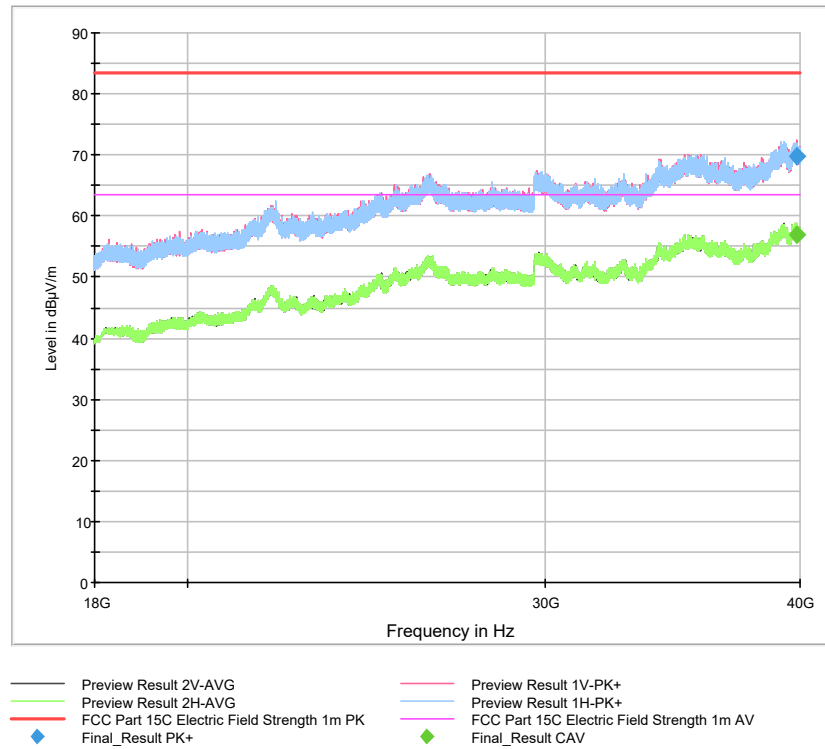


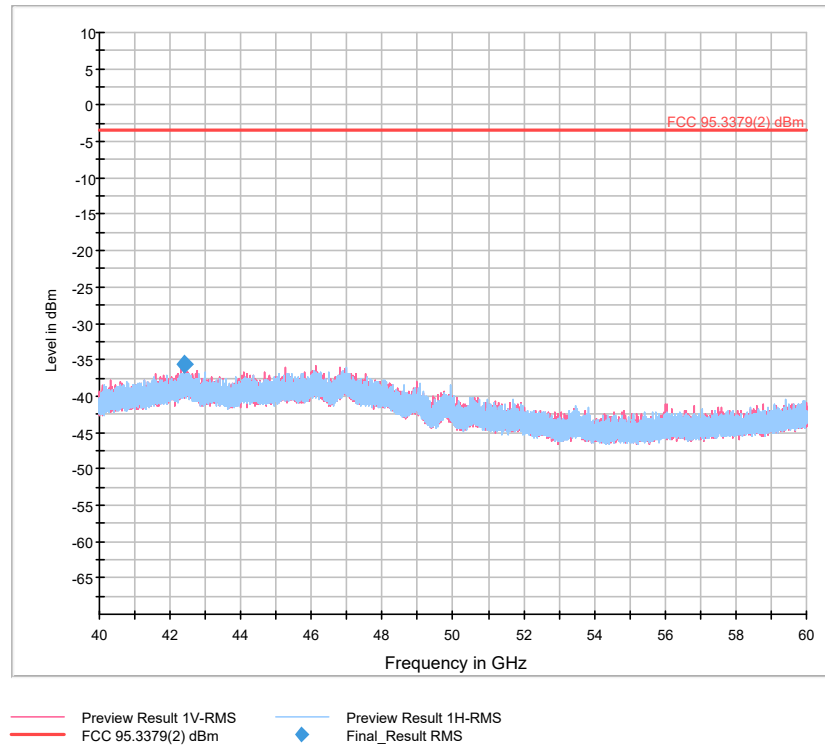
Final Results:

Frequency	MaxPeak	CAverage	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBµV/m	dBµV/m	dBµV/m	dB	ms	kHz	cm		deg	dB/m
17995.250000	---	60.83	63.50	2.67	1000.0	1000.000	113.0	V	-180.0	59.3
17995.250000	73.36	---	83.50	10.14	1000.0	1000.000	113.0	V	-180.0	59.3



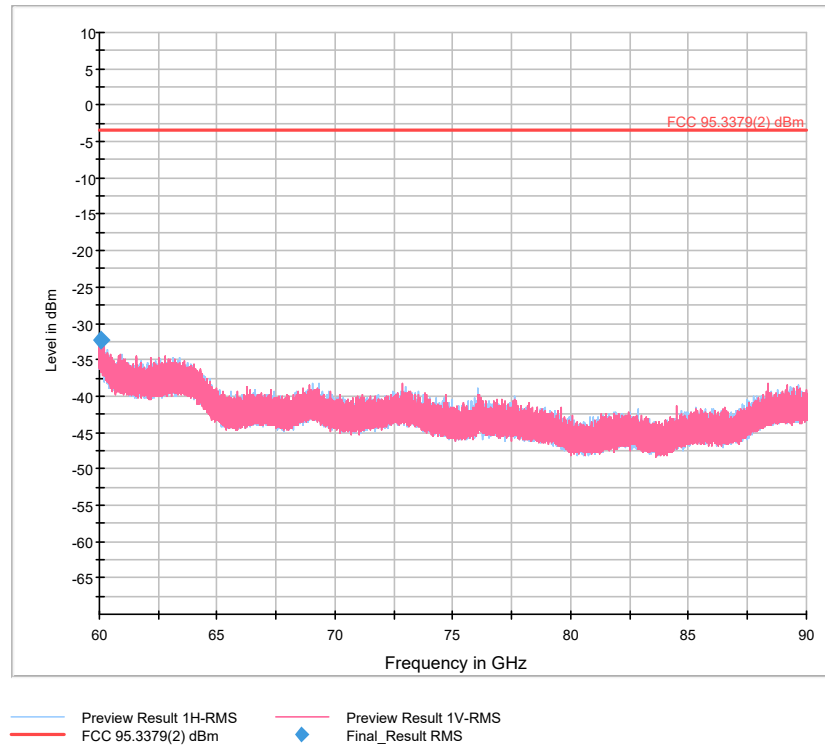
Final Results:

Frequency	MaxPeak	CAverage	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBµV/m	dBµV/m	dBµV/m	dB	ms	kHz	cm		deg	dB/m
39850.750000	---	56.99	63.50	6.51	1000.0	1000.000	135.0	H	174.0	36.3
39850.750000	69.90	---	83.50	13.60	1000.0	1000.000	135.0	H	174.0	36.3



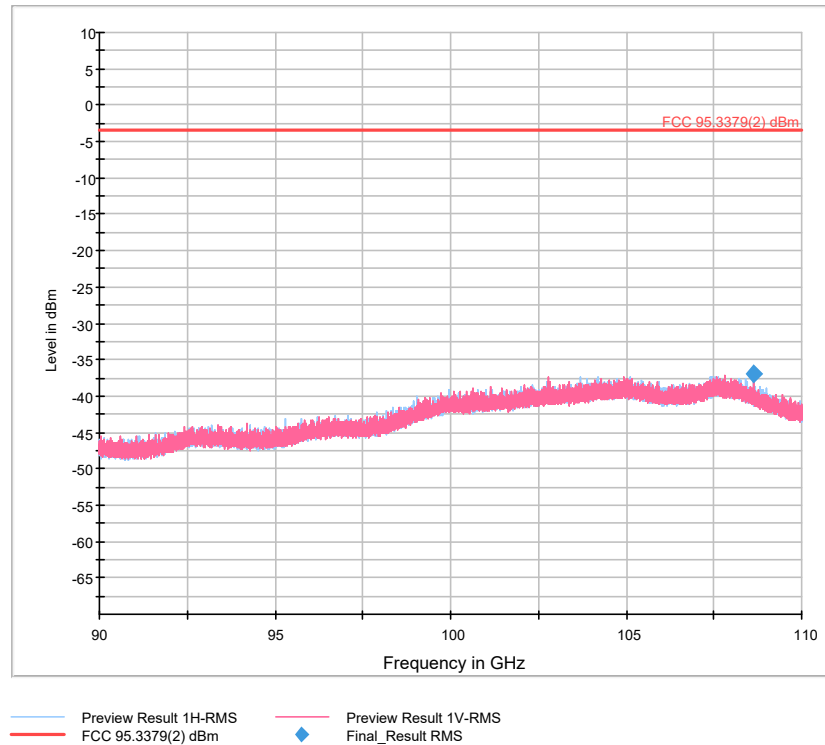
Final Results:

Frequency MHz	RMS dBm	Limit dBm	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB
42419.500000	-35.69	-1.69	34.00	5.0	1000.000	150.0	V	125.0	-60.6



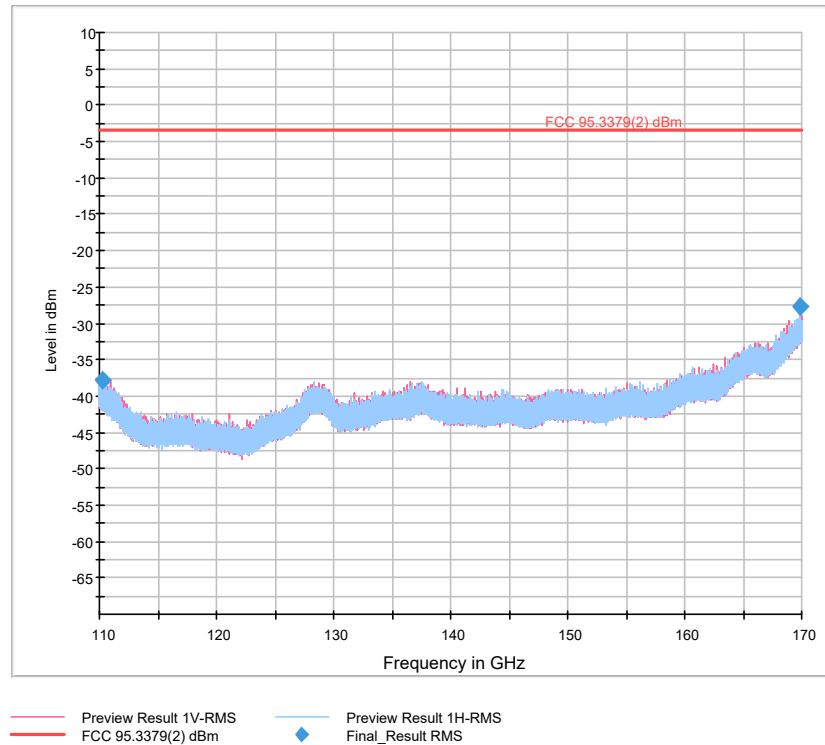
Final Results:

Frequency MHz	RMS dBm	Limit dBm	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB
60062.187500	-32.25	-1.69	30.56	5.0	1000.000	150.0	V	297.0	-63



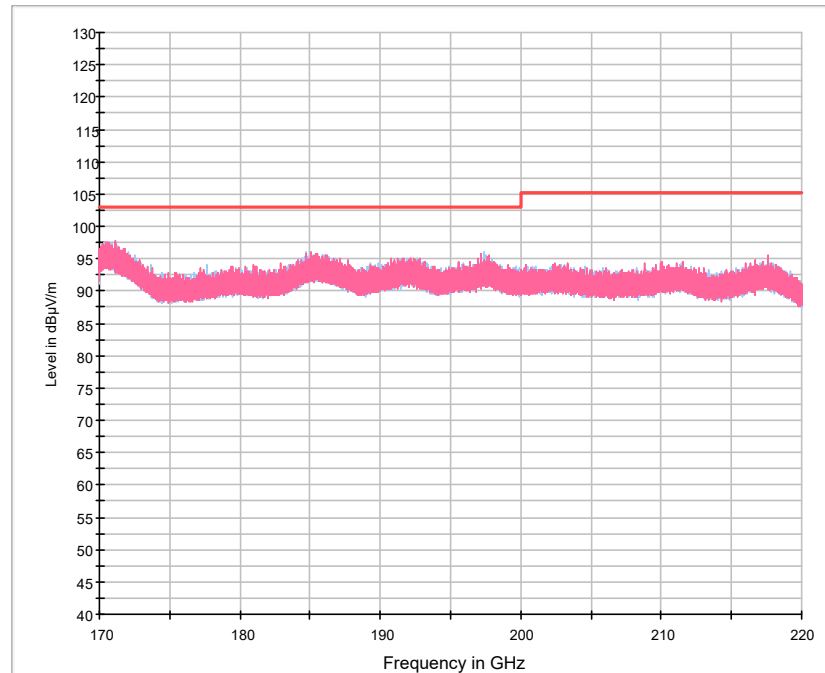
Final Results:

Frequency MHz	RMS dBm	Limit dBm	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB
108610.000000	-36.98	-1.69	35.29	5.0	1000.000	150.0	H	175.0	-67.0

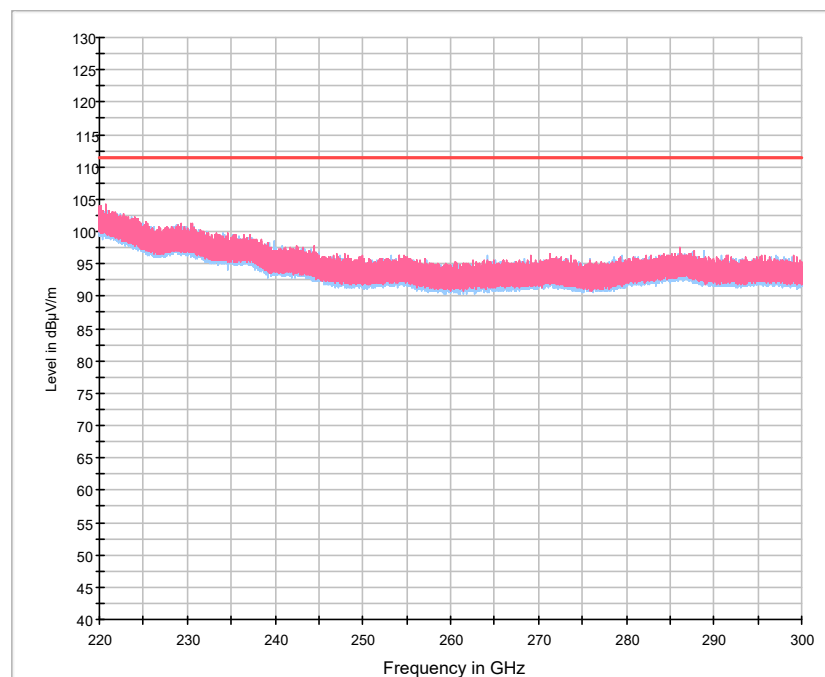


Final Results:

Frequency MHz	RMS dBm	Limit dBm	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB
110236.500000	-37.89	-1.69	36.20	20.0	1000.000	150.0	H	21.0	-77.7
169880.000000	-27.65	-1.69	25.96	20.0	1000.000	150.0	H	185.0	-73.9



— Preview Result 1H-RMS
— FCC 95.3379(2) (1m)
— Preview Result 1V-RMS
◆ Final_Result RMS



— Preview Result 1H-RMS
— FCC 95.3379(2) (0.5m)
— Preview Result 1V-RMS
◆ Final_Result RMS
* RMS

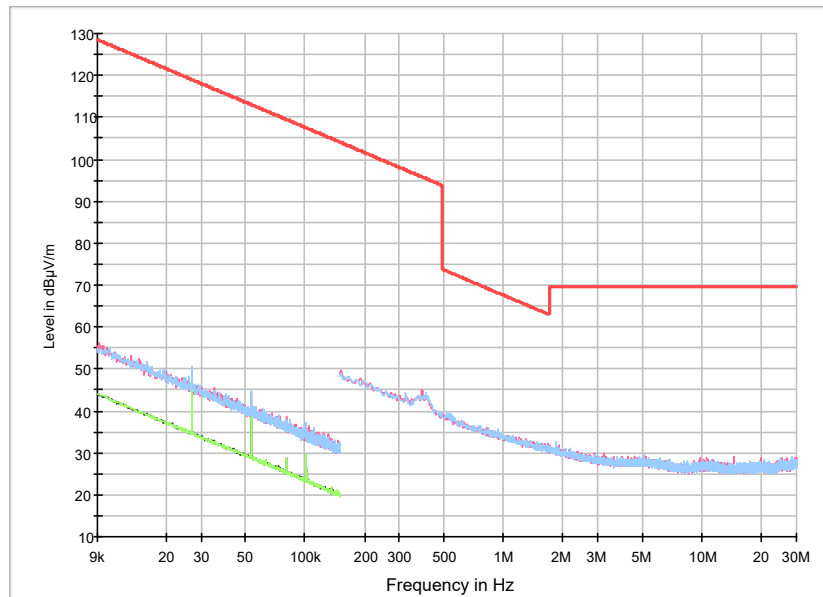
TÜV SÜD Product Service GmbH
Äußere Frühlingsstraße 45
94315 Straubing
Germany

Phone: +49 9421 5522-0
Fax: +49 9421 5522-99
Web: www.tuev-sued.de

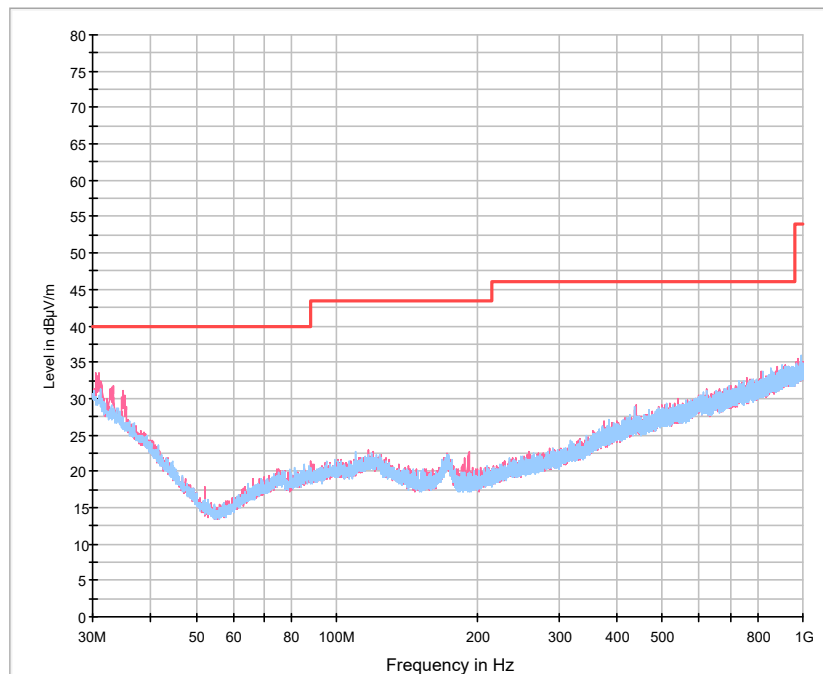


Product Service

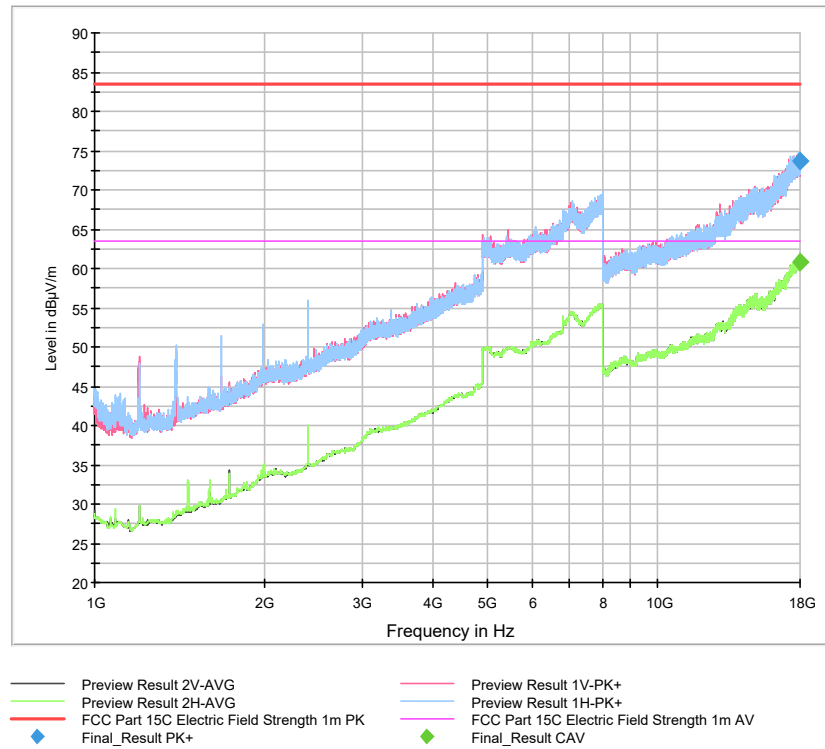
Plots taken during measurement: middle channel, 175 MHz BW



- Preview Result 2V-AVG
- Preview Result 1V-PK+
- Preview Result 2H-AVG
- Preview Result 1H-PK+
- FCC Part 15C Electric Field Strength 3m QP+AV (9k-30M)
- ◆ Final_Result QPK
- ◆ Final_Result CAV

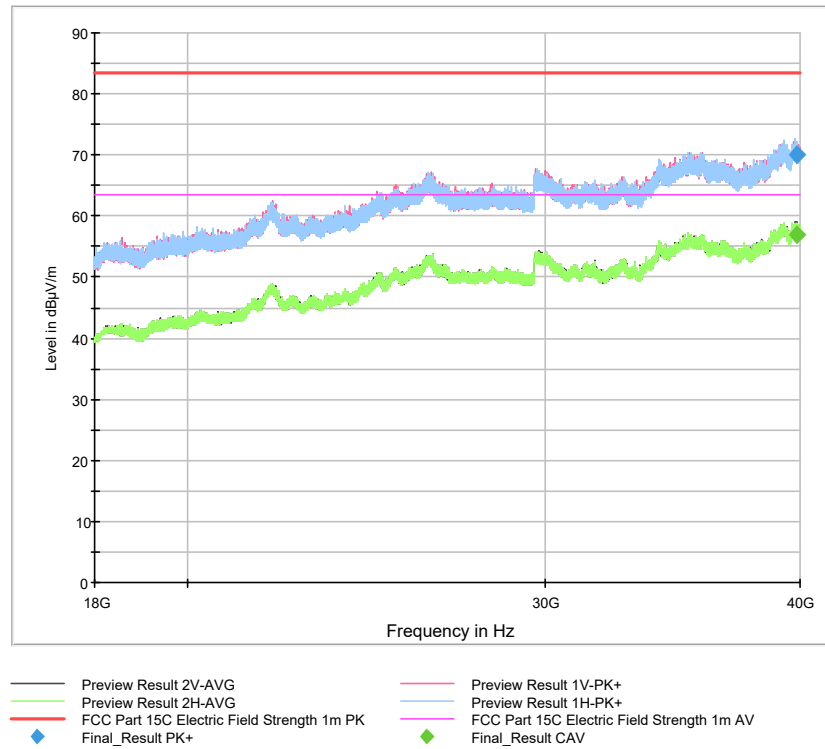


- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC Part 15C Electric Field Strength 3m QP
- ◆ Final_Result QPK



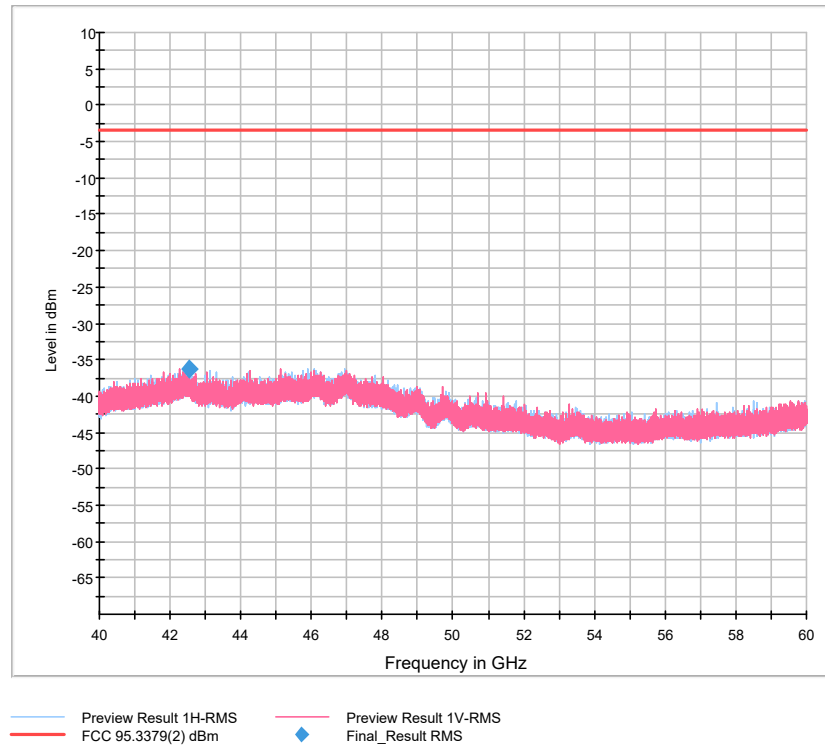
Final Results:

Frequency	MaxPeak	CAverage	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBµV/m	dBµV/m	dBµV/m	dB	ms	kHz	cm		deg	dB
17999.500000	---	60.85	63.50	2.65	1000.0	1000.000	202.0	H	147.0	59.3
17999.500000	73.58	---	83.50	9.92	1000.0	1000.000	202.0	H	147.0	59.3



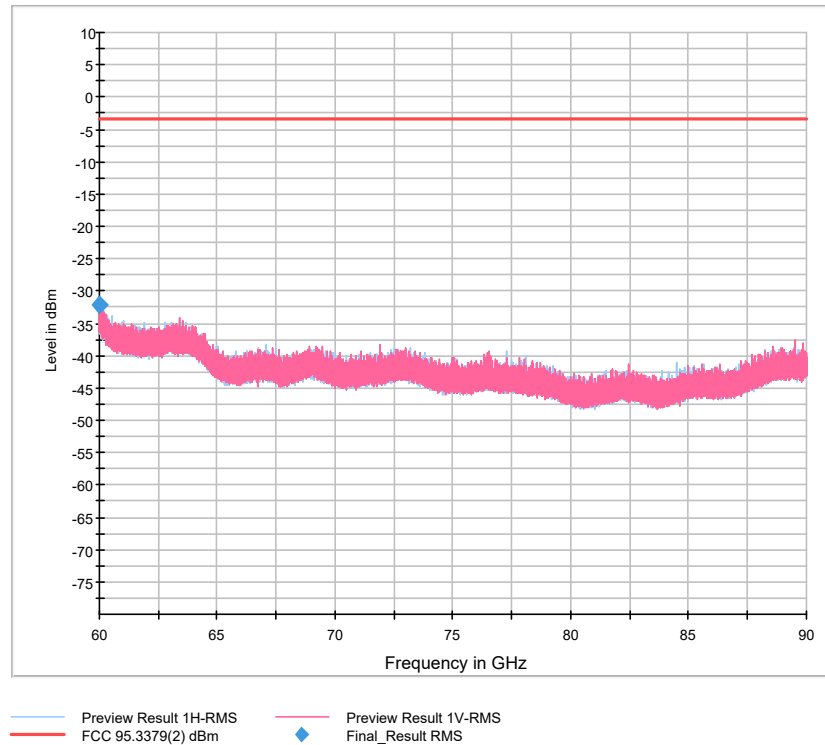
Final Results:

Frequency	MaxPeak	CAverage	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBµV/m	dBµV/m	dBµV/m	dB	ms	kHz	cm		deg	dB/m
39845.750000	---	57.07	63.50	6.43	1000.0	1000.000	189.0	V	-76.0	36.3
39845.750000	69.99	---	83.50	13.51	1000.0	1000.000	189.0	V	-76.0	36.3



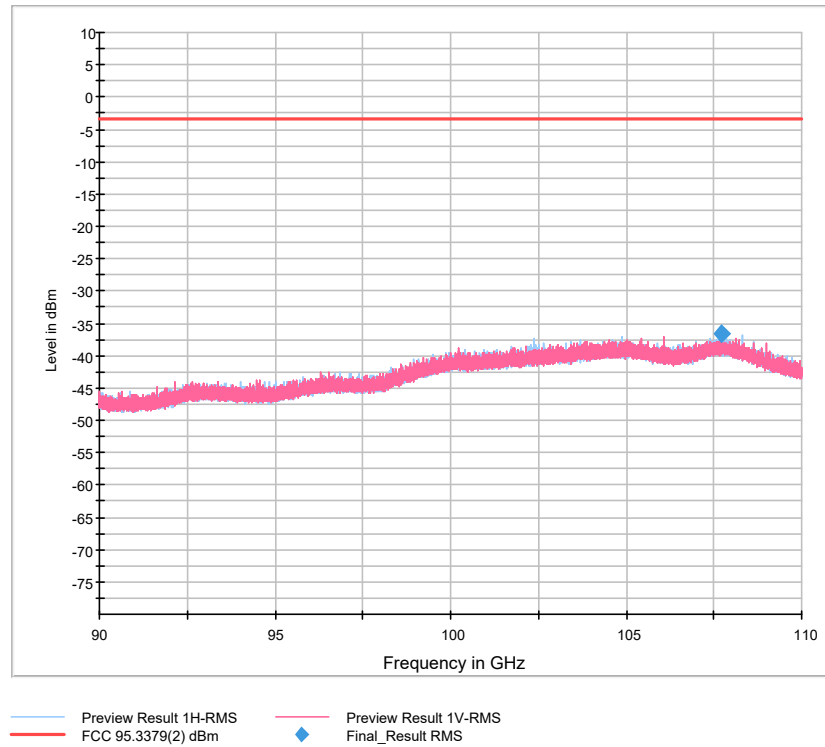
Final Results:

Frequency MHz	RMS dBm	Limit dBm	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB
42557.000000	-36.21	-1.69	34.52	5.0	1000.000	150.0	H	9.0	-61



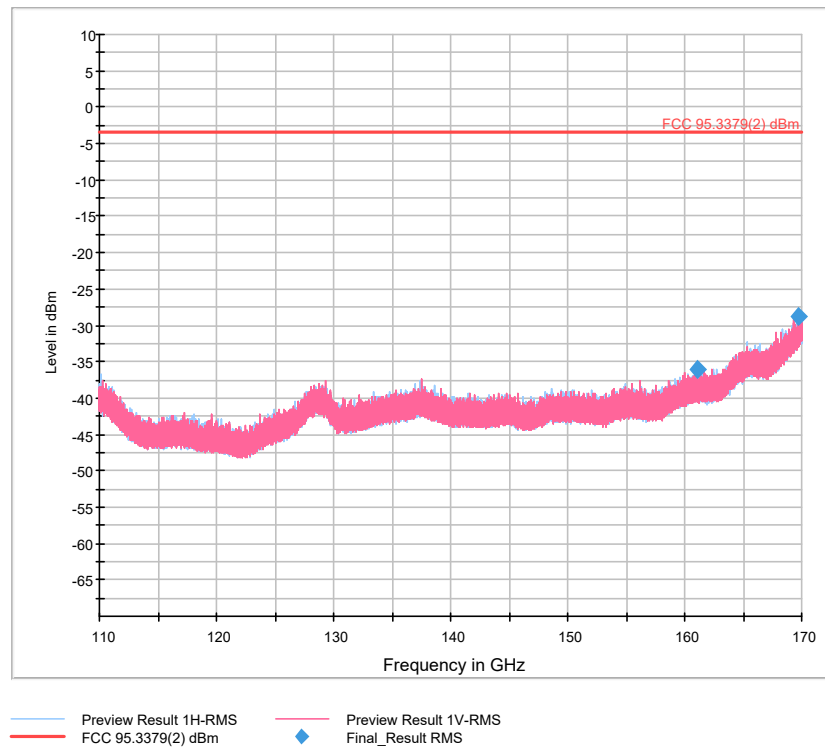
Final Results:

Frequency MHz	RMS dBm	Limit dBm	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB
60020.000000	-32.07	-1.69	30.38	5.0	1000.000	150.0	V	346.0	-63



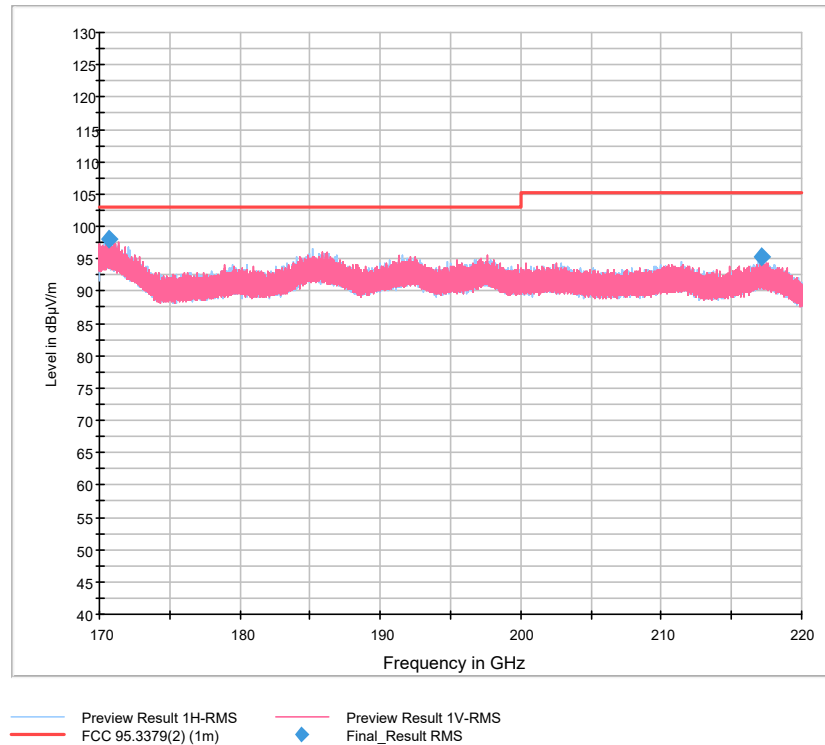
Final Results:

Frequency MHz	RMS dBm	Limit dBm	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB
107722.000000	-36.51	-1.69	34.82	5.0	1000.000	150.0	V	327.0	-67



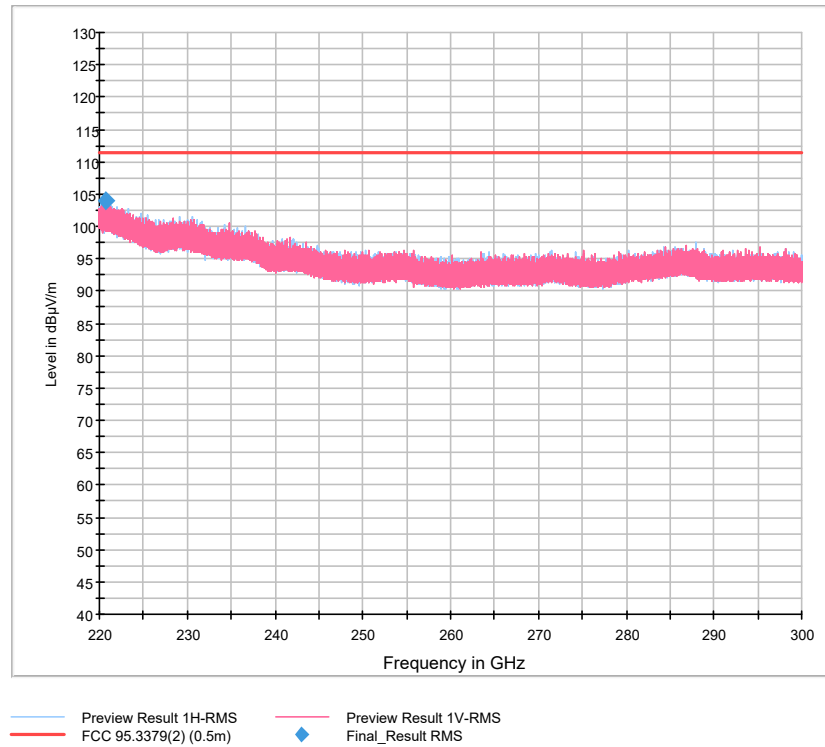
Final Results:

Frequency MHz	RMS dBm	Limit dBm	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB
161048.000000	-36.04	-1.69	34.45	20.0	1000.000	150.0	V	273.0	-74
169715.000000	-28.72	-1.69	27.03	20.0	1000.000	150.0	V	283.0	-74



Final Results:

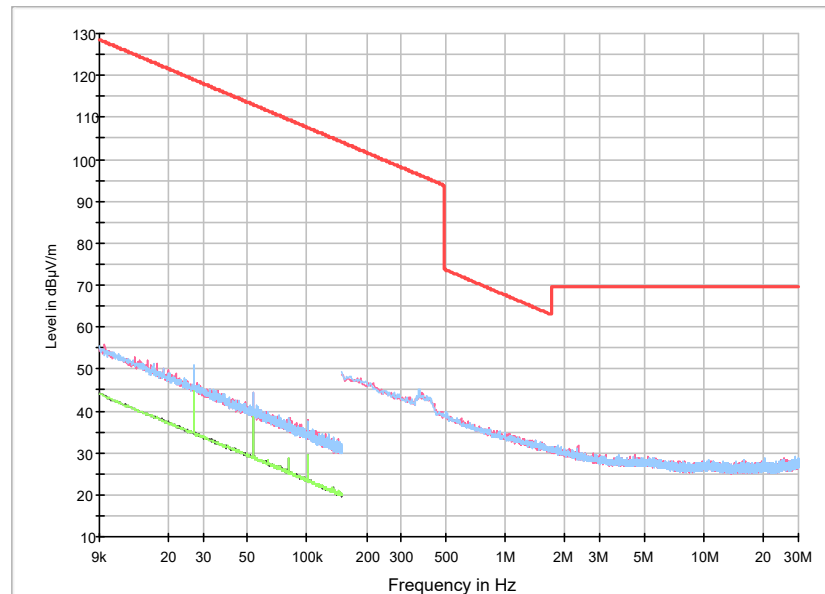
Frequency MHz	RMS dBµV/m	Limit dBµV/m	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB/m	Trd Corr. dB/m	Raw Rec dBµV
170728.846154	98.02	103.09	5.07	5.0	1000.000	150.0	V	125.0	55	55	43
217175.480769	95.21	105.31	10.10	5.0	1000.000	150.0	V	208.0	55	55	40



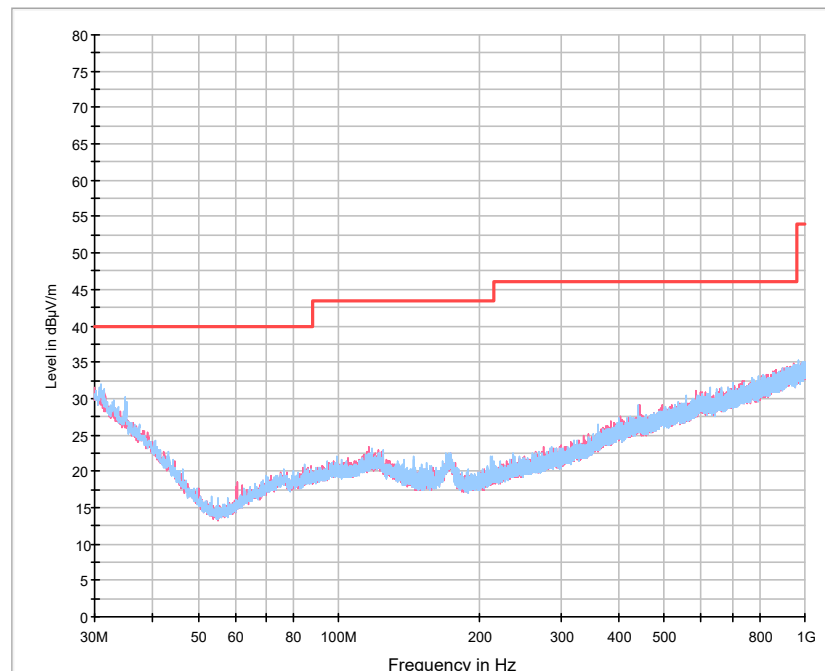
Final Results:

Frequency	RMS	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.	Trd Corr.	Raw Rec
MHz	dBµV/m	dBµV/m	dB	ms	kHz	cm		deg	dB/m	dB/m	dBµV
220743.437500	103.93	111.33	7.39	5.0	1000.000	150.0	H	298.0	59	59	45

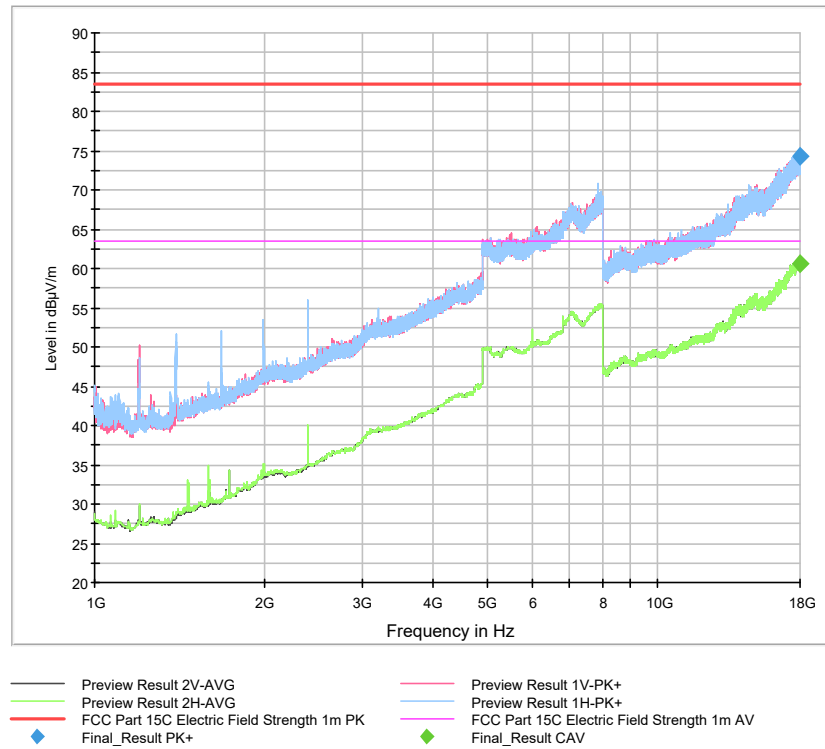
Plots taken during measurement: Highest channel, 425 MHz BW



- Preview Result 2V-AVG
- Preview Result 1V-PK+
- Preview Result 2H-AVG
- Preview Result 1H-PK+
- FCC Part 15C Electric Field Strength 3m QP+AV (9k-30M)
- ◆ Final_Result QPK
- ◆ Final_Result CAV

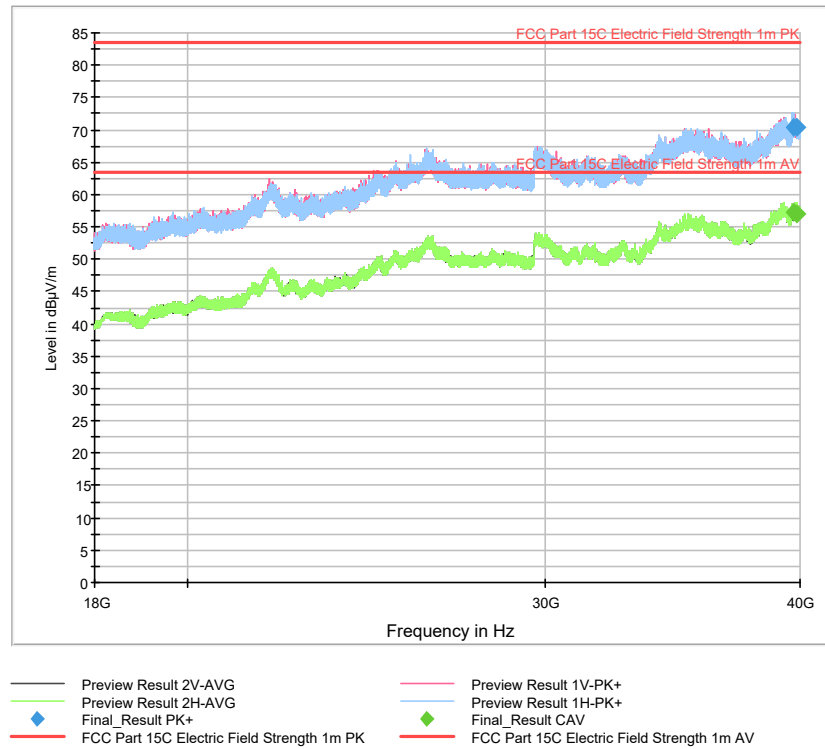


- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC Part 15C Electric Field Strength 3m QP
- ◆ Final_Result QPK



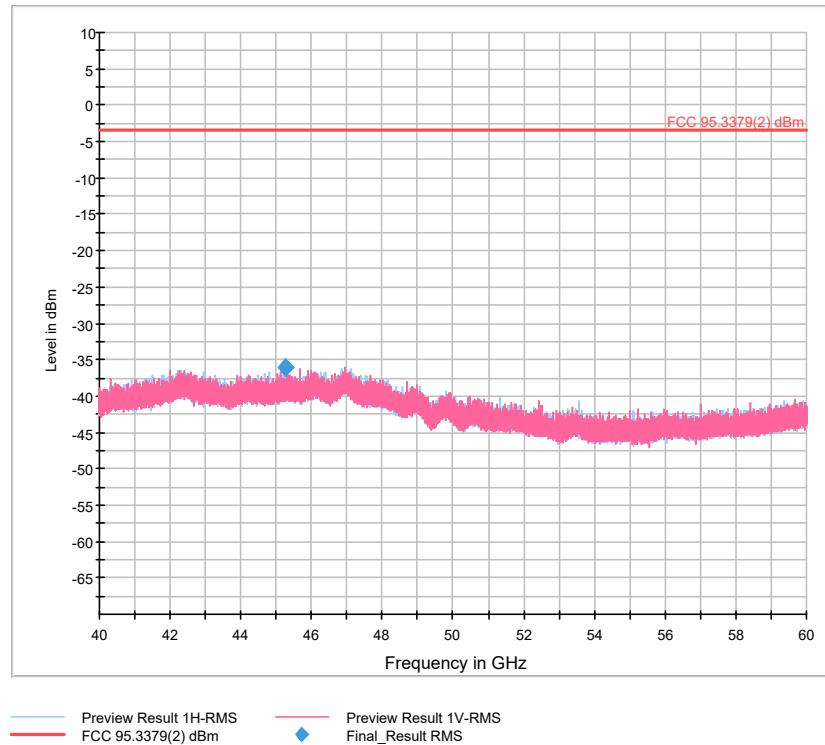
Final Result:

Frequency	MaxPeak	CAverage	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBµV/m	dBµV/m	dBµV/m	dB	ms	kHz	cm		deg	dB
17941.250000	---	60.66	63.50	2.84	1000.0	1000.000	193.0	H	95.0	59.2
17941.250000	74.19	---	83.50	9.31	1000.0	1000.000	193.0	H	95.0	59.2



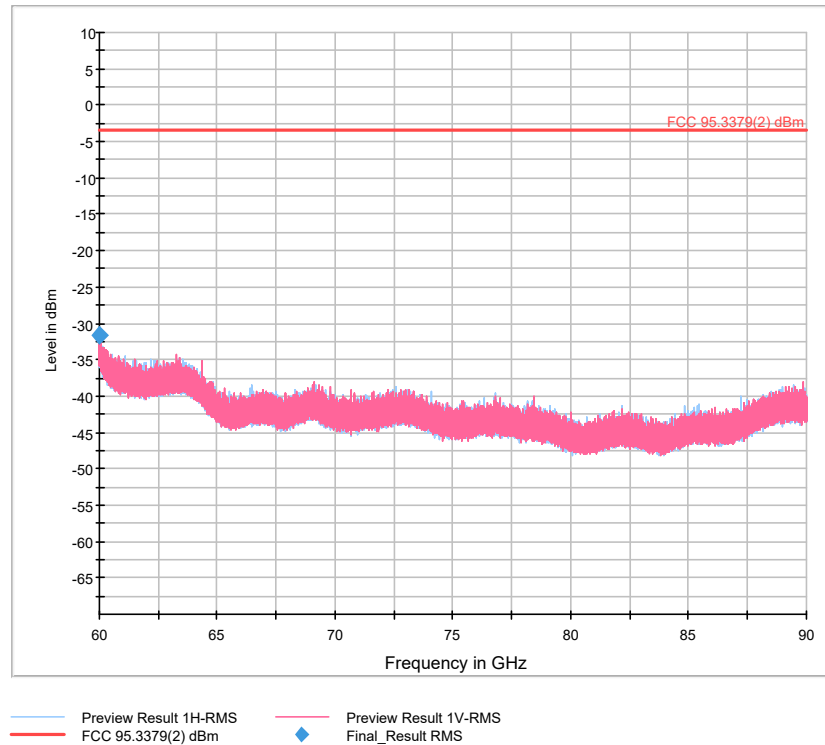
Final Results:

Frequency MHz	MaxPeak dBµV/m	CAverage dBµV/m	Limit dBµV/m	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB/m
39745.000000	---	57.27	63.50	6.23	1000.0	1000.000	159.0	H	-68.0	36.5
39745.000000	70.46	---	83.50	13.04	1000.0	1000.000	159.0	H	-68.0	36.5
39849.750000	---	57.07	63.50	6.43	1000.0	1000.000	208.0	V	-57.0	36.3
39849.750000	70.41	---	83.50	13.09	1000.0	1000.000	208.0	V	-57.0	36.3



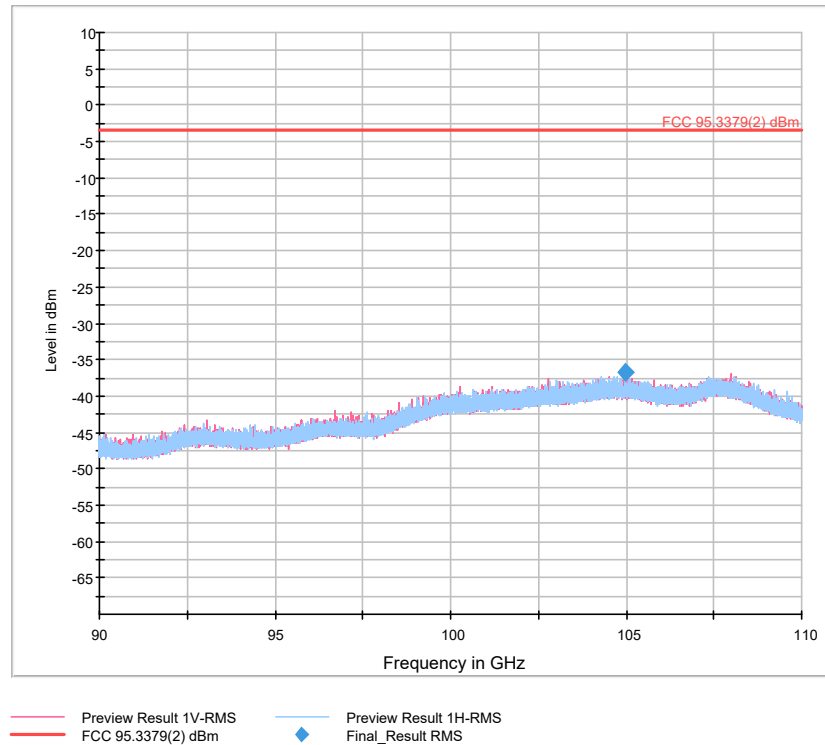
Final Results:

Frequency MHz	RMS dBm	Limit dBm	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB
45264.000000	-36.07	-1.69	34.38	5.0	1000.000	150.0	H	163.0	-61



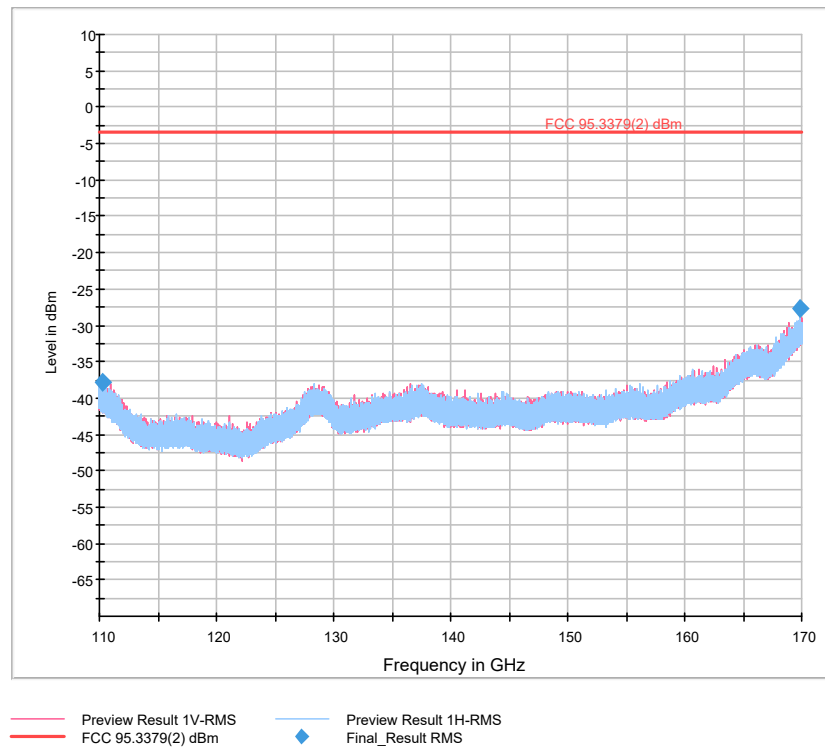
Final Results:

Frequency MHz	RMS dBm	Limit dBm	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB
60005.937500	-31.75	-1.69	33.44	5.0	1000.000	150.0	V	27.0	-63



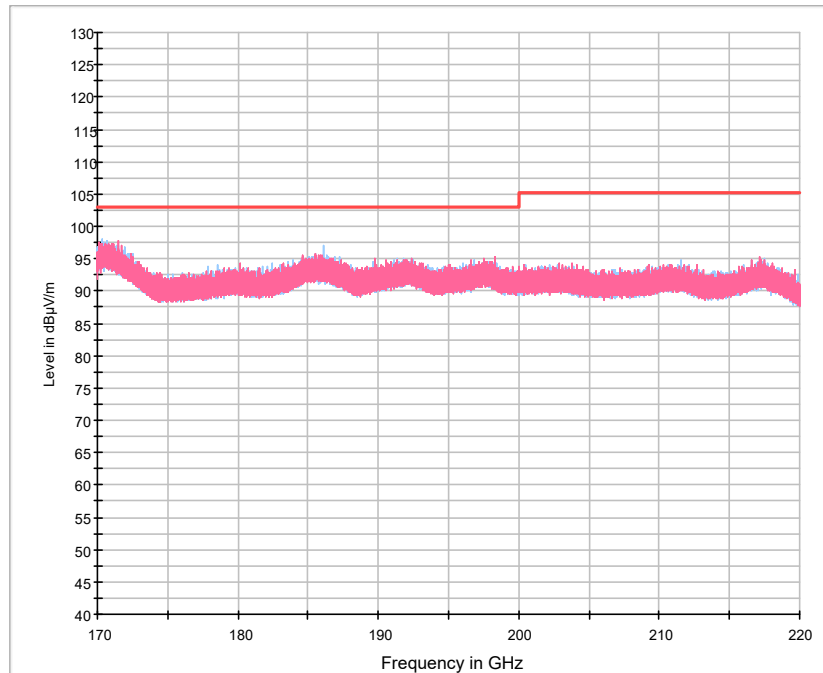
Final Results:

Frequency MHz	RMS dBm	Limit dBm	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB
104996.000000	-36.72	-1.69	35.03	5.0	1000.000	150.0	H	225.0	-67.1

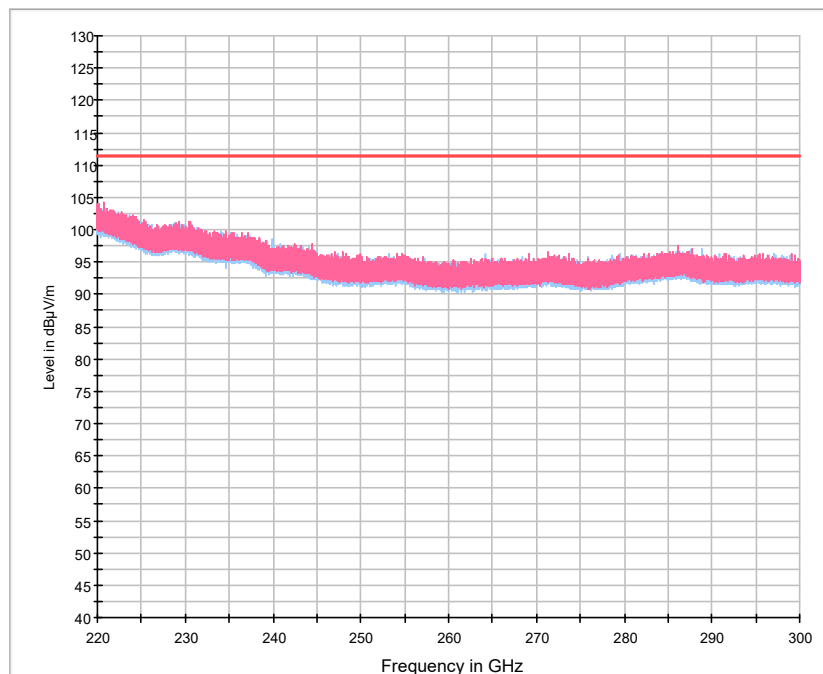


Final Results:

Frequency MHz	RMS dBm	Limit dBm	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB
110236.500000	-37.89	-1.69	36.20	20.0	1000.000	150.0	H	21.0	-77.7
169880.000000	-27.65	-1.69	25.96	20.0	1000.000	150.0	H	185.0	-73.9



— Preview Result 1H-RMS — Preview Result 1V-RMS * RMS
— FCC 95.3379(2) (1m) ◆ Final_Result RMS



— Preview Result 1H-RMS — Preview Result 1V-RMS
— FCC 95.3379(2) (0.5m) ◆ Final_Result RMS



10.4 Frequency Stability

Date of Test	2021-11-10 and 2021-11-11
Operator	Alex Fink, Martin Steindl
Test Site	Non shielded room

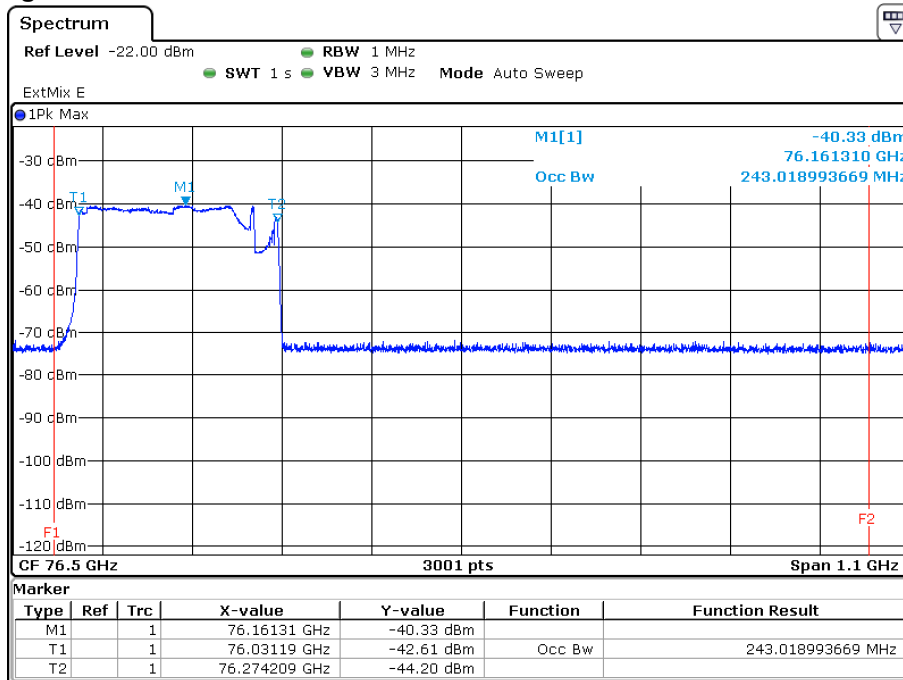
Prüfergebnis / Test Result	
<input checked="" type="checkbox"/>	Erfüllt / Passed
<input type="checkbox"/>	Nicht erfüllt / Not passed

Barometric pressure:	986 hPa
Relative humidity:	35 %
Ambient temperature:	23 °C

Specifications:	CFR 47, Part 95, Subpart M, §95.3379(b) RSS-251, Issue 2, Section 11
Description:	b) Fundamental emissions must be contained within the frequency bands specified in this section during all conditions of operation. Equipment is presumed to operate over the temperature range -20 °C to 50 °C with a input voltage variation of 85 % to 115 % of rated input voltage unless justification is presented to demonstrate otherwise.
Operation mode:	Transmitting continuously on lowest and highest frequency with modulation 175 MHz, 300 MHz and 425 MHz.
Comment :	See plots of tests for details.

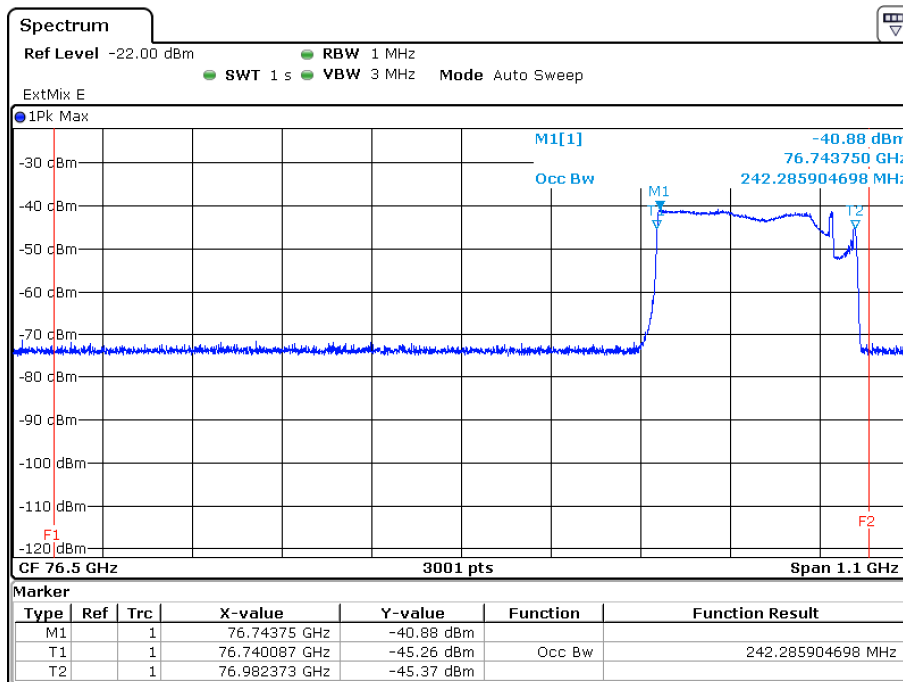
All emissions are within the 76 – 77 GHz frequency band.
 See plots for details

Plots taken during test



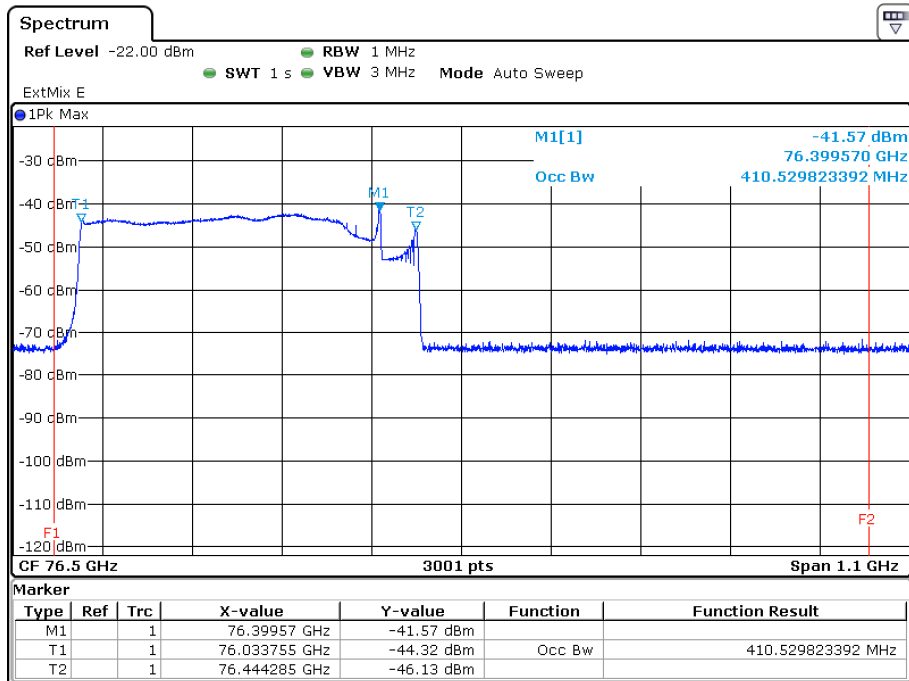
Date: 11.NOV.2021 11:16:46

175 MHz, 20 °C, 9.6 V – Lowest channel



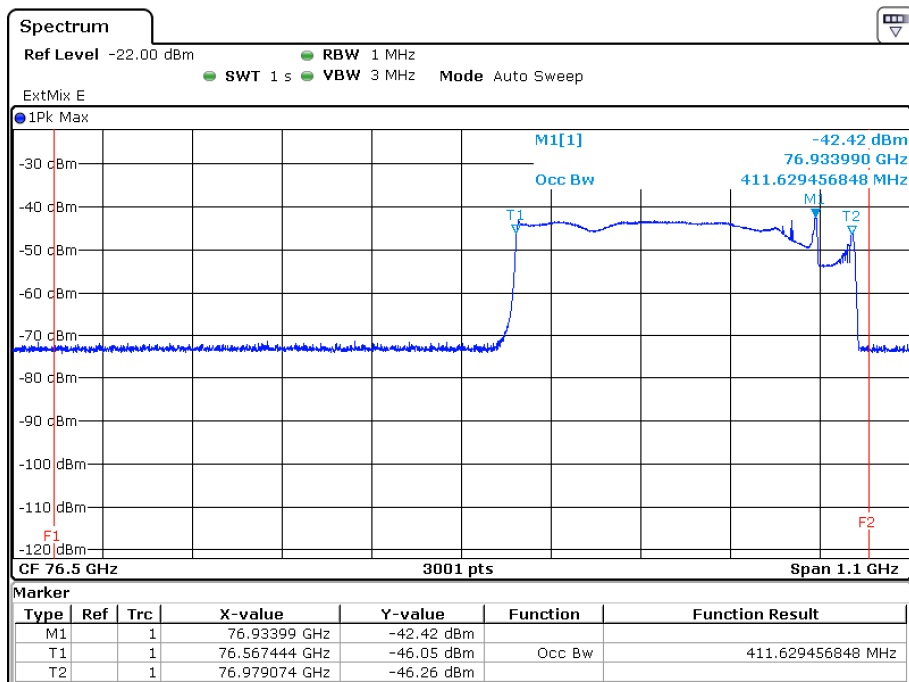
Date: 11.NOV.2021 11:18:05

175 MHz, 20 °C, 9.6 V – Highest channel



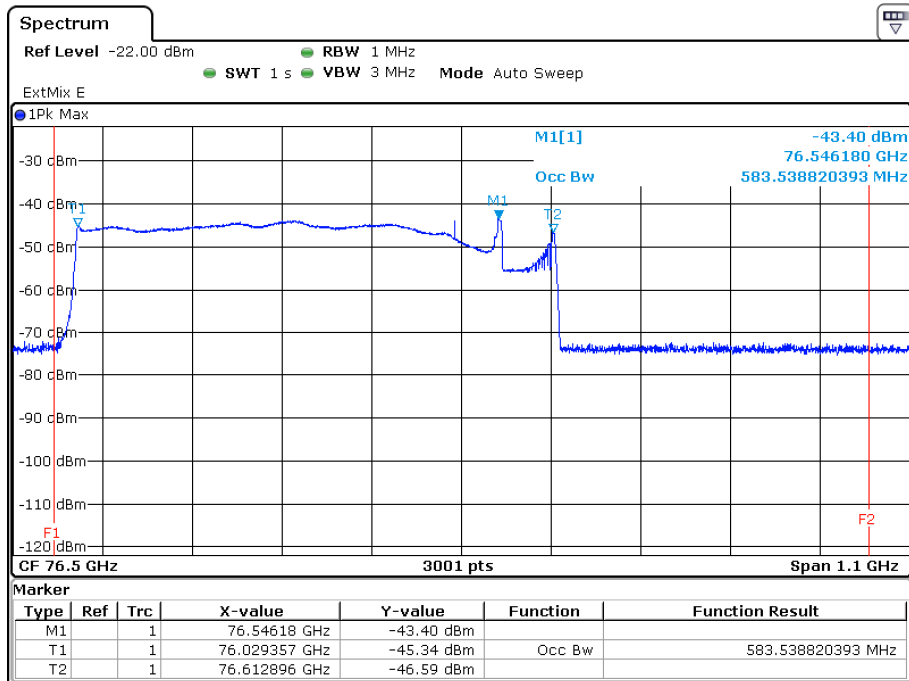
Date: 11.NOV.2021 11:25:36

300 MHz, 20 °C, 9.6 V – Lowest channel



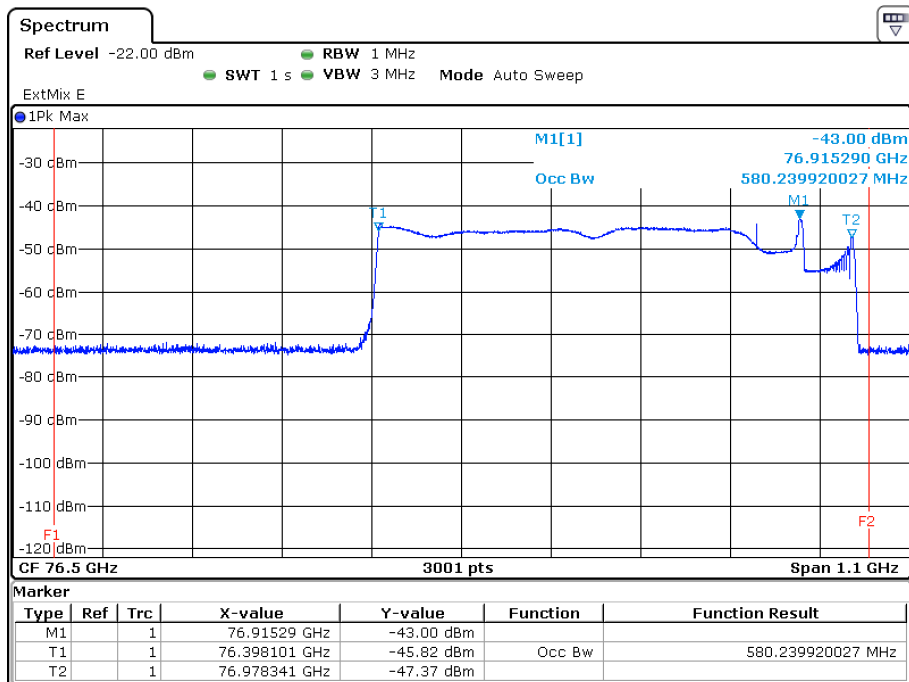
Date: 11.NOV.2021 11:24:02

300 MHz, 20 °C, 9.6 V – Highest channel



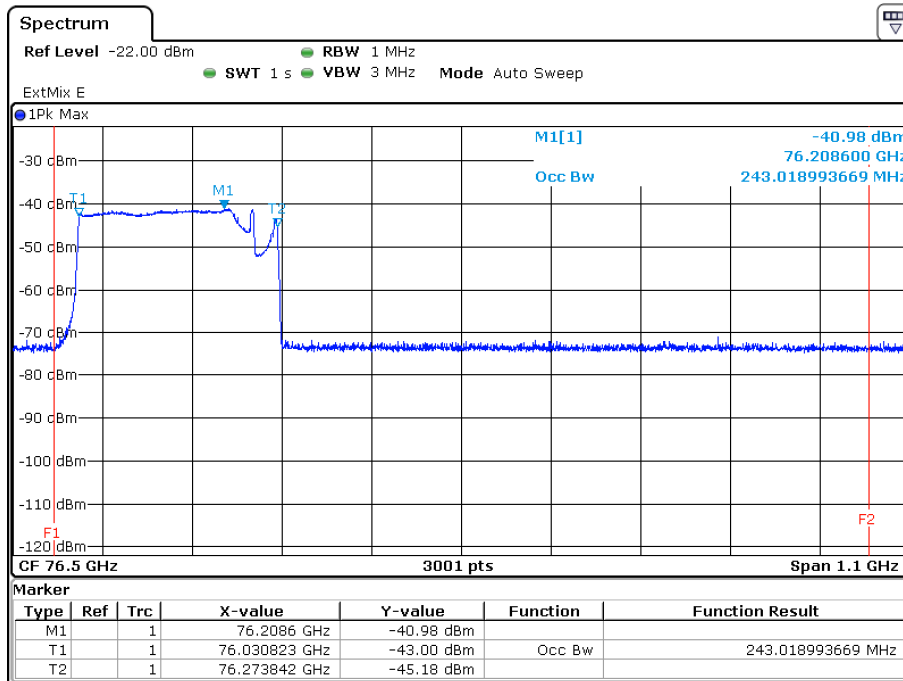
Date: 11.NOV.2021 11:26:48

425 MHz, 20 °C, 9.6 V – Lowest channel



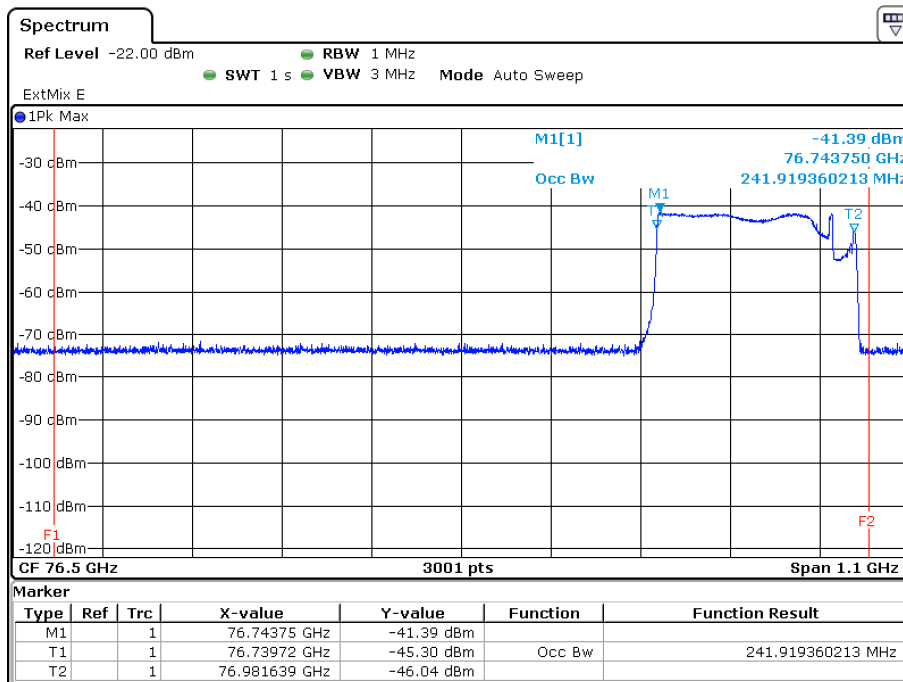
Date: 11.NOV.2021 11:28:21

425 MHz, 20 °C, 9.6 V – Highest channel



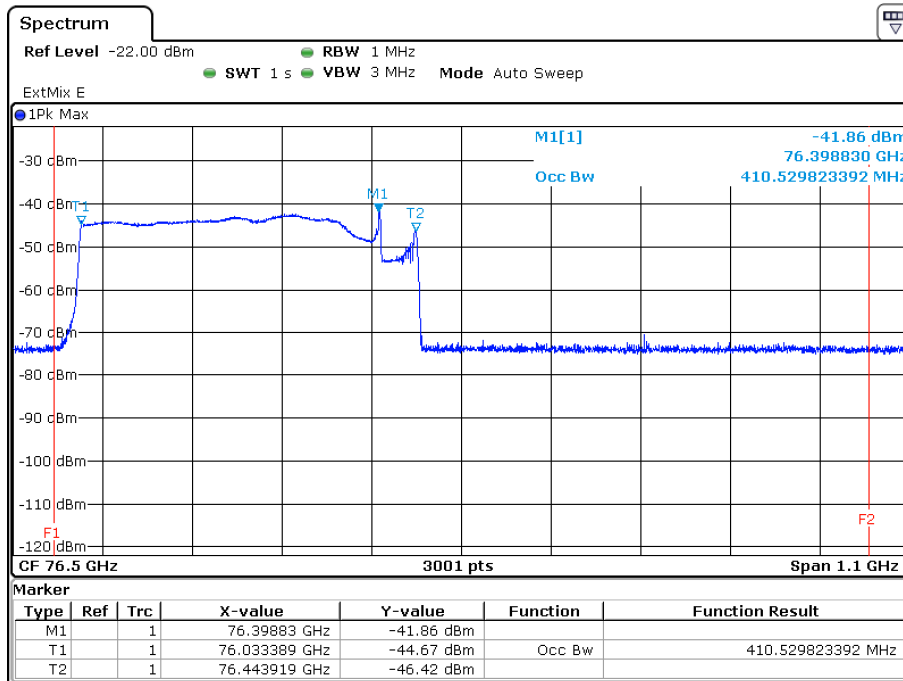
Date: 11.NOV.2021 11:44:22

175 MHz, 20 °C, 16.0 V – Lowest channel



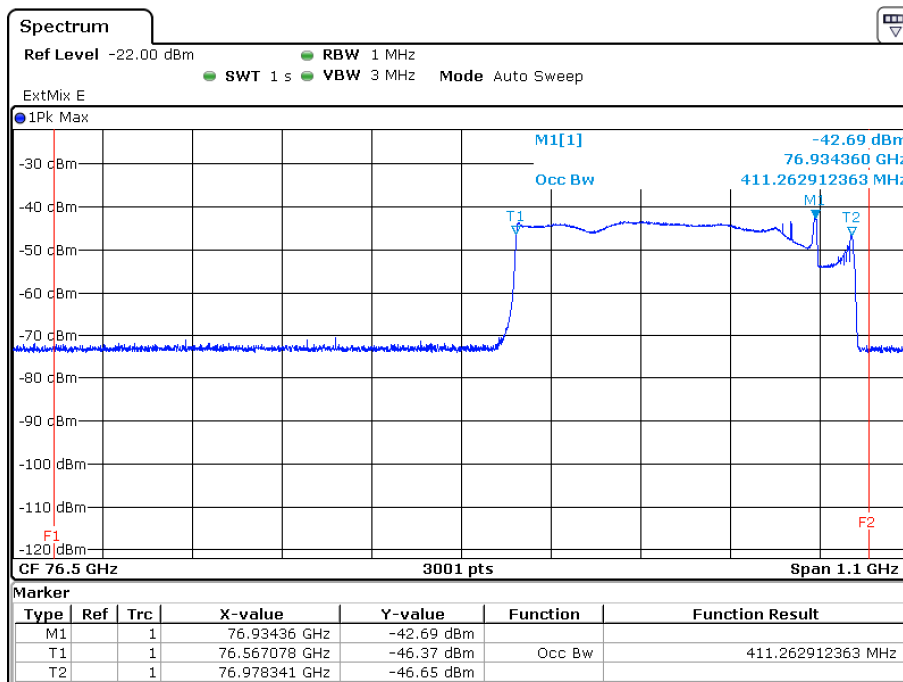
Date: 11.NOV.2021 11:42:22

175 MHz, 20 °C, 16.0 V – Highest channel



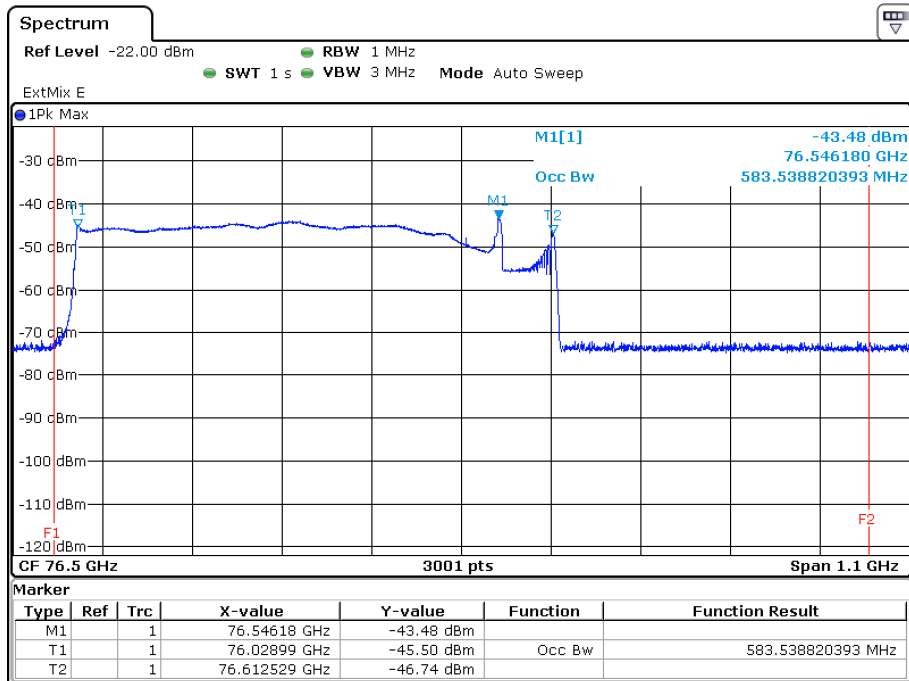
Date: 11.NOV.2021 11:34:45

300 MHz, 20 °C, 16.0 V – Lowest channel



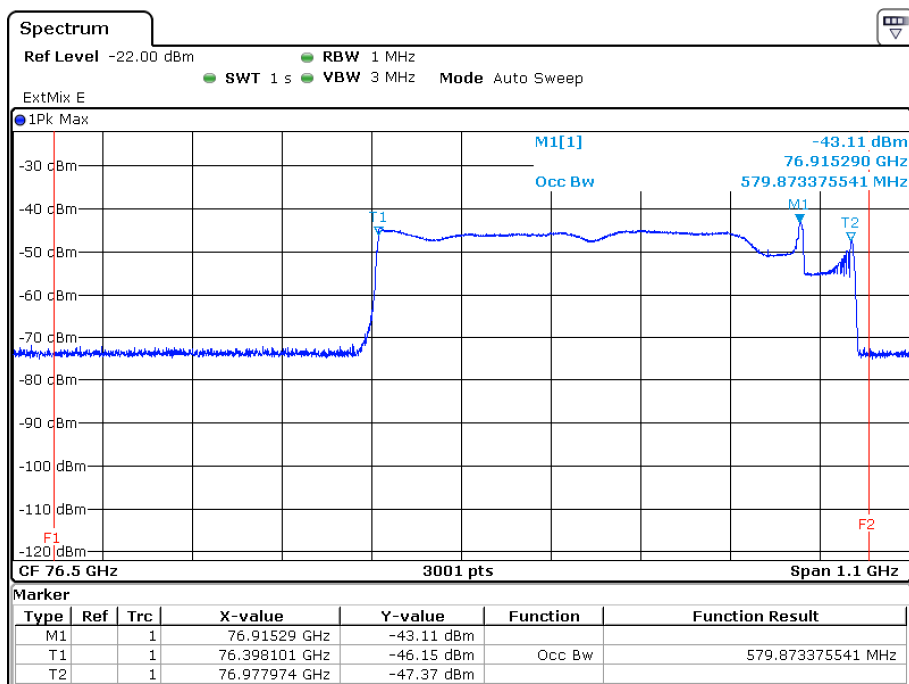
Date: 11.NOV.2021 11:40:45

300 MHz, 20 °C, 16.0 V – Highest channel



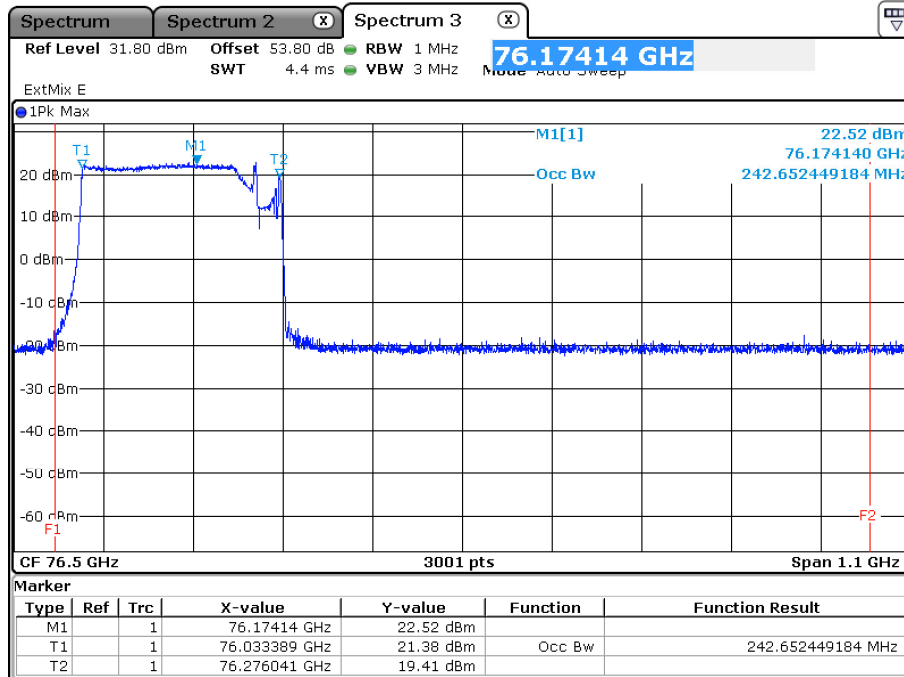
Date: 11.NOV.2021 11:33:34

425 MHz, 20 °C, 16.0 V – Lowest channel



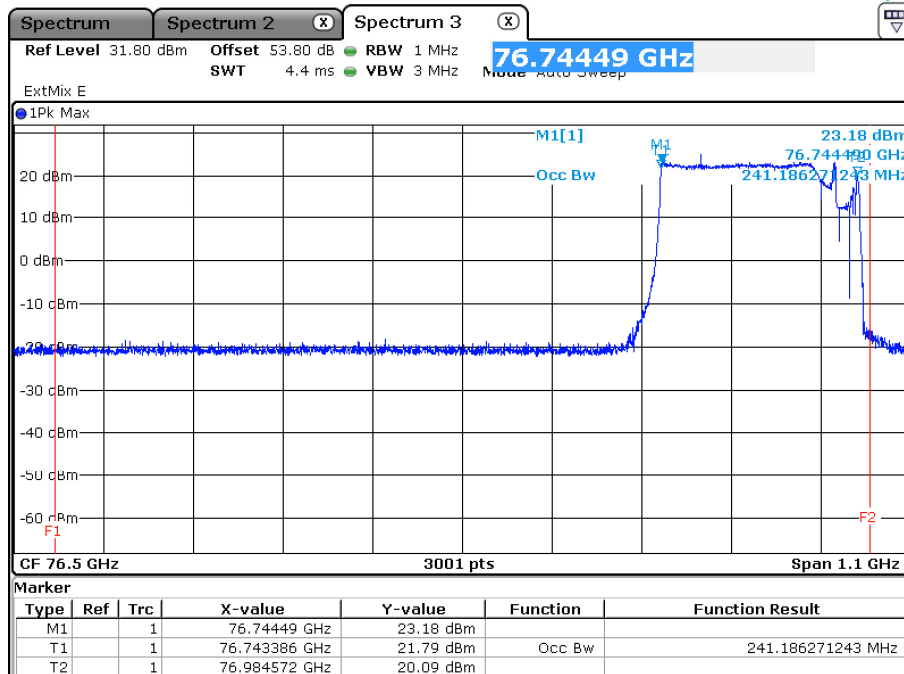
Date: 11.NOV.2021 11:31:39

425 MHz, 20 °C, 16.0 V – Highest channel



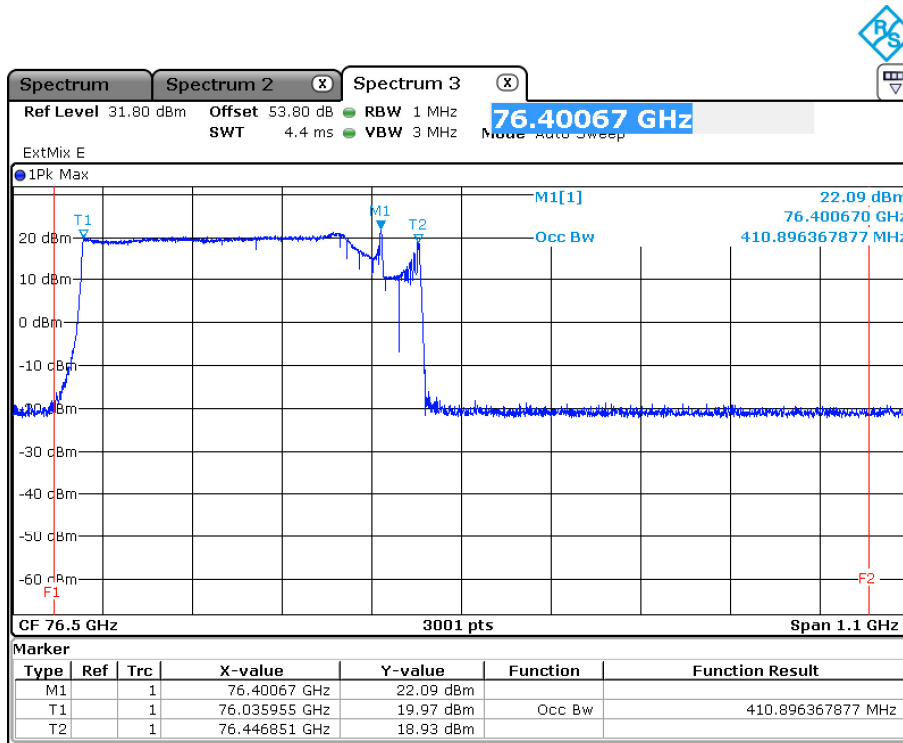
Date: 10.NOV.2021 17:42:19

175 MHz, -40 °C, 13.2 V – Lowest channel



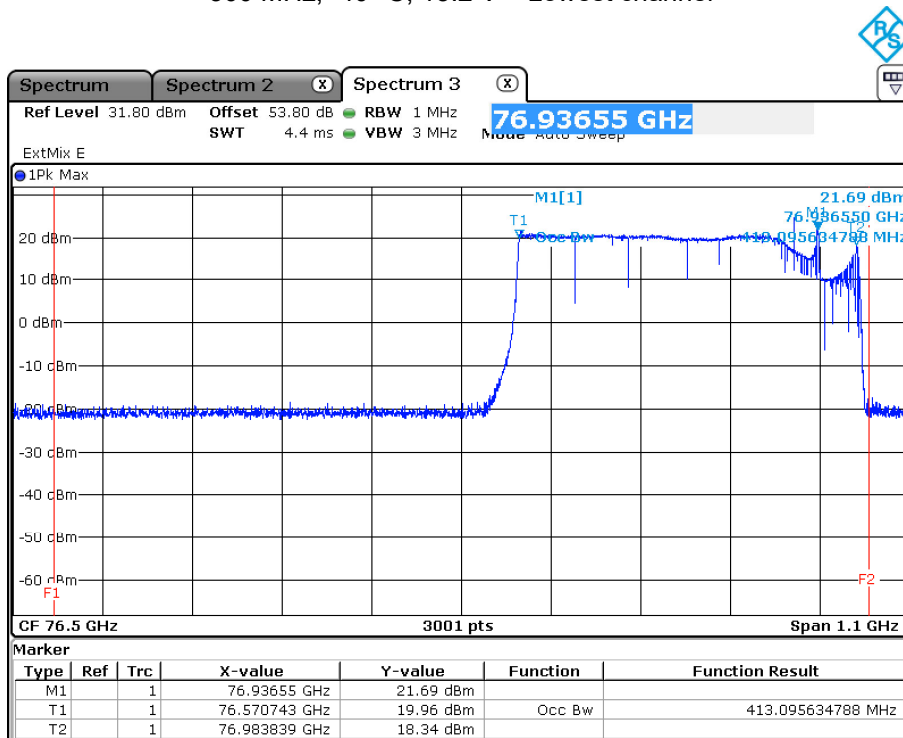
Date: 10.NOV.2021 17:34:11

175 MHz, -40 °C, 13.2 V – Highest channel



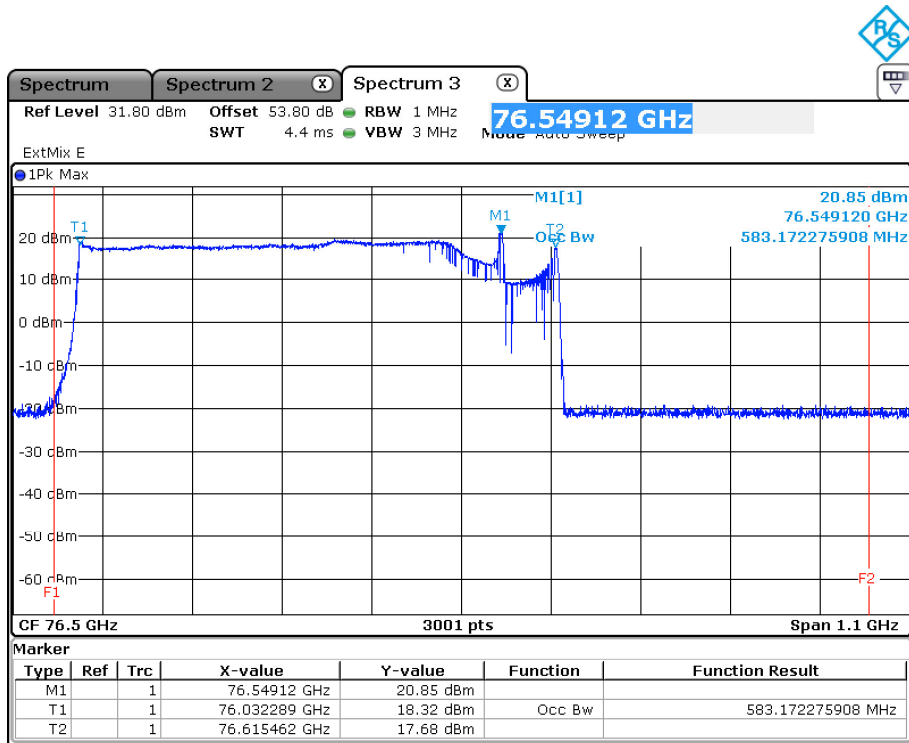
Date: 10.NOV.2021 18:03:50

300 MHz, -40 °C, 13.2 V – Lowest channel



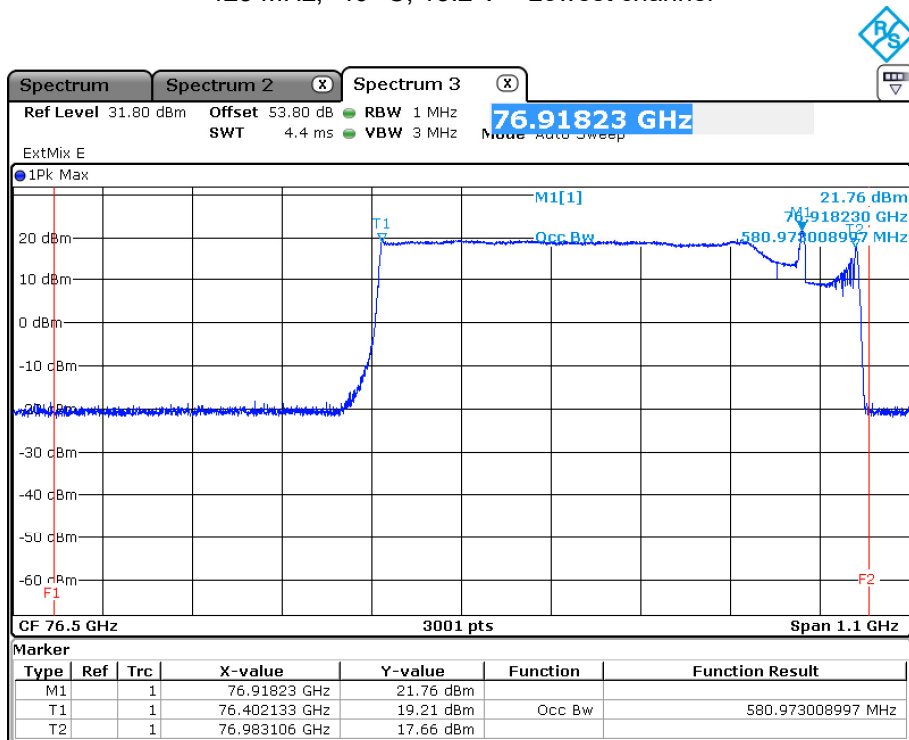
Date: 10.NOV.2021 17:56:24

300 MHz, -40 °C, 13.2 V – Highest channel



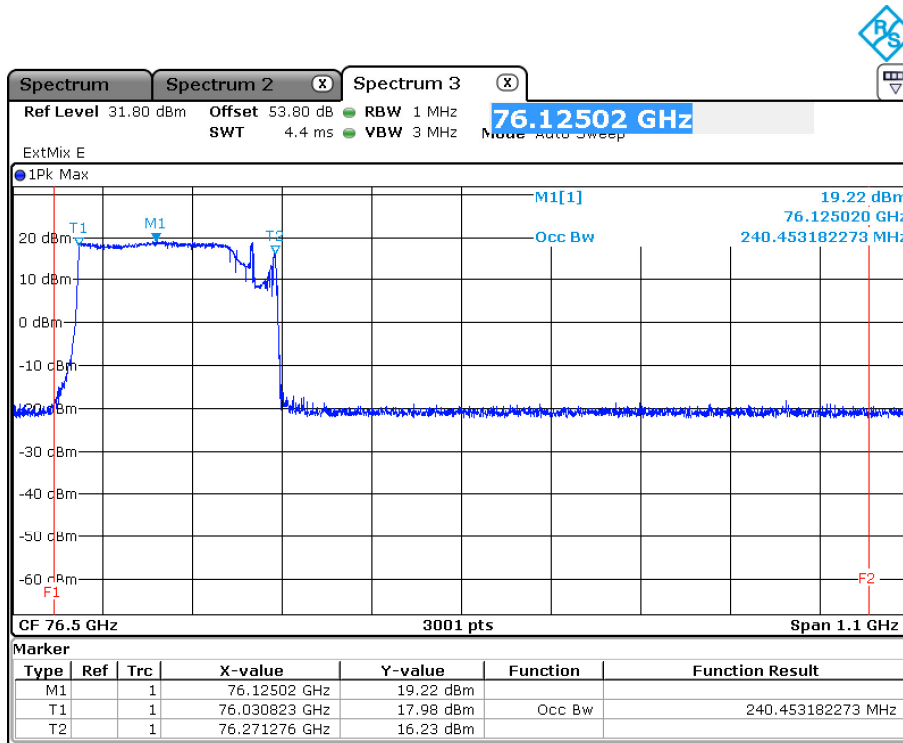
Date: 10.NOV.2021 18:22:07

425 MHz, -40 °C, 13.2 V – Lowest channel



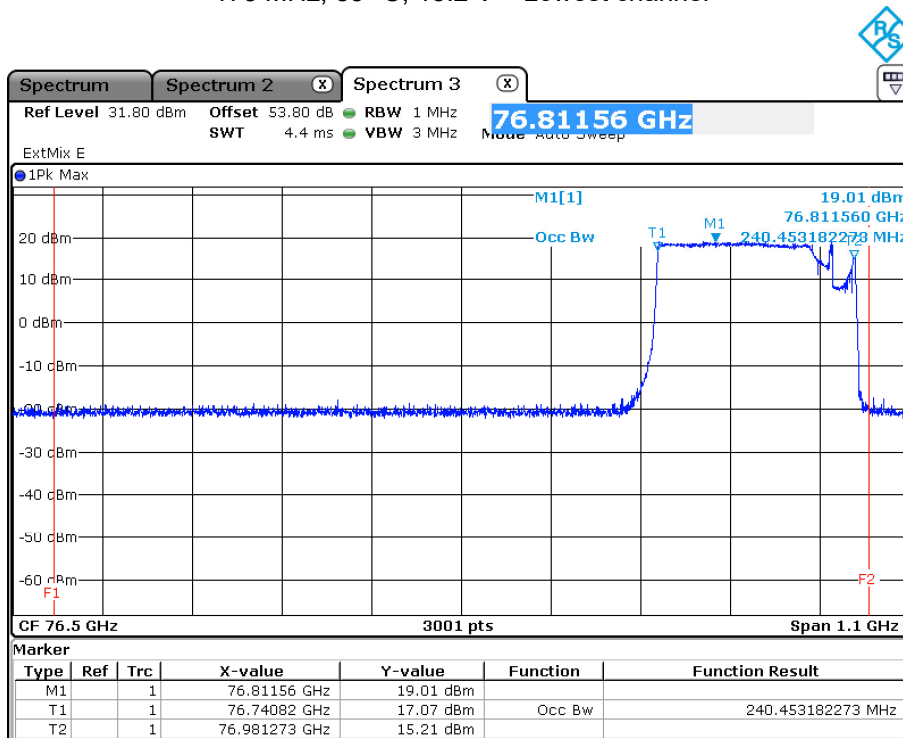
Date: 10.NOV.2021 18:15:29

425 MHz, -40 °C, 13.2 V – Highest channel



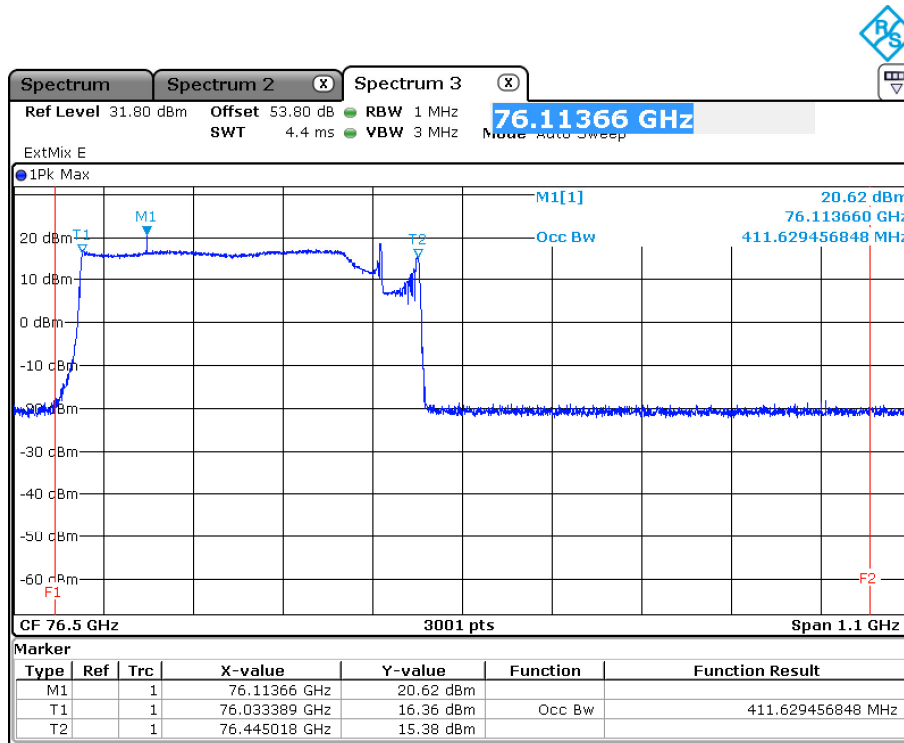
Date: 10.NOV.2021 20:35:24

175 MHz, 85 °C, 13.2 V – Lowest channel



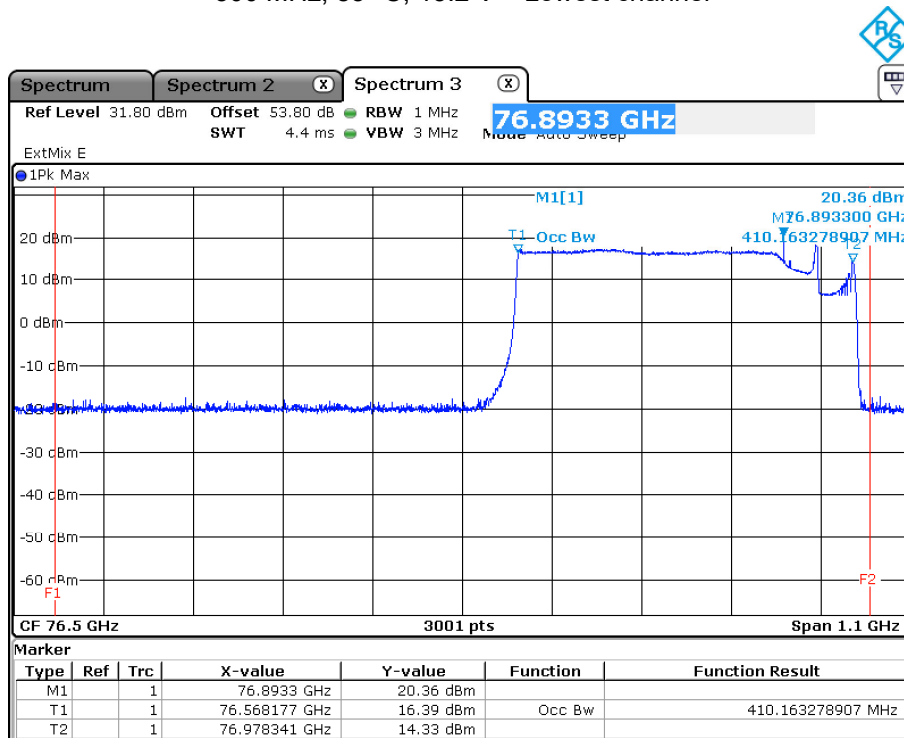
Date: 10.NOV.2021 20:43:02

175 MHz, 85 °C, 13.2 V – Highest channel



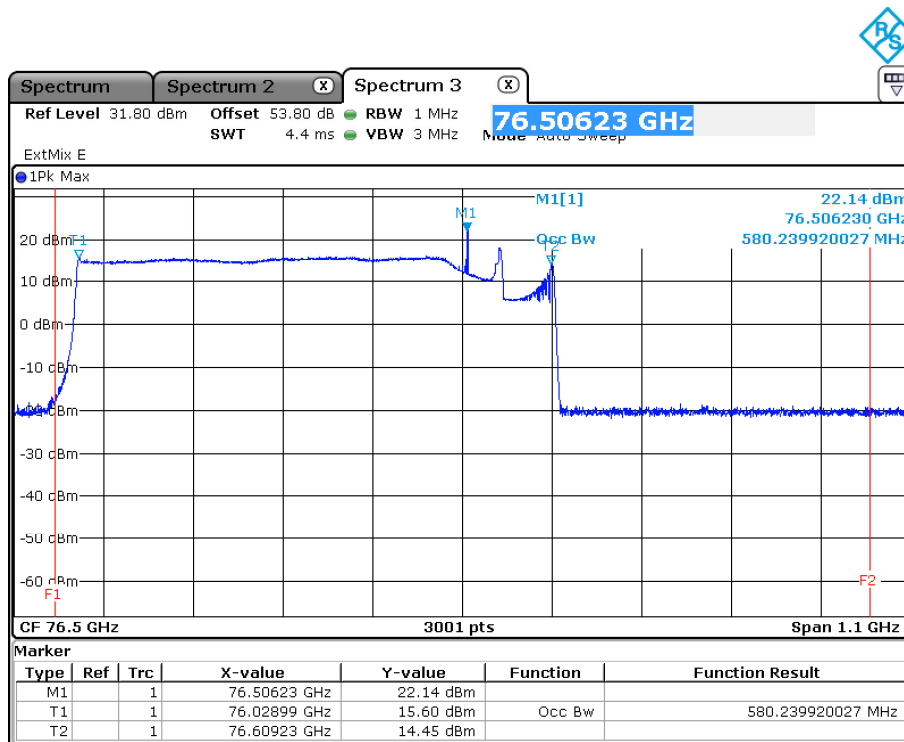
Date: 10.NOV.2021 20:10:04

300 MHz, 85 °C, 13.2 V – Lowest channel



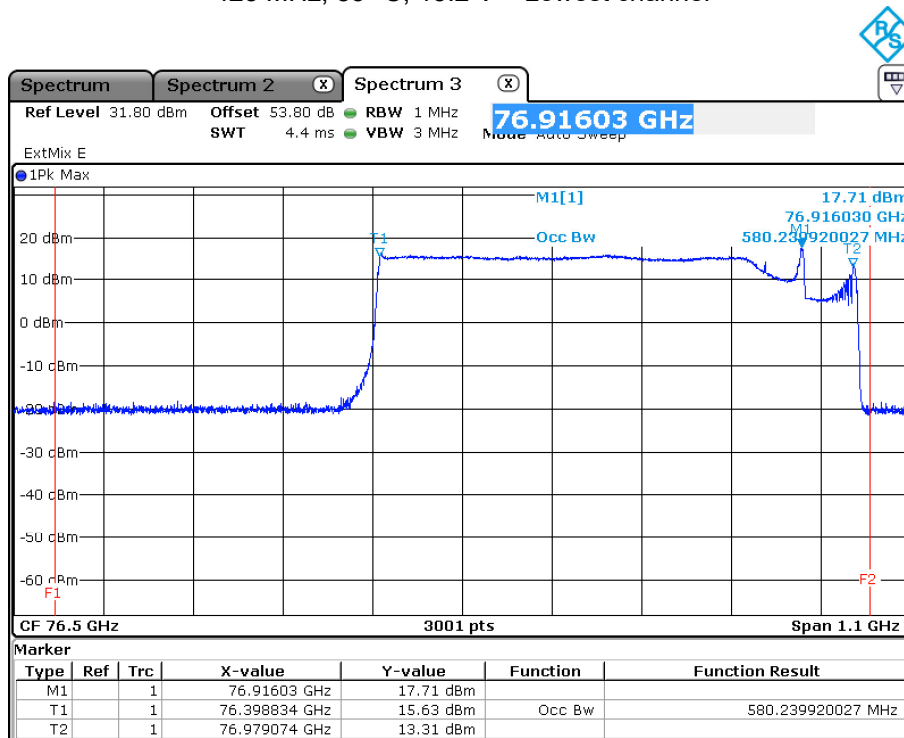
Date: 10.NOV.2021 20:21:03

300 MHz, 85 °C, 13.2 V – Highest channel



Date: 10.NOV.2021 19:45:57

425 MHz, 85 °C, 13.2 V – Lowest channel



Date: 10.NOV.2021 19:53:12

425 MHz, 85 °C, 13.2 V – Highest channel



11 Revision History

Revision History			
<i>Edition</i>	<i>Date</i>	<i>Issued by</i>	<i>Modifications</i>
1	2021-11-22	Alex Fink	First Edition
2	2021-12-02	Alex Fink	RSS Gen Issue corrected.