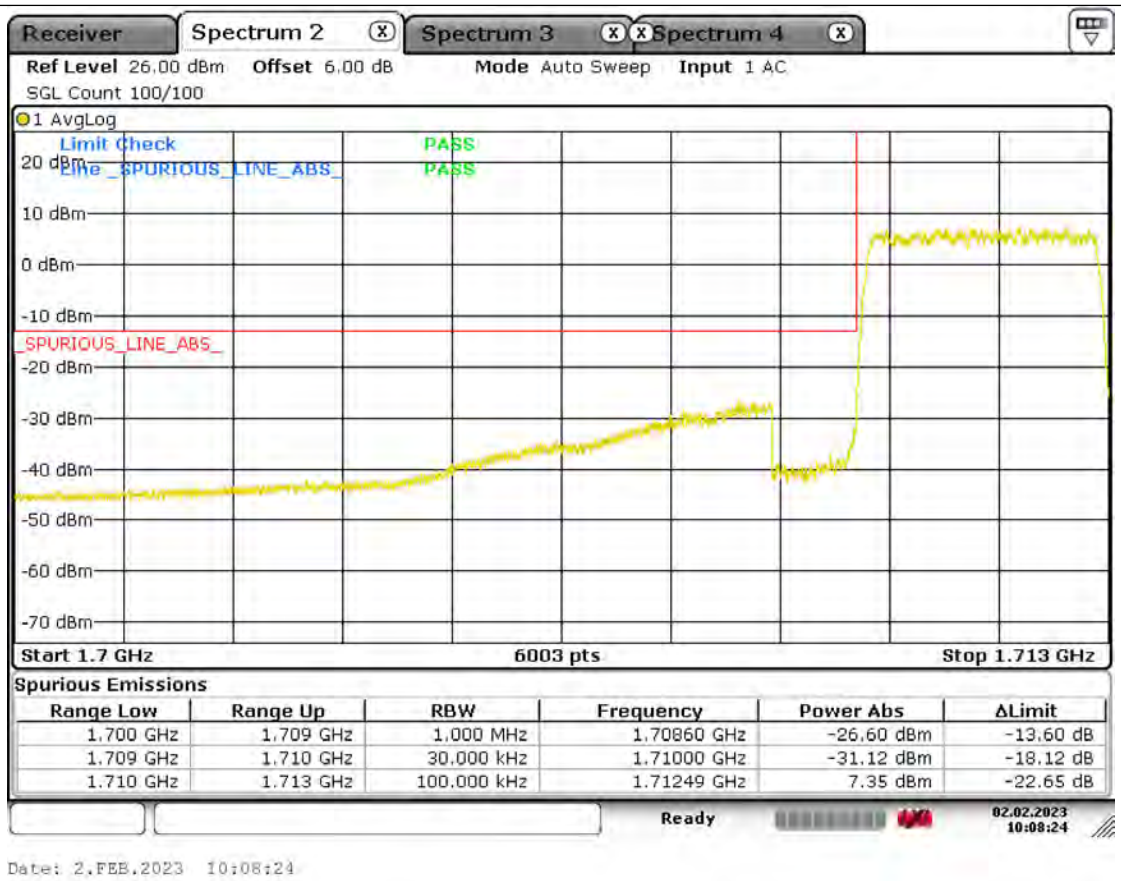
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.778 GHz	1.780 GHz	100.000 kHz	1.77898 GHz	10.26 dBm	-19.74 dB
1.780 GHz	1.781 GHz	20.000 kHz	1.78002 GHz	-35.32 dBm	-22.32 dB
1.781 GHz	1.790 GHz	1.000 MHz	1.78100 GHz	-27.23 dBm	-14.23 dB

Band66-3MHz-QPSK-131987-1RB#0

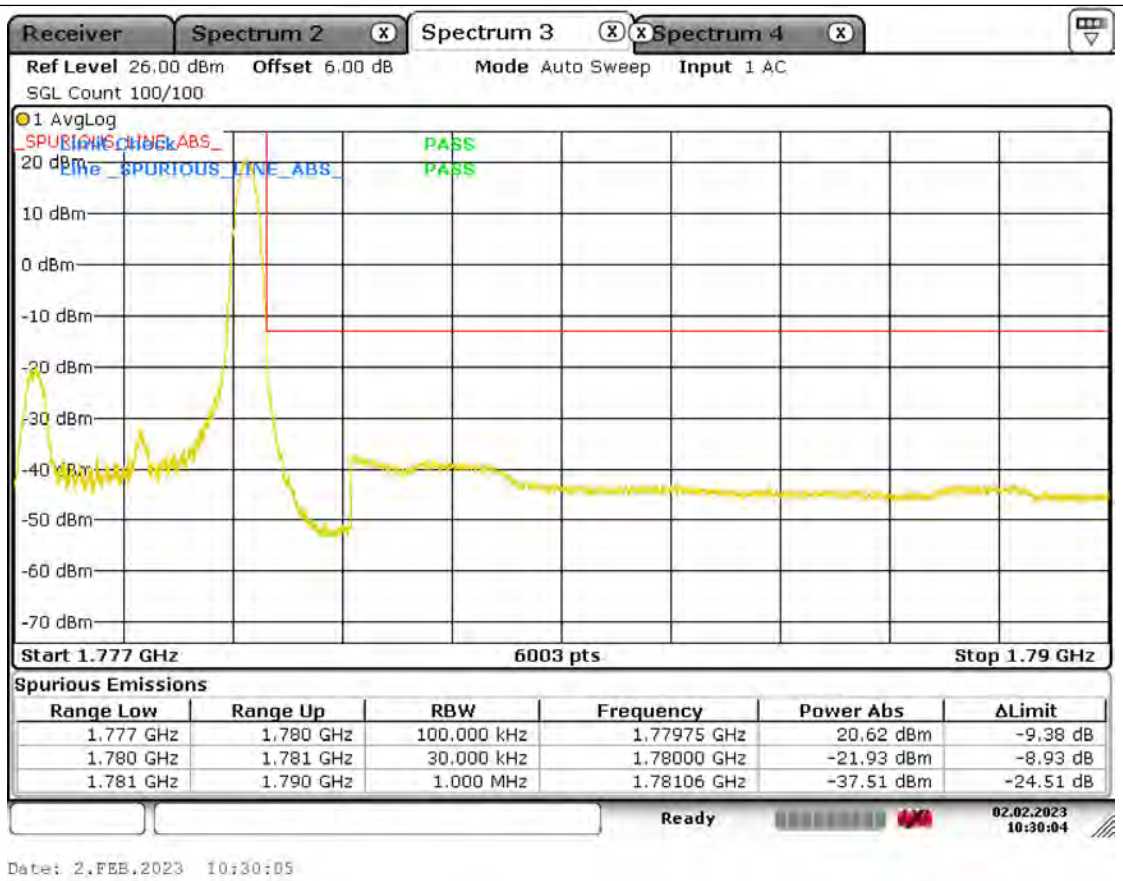


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70898 GHz	-36.05 dBm	-23.05 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.71000 GHz	-20.02 dBm	-7.02 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71023 GHz	21.08 dBm	-8.92 dB

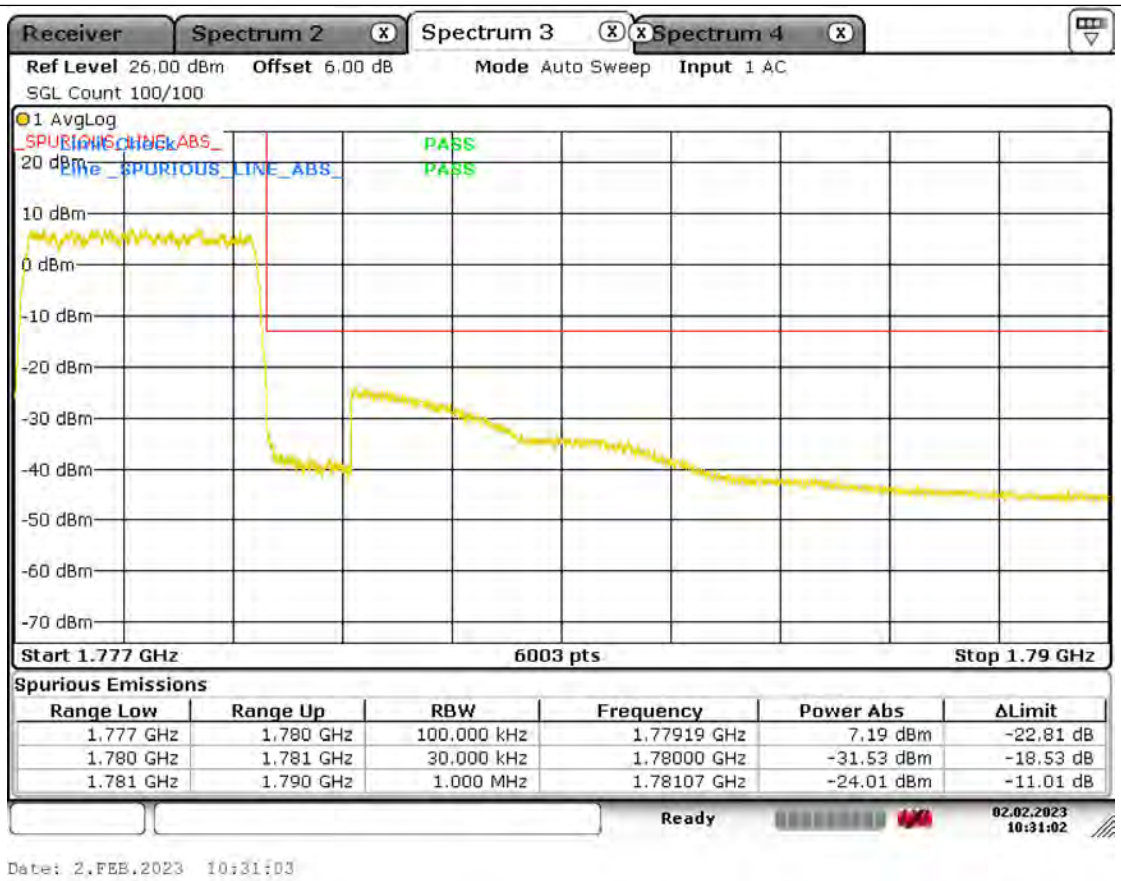
Band66-3MHz-QPSK-131987-15RB#0



Band66-3MHz-QPSK-132657-1RB#14



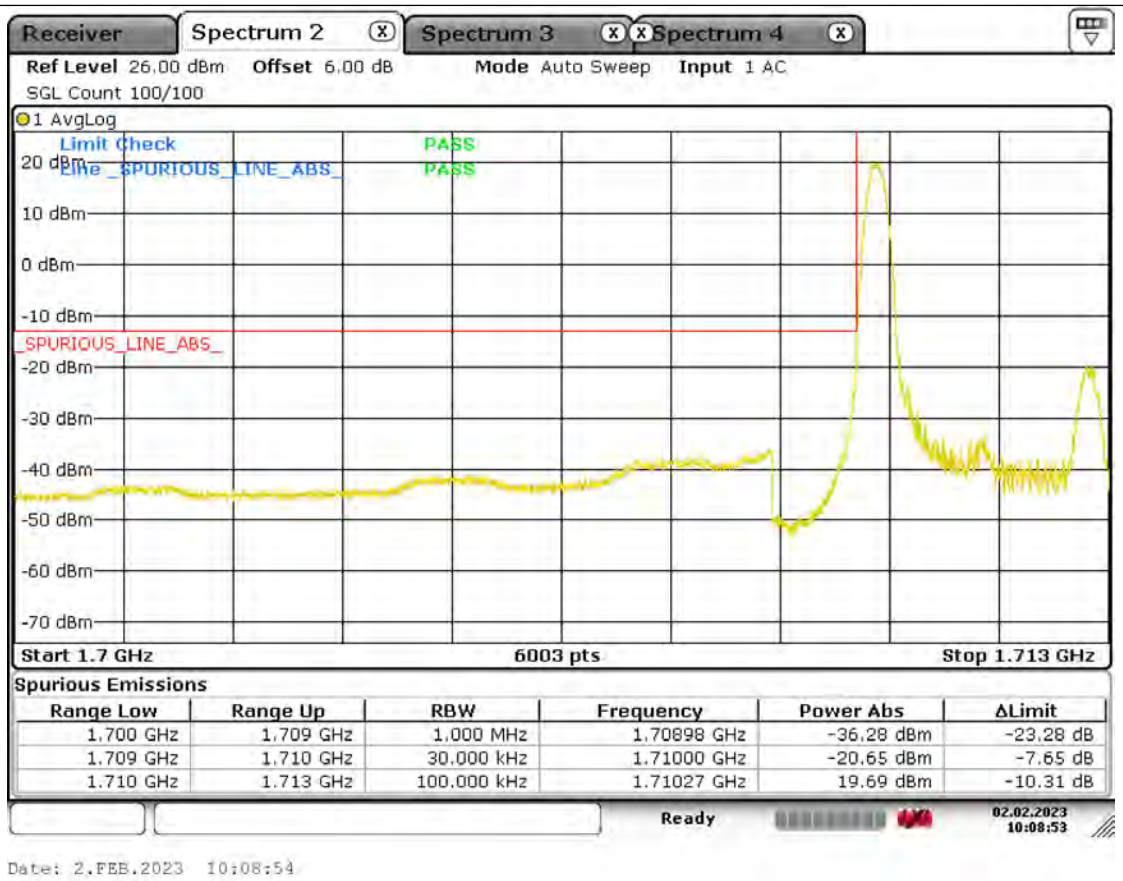
Band66-3MHz-QPSK-132657-15RB#0



Spurious Emissions

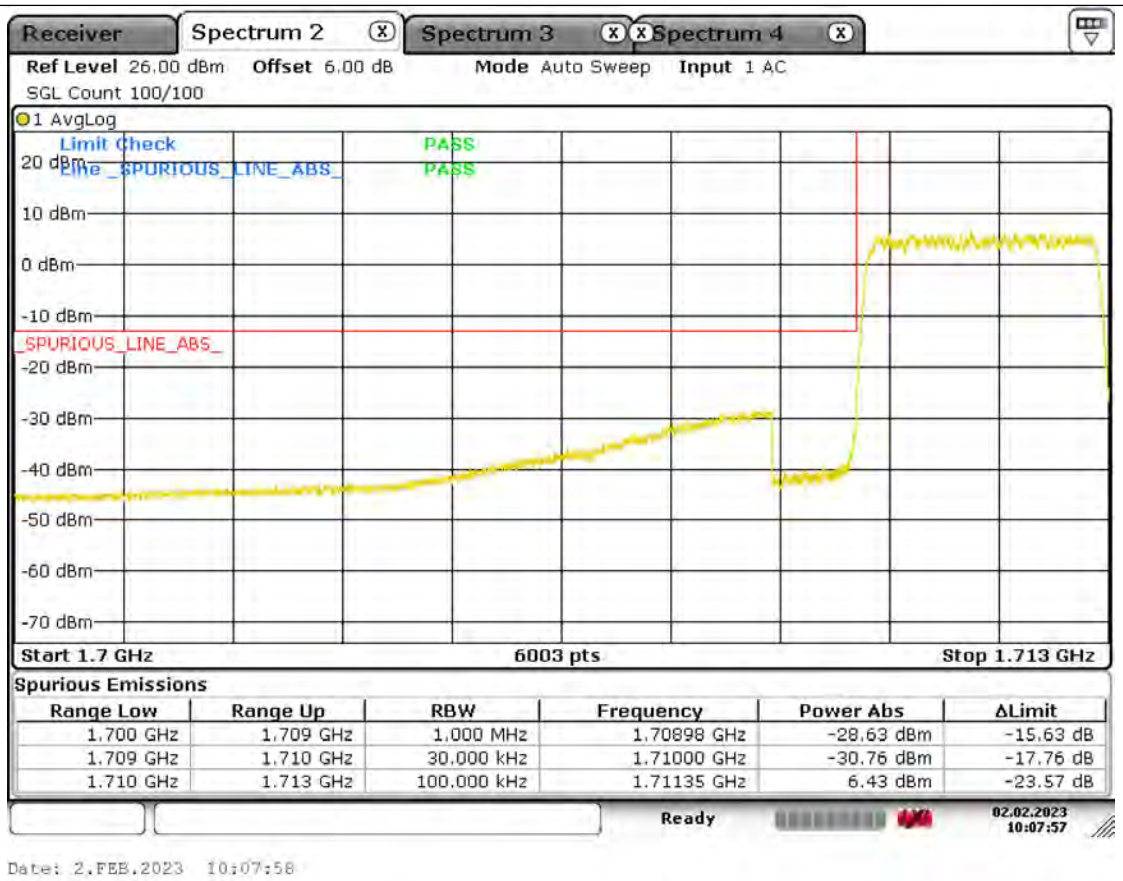
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.777 GHz	1.780 GHz	100.000 kHz	1.77919 GHz	7.19 dBm	-22.81 dB
1.780 GHz	1.781 GHz	30.000 kHz	1.78000 GHz	-31.53 dBm	-18.53 dB
1.781 GHz	1.790 GHz	1.000 MHz	1.78107 GHz	-24.01 dBm	-11.01 dB

Band66-3MHz-16QAM-131987-1RB#0

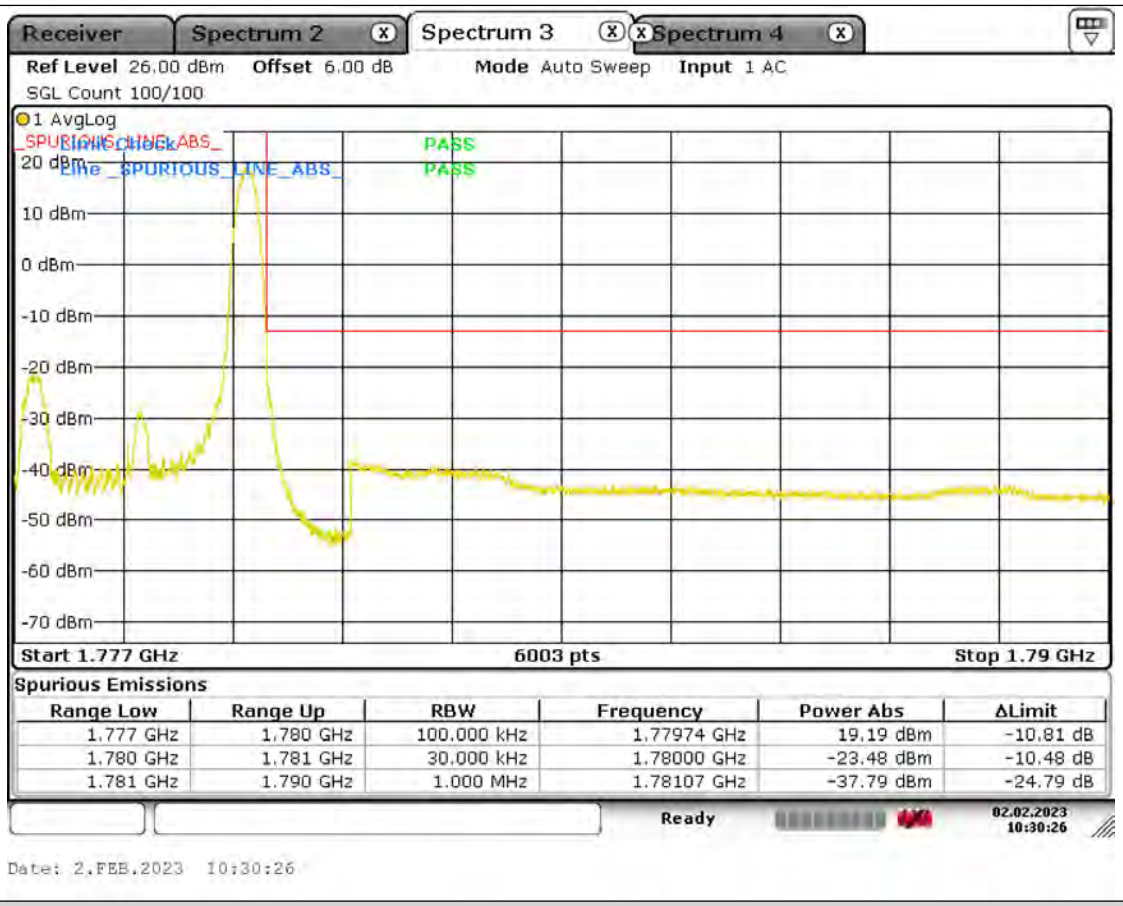


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70898 GHz	-36.28 dBm	-23.28 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.71000 GHz	-20.65 dBm	-7.65 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71027 GHz	19.69 dBm	-10.31 dB

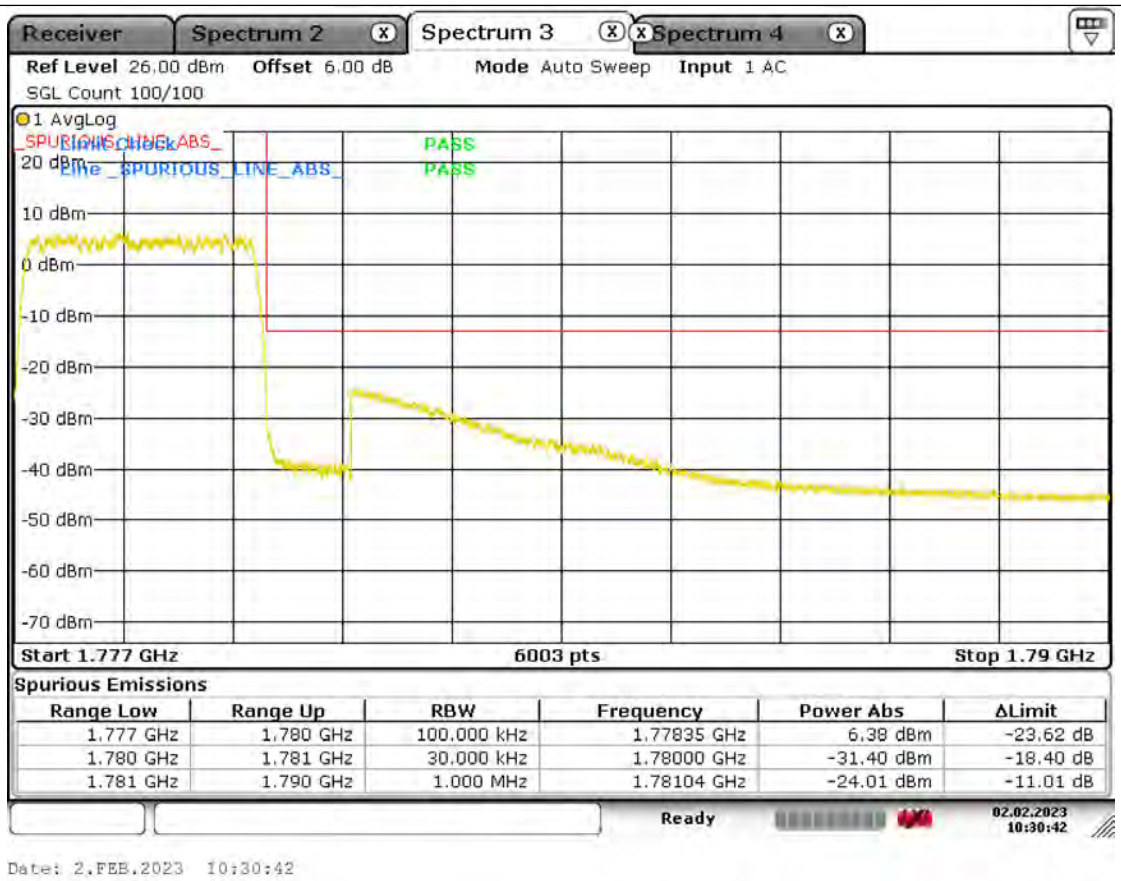
Band66-3MHz-16QAM-131987-15RB#0



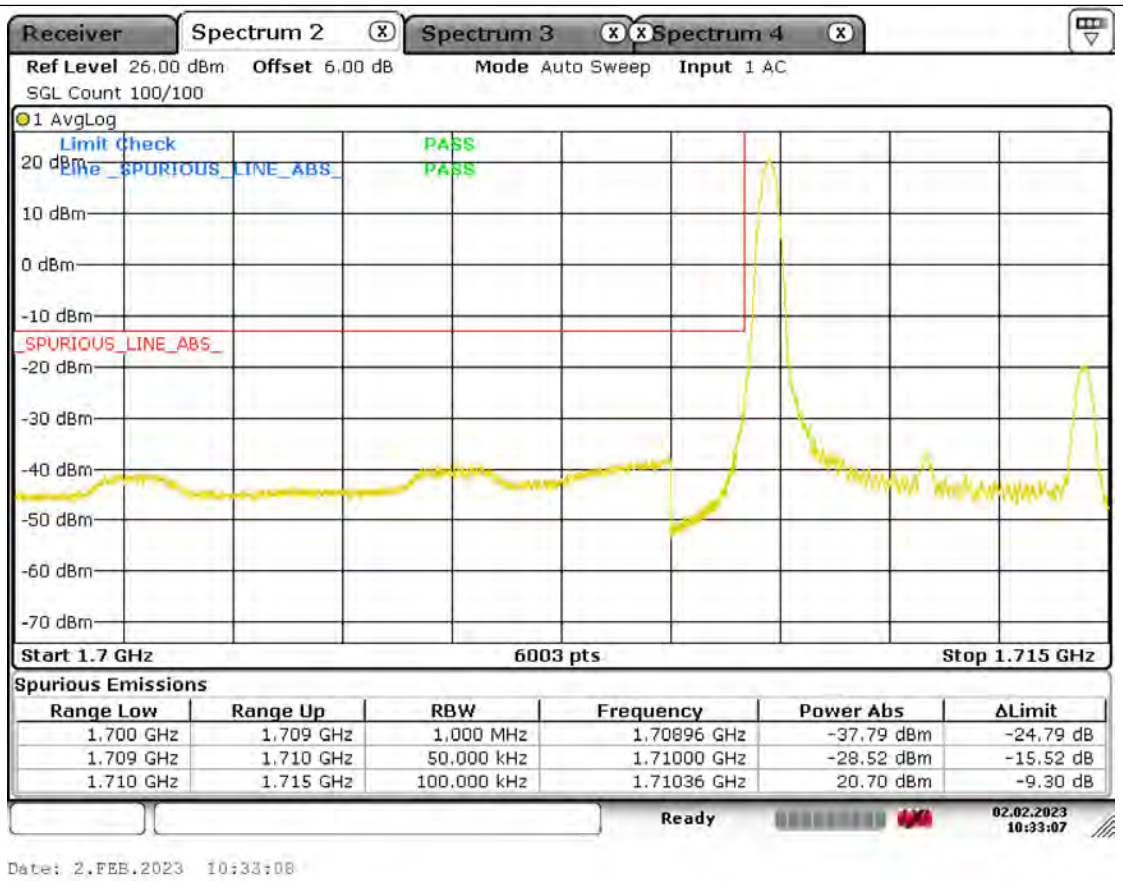
Band66-3MHz-16QAM-132657-1RB#14



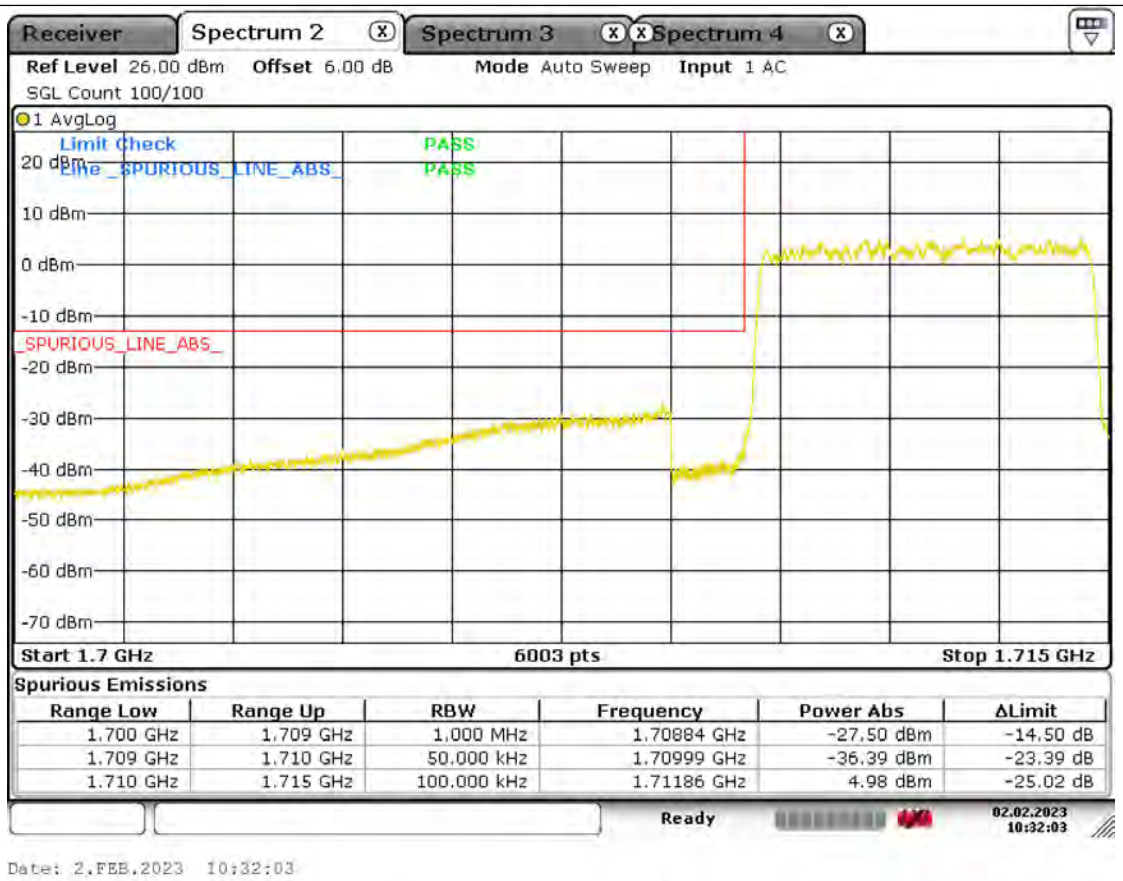
Band66-3MHz-16QAM-132657-15RB#0



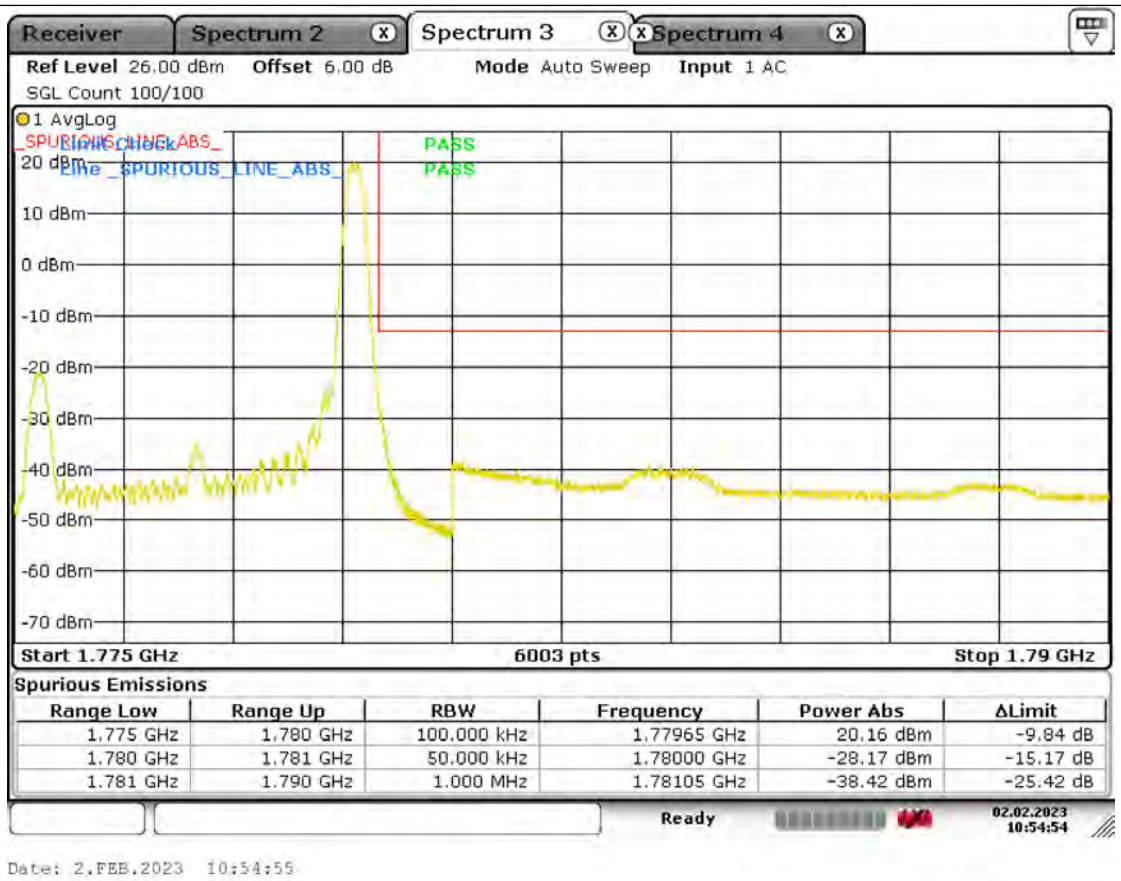
Band66-5MHz-QPSK-131997-1RB#0



Band66-5MHz-QPSK-131997-25RB#0



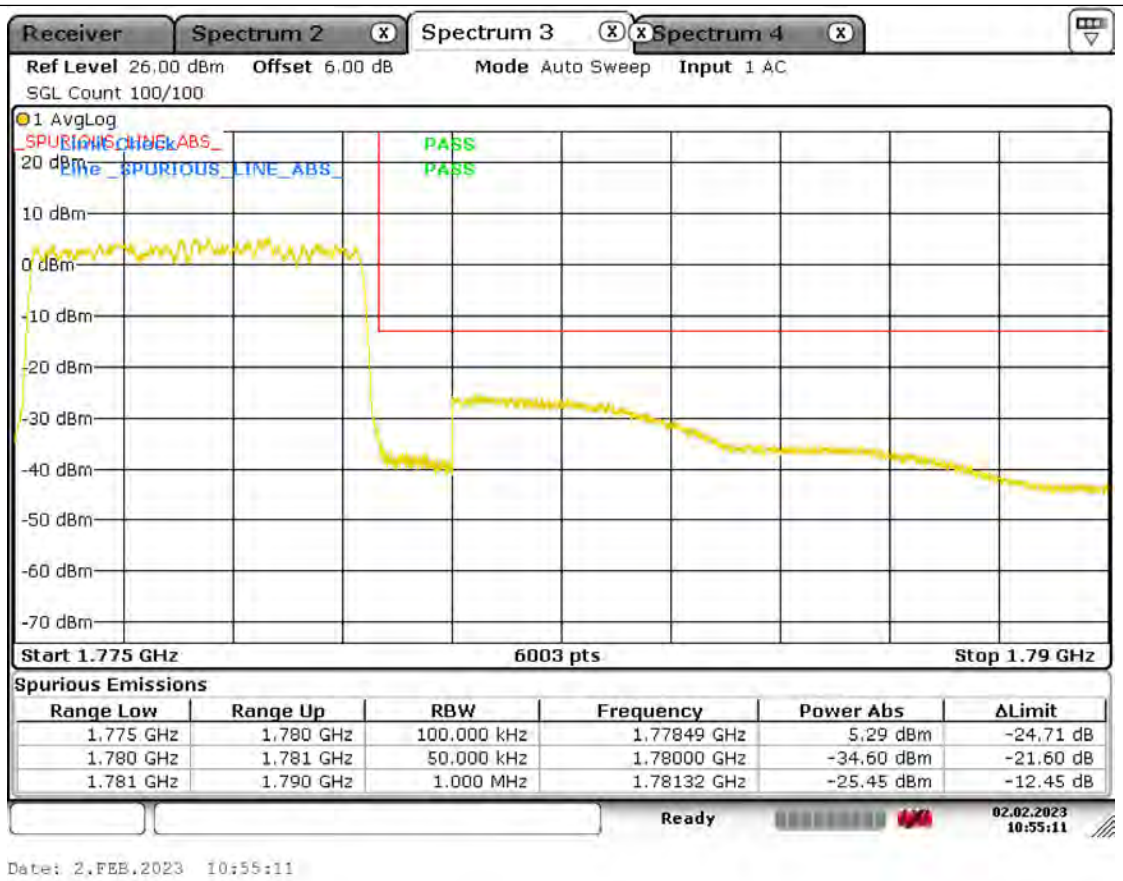
Band66-5MHz-QPSK-132647-1RB#24



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.775 GHz	1.780 GHz	100.000 kHz	1.77965 GHz	20.16 dBm	-9.84 dB
1.780 GHz	1.781 GHz	50.000 kHz	1.78000 GHz	-28.17 dBm	-15.17 dB
1.781 GHz	1.790 GHz	1.000 MHz	1.78105 GHz	-38.42 dBm	-25.42 dB

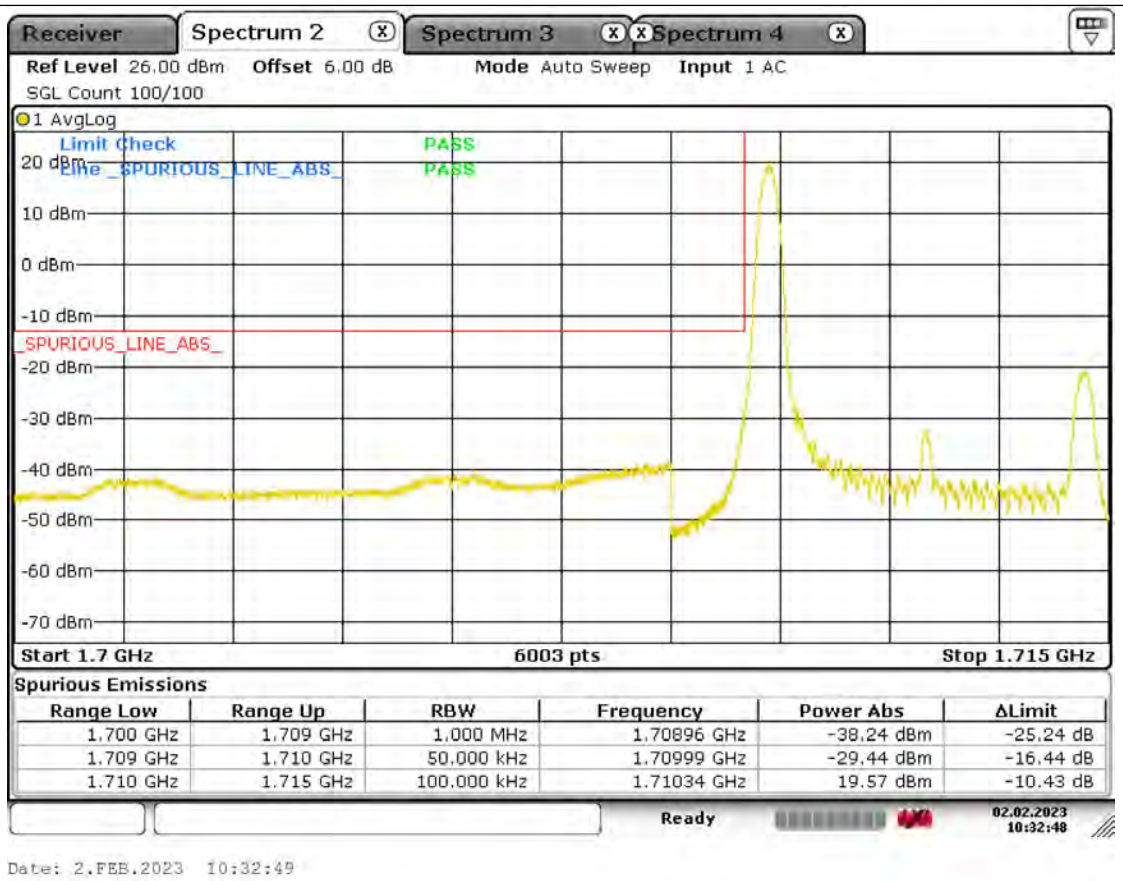
Band66-5MHz-QPSK-132647-25RB#0



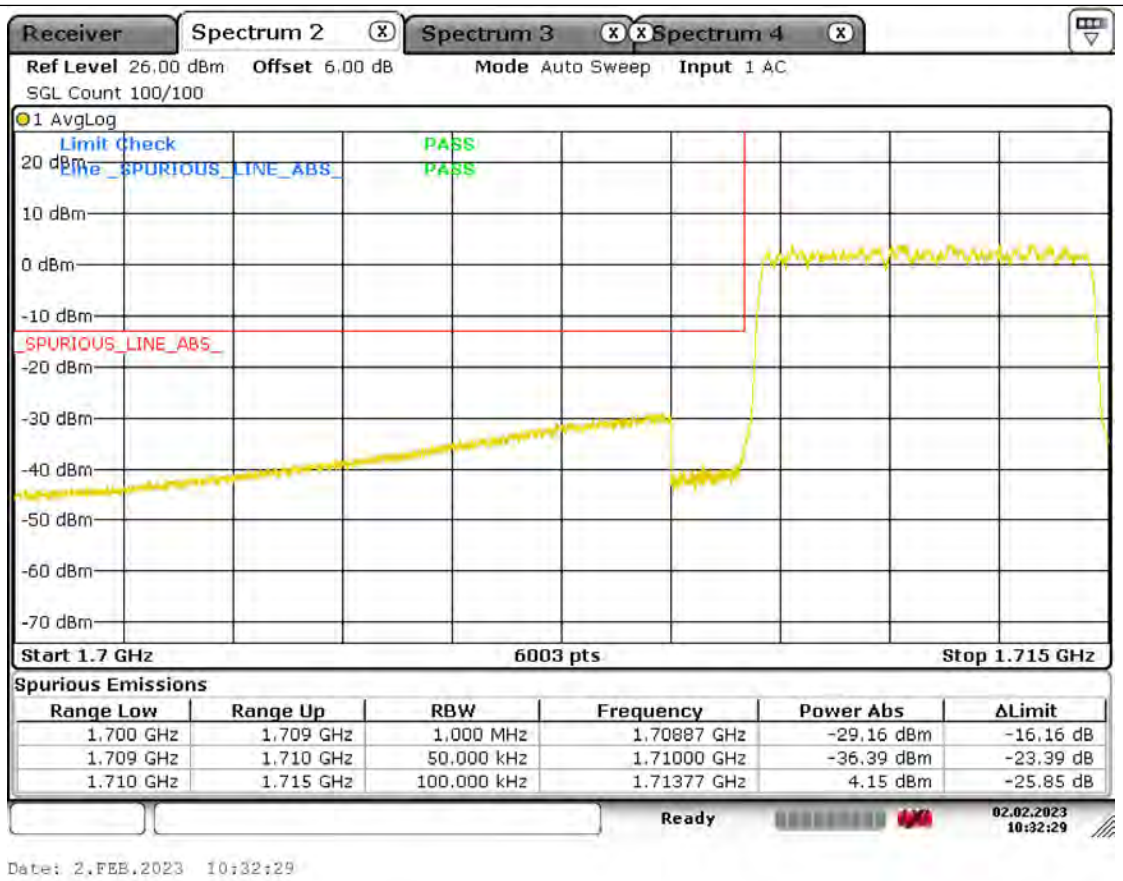
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.775 GHz	1.780 GHz	100.000 kHz	1.77849 GHz	5.29 dBm	-24.71 dB
1.780 GHz	1.781 GHz	50.000 kHz	1.78000 GHz	-34.60 dBm	-21.60 dB
1.781 GHz	1.790 GHz	1.000 MHz	1.78132 GHz	-25.45 dBm	-12.45 dB

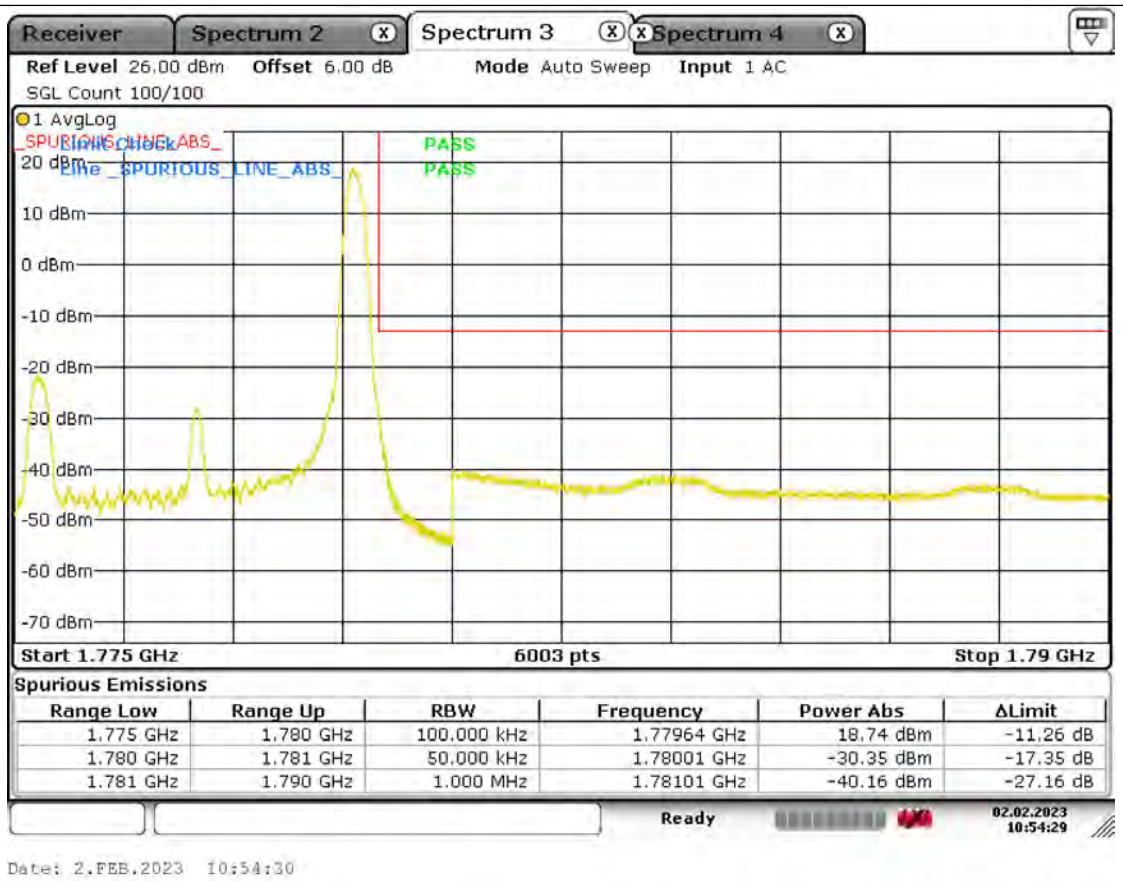
Band66-5MHz-16QAM-131997-1RB#0



Band66-5MHz-16QAM-131997-25RB#0



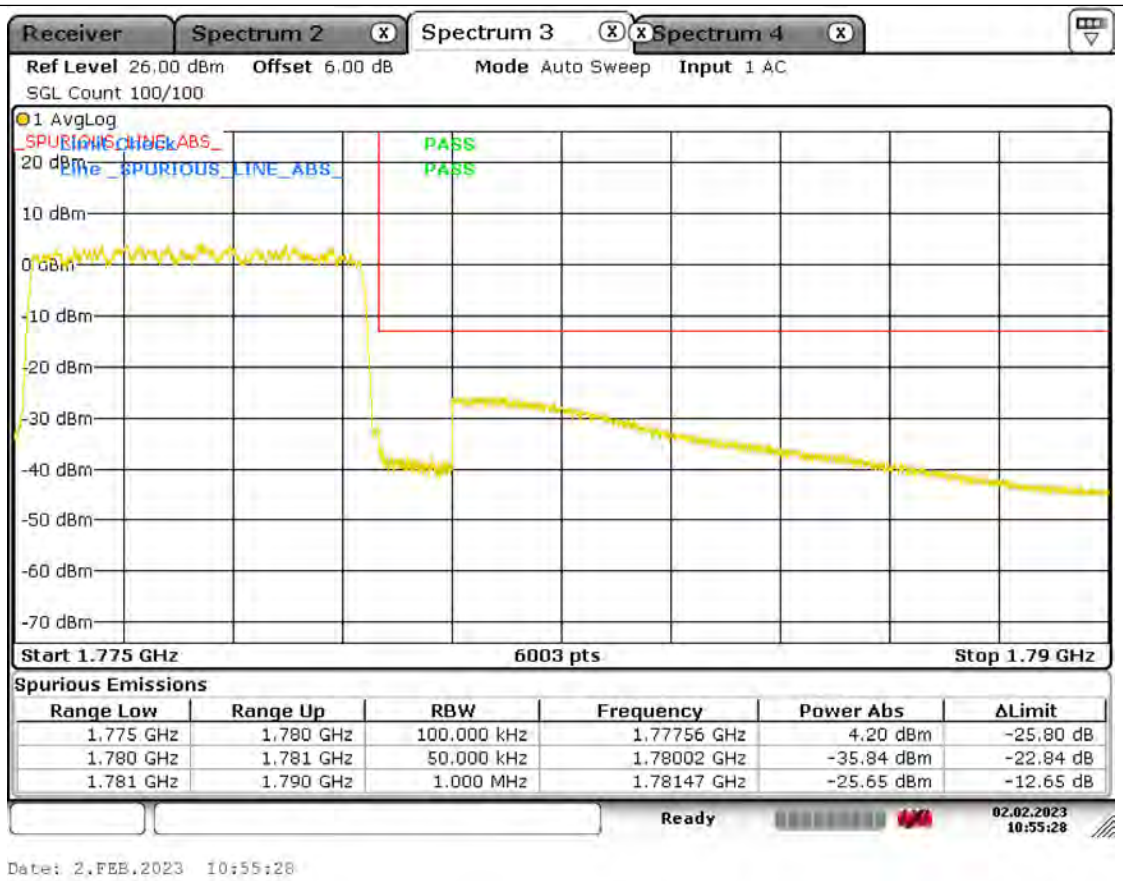
Band66-5MHz-16QAM-132647-1RB#24



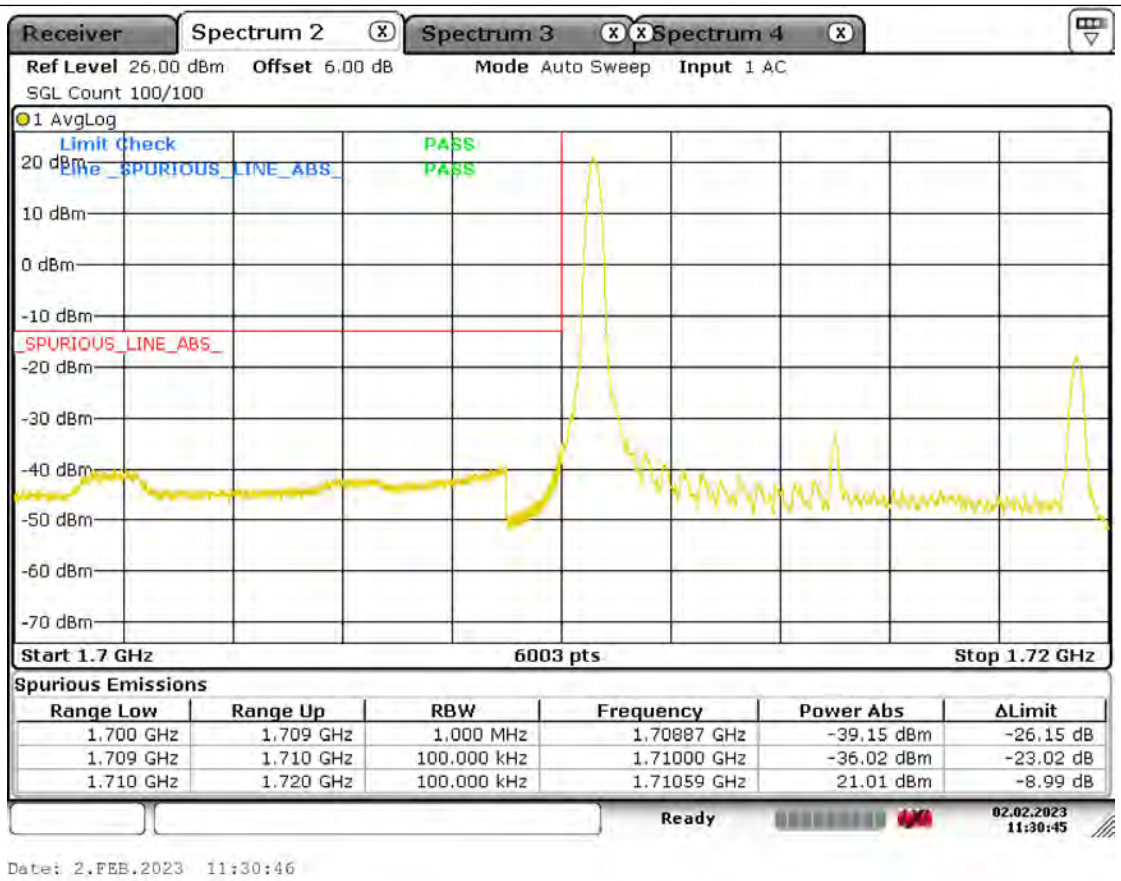
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.775 GHz	1.780 GHz	100.000 kHz	1.77964 GHz	18.74 dBm	-11.26 dB
1.780 GHz	1.781 GHz	50.000 kHz	1.78001 GHz	-30.35 dBm	-17.35 dB
1.781 GHz	1.790 GHz	1.000 MHz	1.78101 GHz	-40.16 dBm	-27.16 dB

Band66-5MHz-16QAM-132647-25RB#0



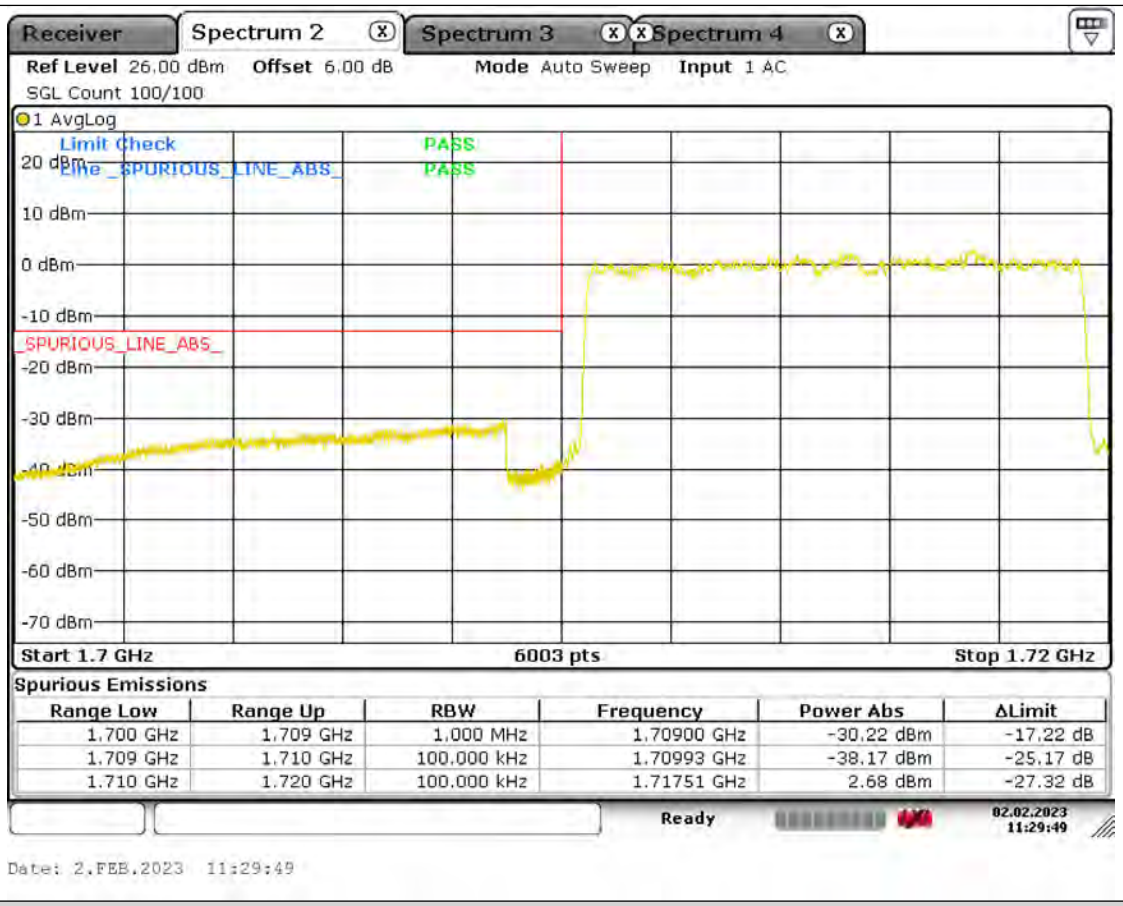
Band66-10MHz-QPSK-132022-1RB#0



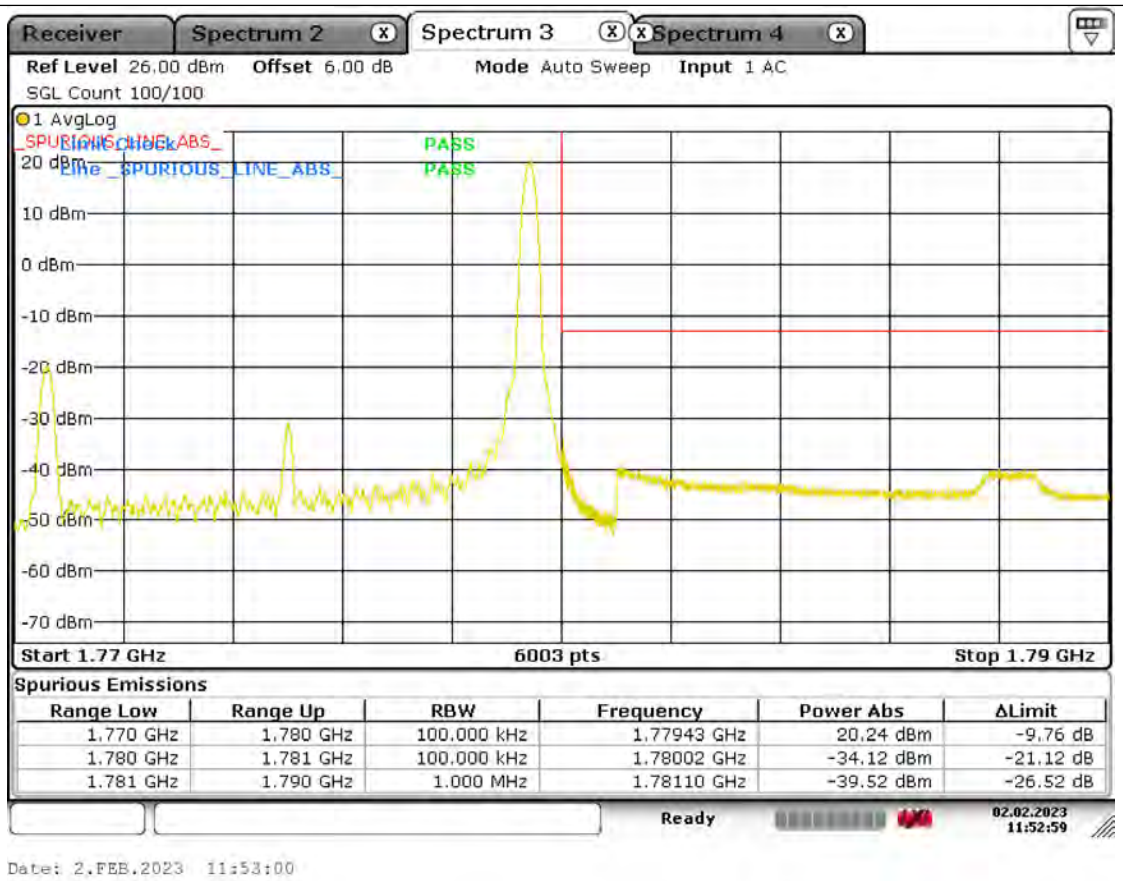
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70887 GHz	-39.15 dBm	-26.15 dB
1.709 GHz	1.710 GHz	100.000 kHz	1.71000 GHz	-36.02 dBm	-23.02 dB
1.710 GHz	1.720 GHz	100.000 kHz	1.71059 GHz	21.01 dBm	-8.99 dB

Band66-10MHz-QPSK-132022-50RB#0



Band66-10MHz-QPSK-132622-1RB#49



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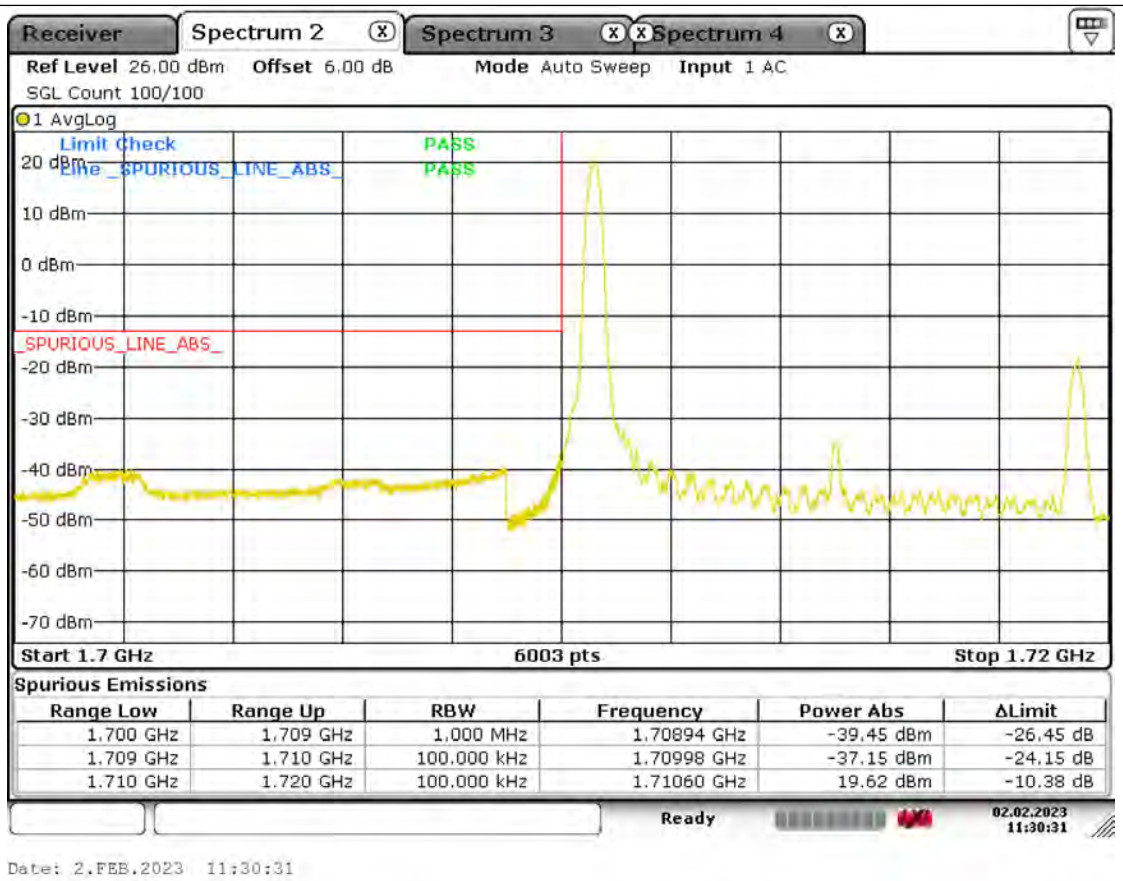
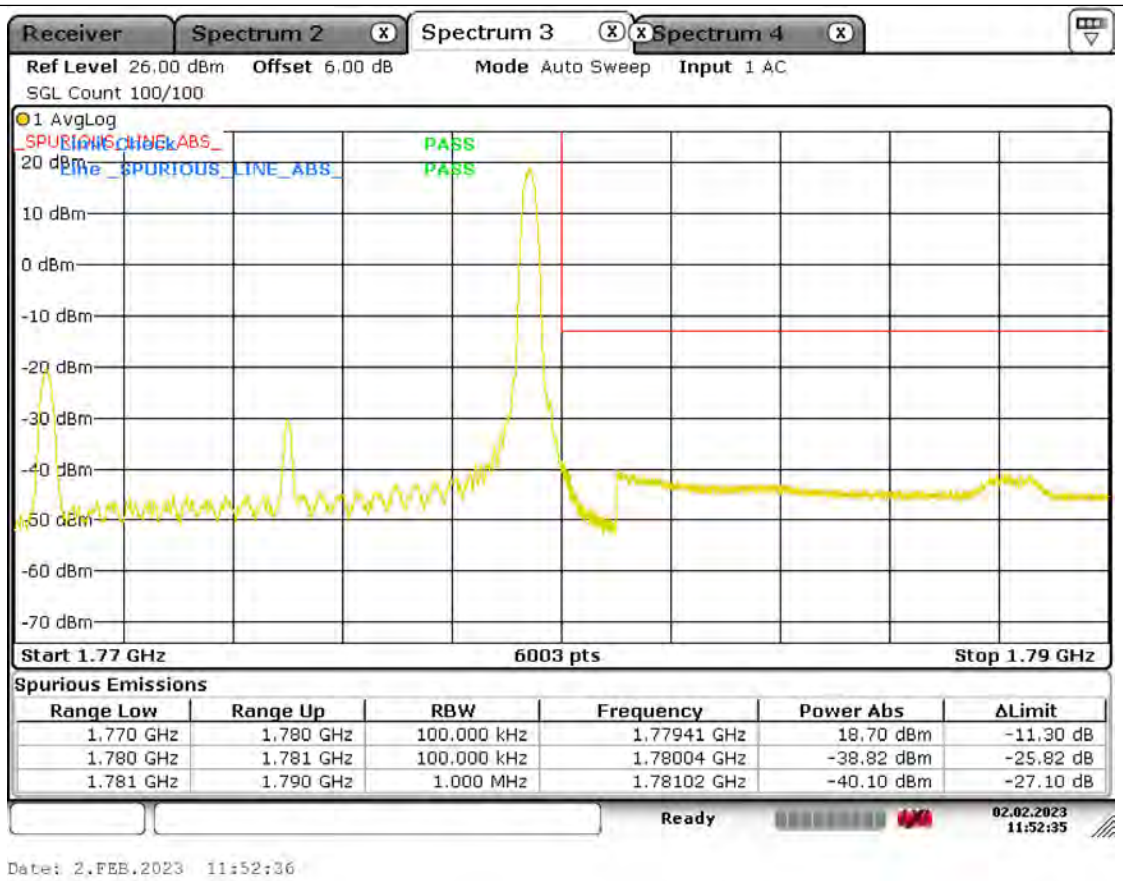
Band66-10MHz-16QAM-132022-1RB#0



Band66-10MHz-16QAM-132022-50RB#0

Band66-10MHz-16QAM-132622-1RB#49



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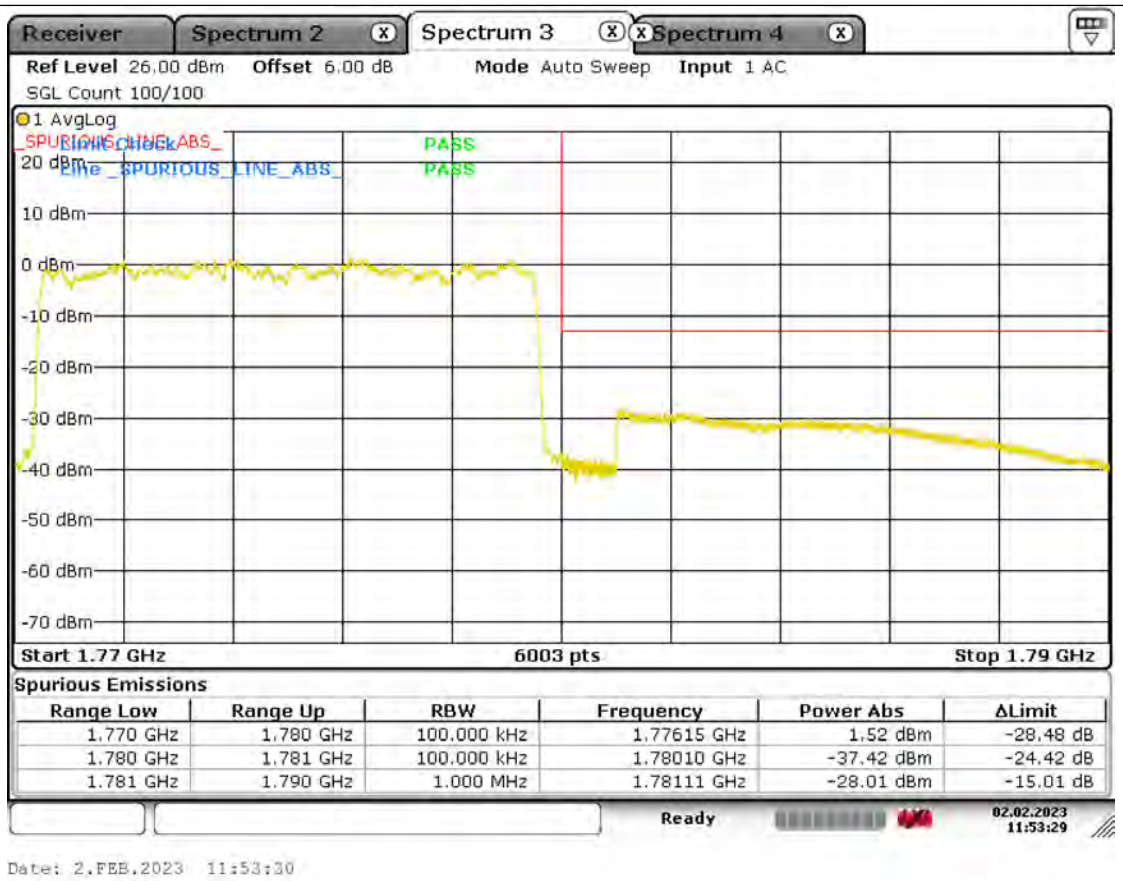
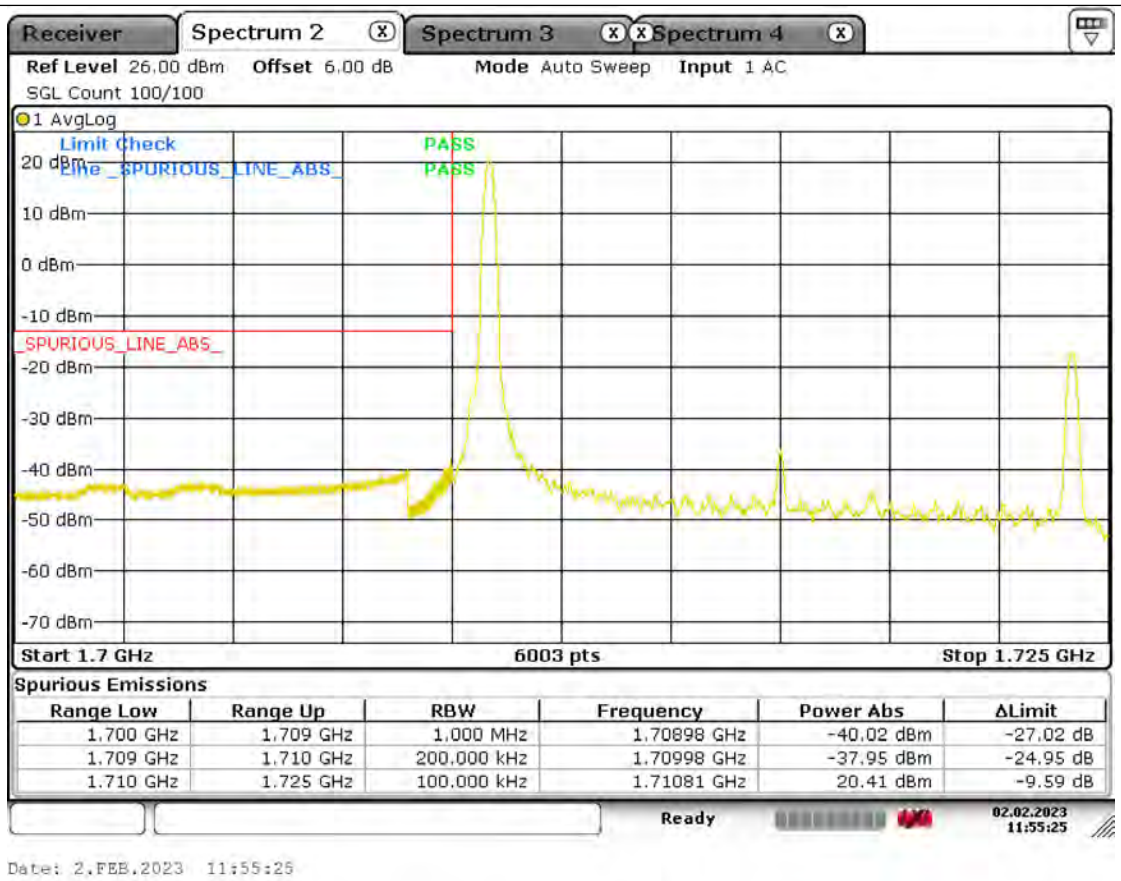
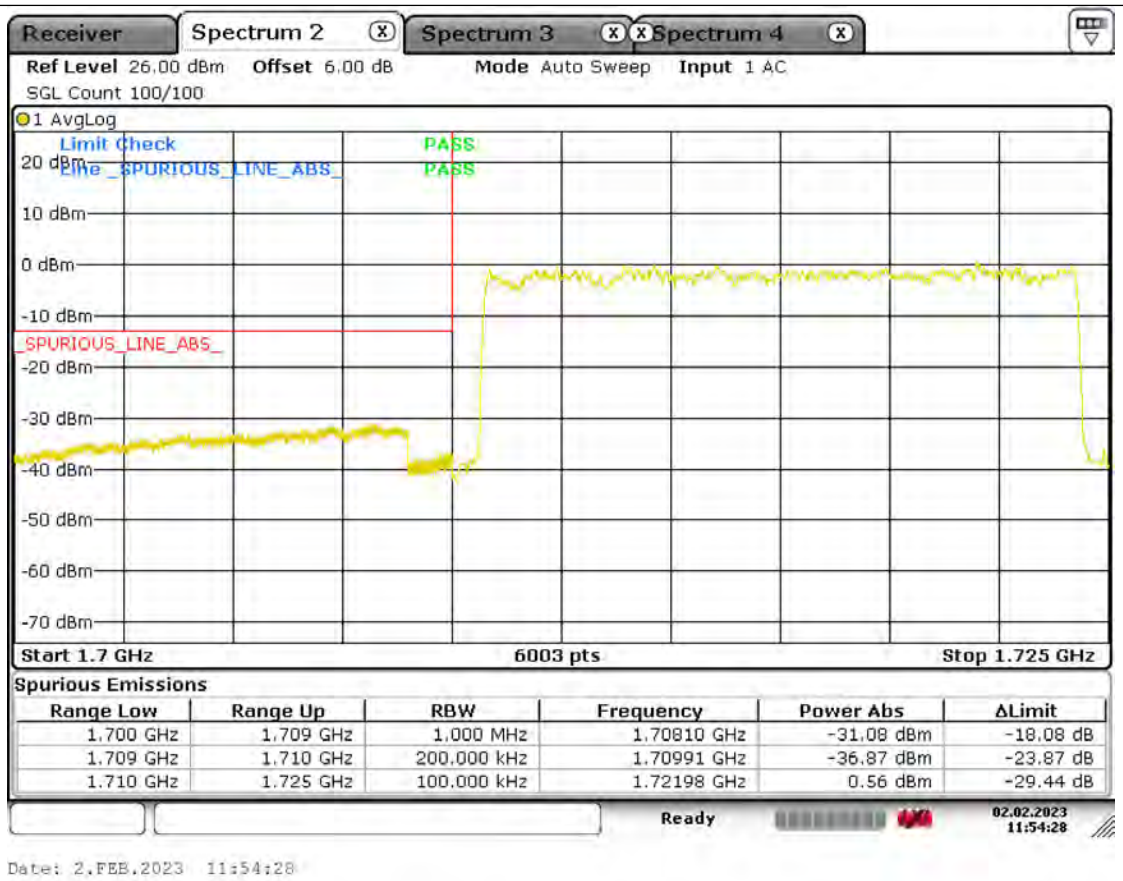


Band66-15MHz-QPSK-132047-1RB#0



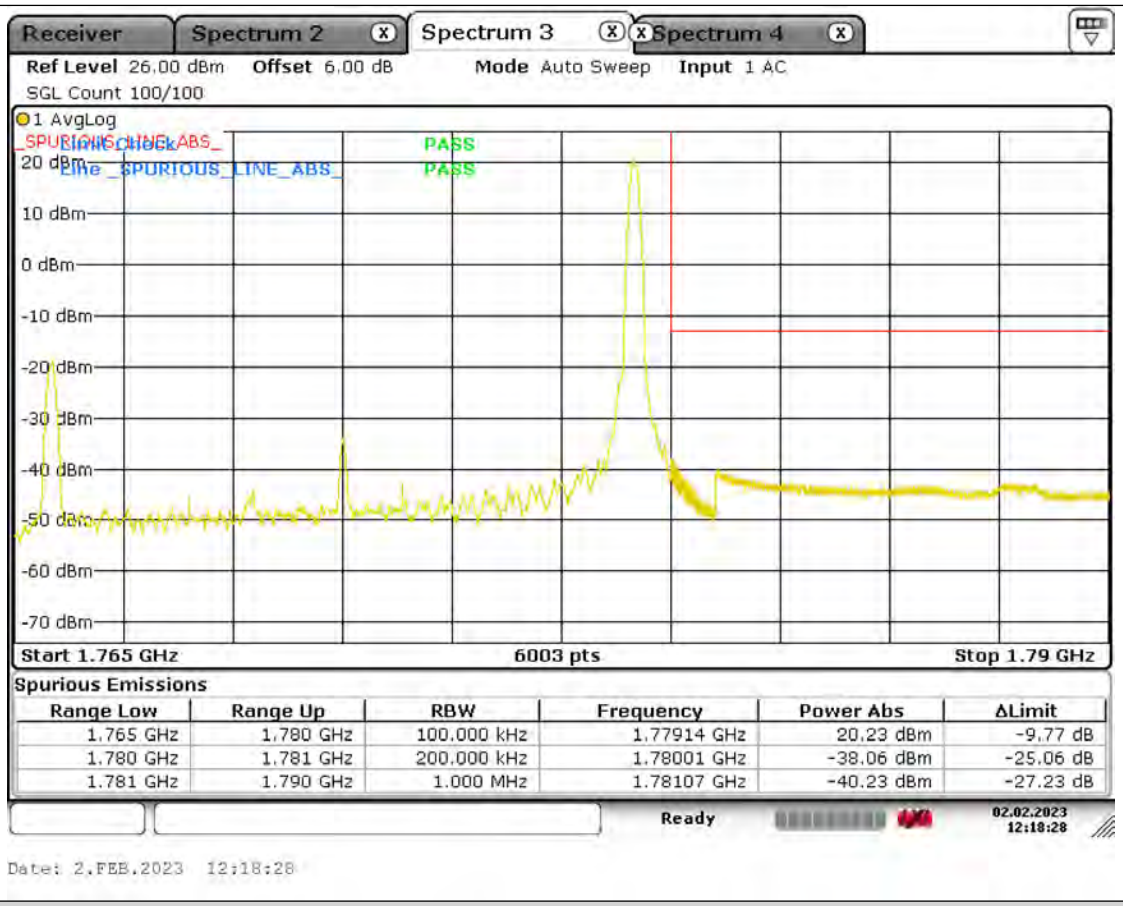
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70898 GHz	-40.02 dBm	-27.02 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70998 GHz	-37.95 dBm	-24.95 dB
1.710 GHz	1.725 GHz	100.000 kHz	1.71081 GHz	20.41 dBm	-9.59 dB

Band66-15MHz-QPSK-132047-75RB#0

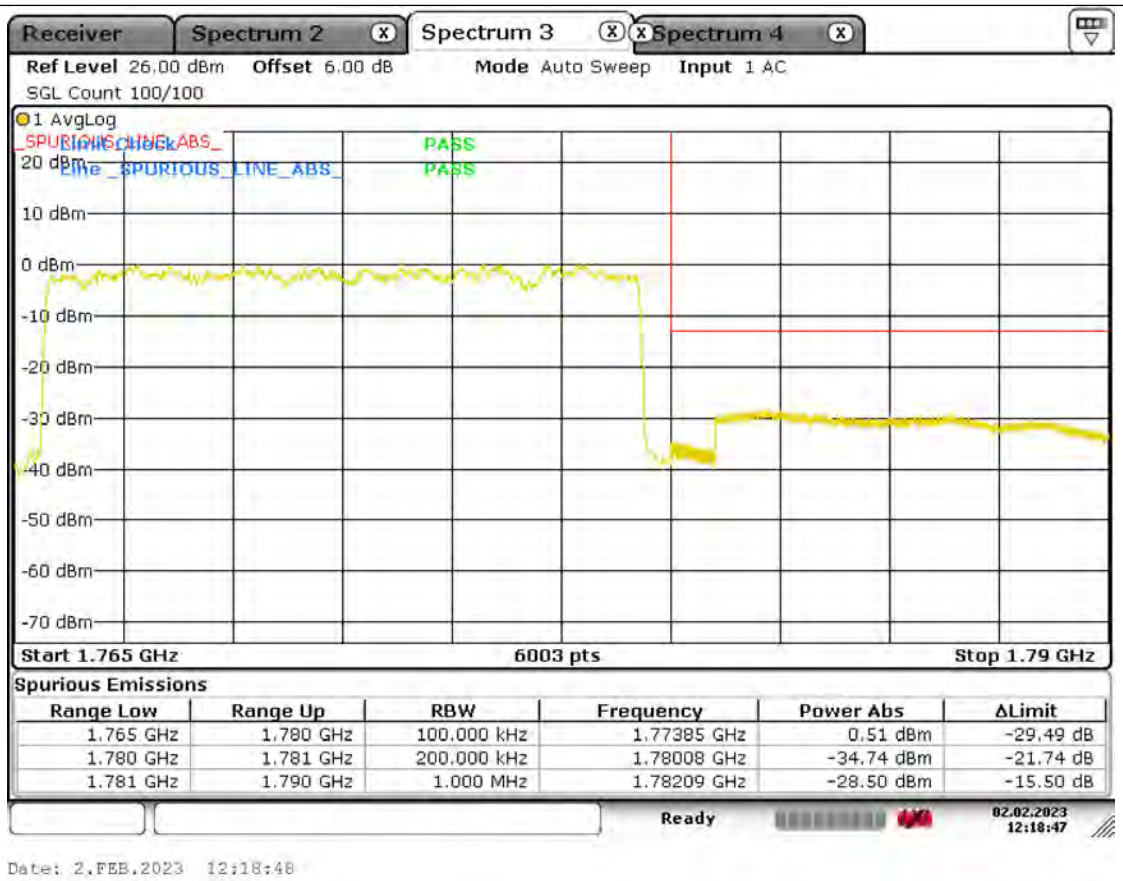


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70810 GHz	-31.08 dBm	-18.08 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70991 GHz	-36.87 dBm	-23.87 dB
1.710 GHz	1.725 GHz	100.000 kHz	1.72198 GHz	0.56 dBm	-29.44 dB

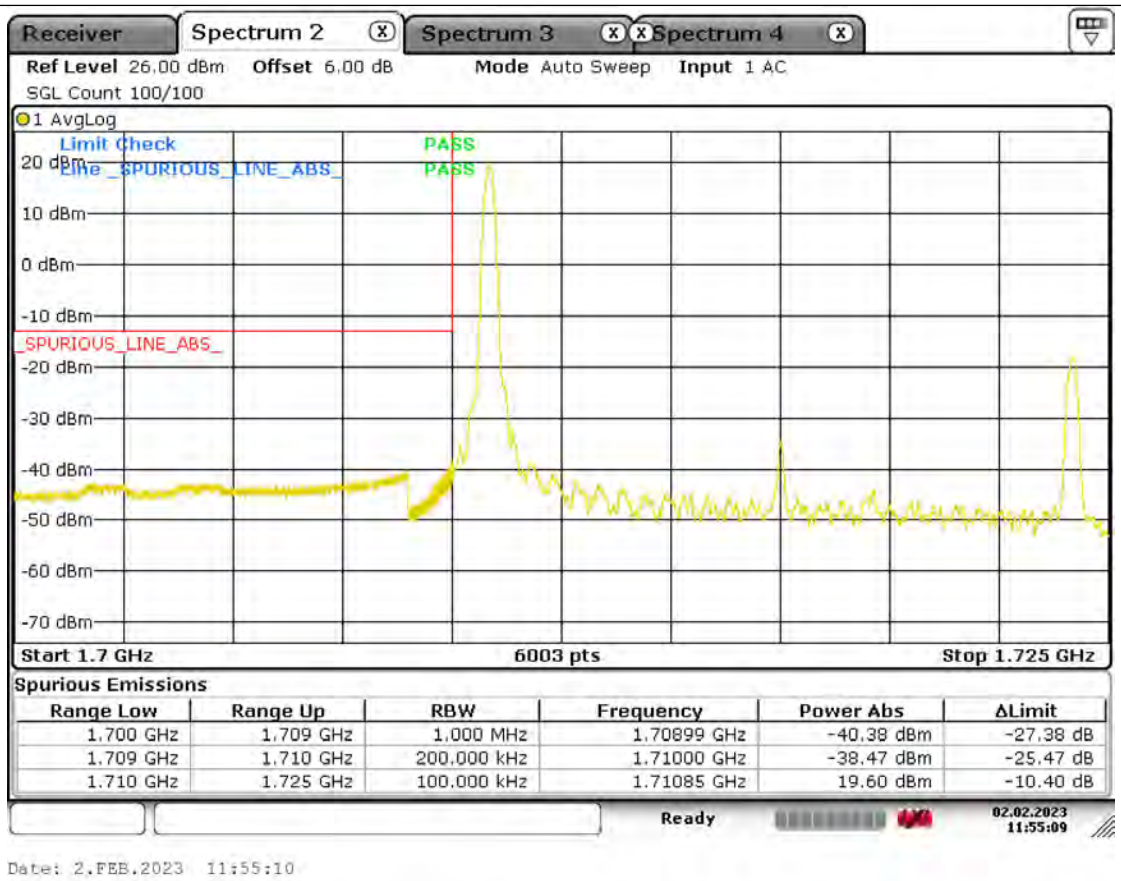
Band66-15MHz-QPSK-132597-1RB#74



Band66-15MHz-QPSK-132597-75RB#0

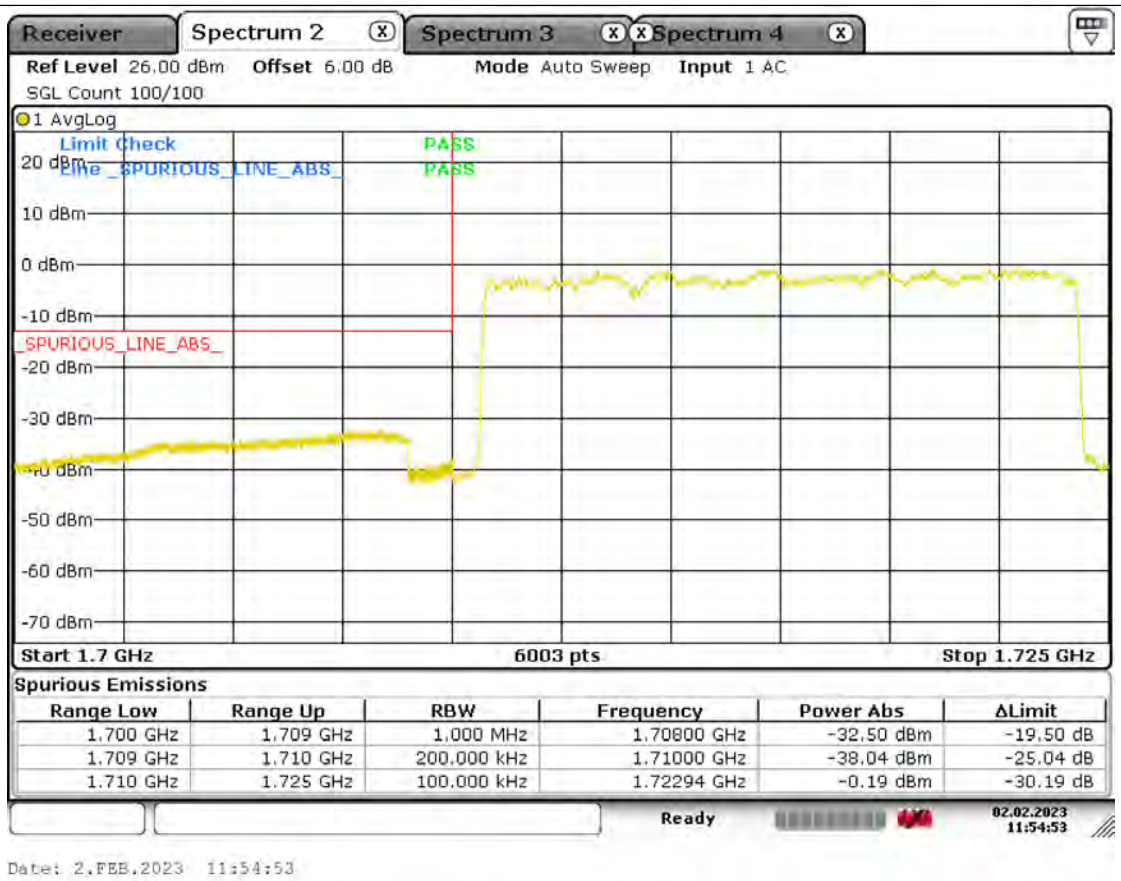


Band66-15MHz-16QAM-132047-1RB#0



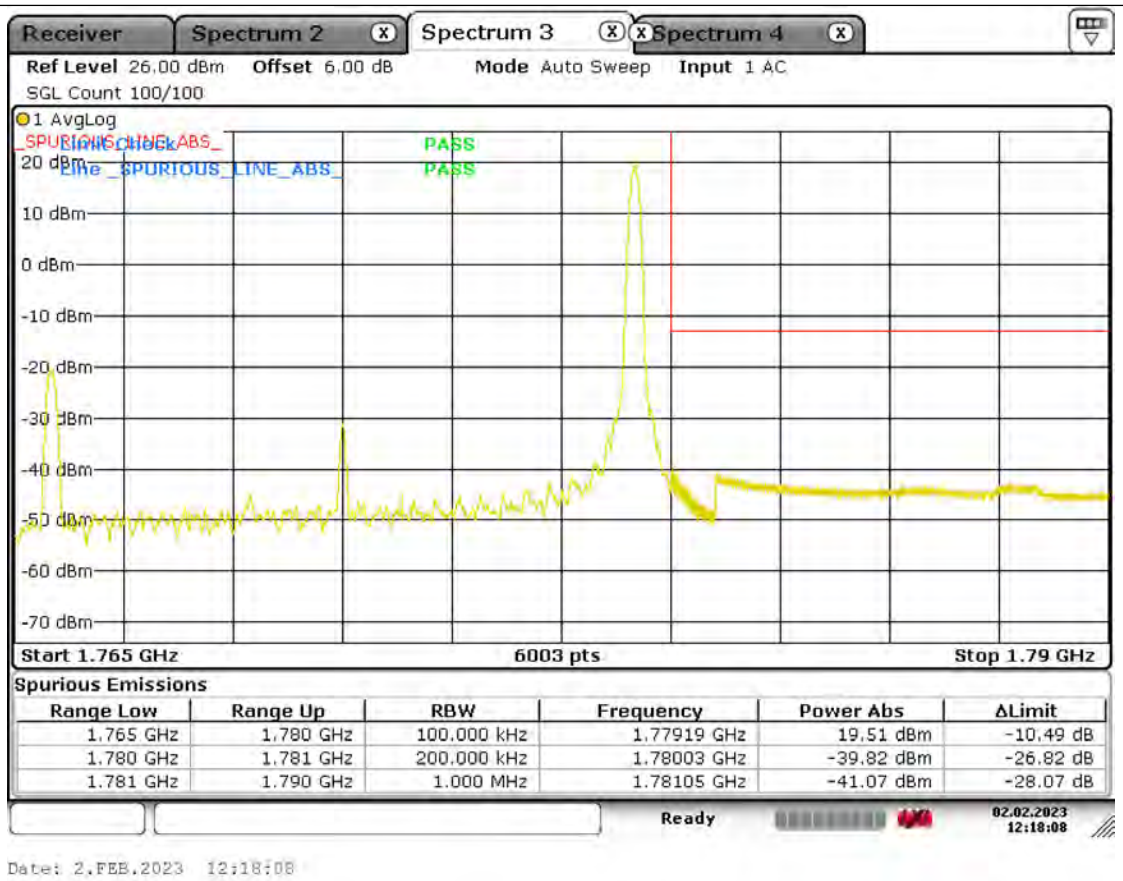
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70899 GHz	-40.38 dBm	-27.38 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.71000 GHz	-38.47 dBm	-25.47 dB
1.710 GHz	1.725 GHz	100.000 kHz	1.71085 GHz	19.60 dBm	-10.40 dB

Band66-15MHz-16QAM-132047-75RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70800 GHz	-32.50 dBm	-19.50 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.71000 GHz	-38.04 dBm	-25.04 dB
1.710 GHz	1.725 GHz	100.000 kHz	1.72294 GHz	-0.19 dBm	-30.19 dB

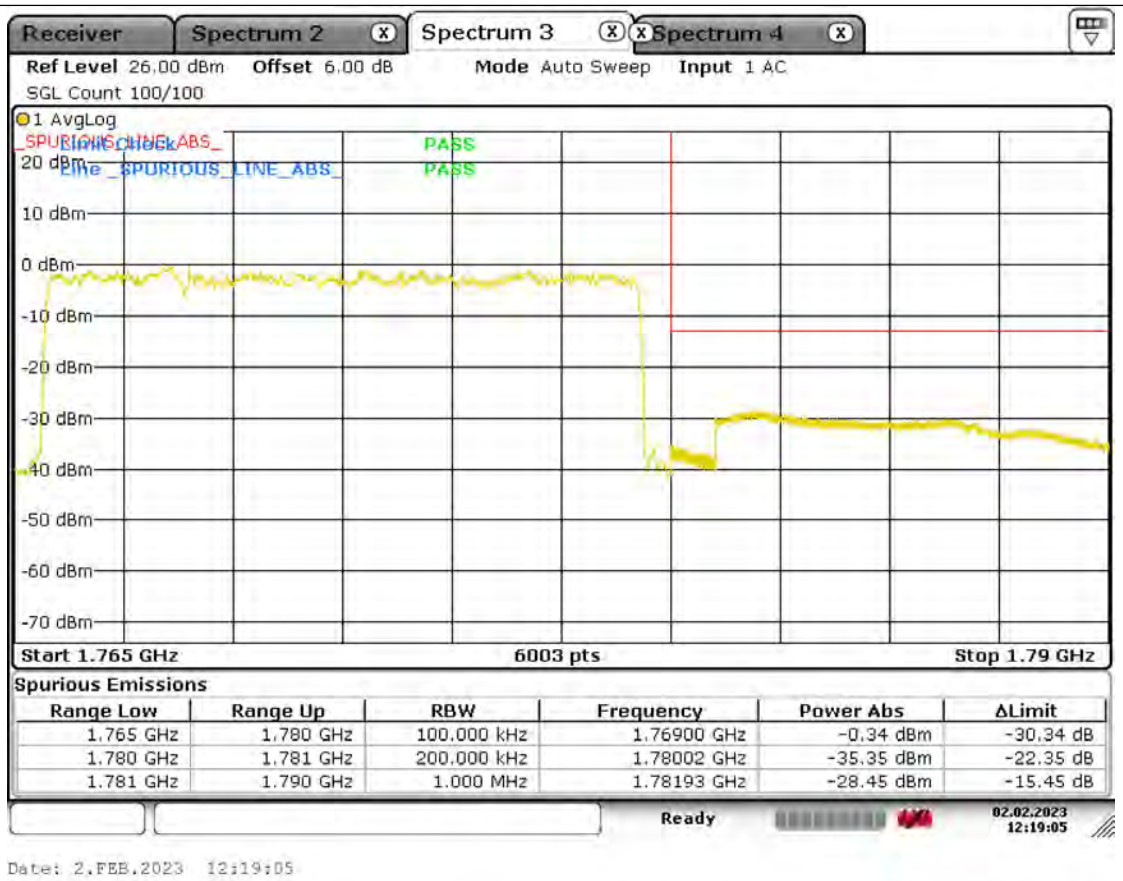
Band66-15MHz-16QAM-132597-1RB#74



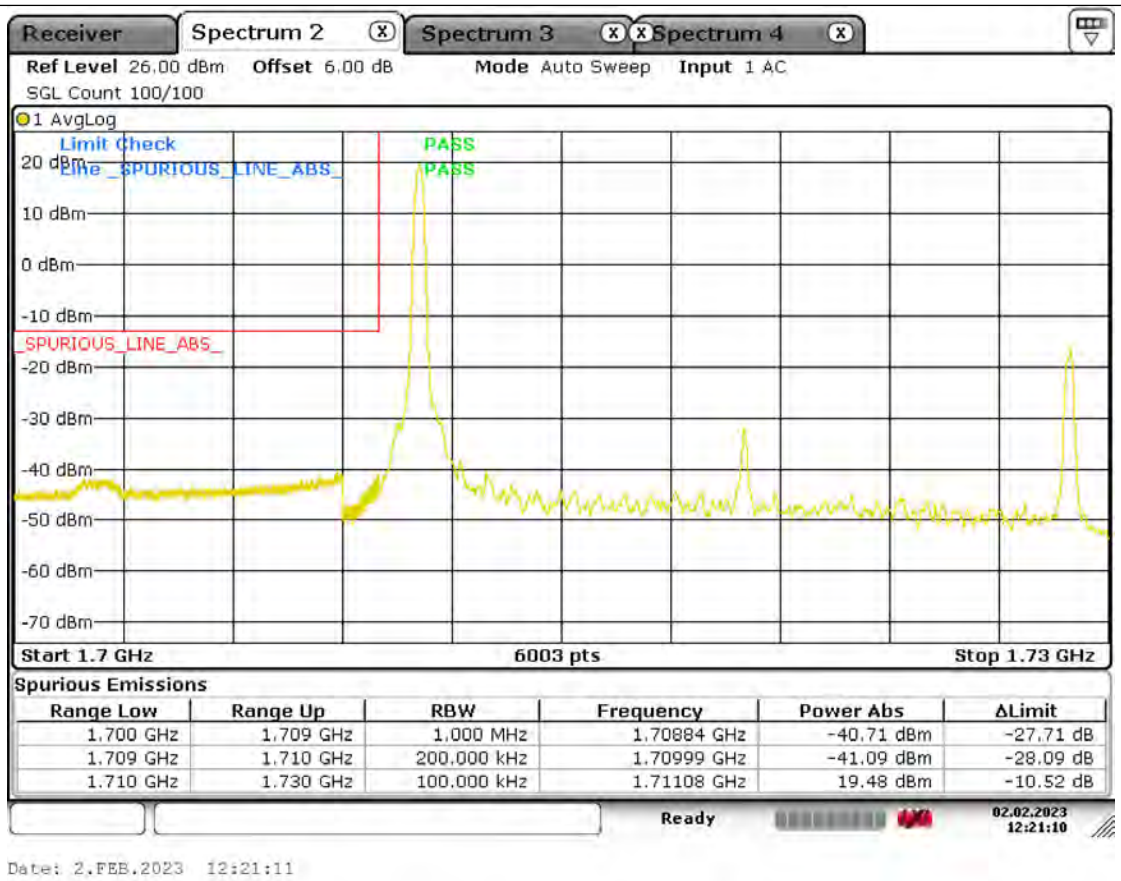
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.765 GHz	1.780 GHz	100.000 kHz	1.77919 GHz	19.51 dBm	-10.49 dB
1.780 GHz	1.781 GHz	200.000 kHz	1.78003 GHz	-39.82 dBm	-26.82 dB
1.781 GHz	1.790 GHz	1.000 MHz	1.78105 GHz	-41.07 dBm	-28.07 dB

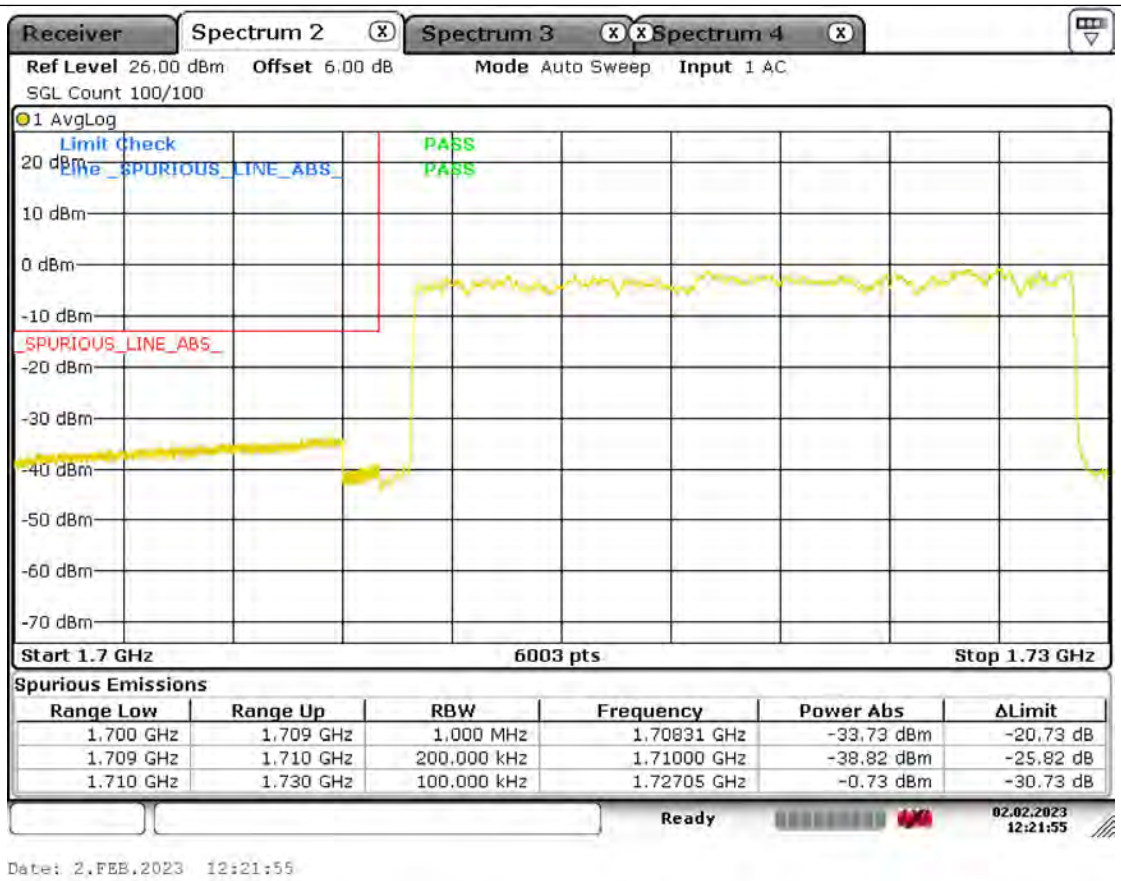
Band66-15MHz-16QAM-132597-75RB#0



Band66-20MHz-QPSK-132072-1RB#0

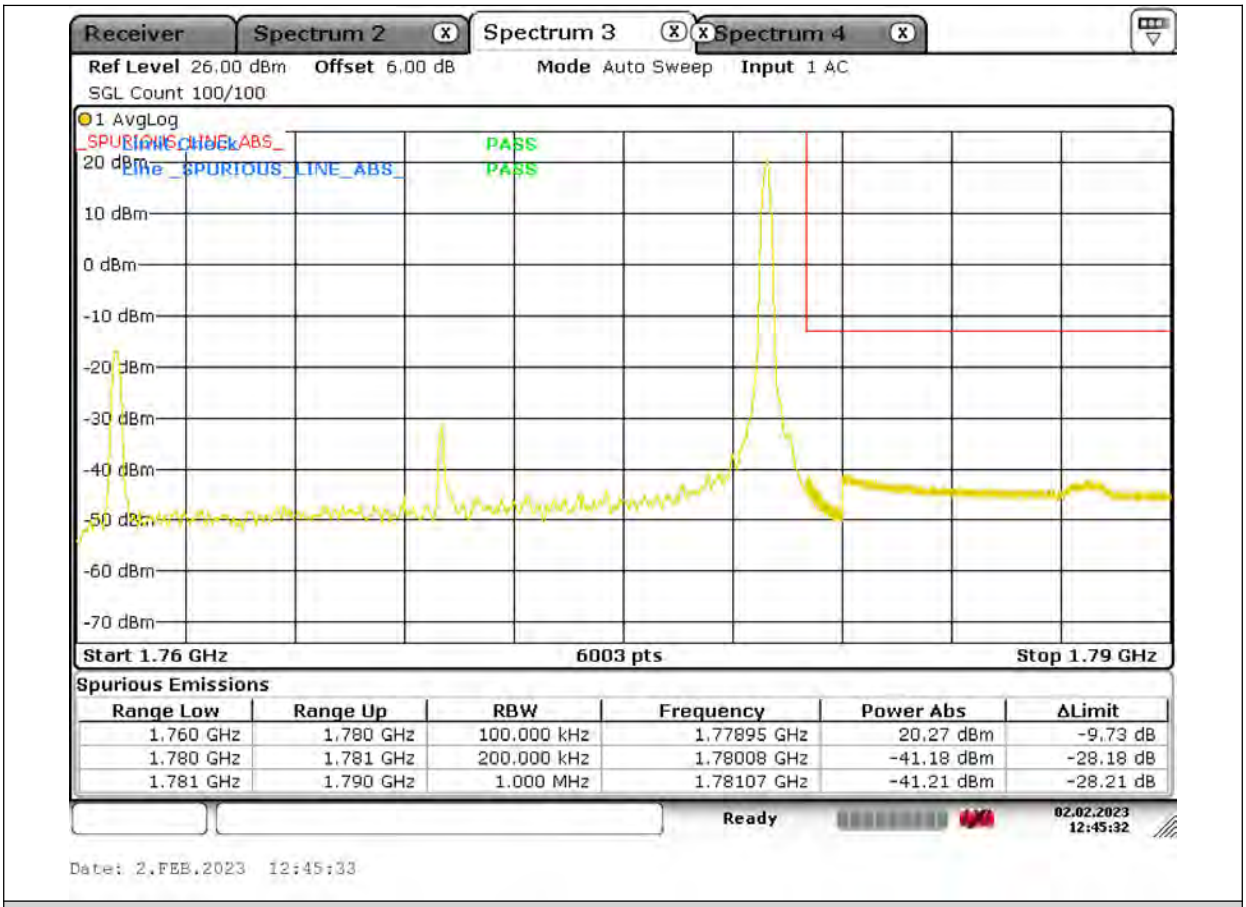


Band66-20MHz-QPSK-132072-100RB#0

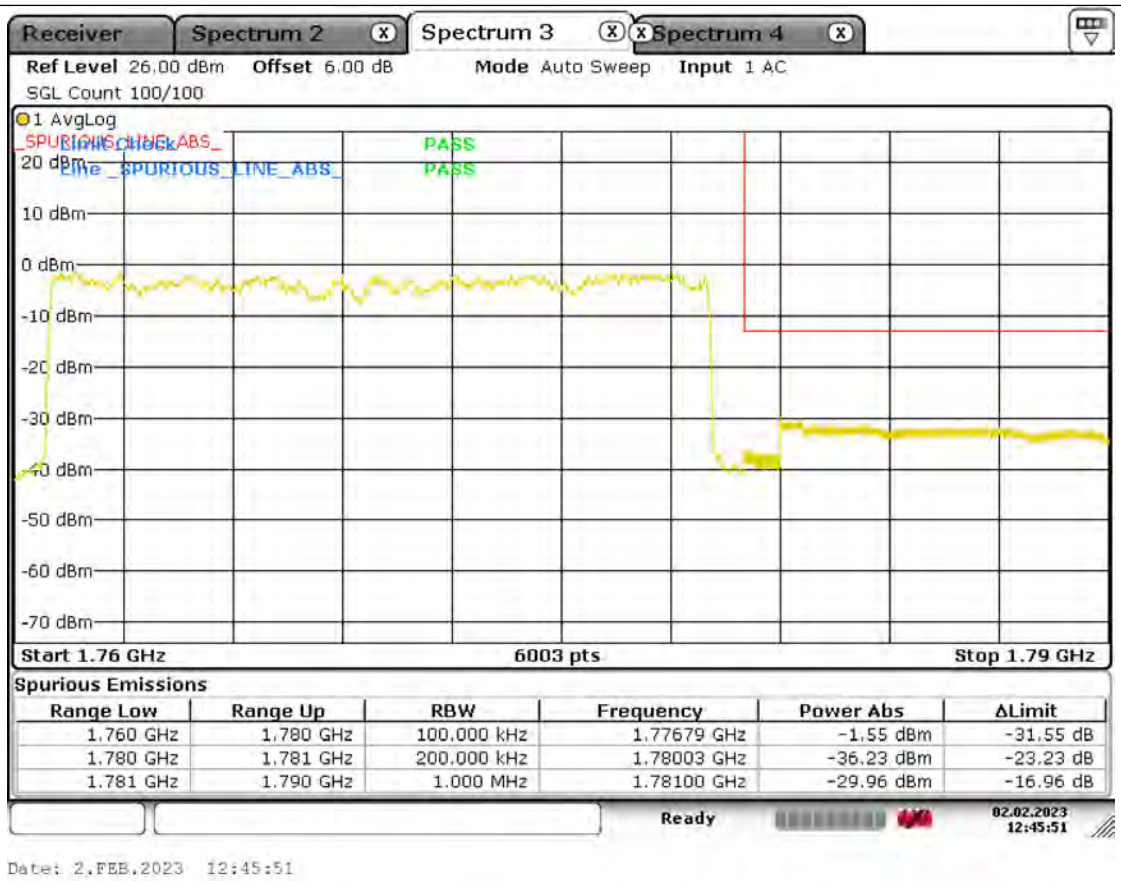


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70831 GHz	-33.73 dBm	-20.73 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.71000 GHz	-38.82 dBm	-25.82 dB
1.710 GHz	1.730 GHz	100.000 kHz	1.72705 GHz	-0.73 dBm	-30.73 dB

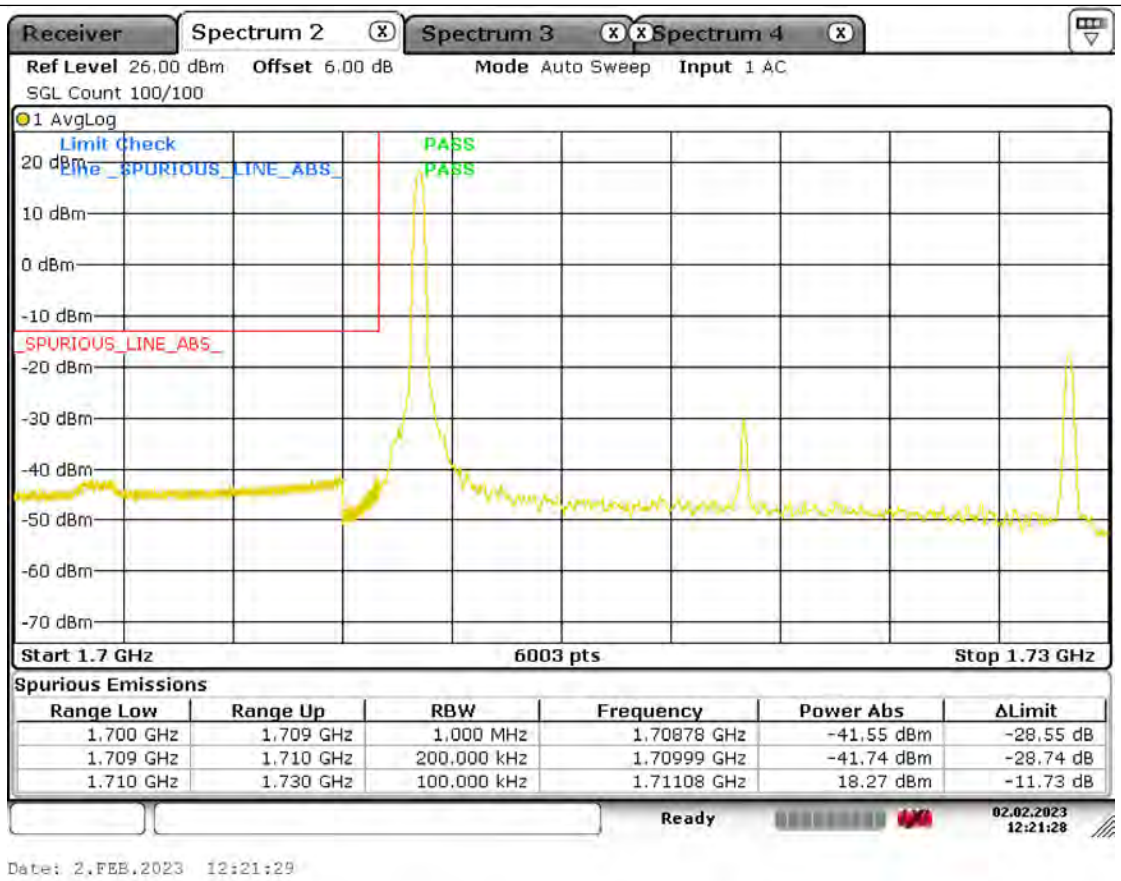
Band66-20MHz-QPSK-132572-1RB#99



Band66-20MHz-QPSK-132572-100RB#0



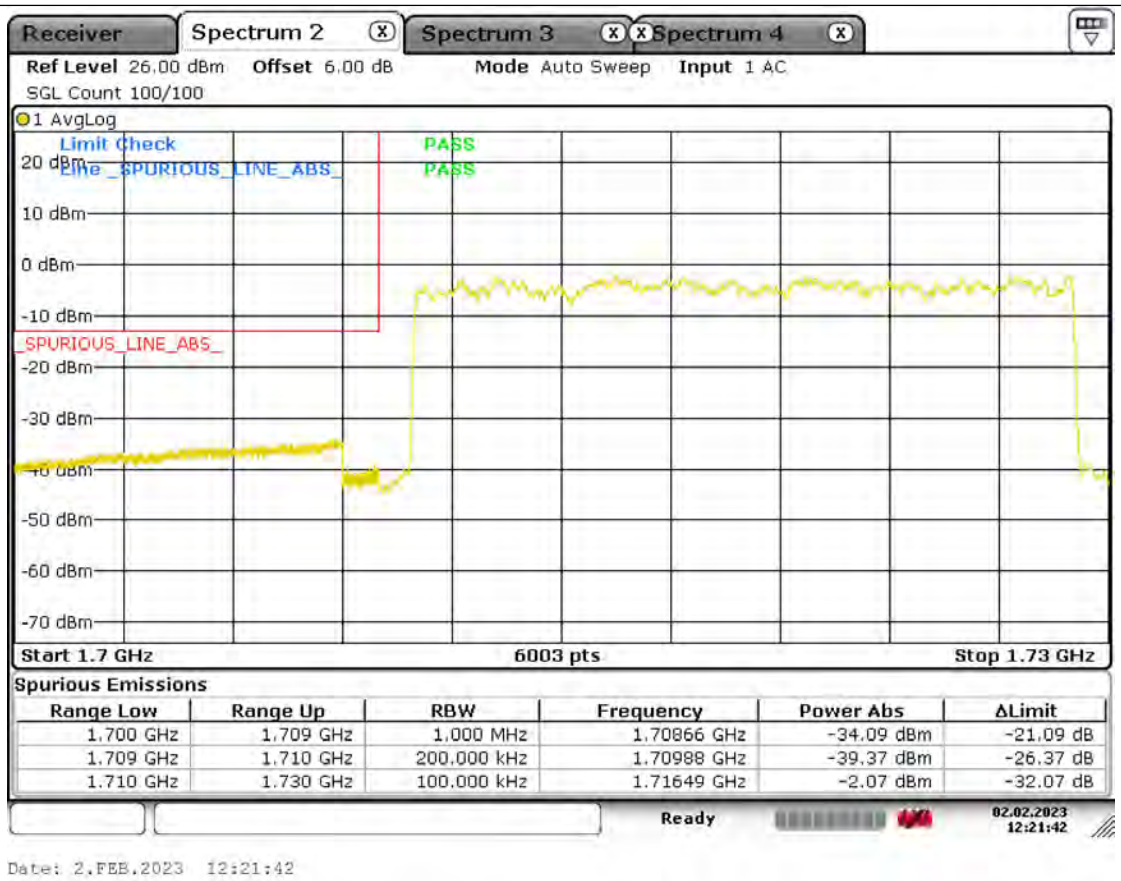
Band66-20MHz-16QAM-132072-1RB#0



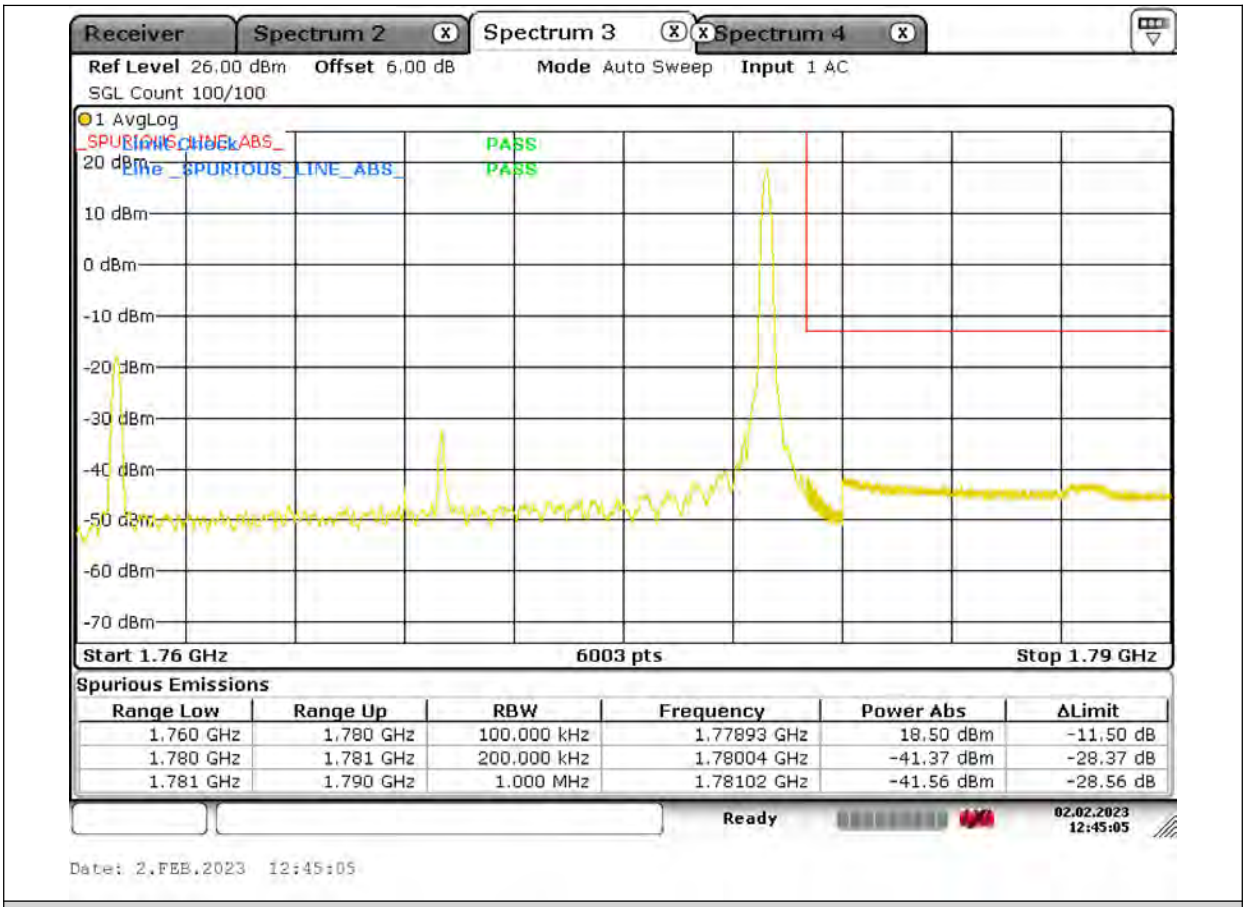
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70878 GHz	-41.55 dBm	-28.55 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70999 GHz	-41.74 dBm	-28.74 dB
1.710 GHz	1.730 GHz	100.000 kHz	1.71108 GHz	18.27 dBm	-11.73 dB

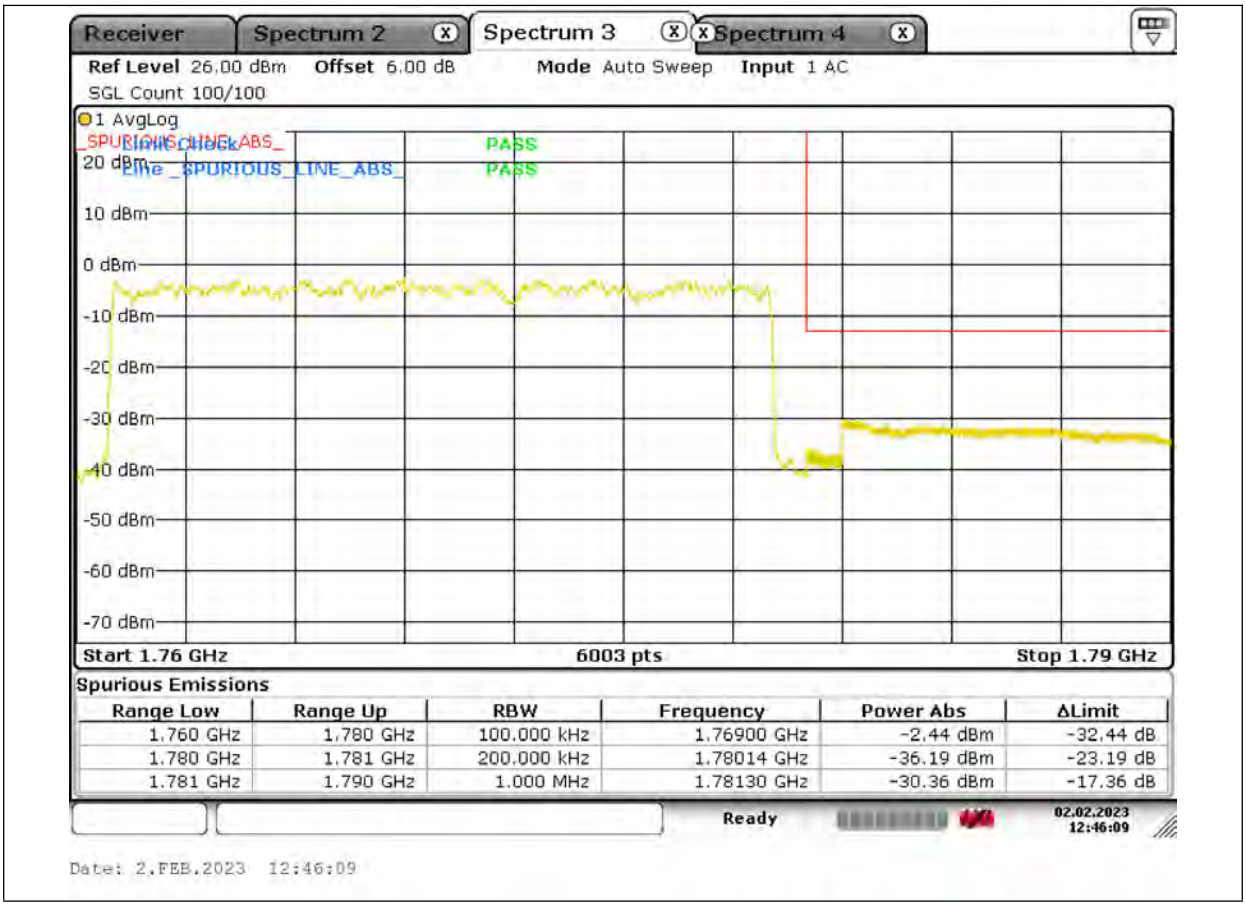
Band66-20MHz-16QAM-132072-100RB#0



Band66-20MHz-16QAM-132572-1RB#99



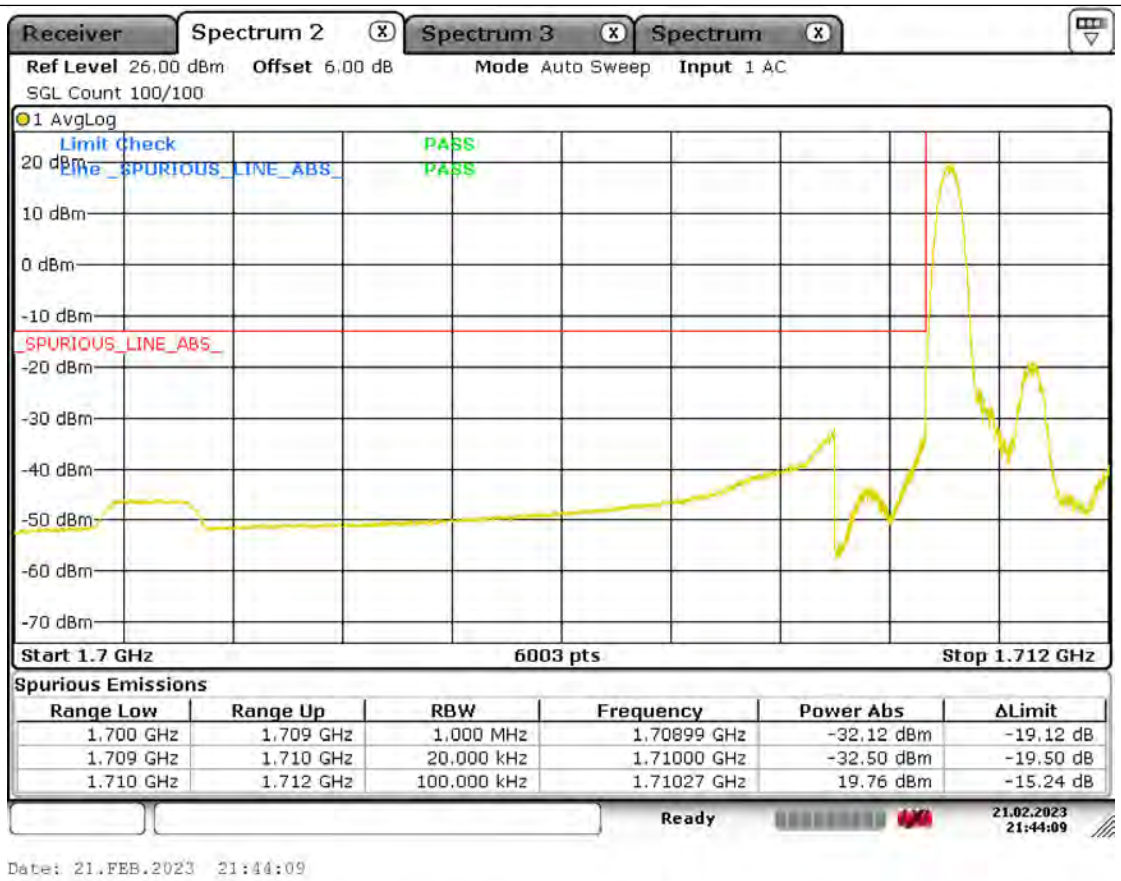
Band66-20MHz-16QAM-132572-100RB#0



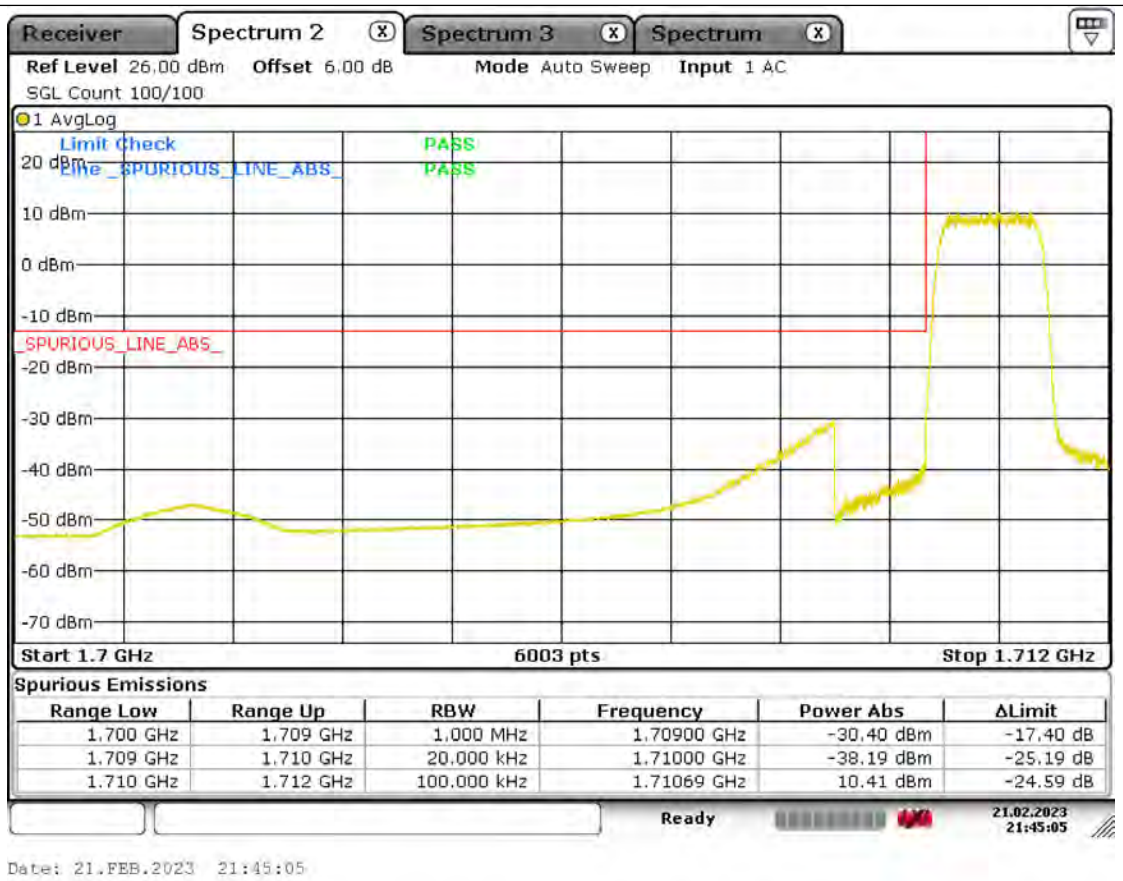
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.760 GHz	1.780 GHz	100.000 kHz	1.76900 GHz	-2.44 dBm	-32.44 dB
1.780 GHz	1.781 GHz	200.000 kHz	1.78014 GHz	-36.19 dBm	-23.19 dB
1.781 GHz	1.790 GHz	1.000 MHz	1.78130 GHz	-30.36 dBm	-17.36 dB

Band66-1.4MHz-64QAM-131979-1RB#0



Band66-1.4MHz-64QAM-131979-6RB#0



Band66-1.4MHz-64QAM-132665-1RB#5