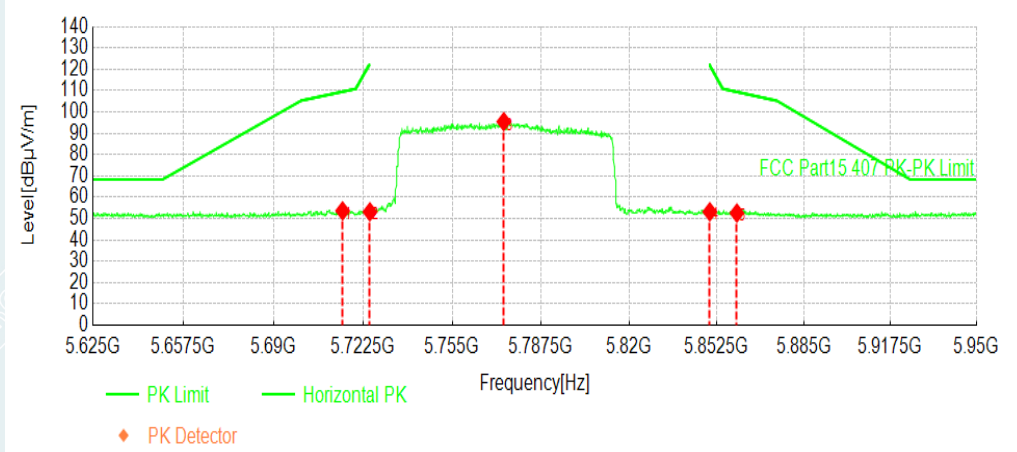


**802.11ax VHT80/5775MHz**

Detector mode: Peak

Polarity:

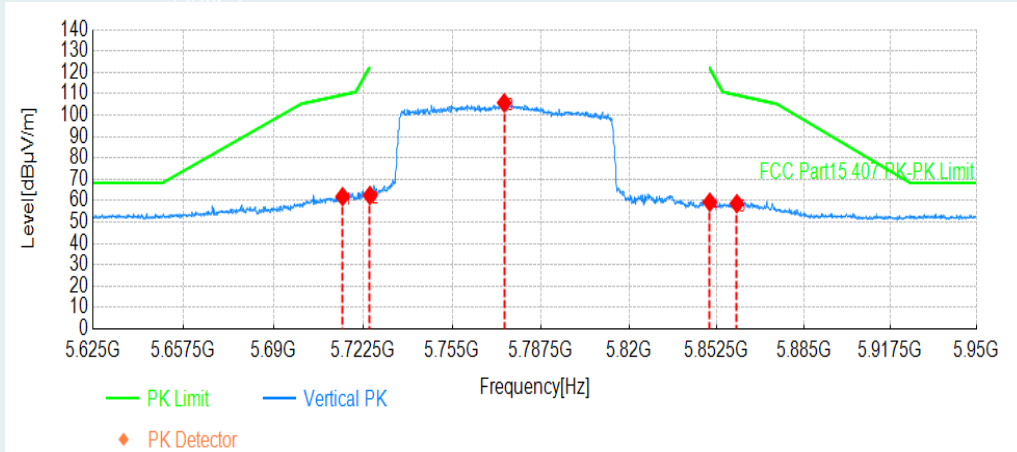
Horizontal



Detector mode: Peak

Polarity:

Vertical



NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5715.07	37.44	16.15	53.59	109.52	55.93	150	99	Horizontal
2	5724.9875	37.00	16.16	53.16	122.27	69.11	150	111	Horizontal
3	5773.9245	79.25	16.23	95.48	-	-	150	83	Horizontal
4	5850.0125	36.65	16.51	53.16	122.27	69.11	150	250	Horizontal
5	5860.0925	36.03	16.56	52.59	109.47	56.88	150	314	Horizontal
1	5715.07	45.74	16.15	61.89	109.52	47.63	150	12	Vertical
2	5724.9875	46.31	16.16	62.47	122.27	59.80	150	276	Vertical
3	5774.087	89.58	16.23	105.81	-	-	150	101	Vertical
4	5850.0125	42.75	16.51	59.26	122.27	63.01	150	12	Vertical
5	5860.0925	42.03	16.56	58.59	109.47	50.88	150	93	Vertical

## 8. 6DB BANDWIDTH & 26DB BANDWIDTH & 99% OCCUPIED BANDWIDTH

### 8.1. LIMITS

Band	Frequency (MHz)	Test Item	Limit
U-NII-1	5150-5250	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-2A	5250-5350	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-2C	5470-5725	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-3	5725-5850	6dB Bandwidth&99% Occupied Bandwidth	6dB Bandwidth $\geq$ 500KHz

### 8.2. TEST PROCEDURES

#### For 26dB Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with table 1.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurements needed until the RBW/EBW ratio is approximately 1%.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

#### For 6dB Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with table 2.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

#### For 99% Occupied Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with table 3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the 99% power bandwidth function to measure bandwidth.
- Repeat above procedures until all modes and channels were measured.

Record the results in the test report.

Table 1:

26dB Bandwidth	
Spectrum Parameters	Setting
RBW	approximately 1% of the emission bandwidth
VBW	> RBW
Span	40MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak

Trace Mode	Max Hold
------------	----------

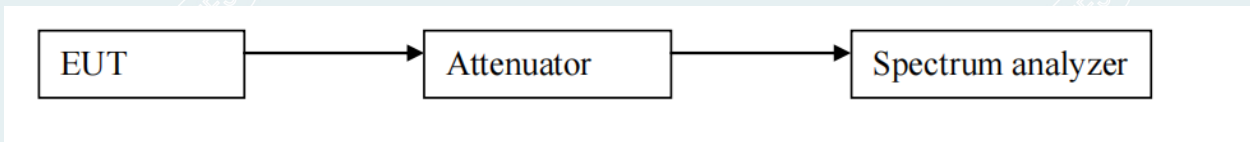
Table 2:

6dB Bandwidth	
Spectrum Parameters	Setting
RBW	100kHz
VBW	300kHz
Span	40MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

Table3:

99% Occupied Bandwidth	
Spectrum Parameters	Setting
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Span	between 1.5 times and 5.0 times the OBW
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

**8.3. TEST SETUP**



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## 8.4. TEST RESULTS

<b>Environmental Conditions</b>	20.9°C/47%RH/101.1kPa	<b>Test Voltage</b>	AC120V/60Hz
<b>Tested By</b>	Zhang Zishan	<b>Tested Date</b>	2022/12/15~2023/01/19

6dB Bandwidth: U-NII-3

Mode	Frequency (MHz)	Antenna	6 dB Bandwidth (MHz)	Limit 6 dB Bandwidth (MHz)	Verdict
11a	5745	Ant1	16.311	0.5	Pass
11a	5745	Ant2	16.311	0.5	Pass
11a	5745	Ant3	16.302	0.5	Pass
11a	5785	Ant1	16.299	0.5	Pass
11a	5785	Ant2	16.308	0.5	Pass
11a	5785	Ant3	16.332	0.5	Pass
11a	5825	Ant1	16.293	0.5	Pass
11a	5825	Ant2	16.296	0.5	Pass
11a	5825	Ant3	16.329	0.5	Pass
11n20	5745	Ant1	17.148	0.5	Pass
11n20	5745	Ant2	17.499	0.5	Pass
11n20	5745	Ant3	17.307	0.5	Pass
11n20	5785	Ant1	17.307	0.5	Pass
11n20	5785	Ant2	17.496	0.5	Pass
11n20	5785	Ant3	17.52	0.5	Pass
11n20	5825	Ant1	17.295	0.5	Pass
11n20	5825	Ant2	17.28	0.5	Pass
11n20	5825	Ant3	17.271	0.5	Pass
11n40	5755	Ant1	35.088	0.5	Pass
11n40	5755	Ant2	35.118	0.5	Pass
11n40	5755	Ant3	35.112	0.5	Pass
11n40	5795	Ant1	35.118	0.5	Pass
11n40	5795	Ant2	35.04	0.5	Pass
11n40	5795	Ant3	35.1	0.5	Pass
11ac20	5745	Ant1	17.28	0.5	Pass
11ac20	5745	Ant2	17.55	0.5	Pass
11ac20	5745	Ant3	16.932	0.5	Pass
11ac20	5785	Ant1	17.268	0.5	Pass
11ac20	5785	Ant2	17.556	0.5	Pass
11ac20	5785	Ant3	17.541	0.5	Pass
11ac20	5825	Ant1	17.517	0.5	Pass
11ac20	5825	Ant2	17.28	0.5	Pass
11ac20	5825	Ant3	17.28	0.5	Pass
11ac40	5755	Ant1	34.998	0.5	Pass

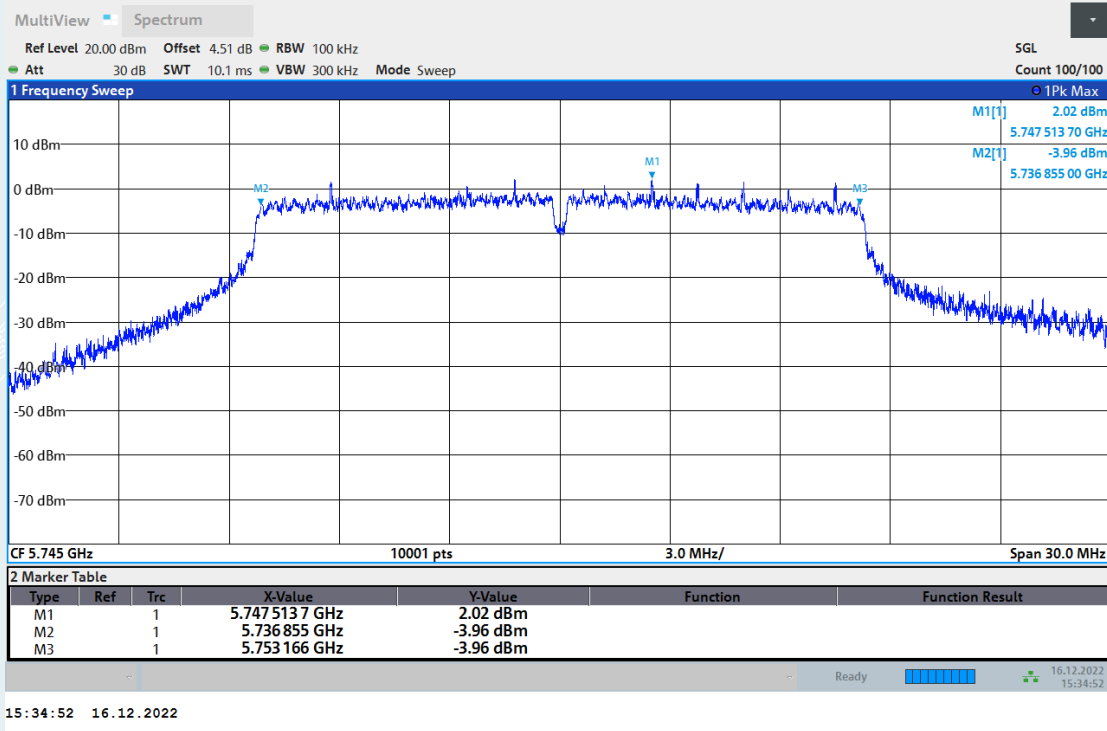
11ac40	5755	Ant2	35.1	0.5	Pass
11ac40	5755	Ant3	35.058	0.5	Pass
11ac40	5795	Ant1	35.106	0.5	Pass
11ac40	5795	Ant2	35.118	0.5	Pass
11ac40	5795	Ant3	35.022	0.5	Pass
11ac80	5775	Ant1	75.084	0.5	Pass
11ac80	5775	Ant2	75.084	0.5	Pass
11ac80	5775	Ant3	75.108	0.5	Pass
11ax20	5745	Ant1	18.42	0.5	Pass
11ax20	5745	Ant2	18.921	0.5	Pass
11ax20	5745	Ant3	18.294	0.5	Pass
11ax20	5785	Ant1	18.603	0.5	Pass
11ax20	5785	Ant2	18.582	0.5	Pass
11ax20	5785	Ant3	18.822	0.5	Pass
11ax20	5825	Ant1	18.87	0.5	Pass
11ax20	5825	Ant2	18.564	0.5	Pass
11ax20	5825	Ant3	18.756	0.5	Pass
11ax40	5755	Ant1	35.346	0.5	Pass
11ax40	5755	Ant2	36.318	0.5	Pass
11ax40	5755	Ant3	35.79	0.5	Pass
11ax40	5795	Ant1	35.574	0.5	Pass
11ax40	5795	Ant2	36.264	0.5	Pass
11ax40	5795	Ant3	35.388	0.5	Pass
11ax80	5775	Ant1	73.848	0.5	Pass
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11ax80	5775	Ant3	75.108	0.5	Pass

----- The following blanks -----

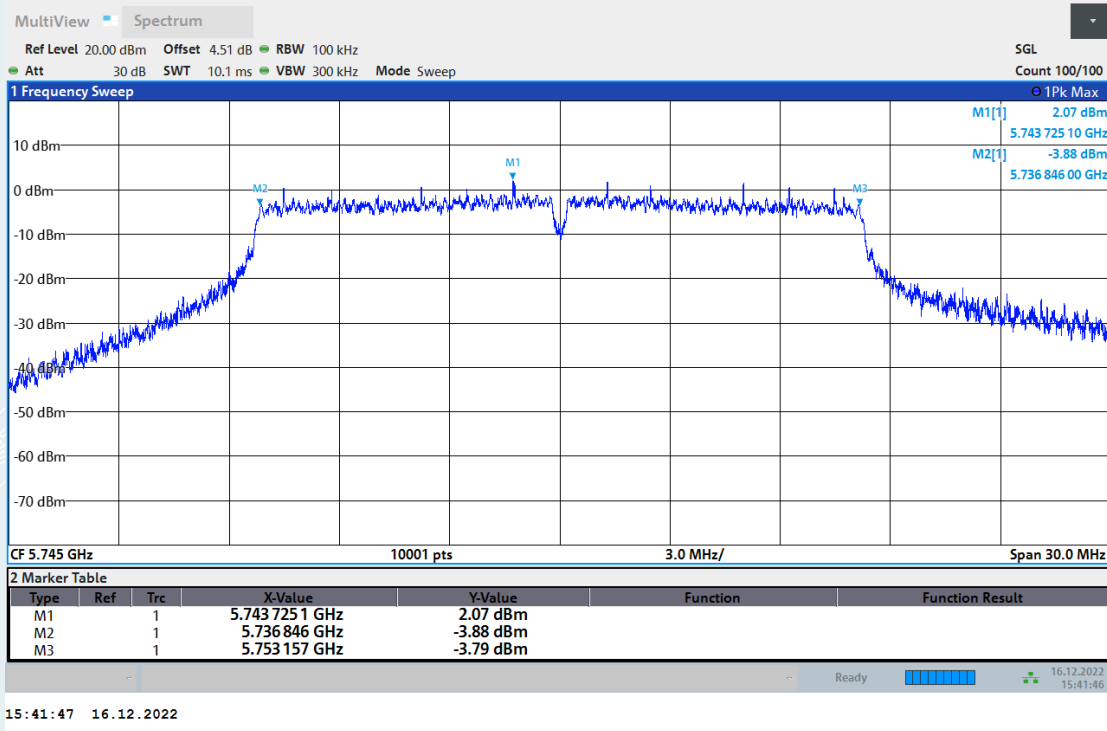


Test Graphs

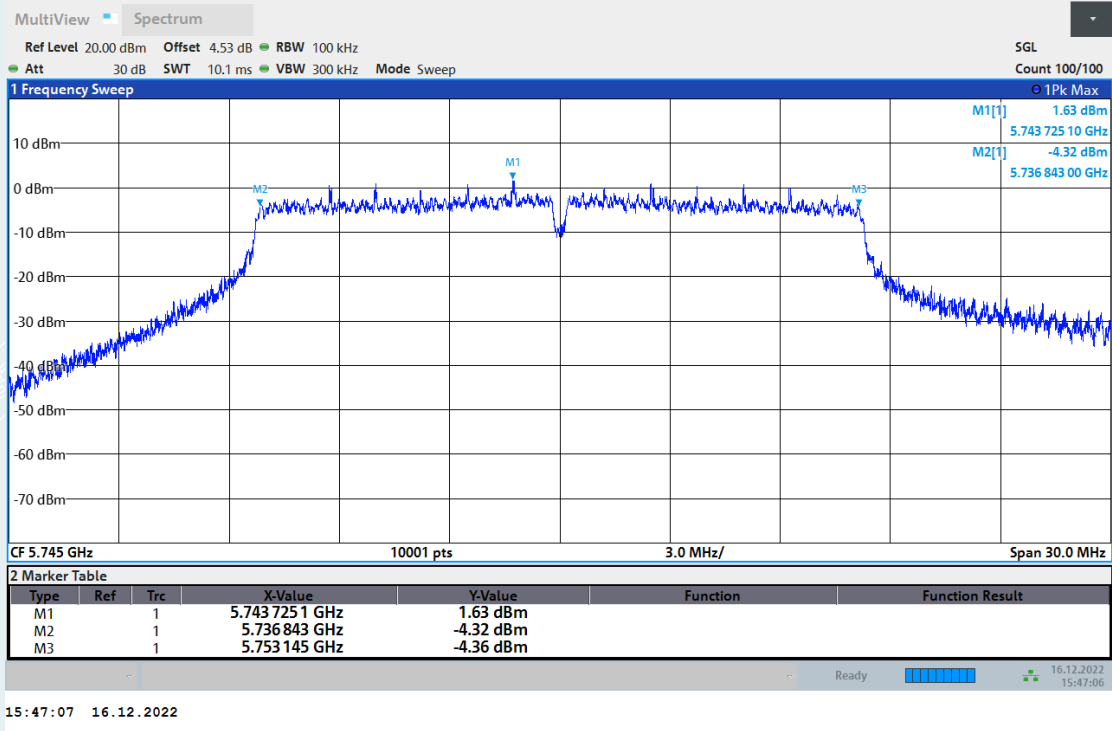
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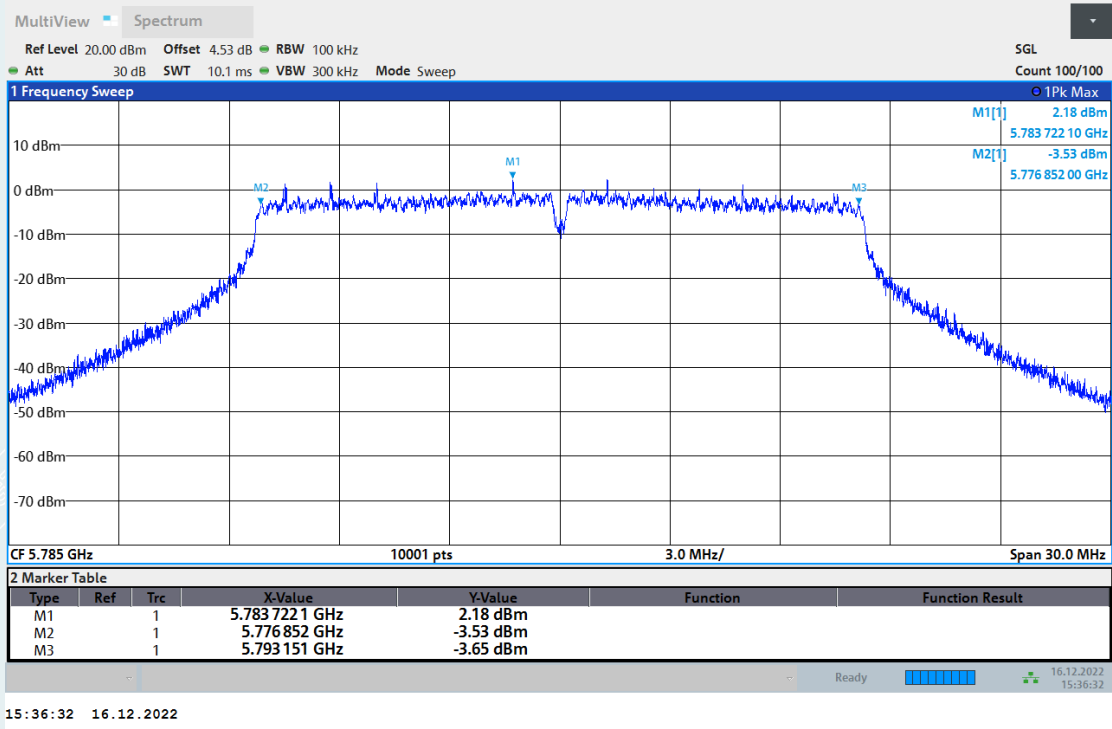
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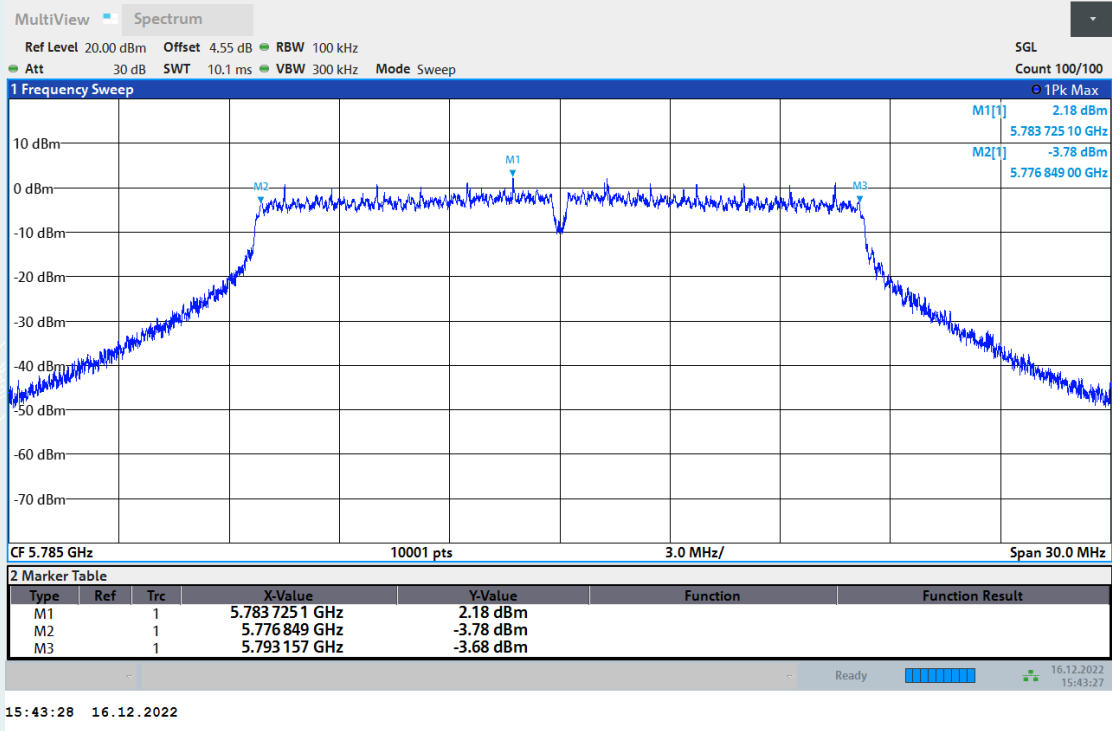
6dB Bandwidth NVNT a 5745MHz Ant3



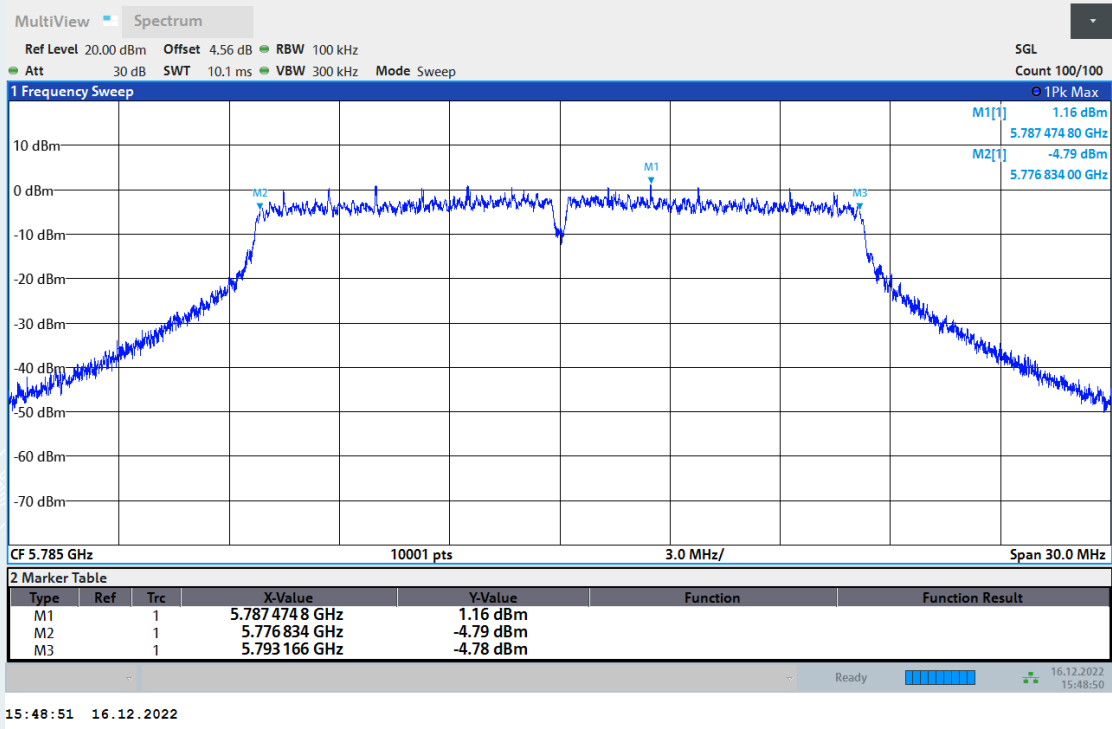
6dB Bandwidth NVNT a 5785MHz Ant1



6dB Bandwidth NVNT a 5785MHz Ant2

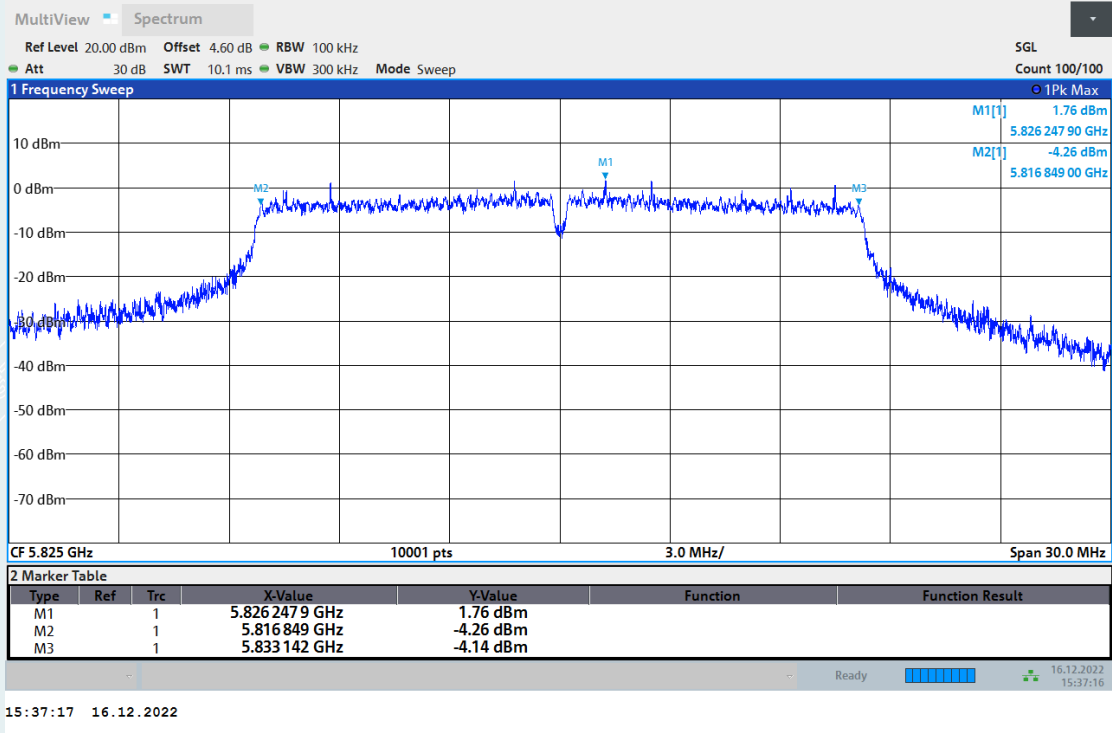


6dB Bandwidth NVNT a 5785MHz Ant3

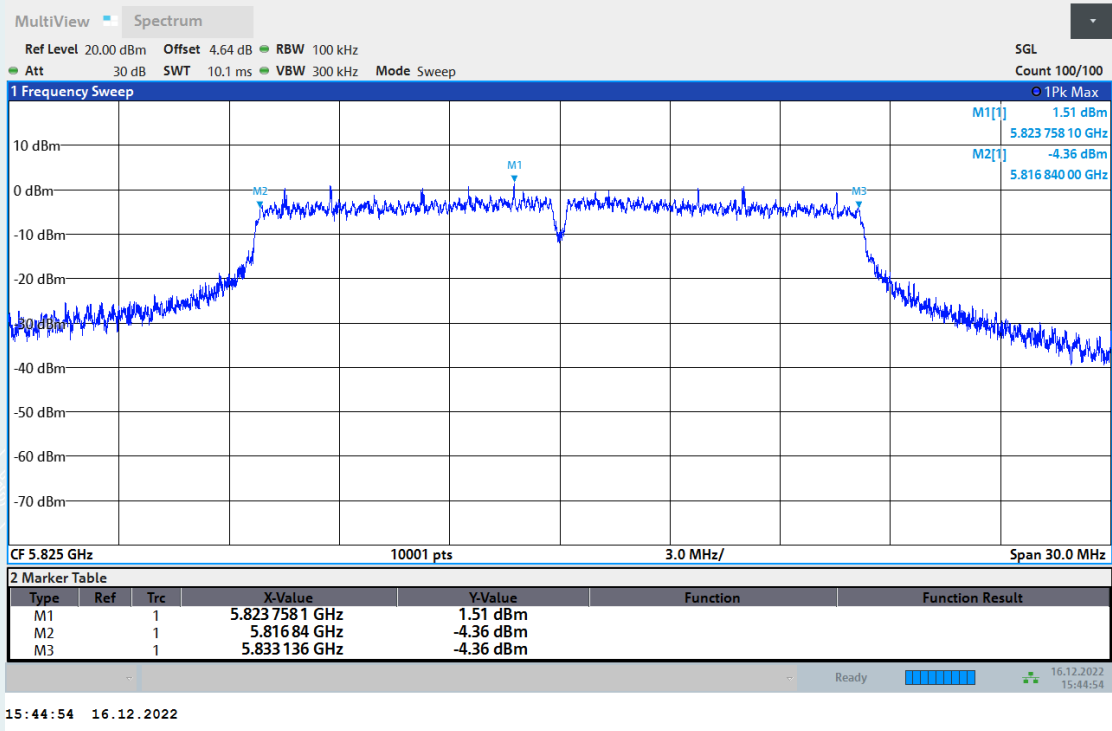




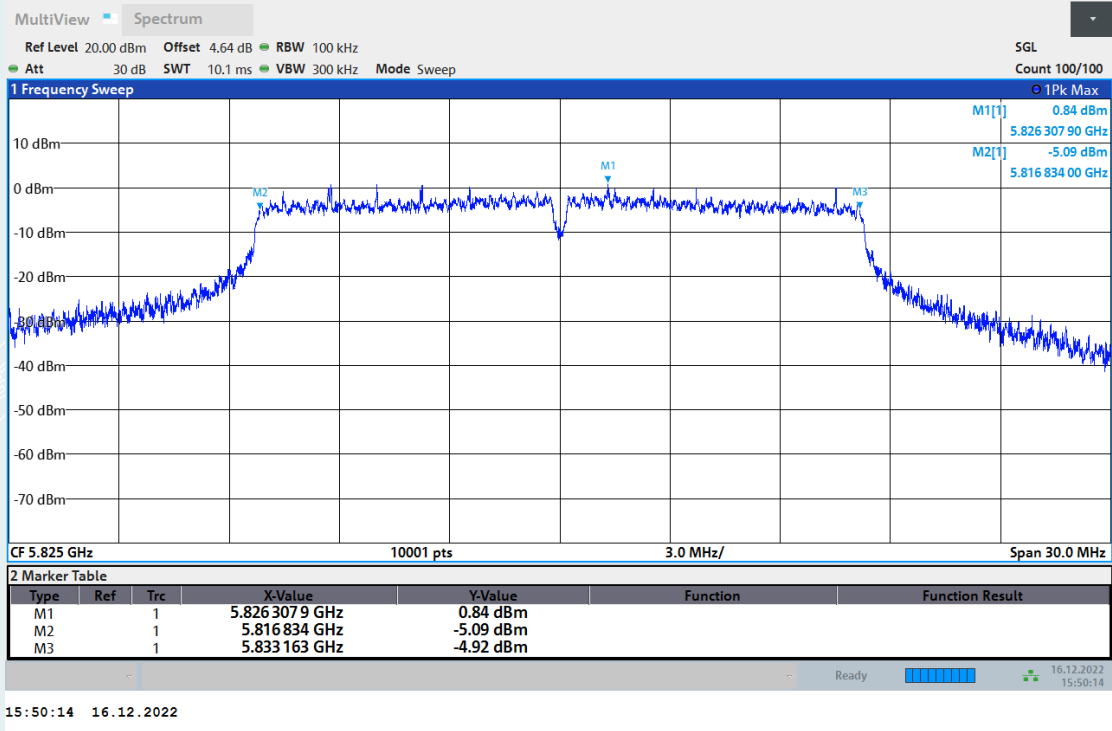
6dB Bandwidth NVNT a 5825MHz Ant1



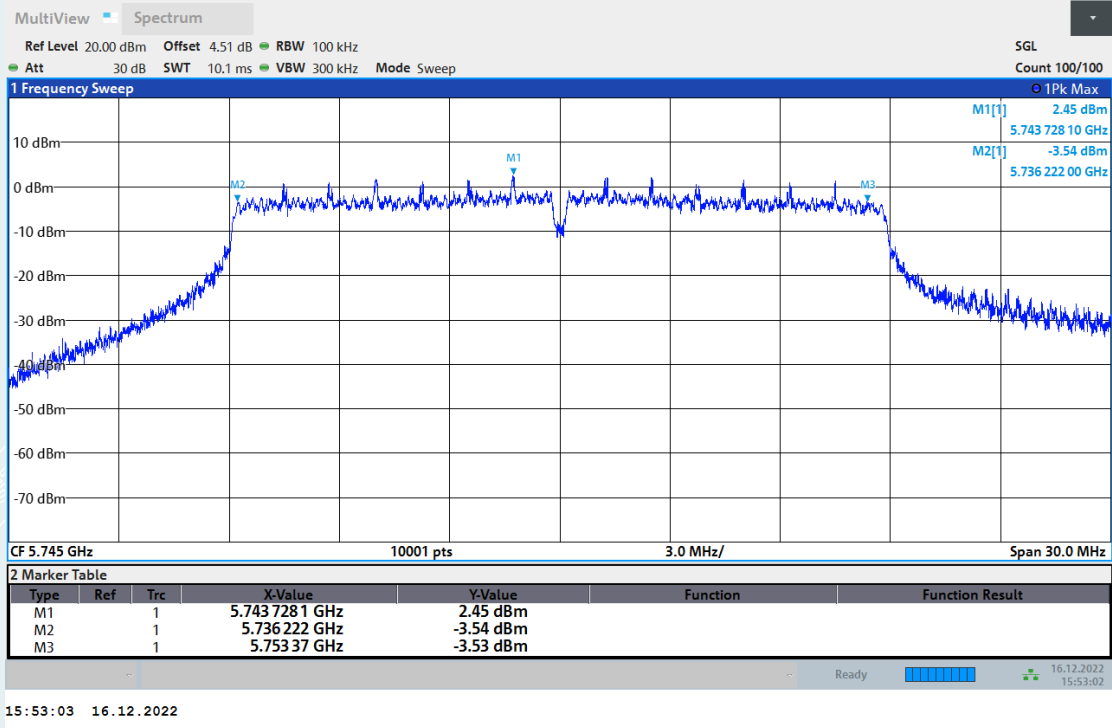
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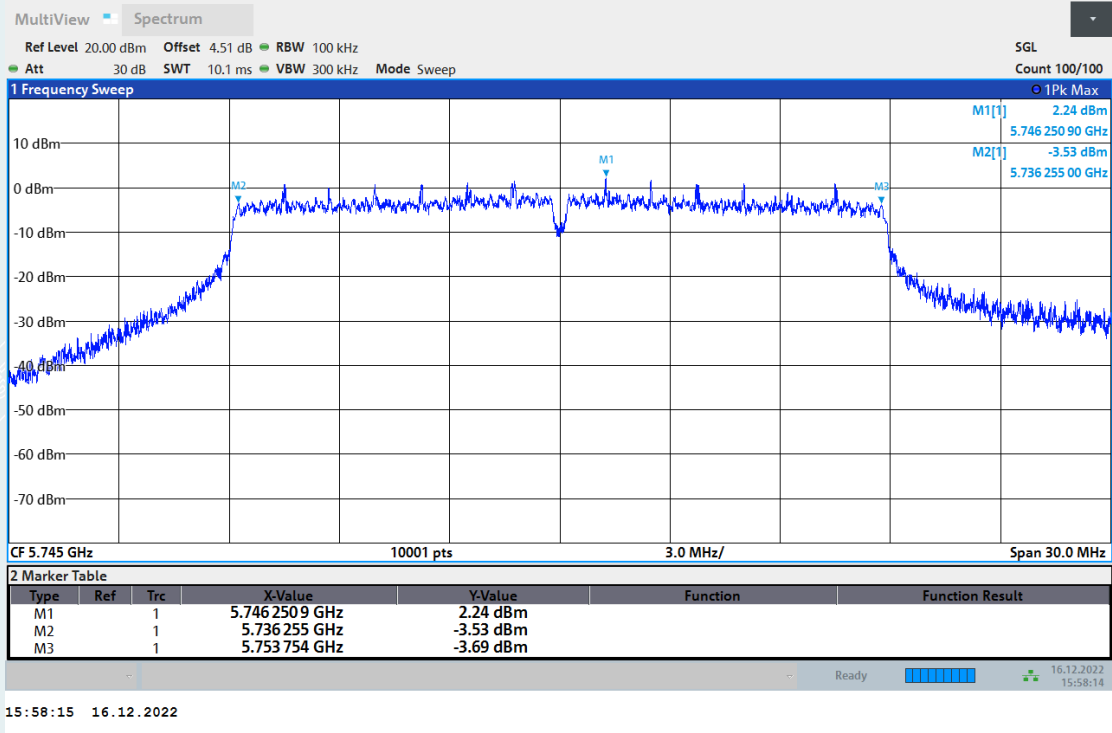
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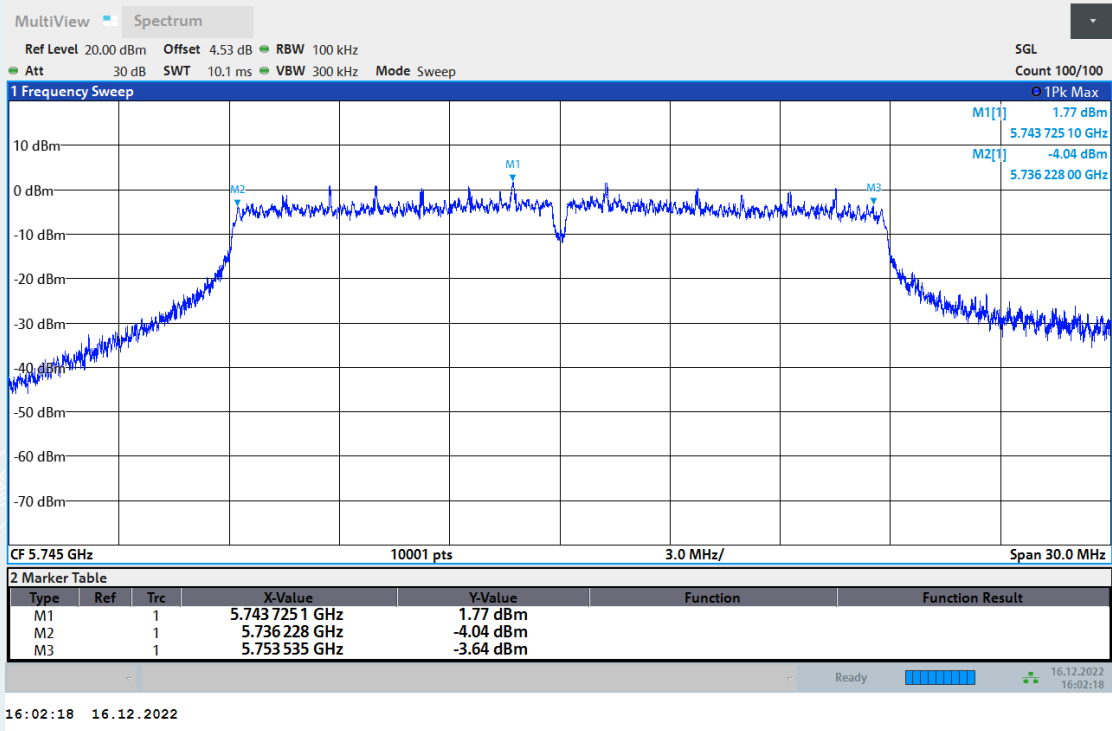
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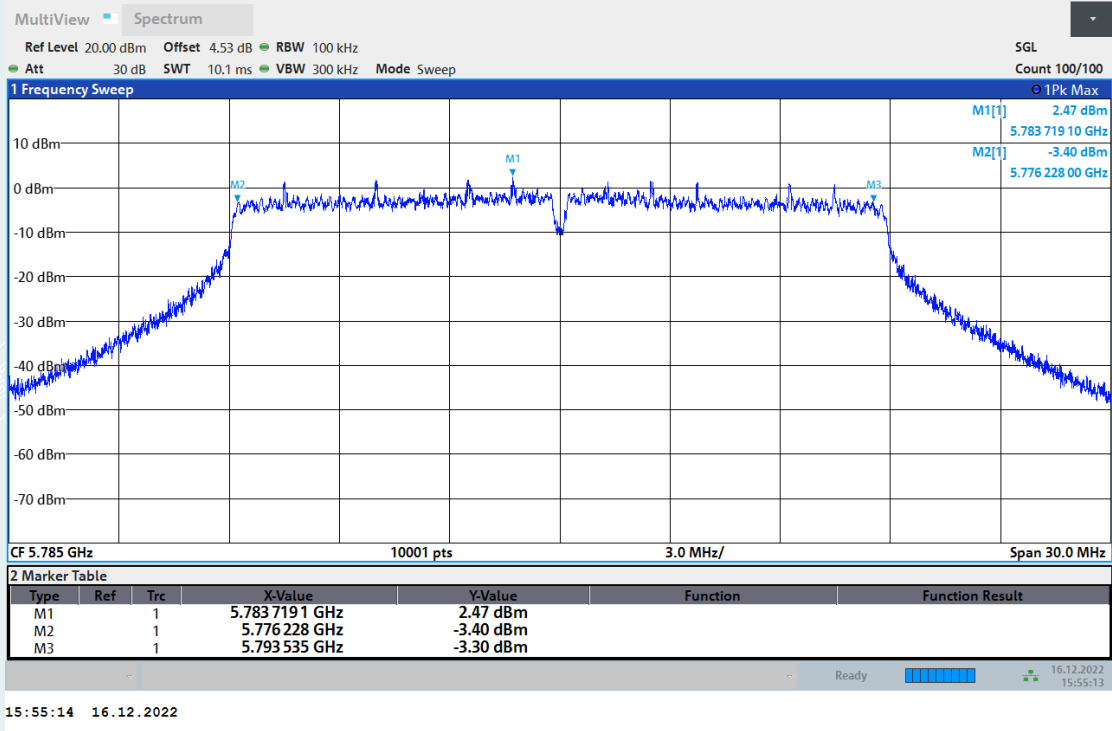
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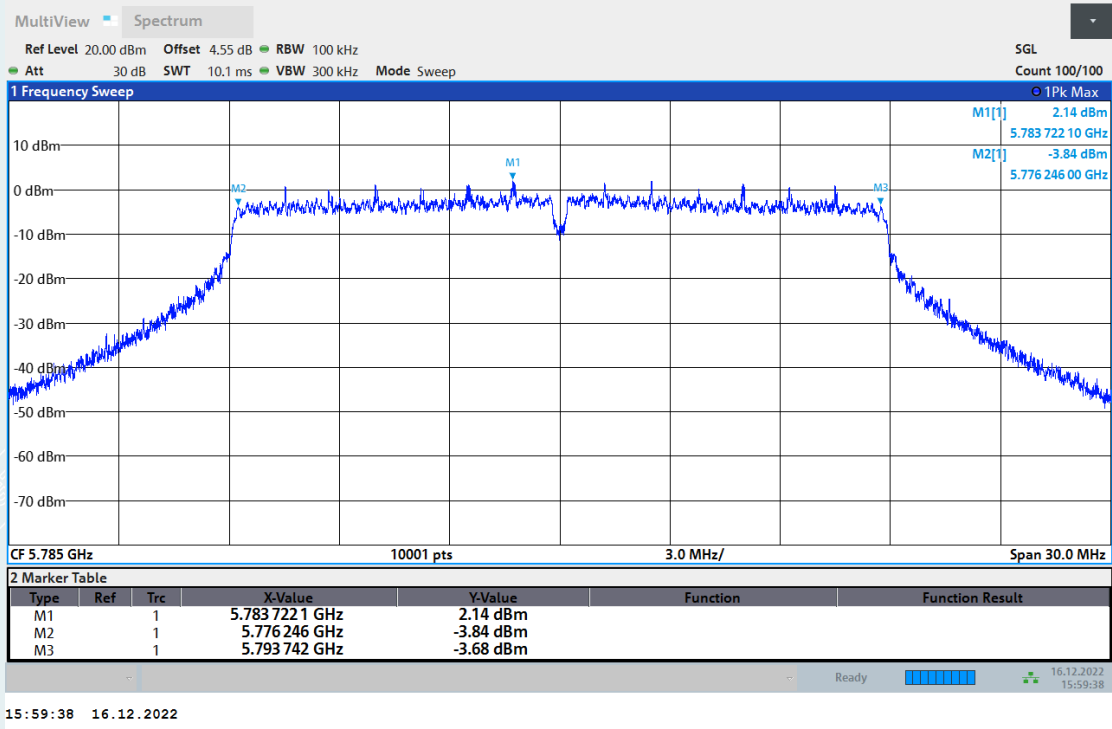
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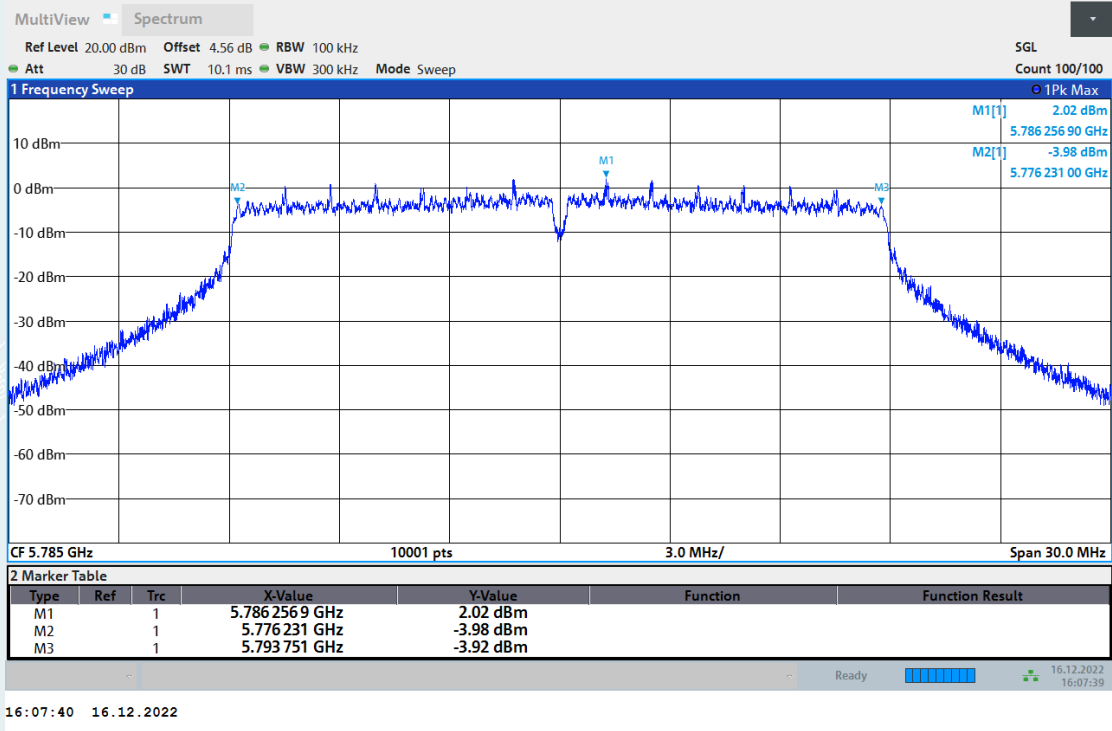
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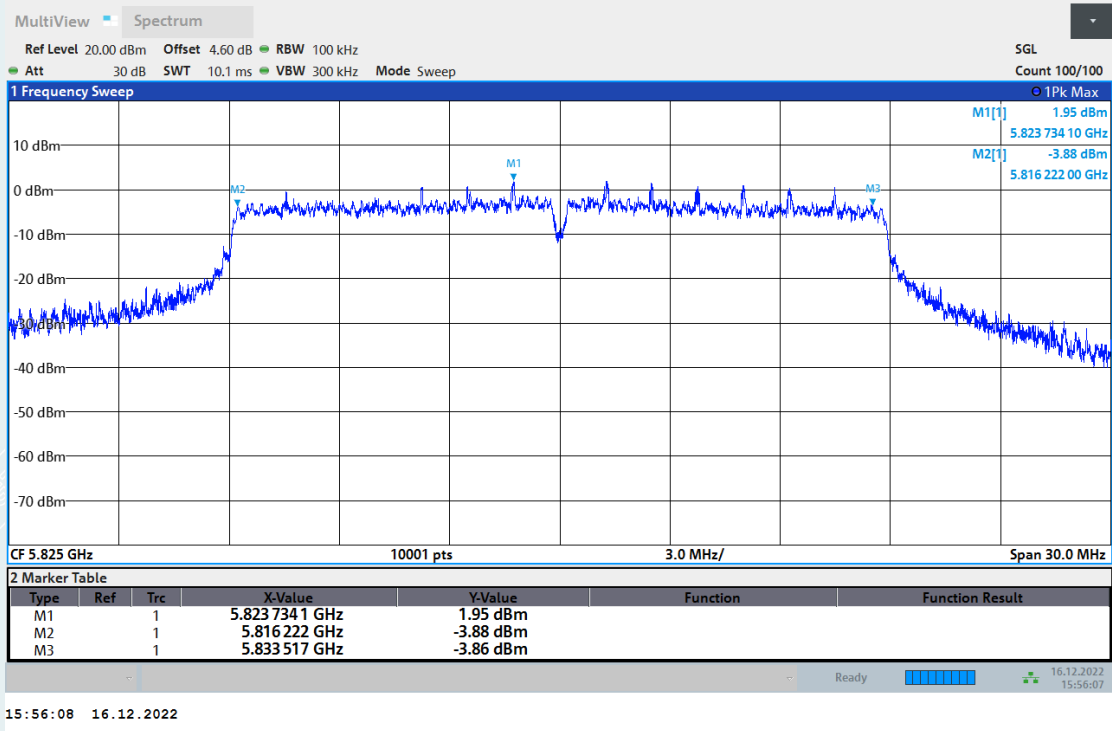
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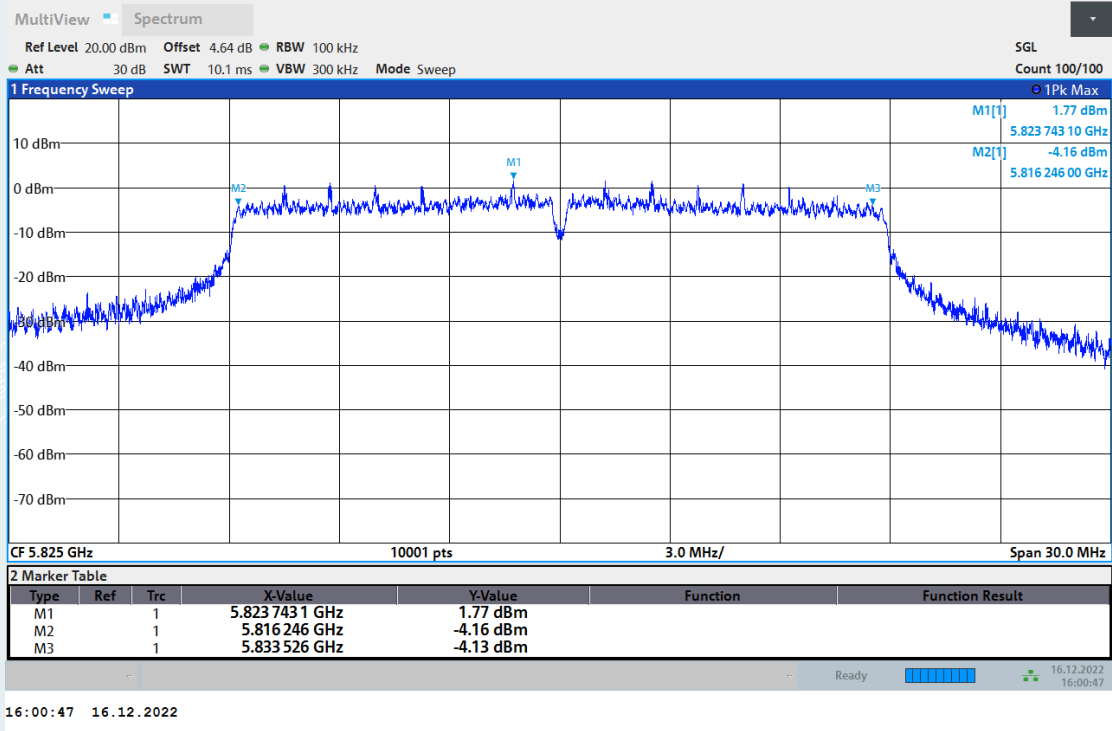
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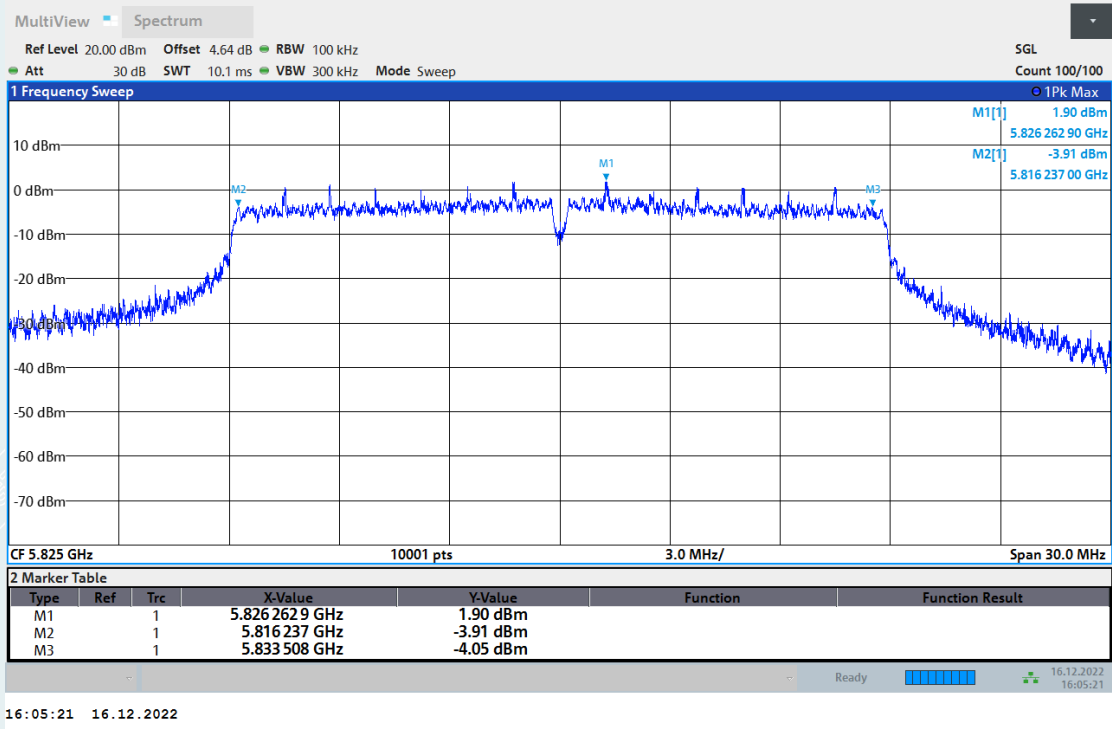
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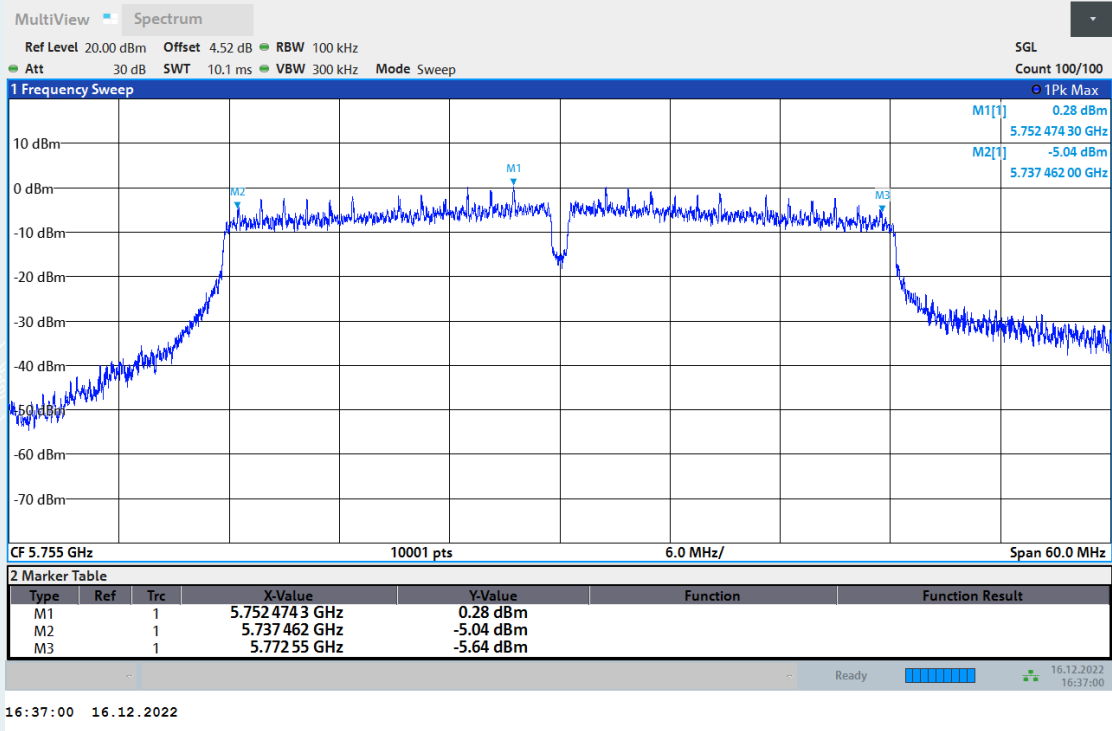


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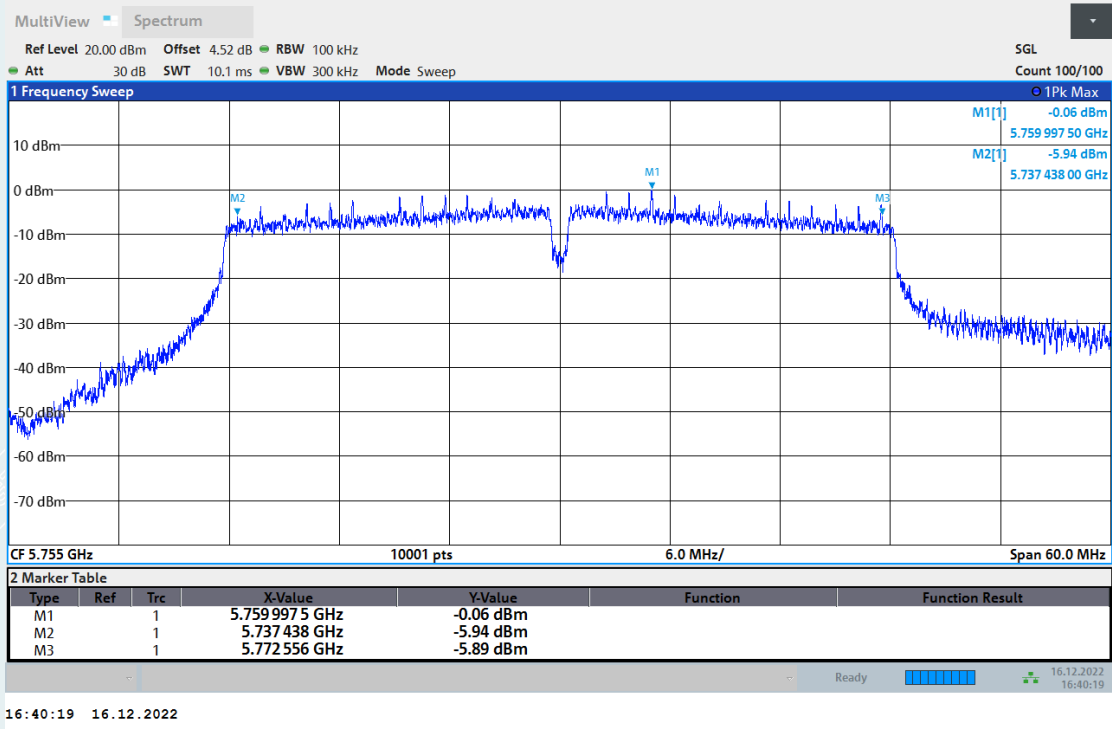




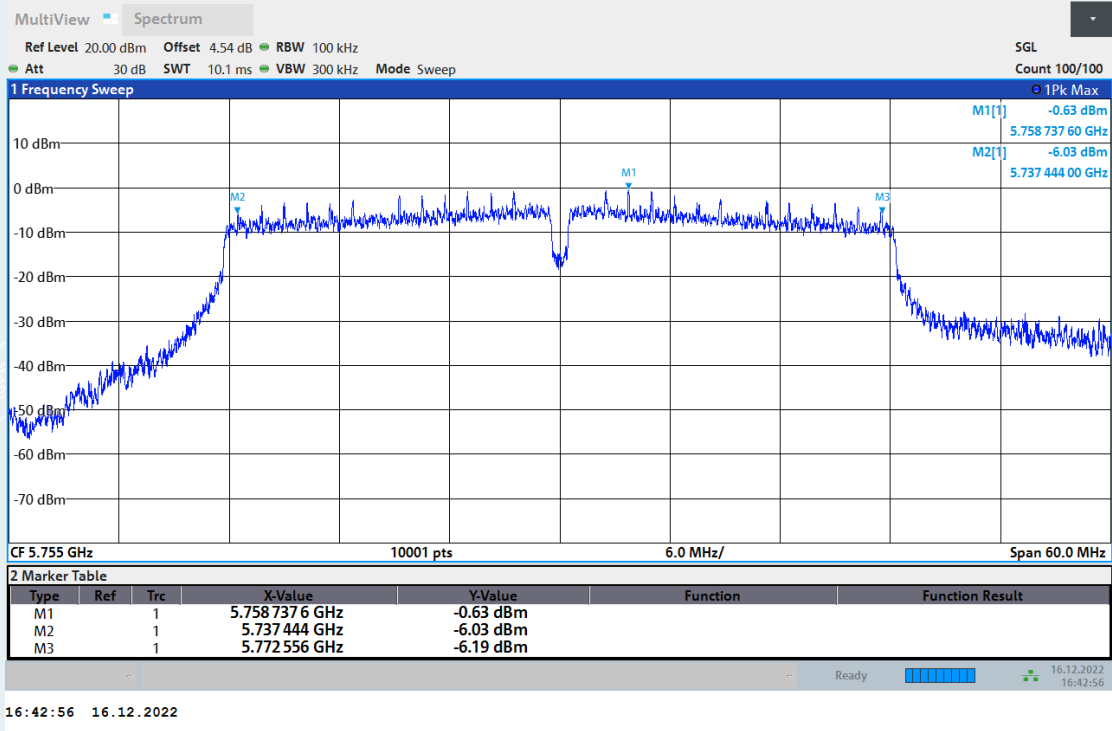
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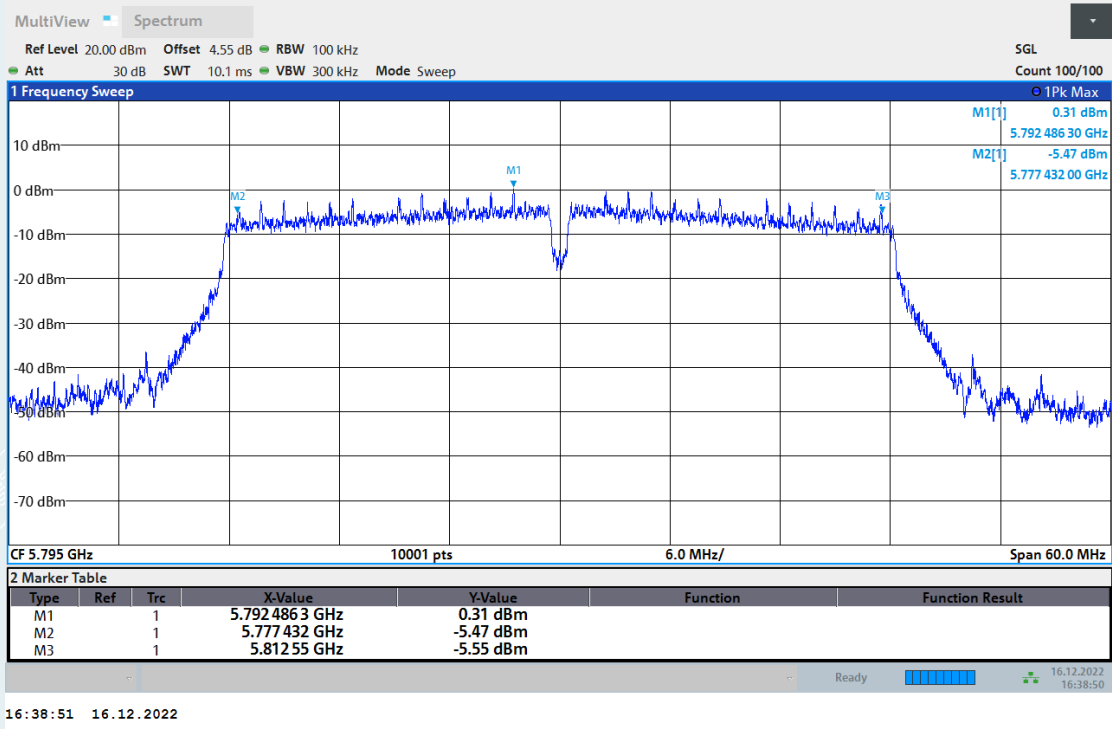
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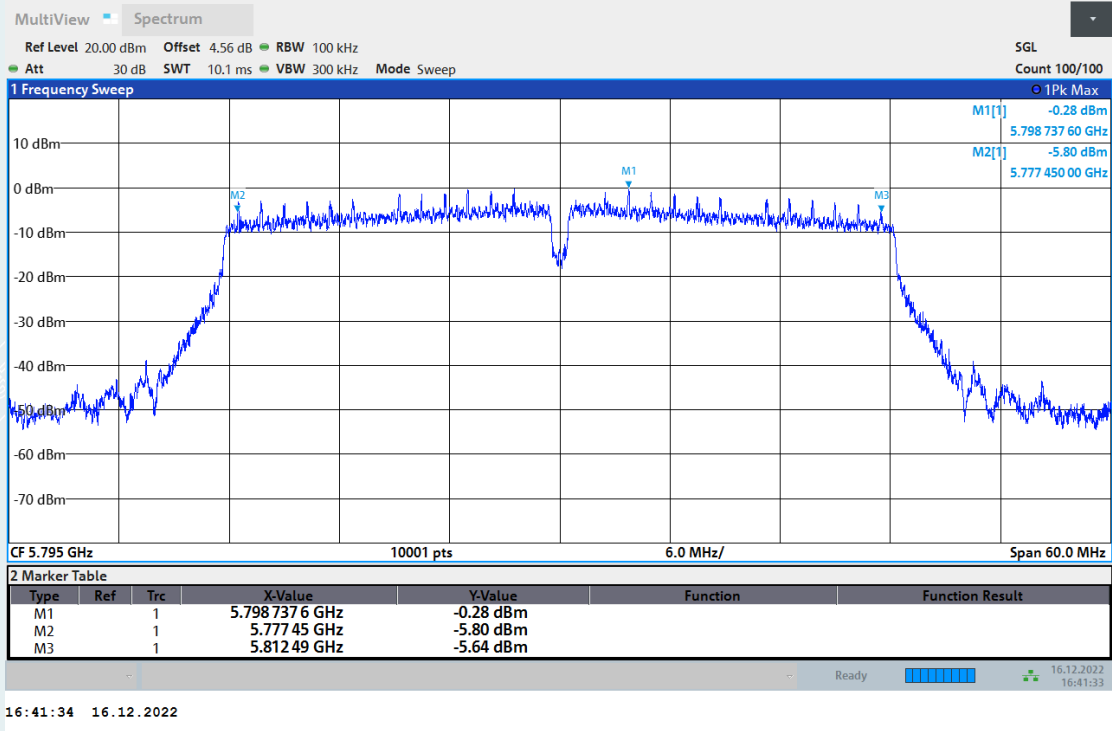
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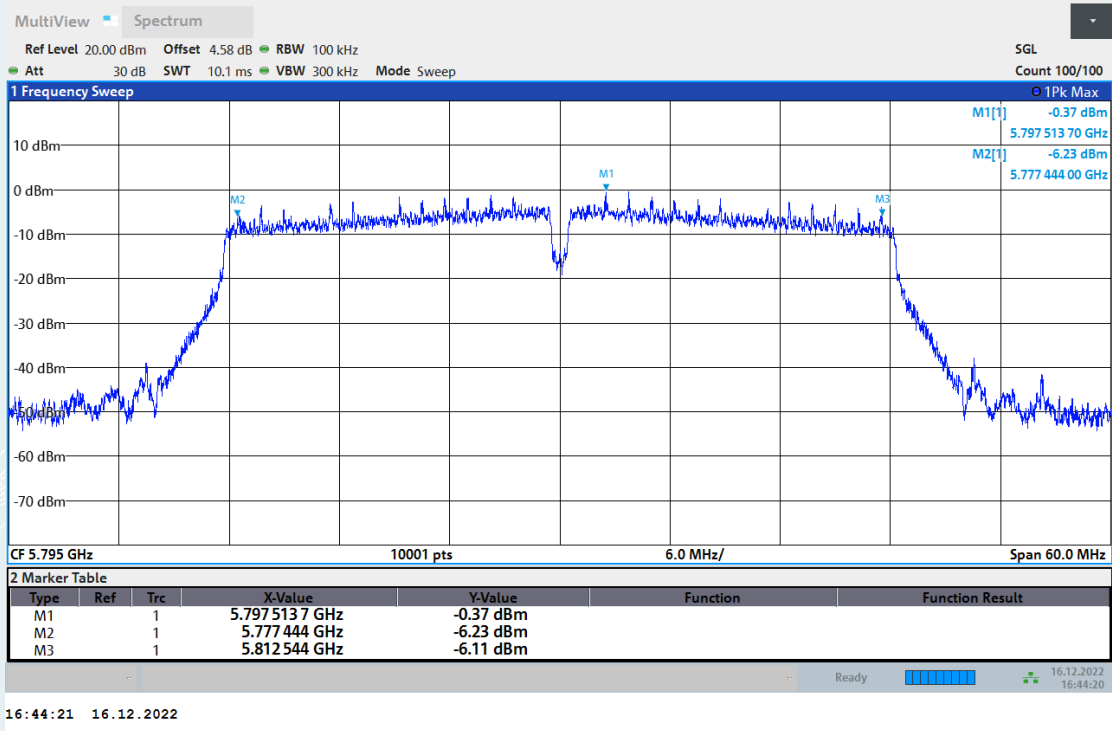
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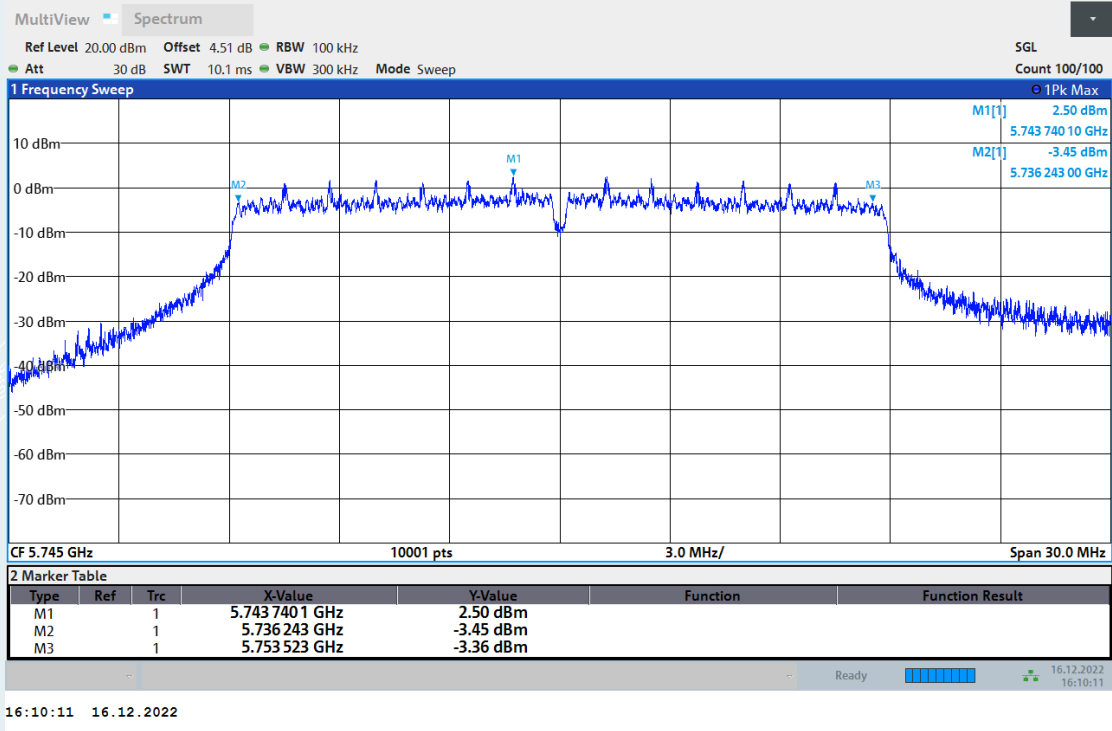
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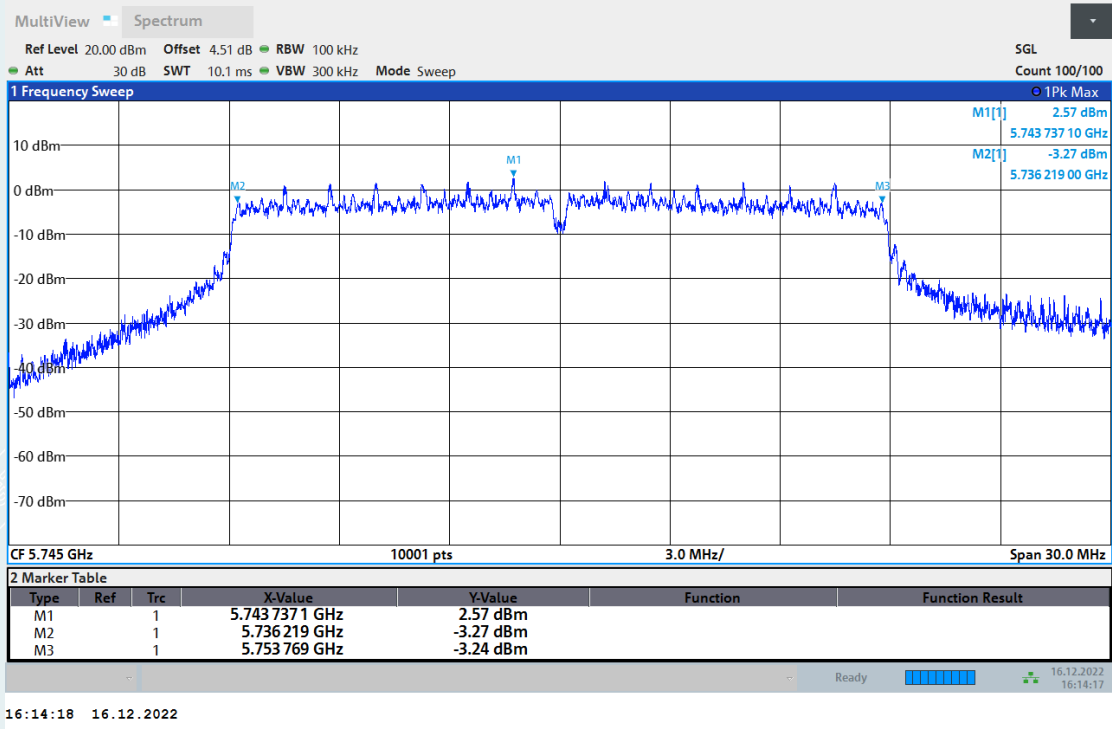
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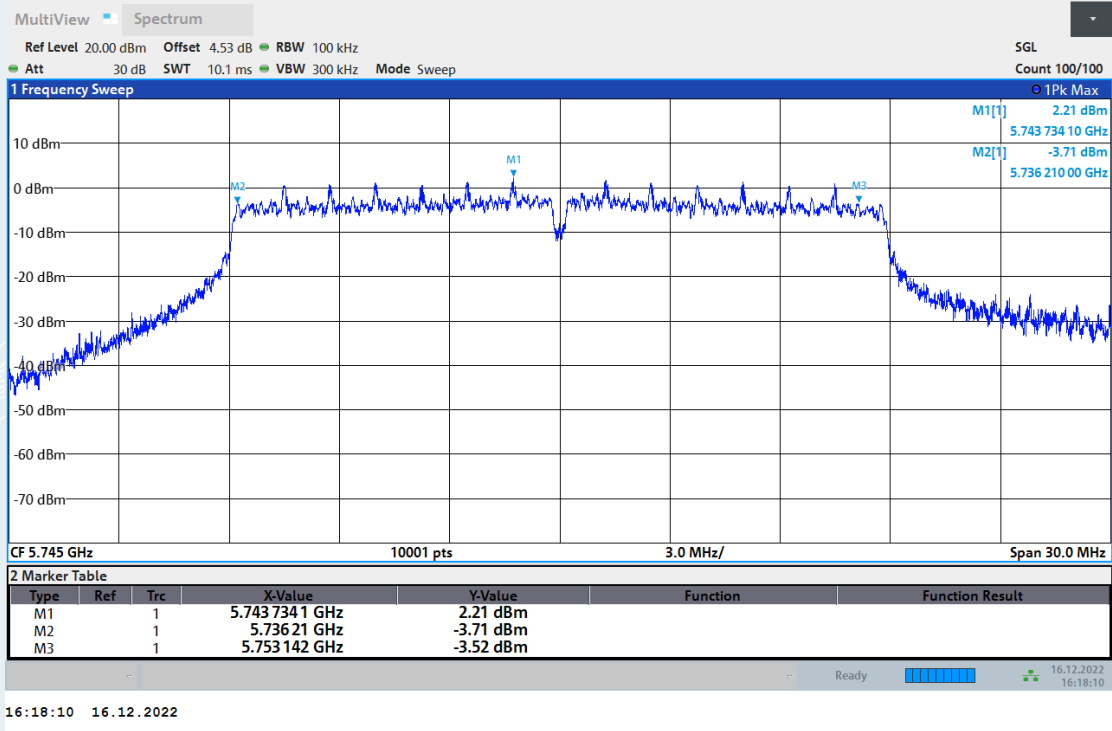
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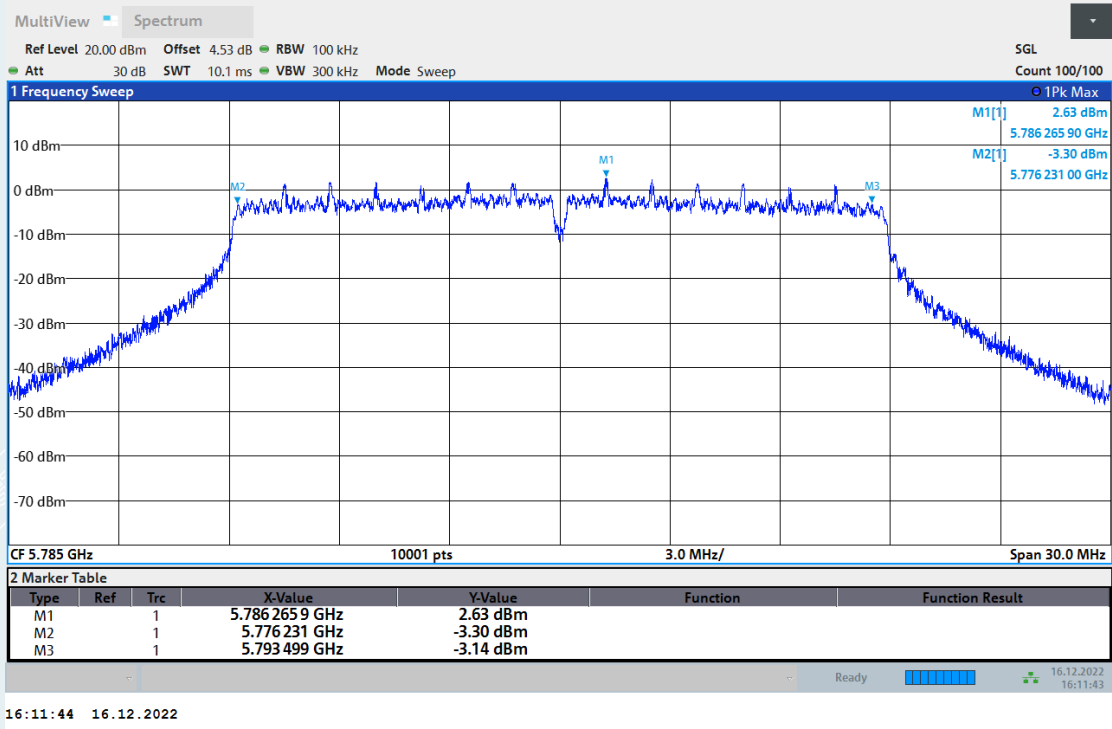
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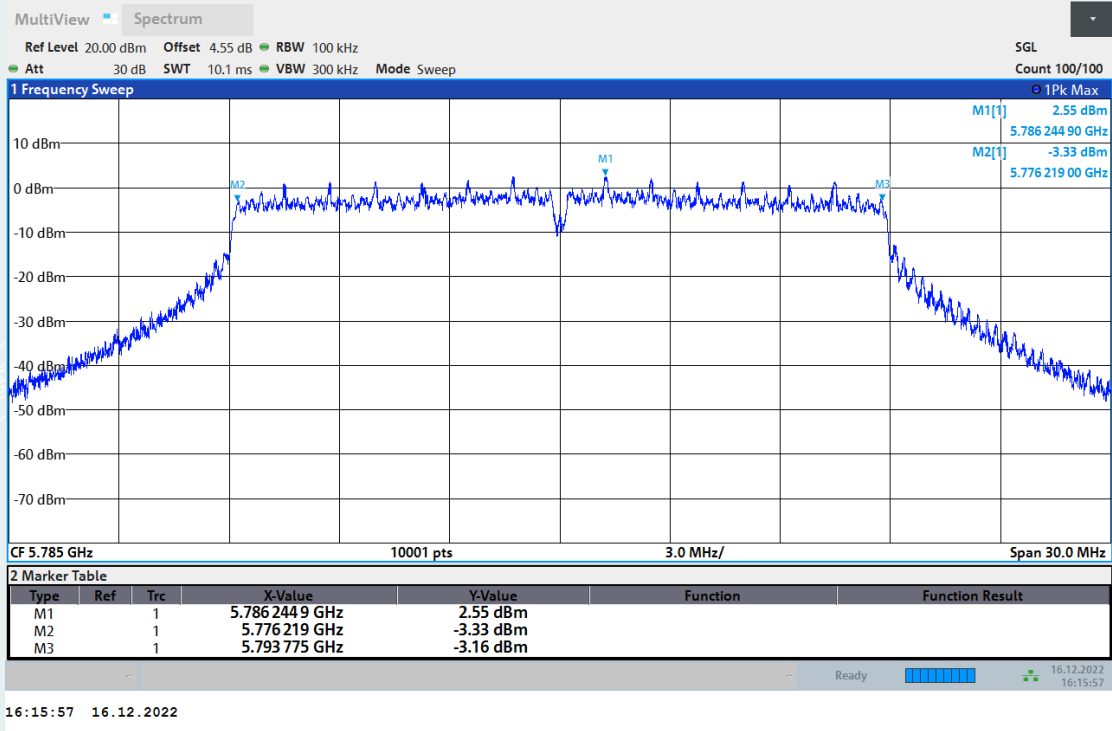
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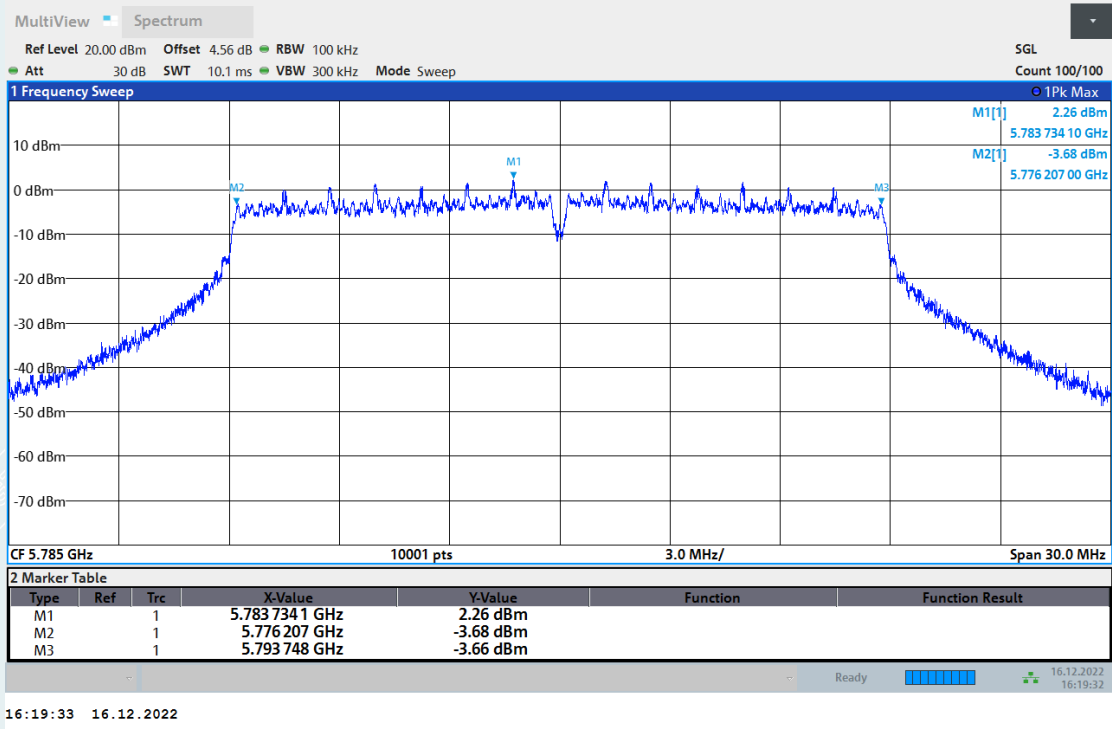
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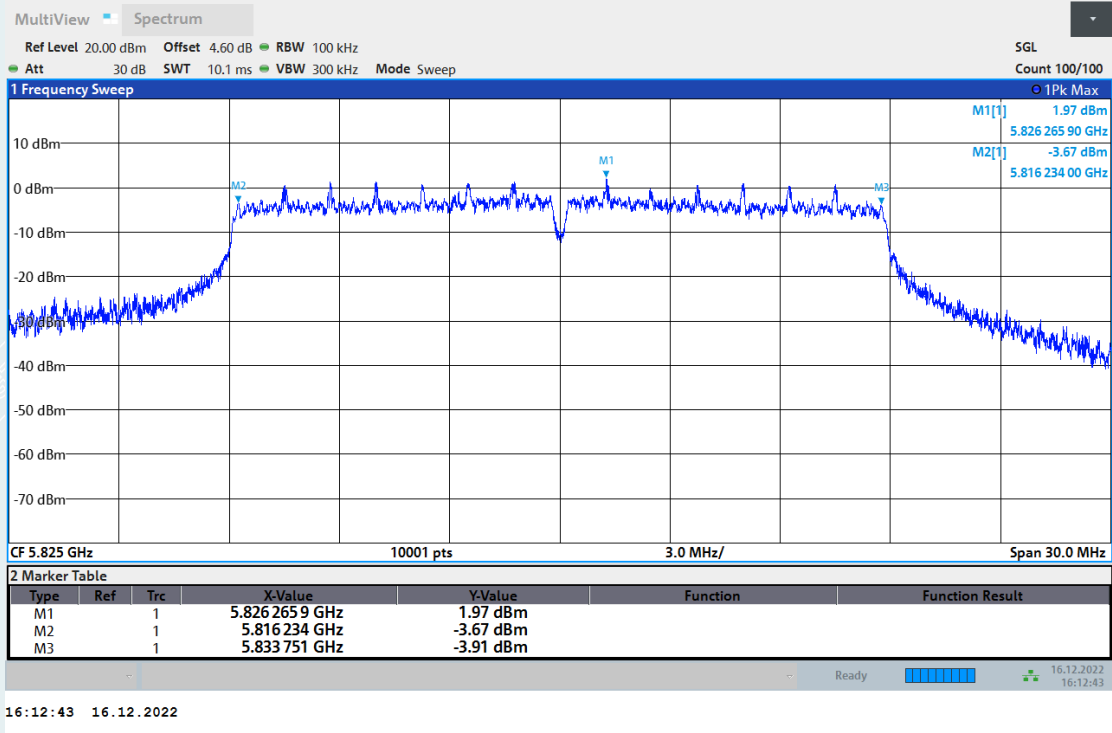


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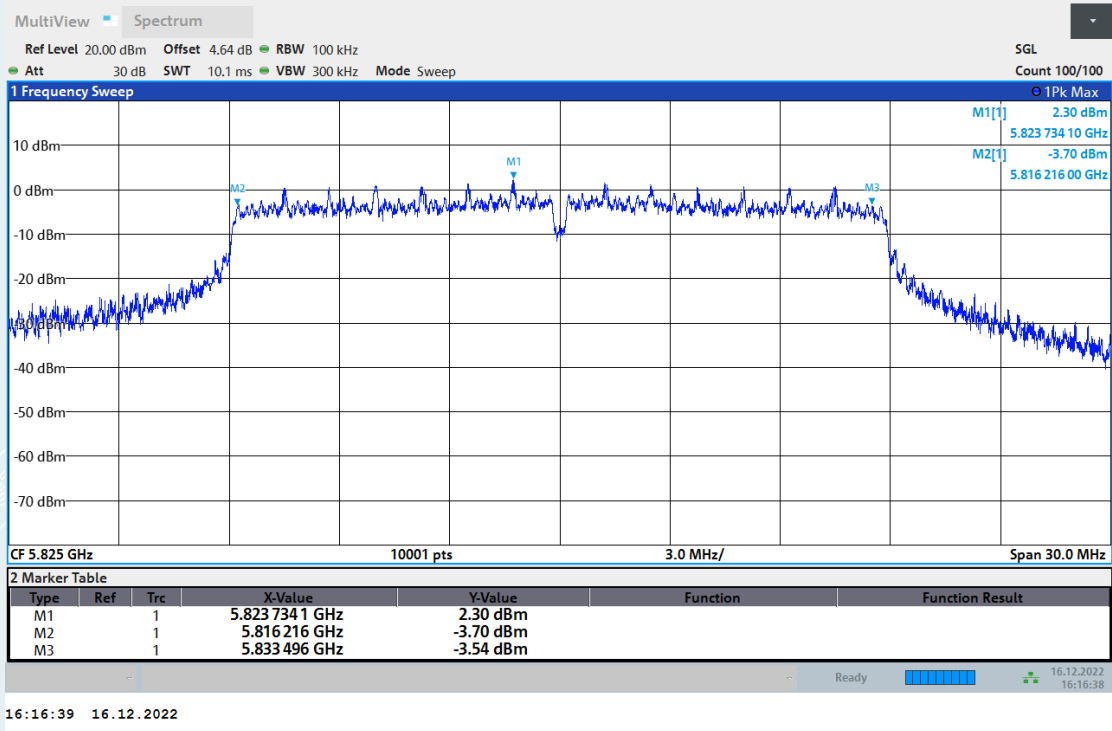




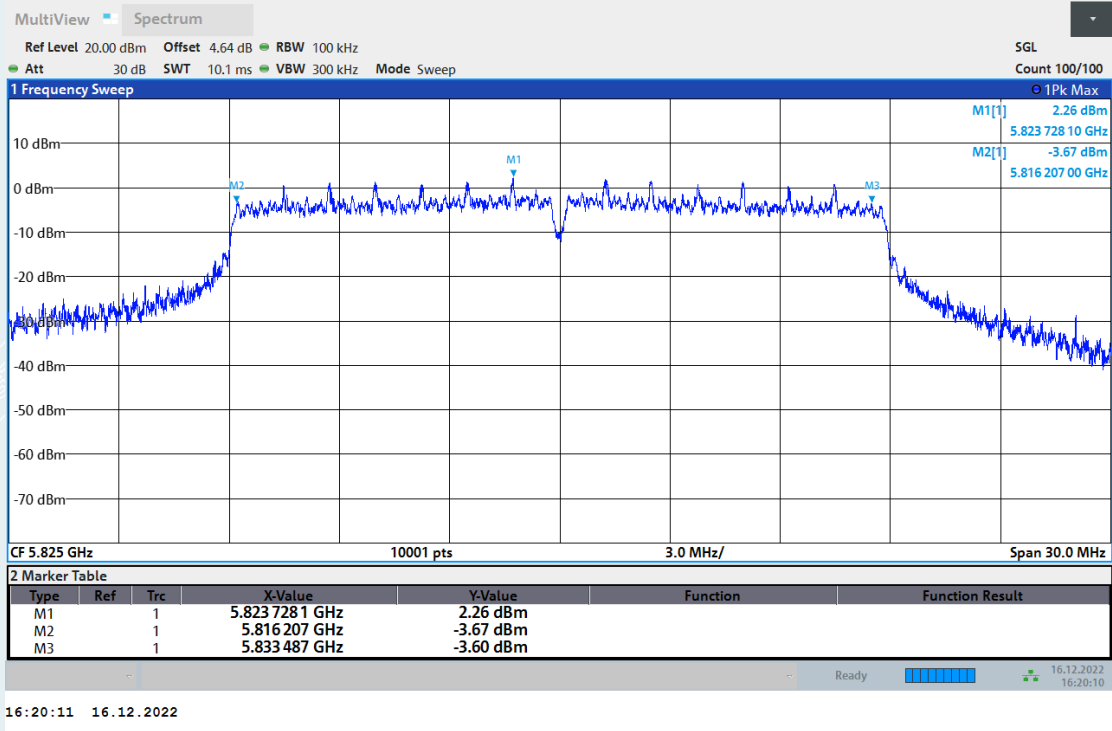
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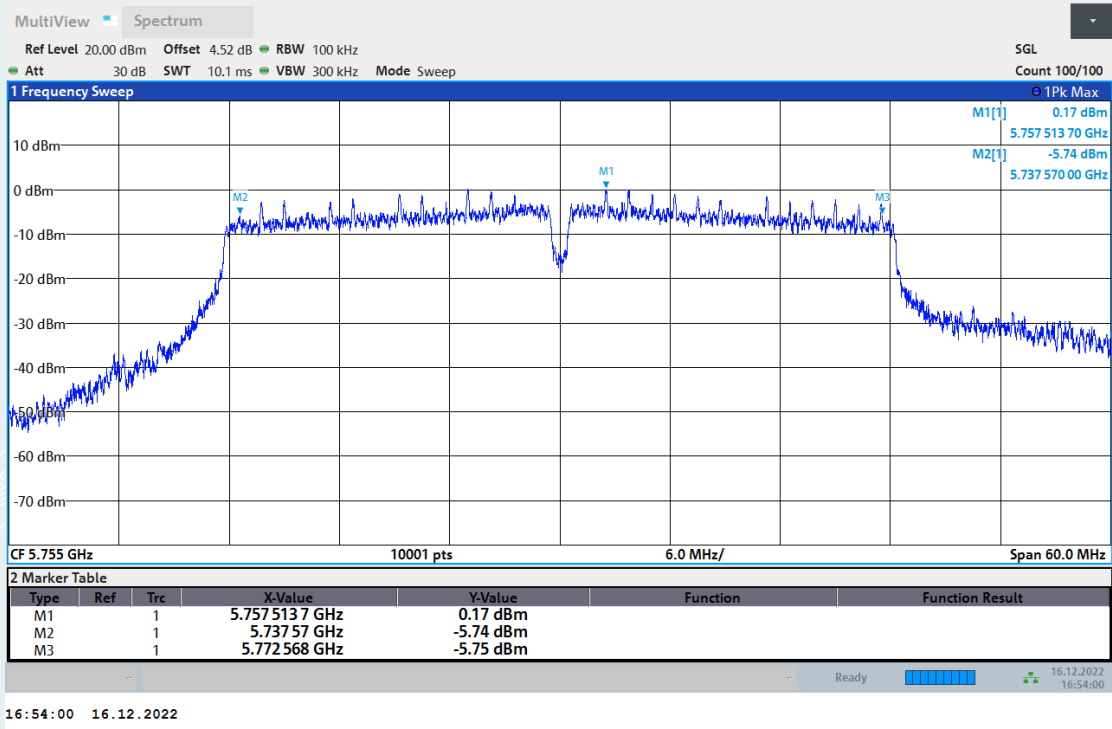
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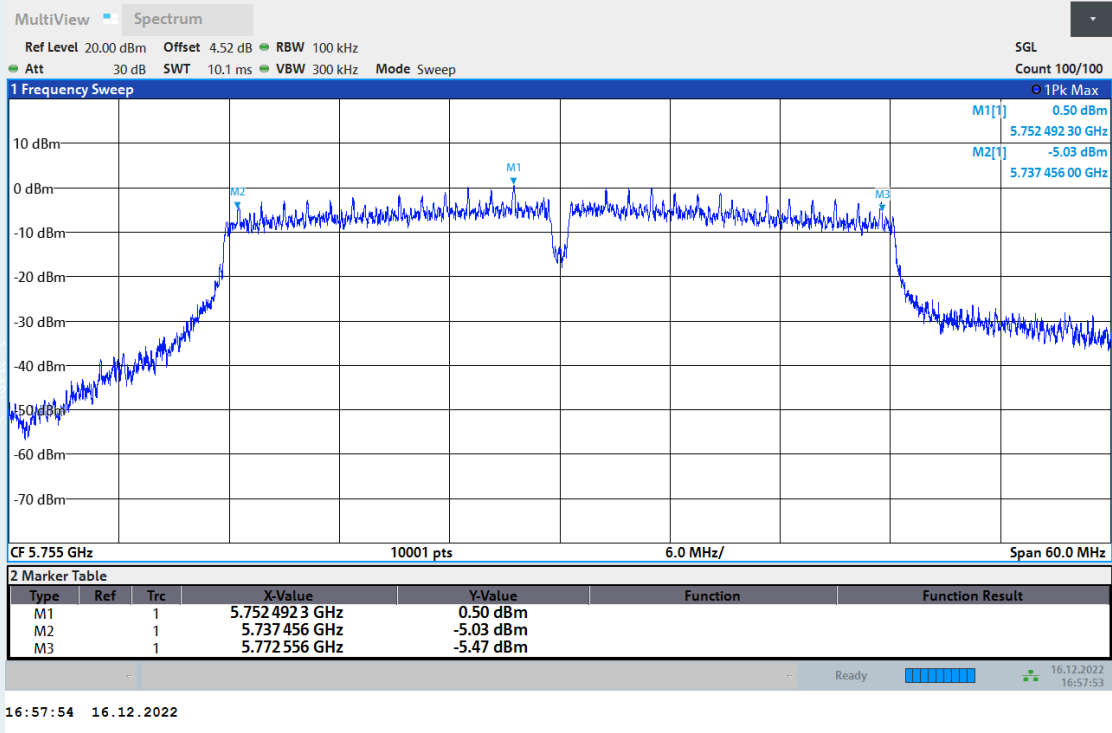
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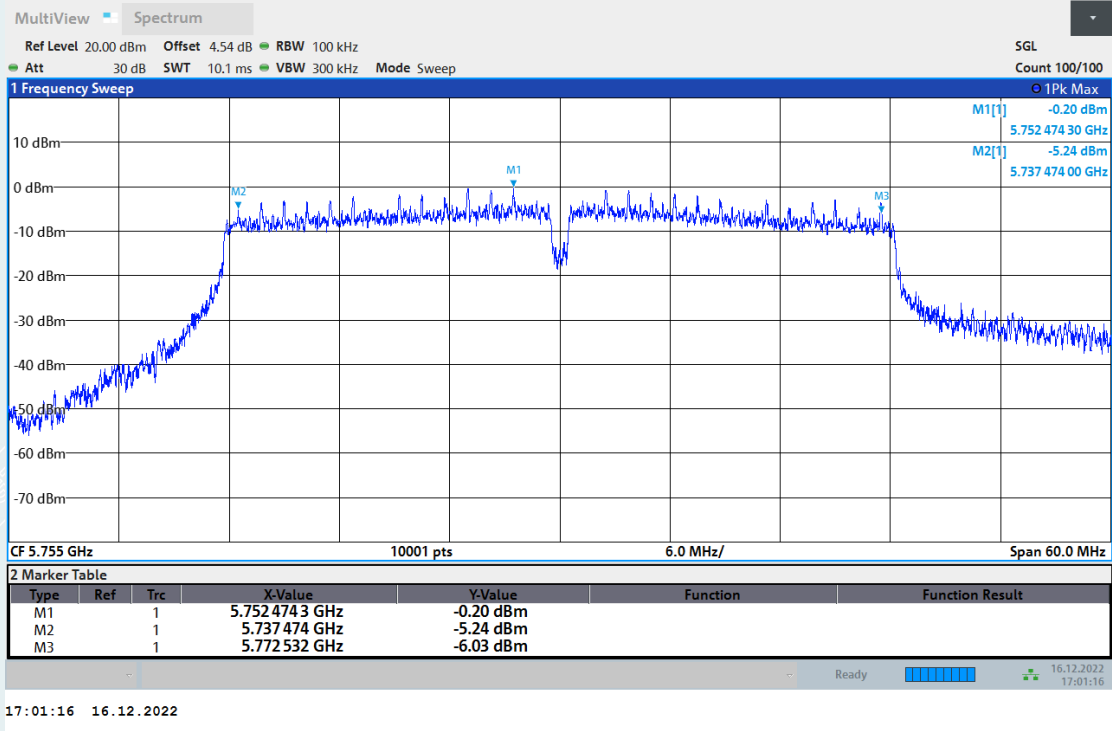
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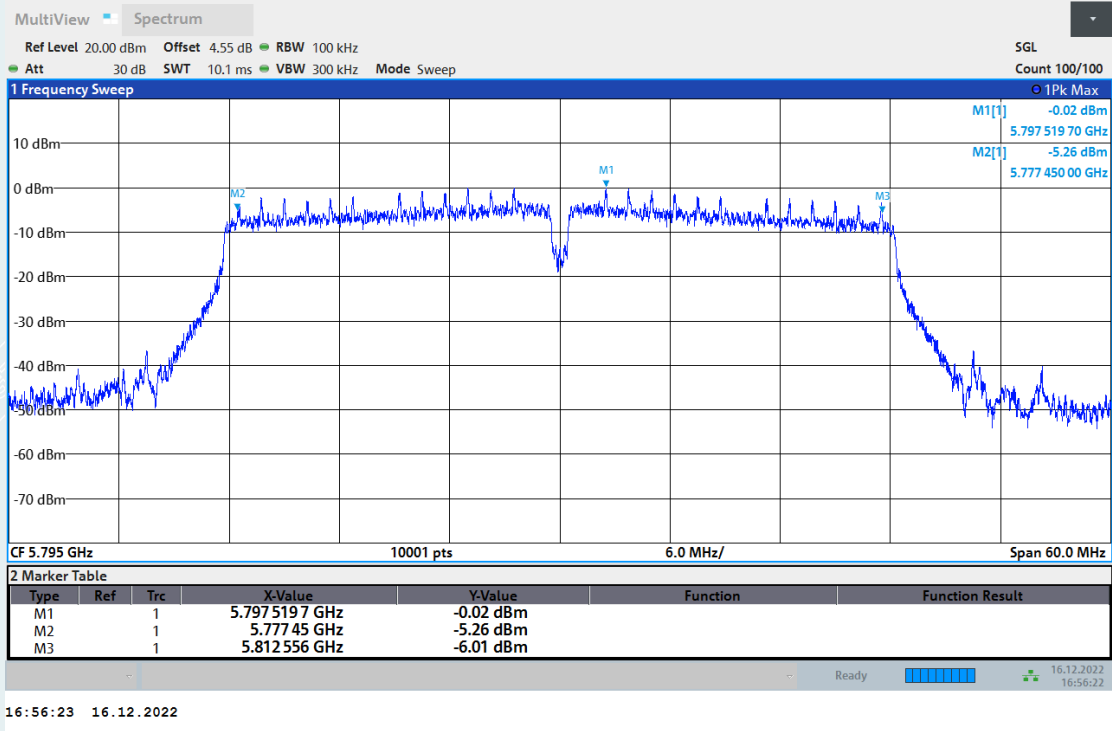
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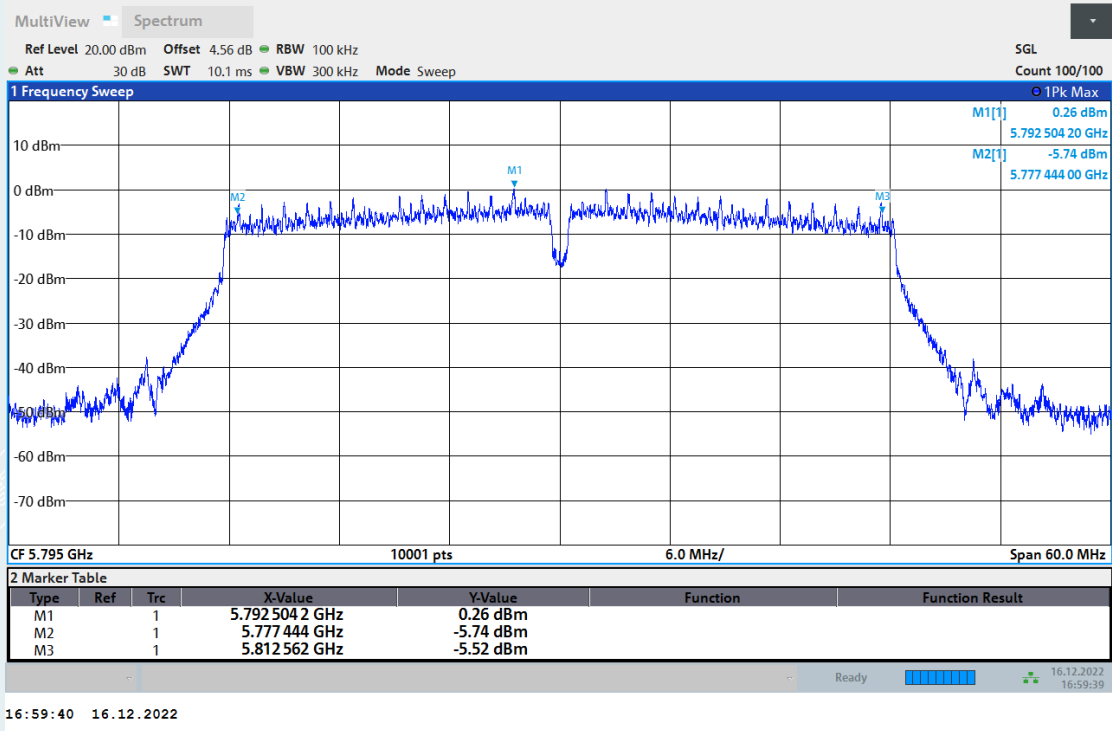
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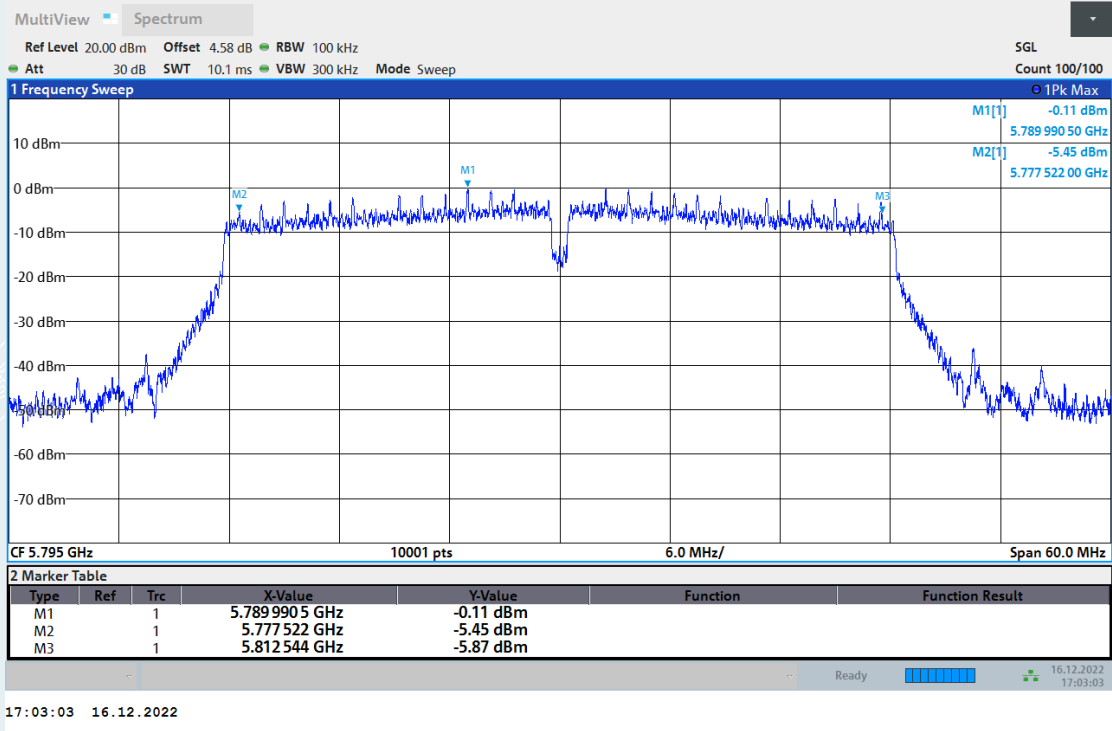
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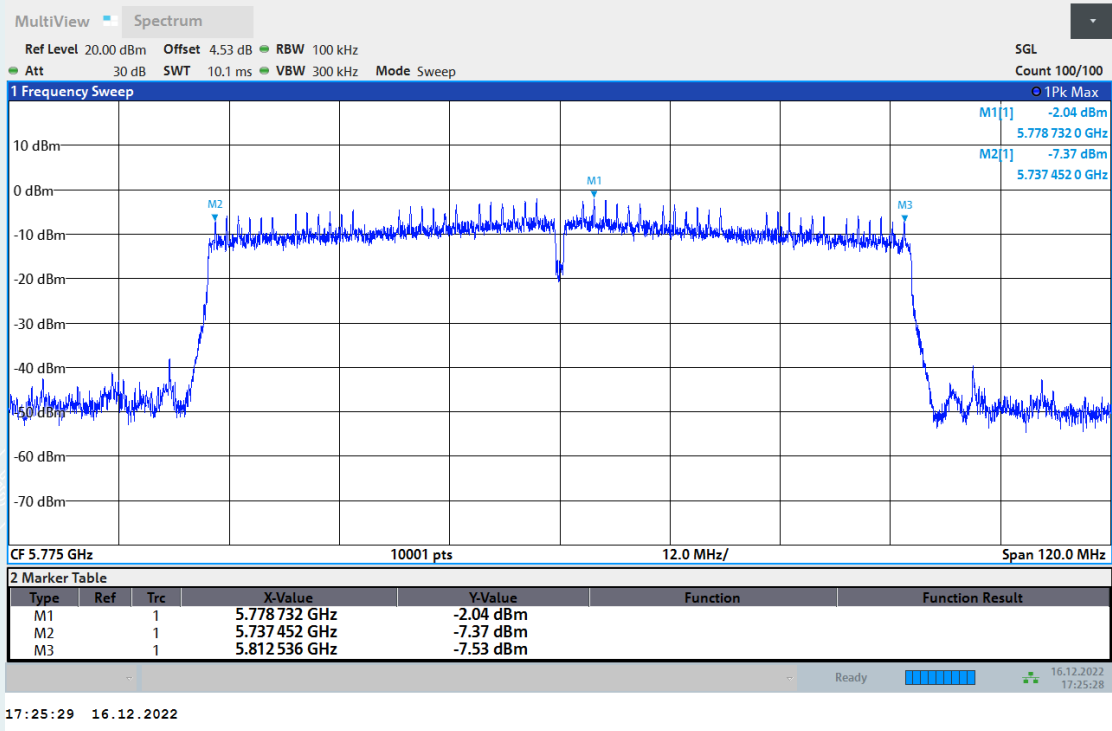
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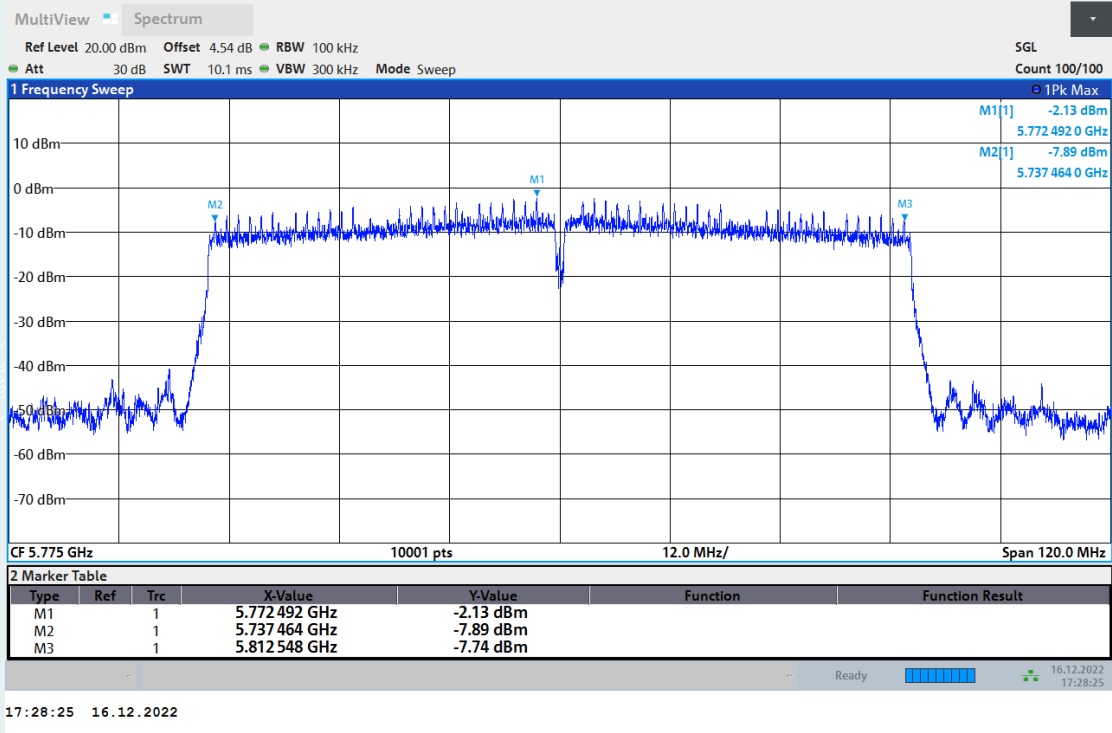
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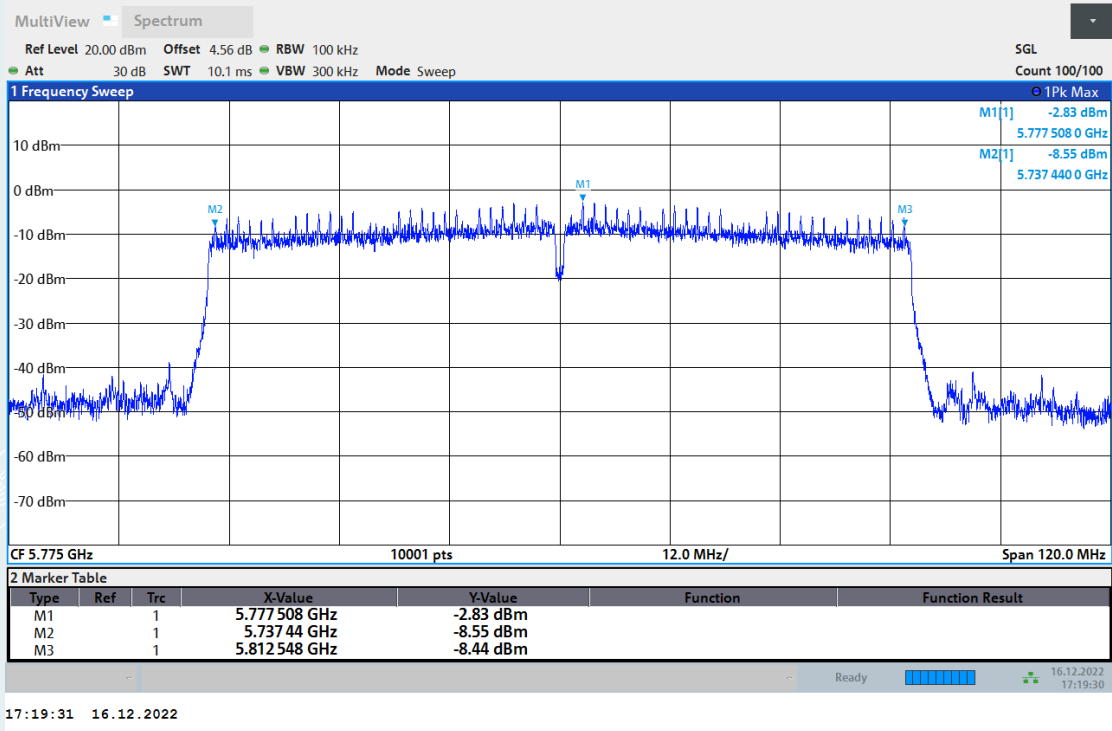
6dB Bandwidth NVNT ac80 5775MHz Ant1



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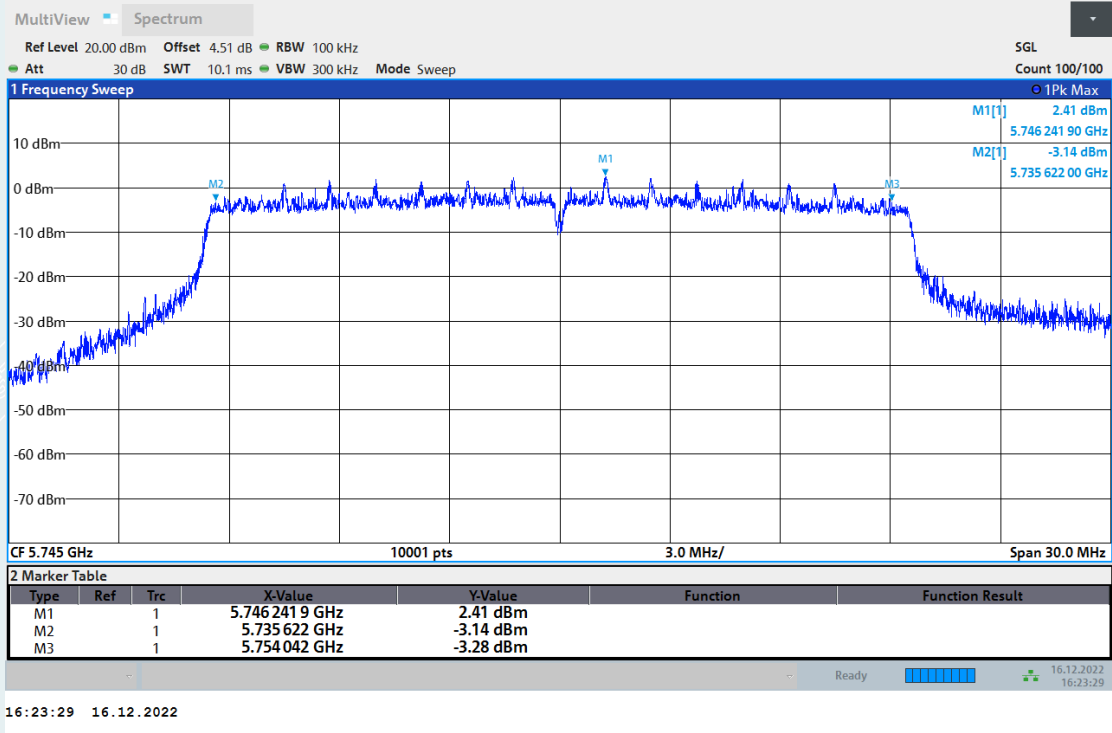


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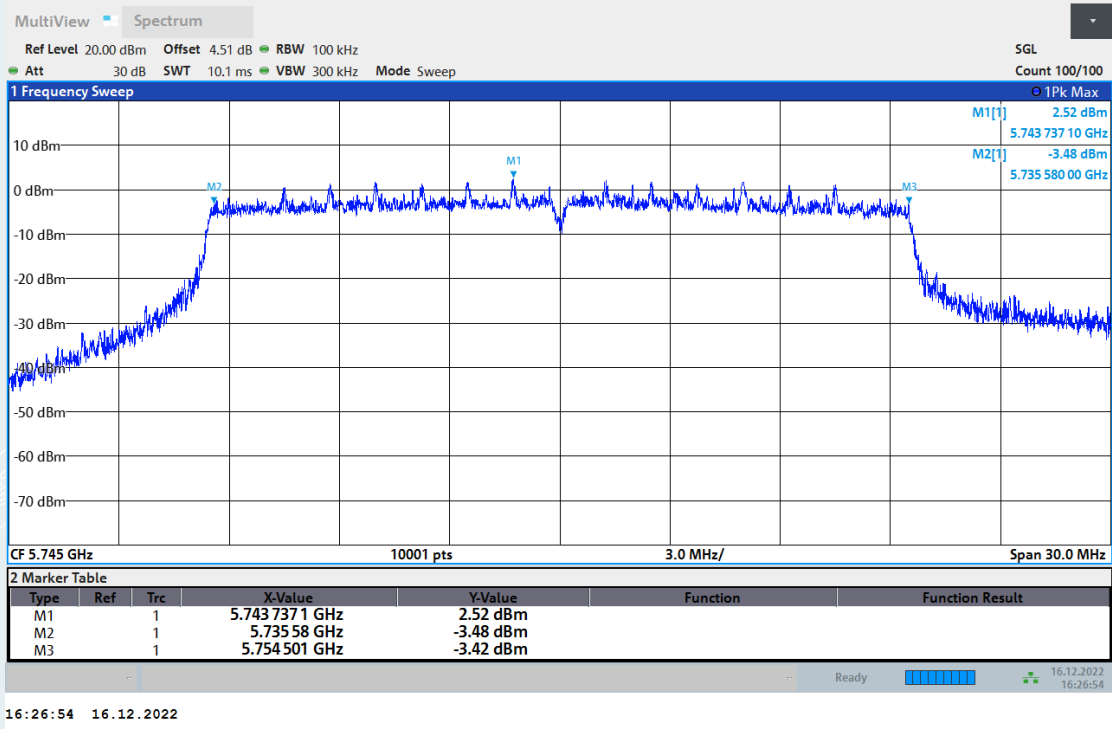




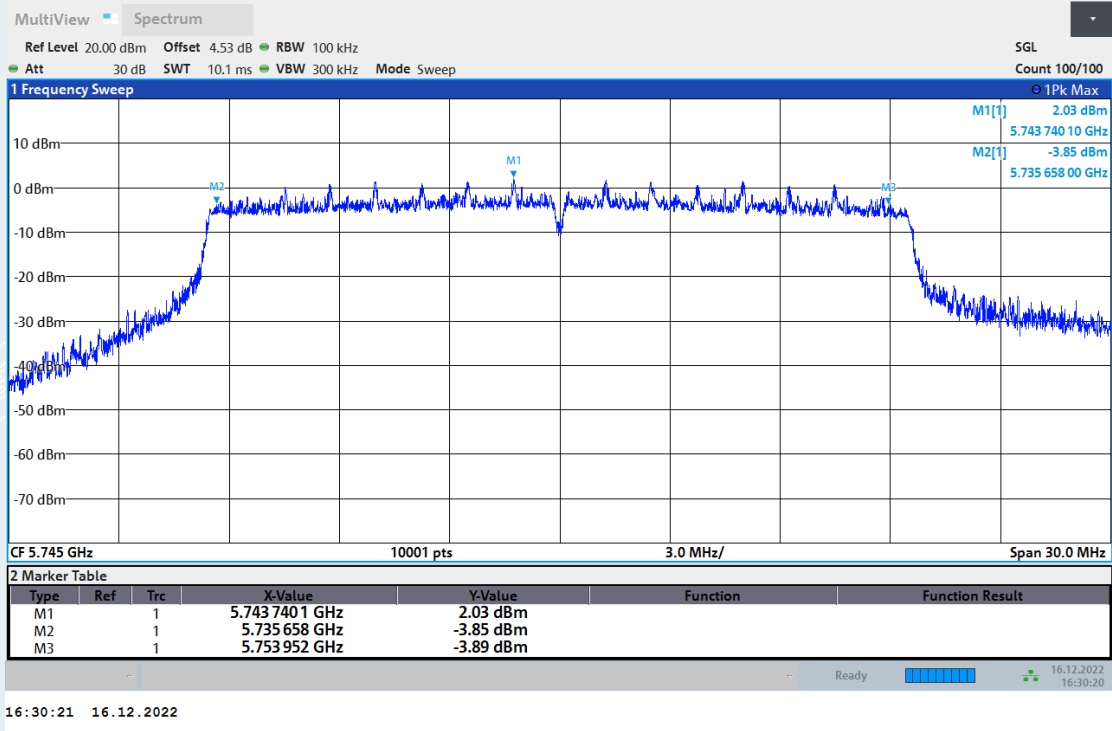
6dB Bandwidth NVNT ax20 5745MHz Ant1



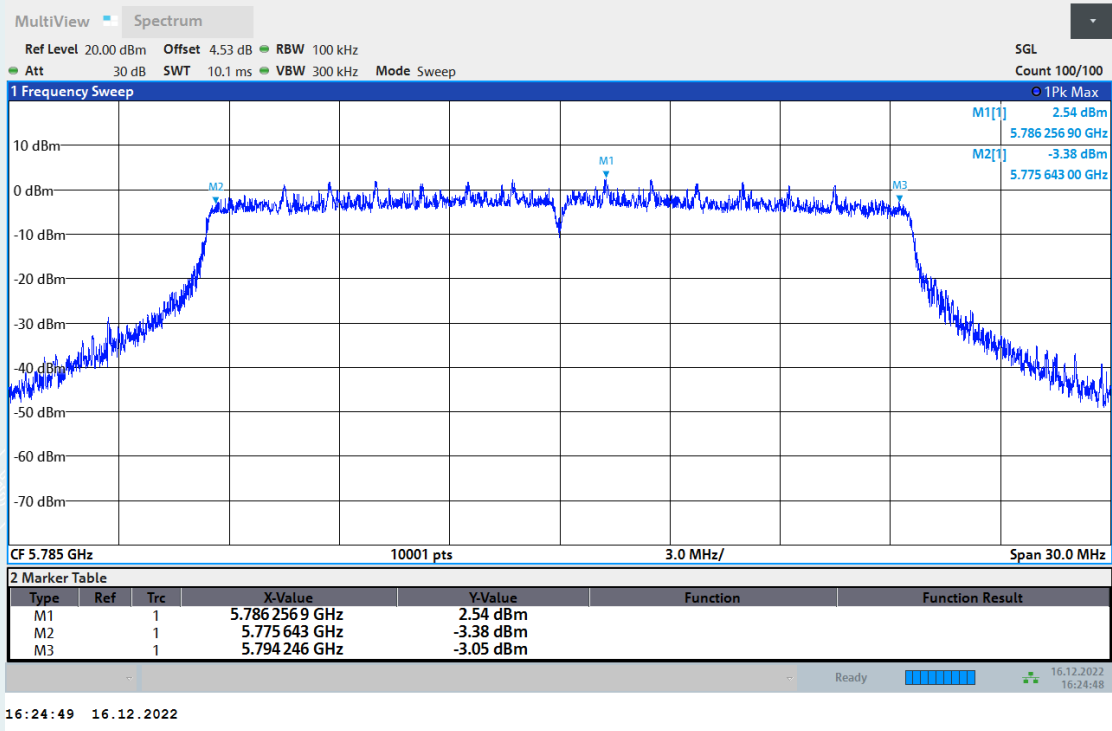
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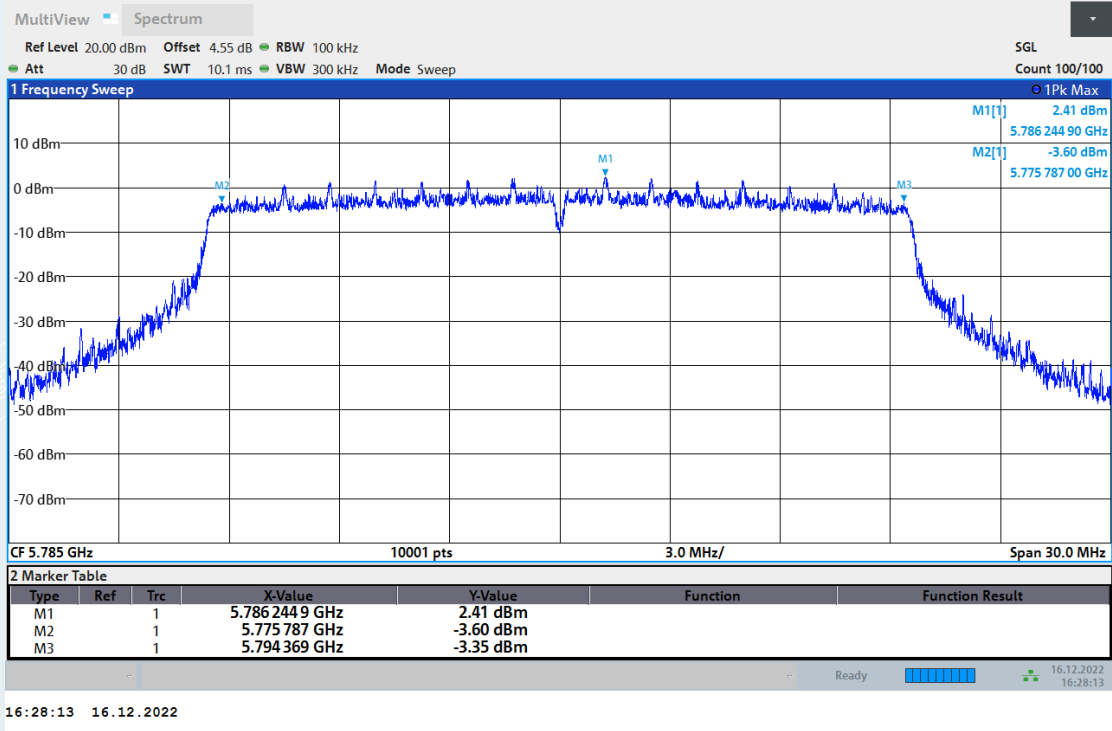
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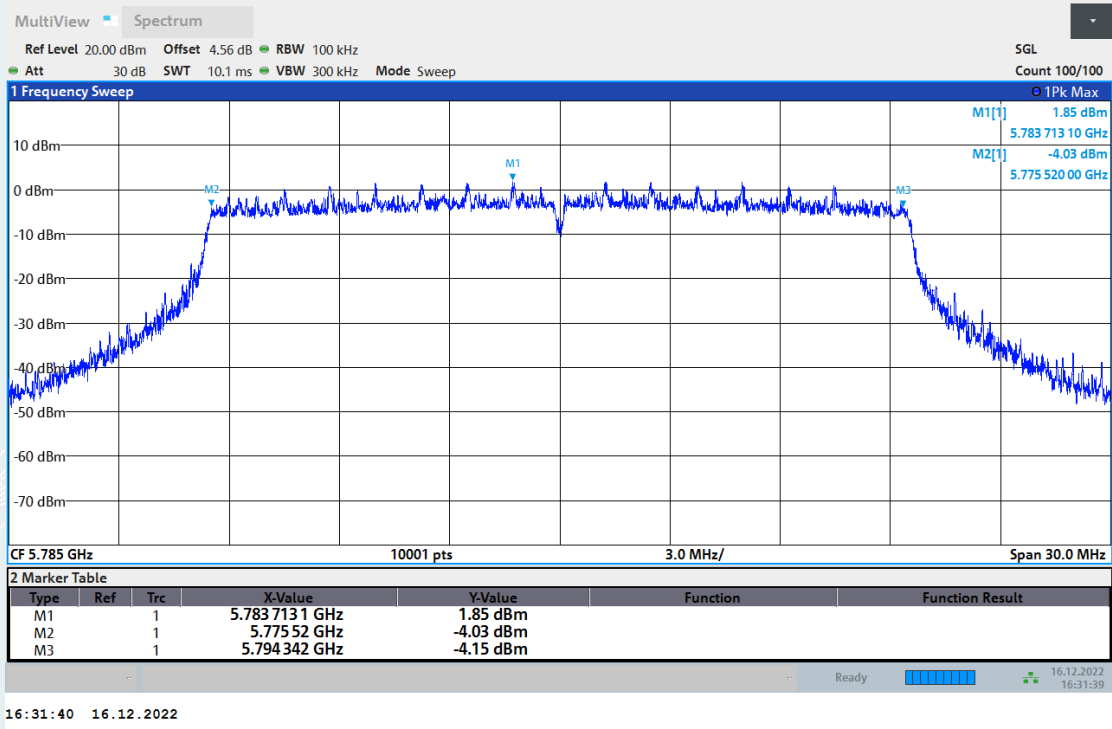
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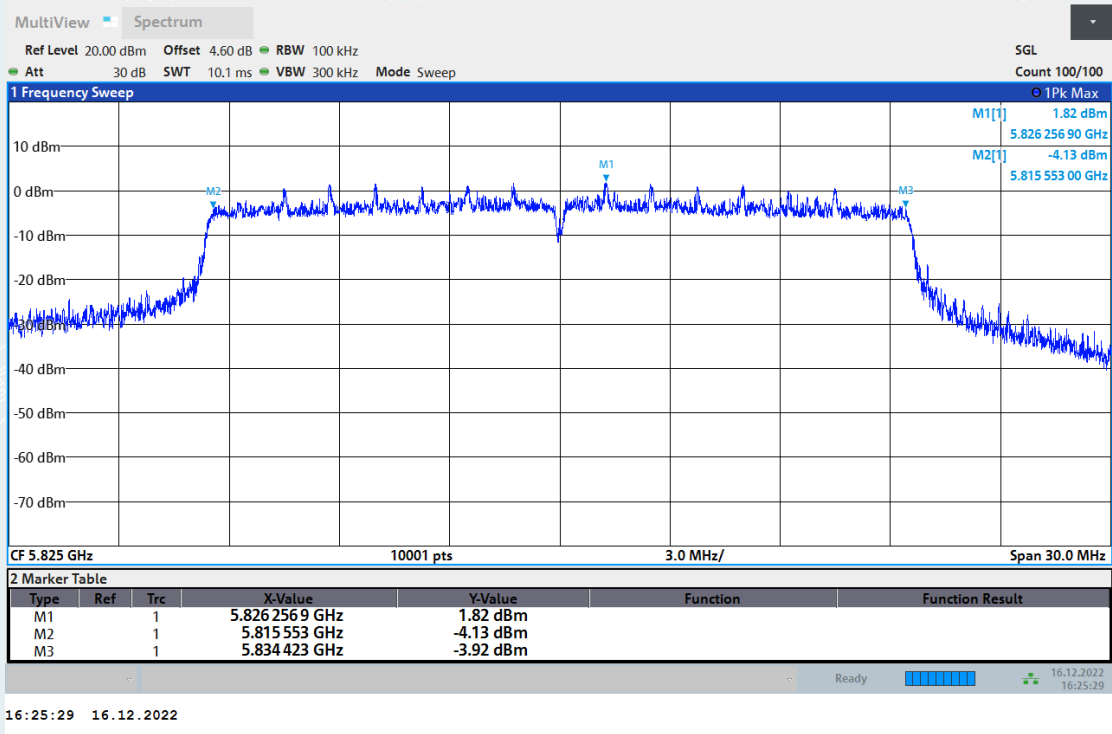
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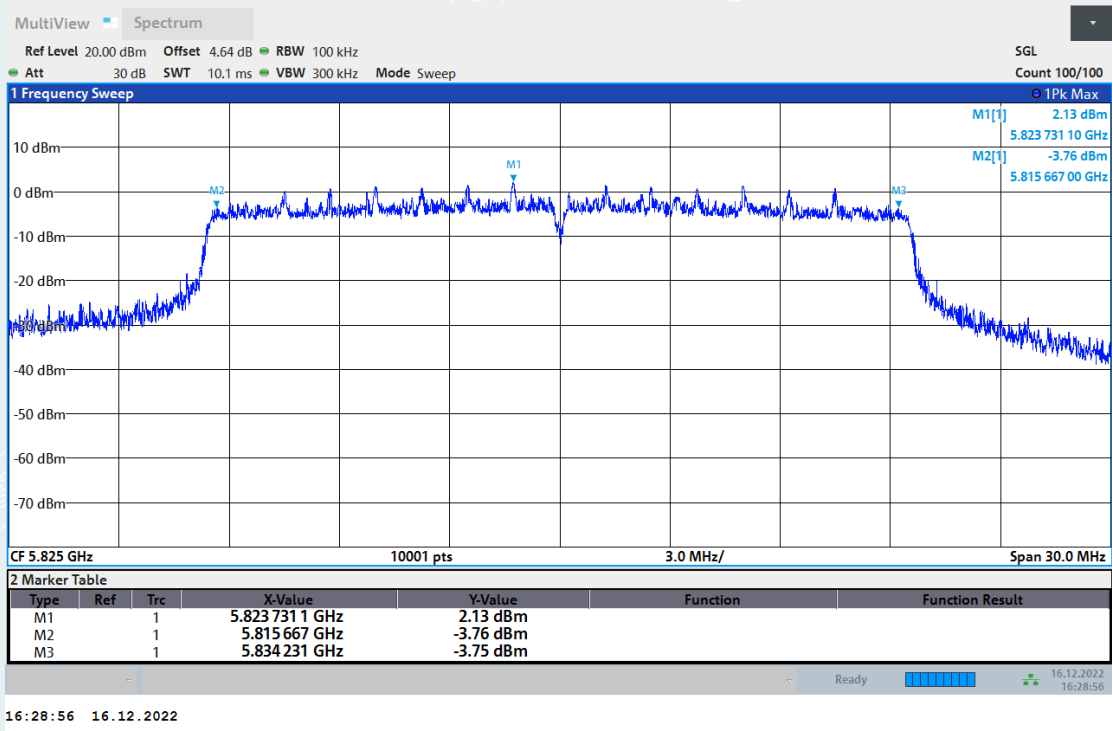
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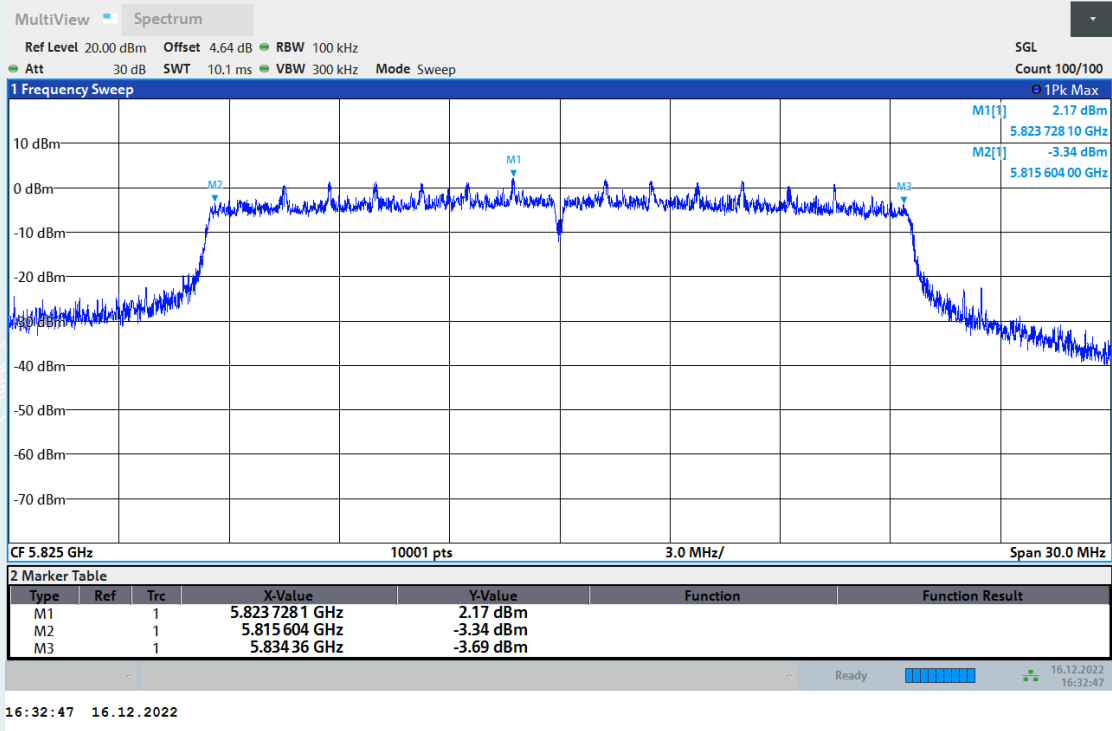
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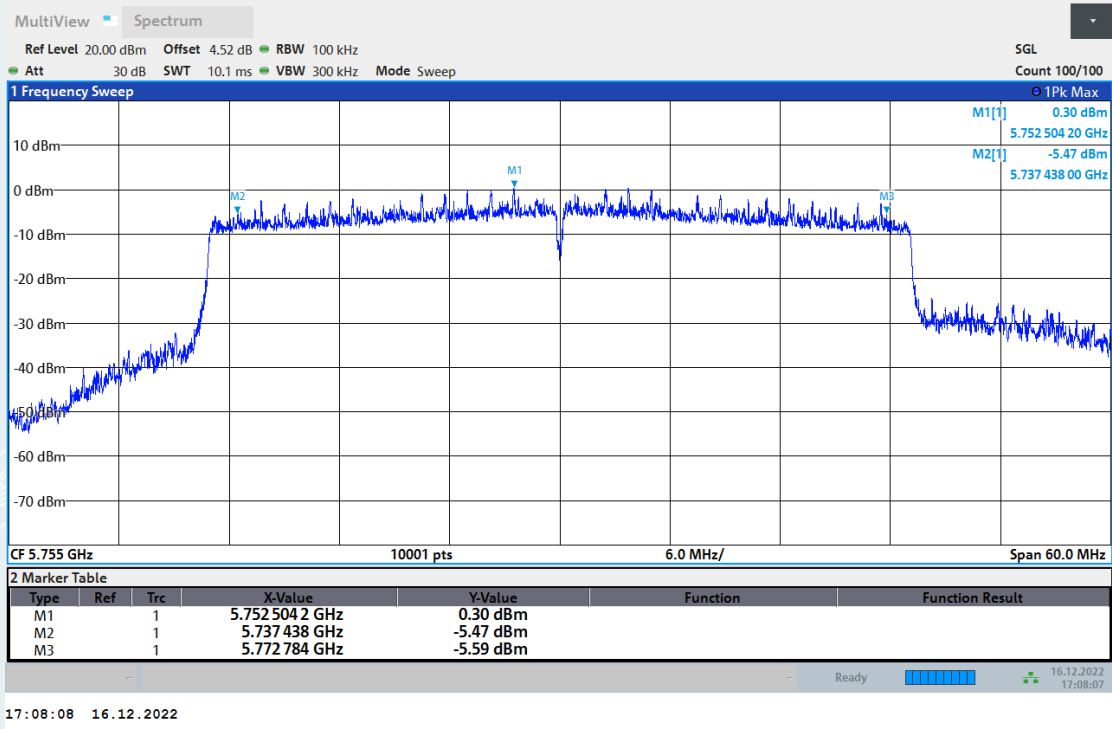
6dB Bandwidth NVNT ax20 5825MHz Ant2



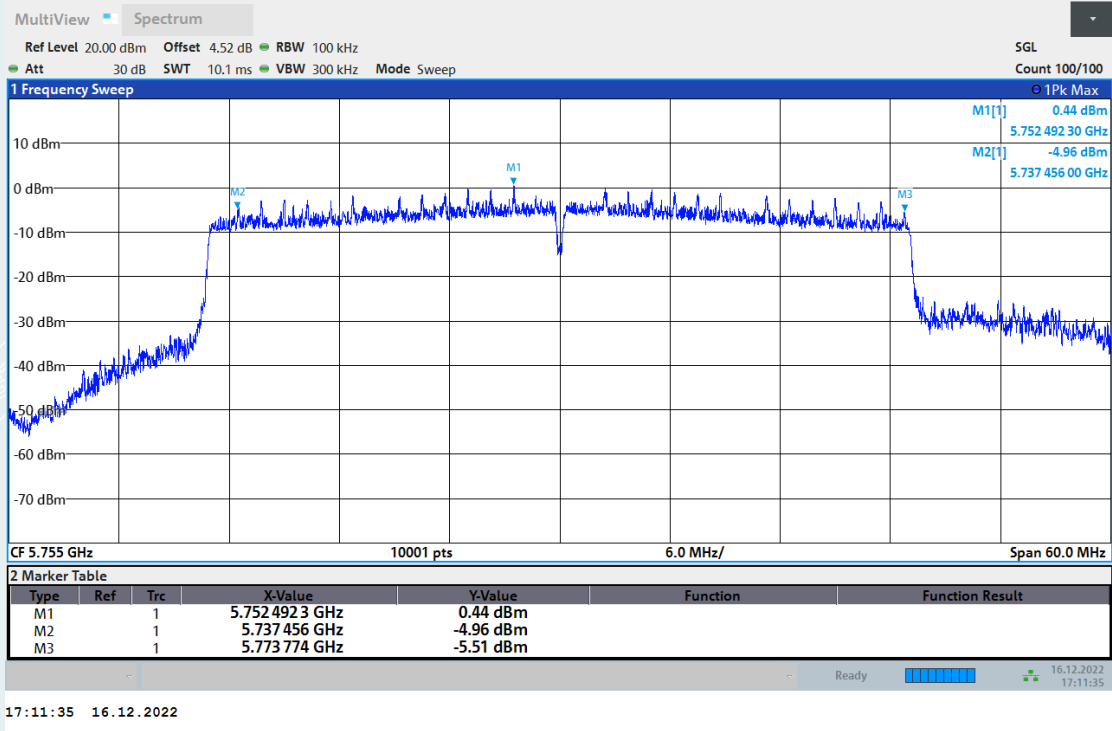
6dB Bandwidth NVNT ax20 5825MHz Ant3



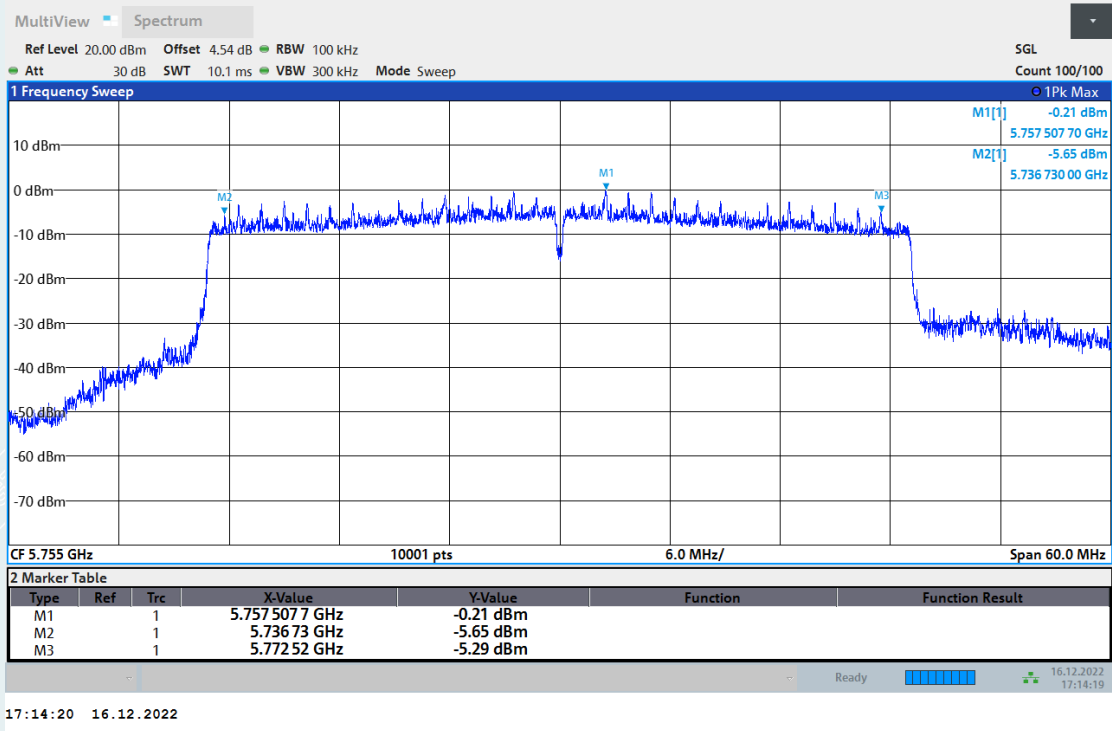
6dB Bandwidth NVNT ax40 5755MHz Ant1



6dB Bandwidth NVNT ax40 5755MHz Ant2

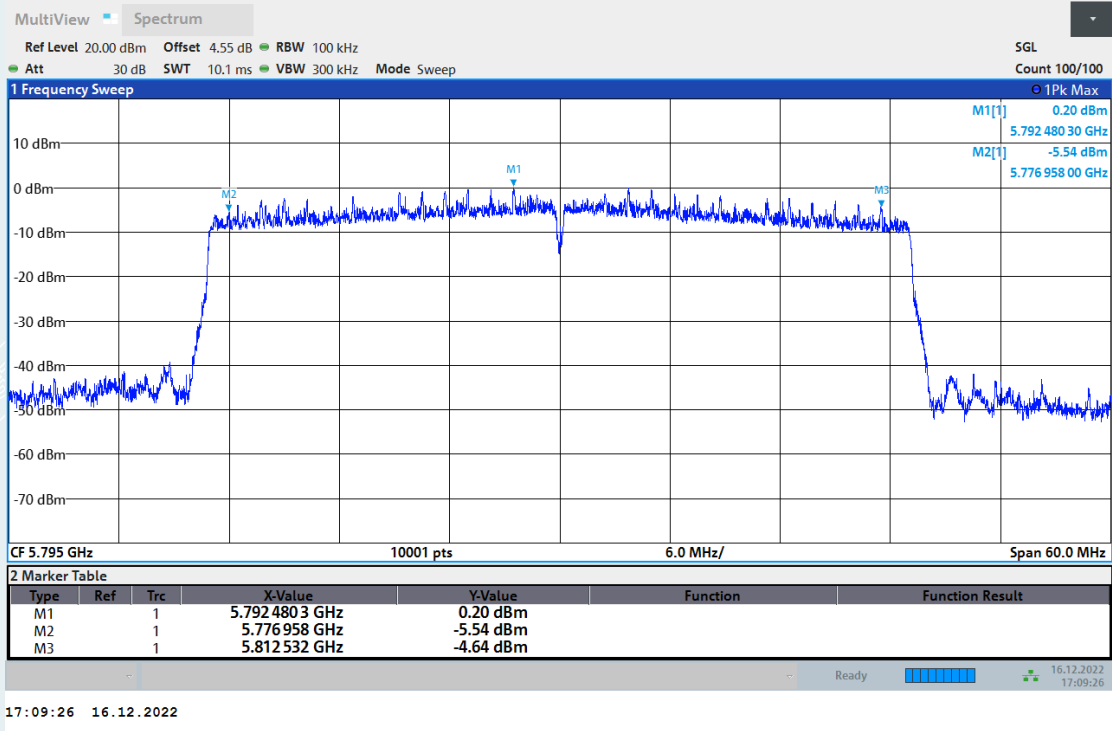


6dB Bandwidth NVNT ax40 5755MHz Ant3

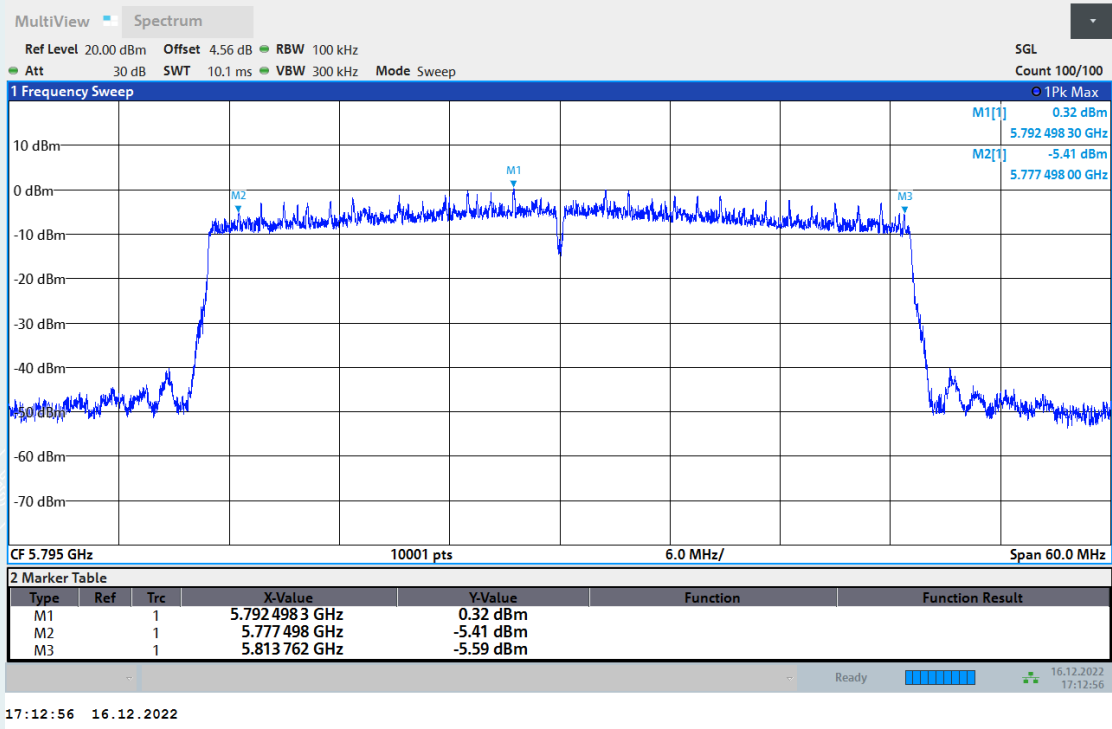




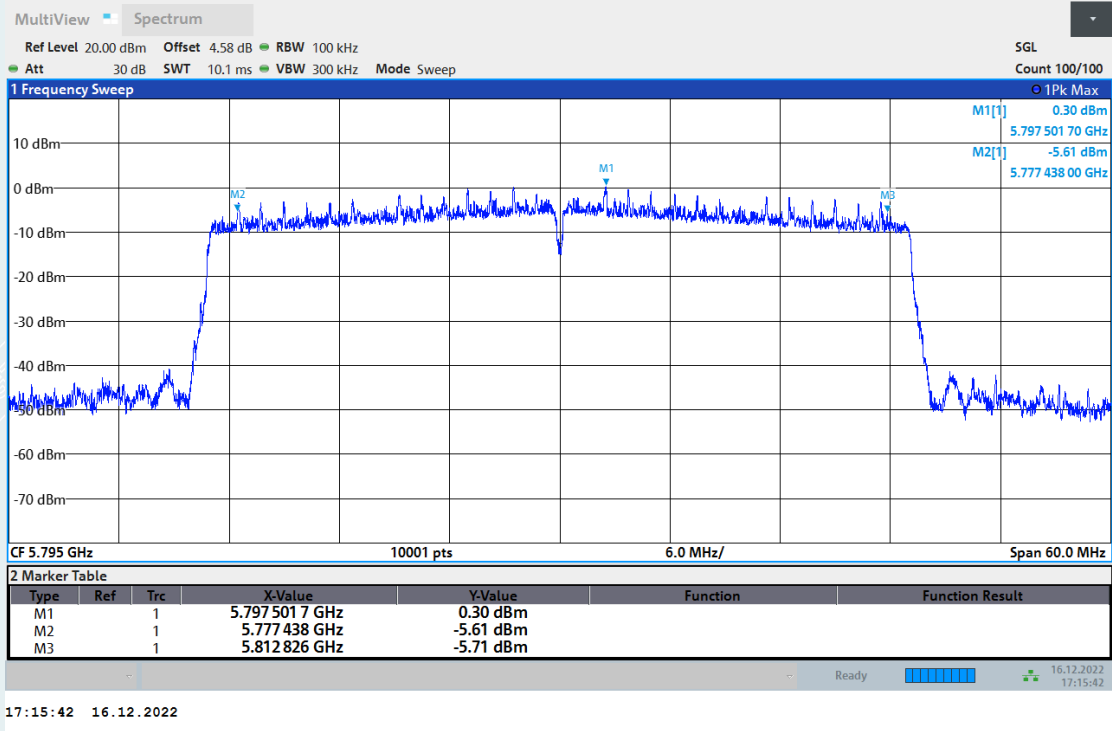
6dB Bandwidth NVNT ax40 5795MHz Ant1



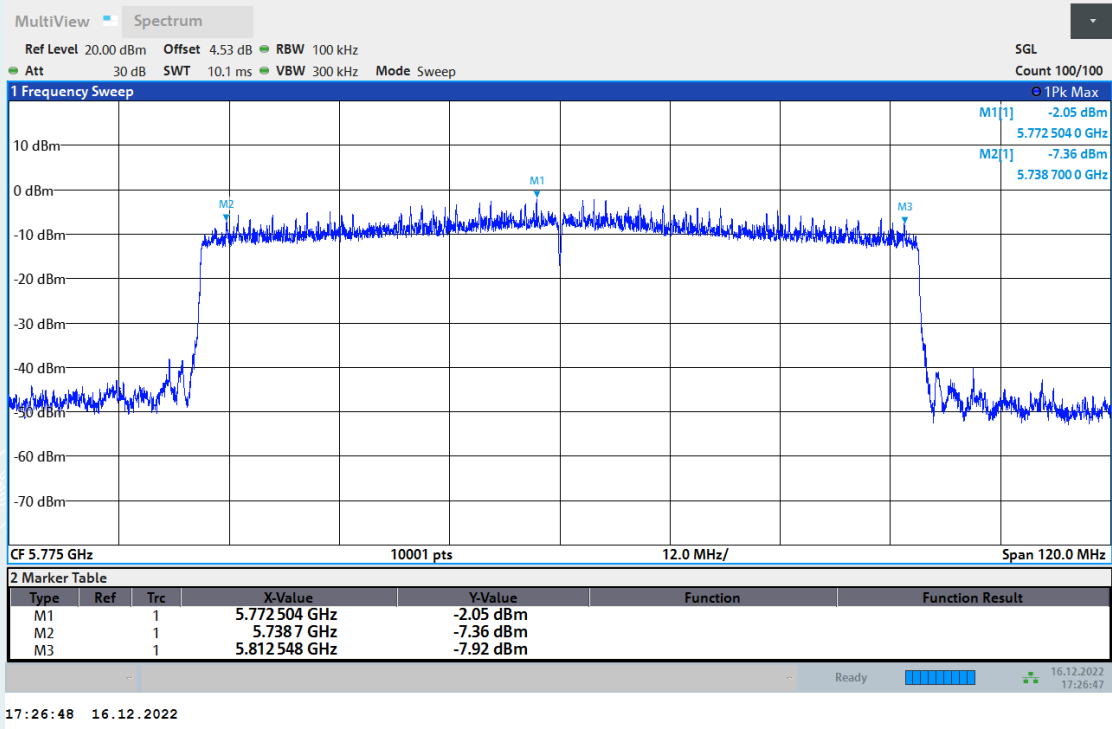
6dB Bandwidth NVNT ax40 5795MHz Ant2



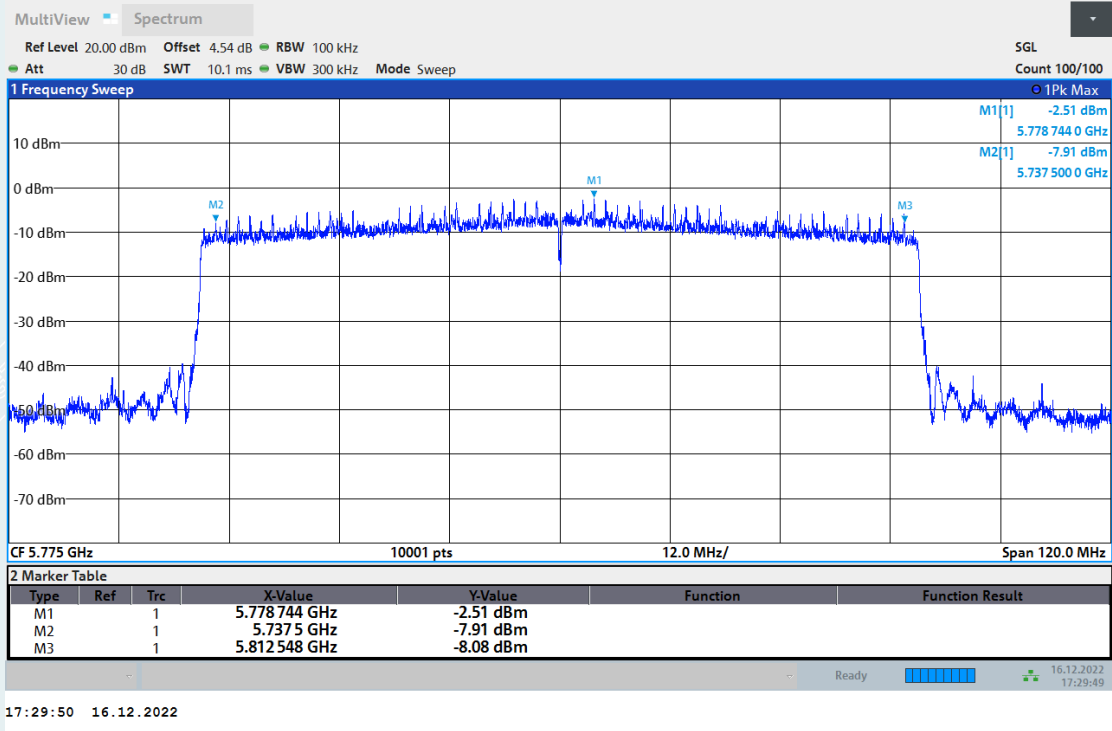
6dB Bandwidth NVNT ax40 5795MHz Ant3



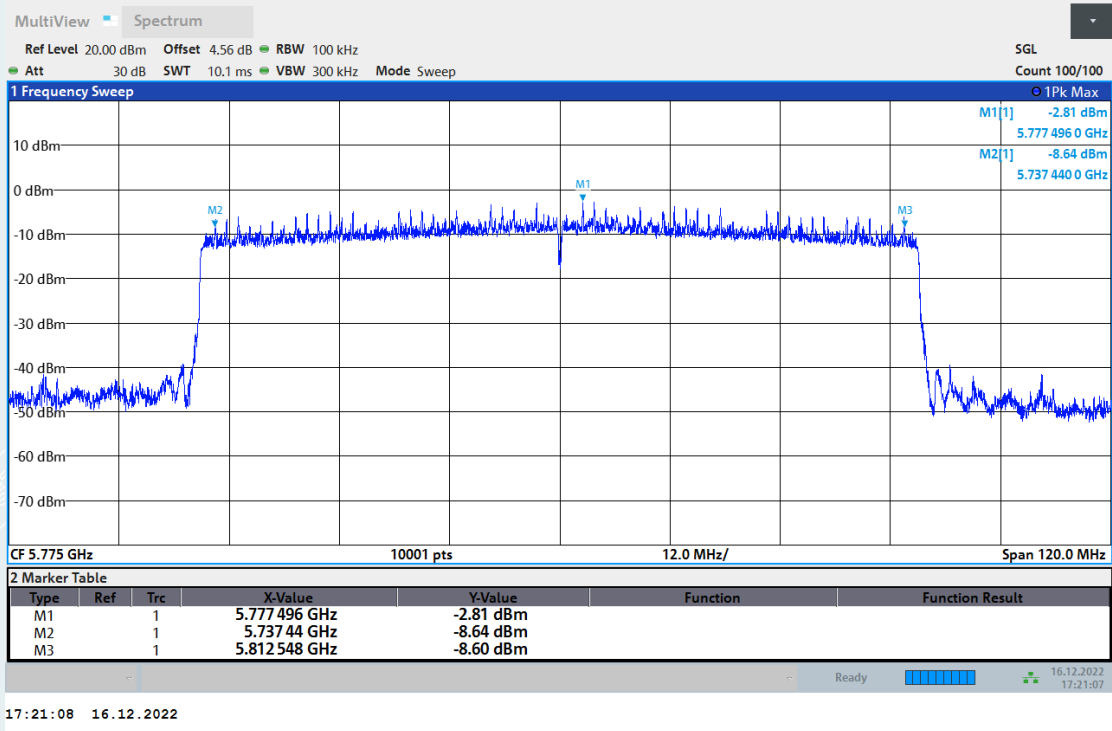
6dB Bandwidth NVNT ax80 5775MHz Ant1



6dB Bandwidth NVNT ax80 5775MHz Ant2



6dB Bandwidth NVNT ax80 5775MHz Ant3



26dB Bandwidth: U-NII-1

Mode	Frequency (MHz)	Antenna	26 dB Bandwidth (MHz)	Verdict
11a	5180	Ant1	26.526	Pass
11a	5180	Ant2	27.726	Pass
11a	5180	Ant3	27.387	Pass
11a	5200	Ant1	29.217	Pass
11a	5200	Ant2	28.992	Pass
11a	5200	Ant3	29.022	Pass
11a	5240	Ant1	20.355	Pass
11a	5240	Ant2	20.286	Pass
11a	5240	Ant3	20.295	Pass
11n20	5180	Ant1	29.145	Pass
11n20	5180	Ant2	29.061	Pass
11n20	5180	Ant3	29.364	Pass
11n20	5200	Ant1	29.718	Pass
11n20	5200	Ant2	29.892	Pass
11n20	5200	Ant3	29.757	Pass
11n20	5240	Ant1	20.712	Pass
11n20	5240	Ant2	20.643	Pass
11n20	5240	Ant3	20.61	Pass
11n40	5190	Ant1	48.696	Pass
11n40	5190	Ant2	46.524	Pass
11n40	5190	Ant3	48.684	Pass
11n40	5230	Ant1	40.362	Pass
11n40	5230	Ant2	40.404	Pass
11n40	5230	Ant3	40.332	Pass
11ac20	5180	Ant1	29.22	Pass
11ac20	5180	Ant2	28.845	Pass
11ac20	5180	Ant3	27.51	Pass
11ac20	5200	Ant1	29.286	Pass
11ac20	5200	Ant2	29.208	Pass
11ac20	5200	Ant3	29.616	Pass
11ac20	5240	Ant1	20.577	Pass
11ac20	5240	Ant2	20.496	Pass
11ac20	5240	Ant3	20.517	Pass
11ac40	5190	Ant1	53.442	Pass
11ac40	5190	Ant2	51.636	Pass
11ac40	5190	Ant3	51.546	Pass
11ac40	5230	Ant1	40.446	Pass
11ac40	5230	Ant2	39.96	Pass
11ac40	5230	Ant3	39.912	Pass
11ac80	5210	Ant1	102.432	Pass

11ac80	5210	Ant2	101.496	Pass
11ac80	5210	Ant3	96.396	Pass
11ax20	5180	Ant1	27.75	Pass
11ax20	5180	Ant2	26.85	Pass
11ax20	5180	Ant3	27.576	Pass
11ax20	5200	Ant1	29.298	Pass
11ax20	5200	Ant2	28.761	Pass
11ax20	5200	Ant3	28.656	Pass
11ax20	5240	Ant1	19.914	Pass
11ax20	5240	Ant2	19.938	Pass
11ax20	5240	Ant3	19.947	Pass
11ax40	5190	Ant1	49.002	Pass
11ax40	5190	Ant2	43.788	Pass
11ax40	5190	Ant3	41.082	Pass
11ax40	5230	Ant1	39.264	Pass
11ax40	5230	Ant2	39.366	Pass
11ax40	5230	Ant3	39.312	Pass
11ax80	5210	Ant1	86.7	Pass
11ax80	5210	Ant2	79.32	Pass
11ax80	5210	Ant3	85.008	Pass

----- The following blanks -----

