



FCC PART 15 TEST REPORT No.23T04Z80206-07

for

OnePlus Technology (Shenzhen) Co., Ltd.

Mobile Phone

CPH2611

2ABZ2-AA560

With

Hardware Version: 11

Software Version: OxygenOS V14.0

Issued Date: 2023-11-27

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: ctl_terminals@caict.ac.cn, website: www.caict.ac.cn



REPORT HISTORY

Report Number	Revision	Description	Issue Date
23T04Z80206-07	Rev.0	1st edition	2023-11-09
23T04Z80206-07	Rev.1	Update the master device information on page 9. Update the Statements on page 7 Add the result of Channel puncturing.	2023-11-27

Note: the latest revision of the test report supersedes all previous version.

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2. Testing Location

Conducted testing Location: CTTL(Huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China100191

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project date

Testing Start Date: 2023-09-26

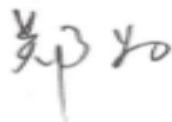
Testing End Date: 2023-11-09

1.5. Signature



Yao Xingyu

(Prepared this test report)



Zheng Wei

(Reviewed this test report)



Pang Shuai

(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: OnePlus Technology (Shenzhen) Co., Ltd.
Address: 18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.
City: Shenzhen
Postal Code: /
Country: China
Telephone: (86)75561882366
Fax: /

2.2. Manufacturer Information

Company Name: OnePlus Technology (Shenzhen) Co., Ltd.
Address: 18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.
City: Shenzhen
Postal Code: /
Country: China
Telephone: (86)75561882366
Fax: /

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Mobile Phone
Model name	CPH2611
FCC ID	2ABZ2-AA560
WLAN Frequency Band	ISM Band: -5250MHz~5350MHz -5470MHz~5725MHz
Type of modulation	OFDM
Antenna	Integral Antenna
Extreme vol. Limits	3.8V
Device Type (DFS)	Client without radar detection(only support client mode)
TPC mechanism	Not support
Antenna gain	-1.0dBi
Nominal Voltage	7.82V
Extreme High Voltage	9V
Extreme Low Voltage	6.6V

3.2. Internal Identification of EUT used during the test

EUT ID*	S/N	HW Version	SW Version	Date of receipt
UT01a	869135060024092/ 869135060024084	11	OxygenOS V14.0	2023-09-26

*EUT ID: is used to identify the test sample in the lab internally.

3.3. General Description

The Equipment Under Test (EUT) is a model of Mobile Phone with integrated antenna. It consists of normal options: lithium battery, charger. Manual and specifications of the EUT were provided to fulfil the test.

4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

FCC Part15	FCC CFR 47, Part 15, Subpart E: 15.407 General technical requirements.	2021
KDB 905462 D03	UNII Clients Without Radar Detection New Rules v01r02	2016
KDB 905642 D02	UNII DFS Compliance Procedures New Rules v02	2016

5. Laboratory Environment

Measurement is performed in shielding room.

6. Test Results

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15E	Verdict
Channel move time and channel closing transmission time	15.407 (h)(2)(iii)	P
Non-Occupancy Period	15.407 (h)(2) (iv)	P

Please refer to **ANNEX A** for detail.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NM	Not measured, The test was not measured by CTTL
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. Statements

CTTL has evaluated the test cases requested by the client/manufacturer as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.1.

This report only deal with the UNII DFS functions among the features described in section 3, and The EUT met all requirements of the reference documents.

The end user is not available to get and modify the parameters of the detected Radar Waveforms in this product.

6.3. Test Conditions

For this report, all the test cases are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	26°C
Voltage	7.82V
Humidity	44%

7. Test Facilities Utilized

Conducted test system

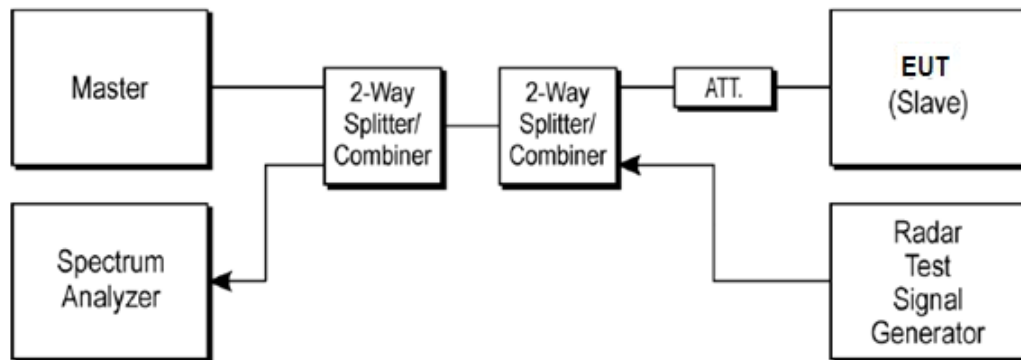
No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due Date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2024-07-04
2	Vector Signal Generator	SMU200A	103752	Rohde & Schwarz	1 year	2024-07-04
3	Shielding Room	S81	/	ETS-Lindgren	/	/

ANNEX A: Detailed Test Results

A.1. Measurement Method

A.1.1. Conducted Measurements

The below figure shows the DFS setup, where the EUT is a WLAN device operating in slave mode, without Radar Interference Detection function. This setup also contains a device operating in master mode. The radar test signals are injected into the master device. The EUT (slave device) is associated with the master device. WLAN traffic is generated by streaming the mpeg file from the master to the slave in full monitor video mode using the media player.



Note:

- 1) All Measurements are performed with the EUT's narrowest channel bandwidth.
- 2) The master device information is as follows
 Vendor: ASUS
 Model: GT-AXE11000
 FCC ID: MSQ-RTAXJF00
- 3) The software of radar signal generator (R&S SMU200A) is completely designed based on KDB 905462 requirement.

A.1.2. Parameters of DFS test signal

1). Interference threshold values, master or client incorporation in service monitoring. For device power less than 23dBm (E.I.R.P.), the threshold level is -62 dBm at the antenna port after correction for antenna gain and procedural adjustments.

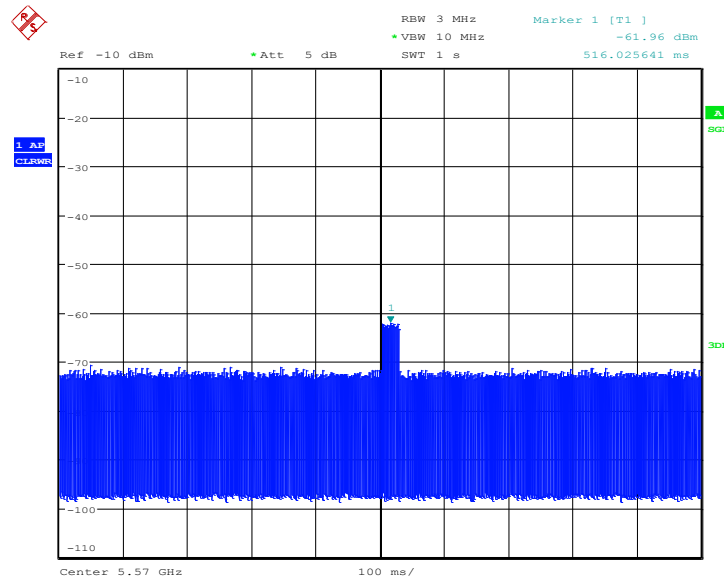
Because of conducted measurement performed, the calibration power from radar signal generator to antenna port of DFS test equipment is -62 dBm.

Maximum Transmit Power	Value
> 200 mW	-64 dBm
< 200 mW	-62 dBm

The radar Detection Threshold, lowest antenna gain is the parameter of interference radar DFS detection threshold.

One 10 Second plot bee reported for the short Pulse Radar type 1-4, the type 0 was be used, which was selected by auto test software.

Radar Waveform Calibration Result:



Date: 27.JUN.2023 18:42:40

Fig.A.1 160M Calibration Result

2). DFS requirement values

The required values are as the following table.

Parameter	Value
Non-occupancy	> 1800 s
Channel Availability Check Time	60 s
Channel Move Time	10 s
Channel Closing Transmission Time	200 ms + 60 ms
U-NII Detection Bandwidth	Minimum 80% of the 99% transmission power bandwidth

As the EUT is IP based system, the MPEG video file from NTIA website is used to steam to EUT via the Master device.

A.1.3. Measurement Uncertainty

Item	Measurement Uncertainty
Time	0.70 ms
Power	0.75 dBm

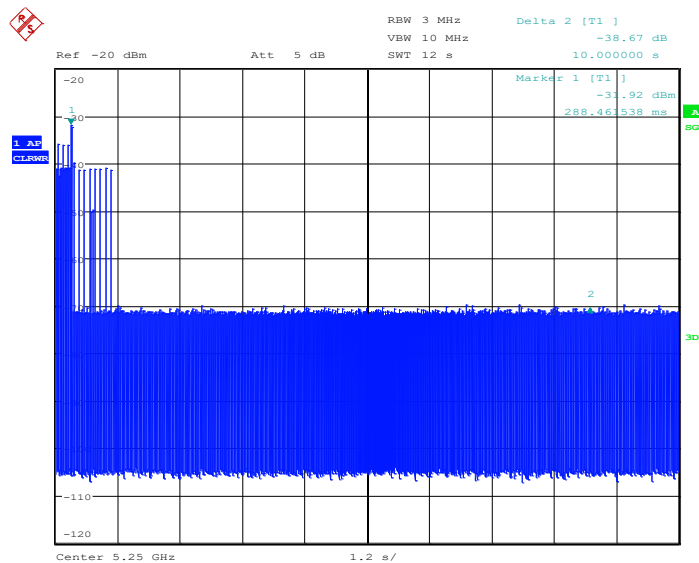
A.2. Channel move time and channel closing transmission time

Measurement Limit:

Test Items	Limit
channel closing transmission time	< 200 ms + 60 ms
Channel move time	< 10 s

Measurement Results:

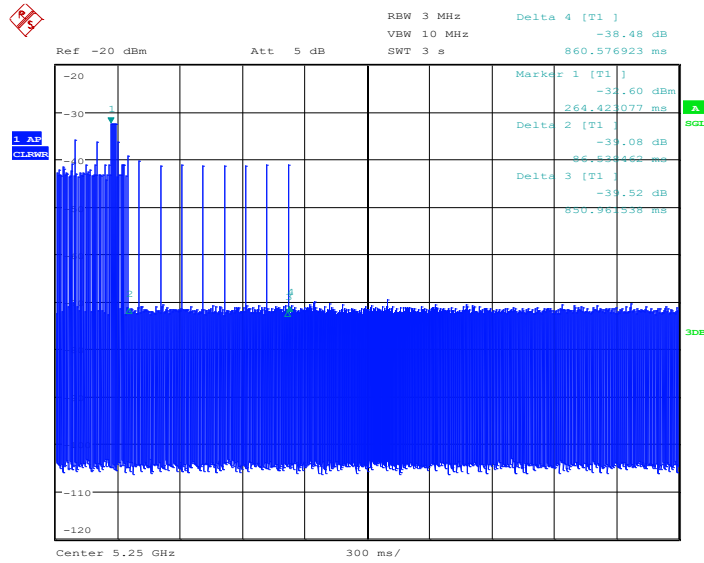
Frequency Band: 5250MHz ~ 5350MHz(160M)



Date: 9.OCT.2023 14:55:30

Fig.A.2 Channel move time

The channel move time is as the figure. It shows the time of the radar and the client pulses. The figure shows that the client stops transmission within 10 seconds, and no transmissions occur after 10 seconds later of the radar burst signal.



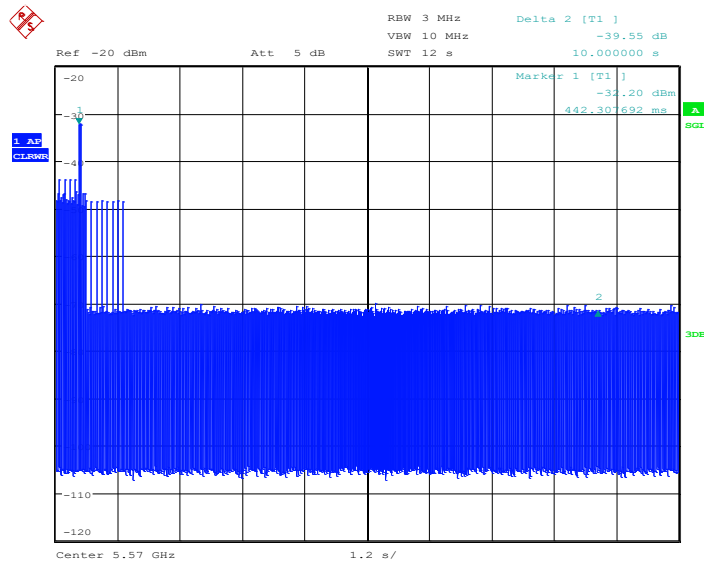
Date: 9.OCT.2023 14:21:15

Fig.A.3 channel closing transmission time

The closing transmission time is as the figure, and the result is $163.50\text{ms} = \text{Delta}2 + (\text{Delta}4 - \text{Delta}3) * 8$.

Conclusion: PASS

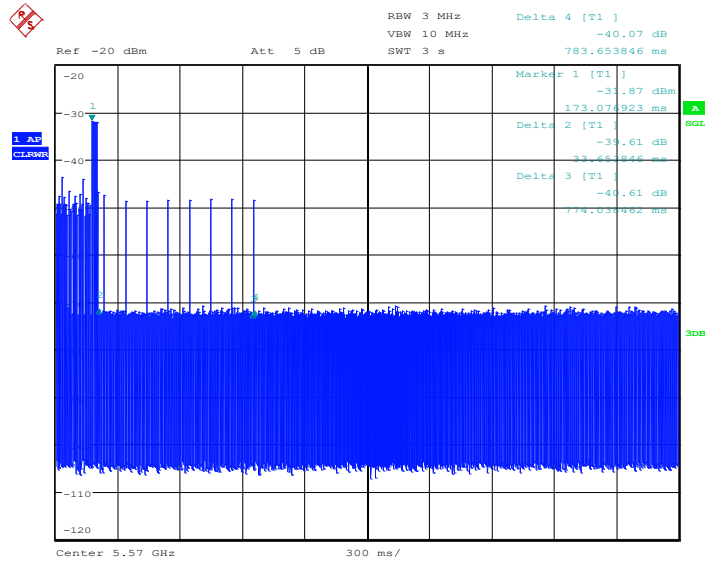
Frequency Band 5470MHz ~ 5725MHz(160M)



Date: 10.OCT.2023 14:29:04

Fig.A.4 Channel move time

The channel move time is as the figure. It shows the time of the radar and the client pulses. The figure shows that the client stops transmission within 10 seconds, and no transmissions occur after 10 seconds later of the radar burst signal.



Date: 10.OCT.2023 14:06:01

Fig.A.5 channel closing transmission time

The closing transmission time is as the figure, and the result is $110.53\text{ms} = \text{Delta}2 + (\text{Delta}4 - \text{Delta}3) * 8$.

Conclusion: PASS

A.3.Non-Occupancy Period

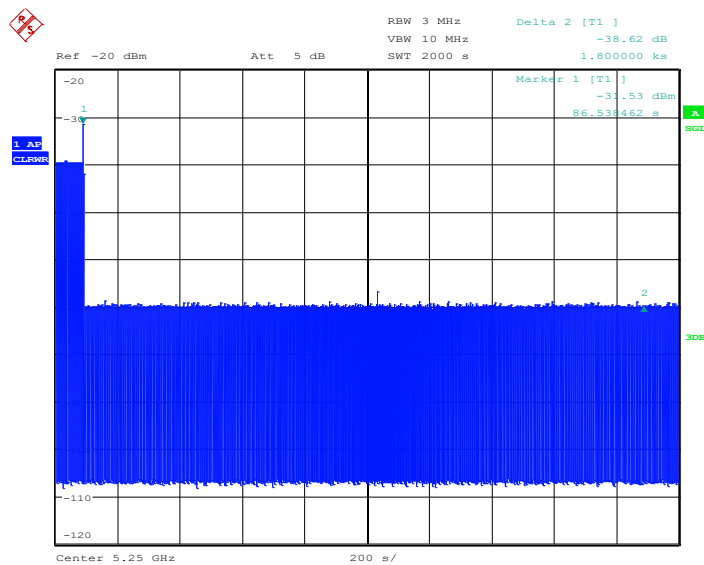
Measurement Limit:

Test Items	Limit
Non-Occupancy Period	> 1800 s

A3.1 Associated test

Associate the master and client, transmit specified stream between the master and client; monitor the analyzer on the operating frequency to make sure no beacons have been transmitted for 1800 seconds.

Frequency Band: 5150MHz ~ 5350MHz(160M)

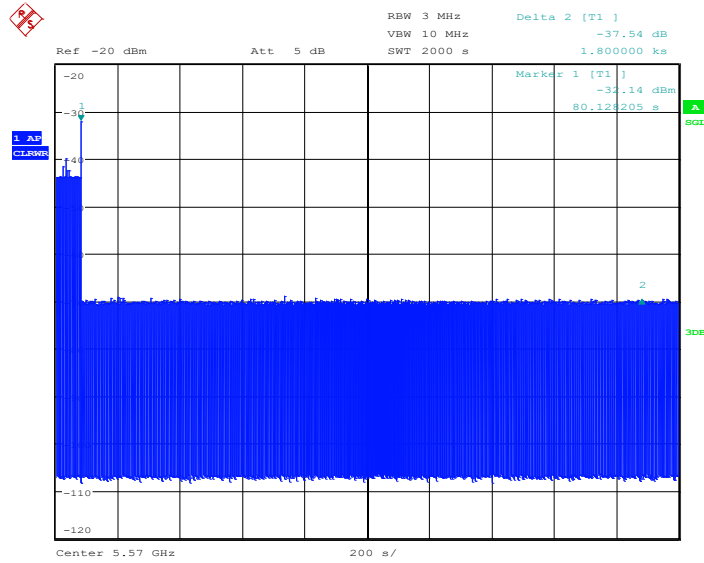


Date: 9.OCT.2023 16:48:43

Fig.A.6 Non-Occupancy Period

The figure above shows that the client does not transmit any emission within 1800 seconds after getting the order of “stop transmits” from the DFS master (access point).

Conclusion: PASS

Frequency Band: 5470MHz ~ 5725MHz(160M)


Date: 10.OCT.2023 15:34:17

Fig.A.7 Non-Occupancy Period

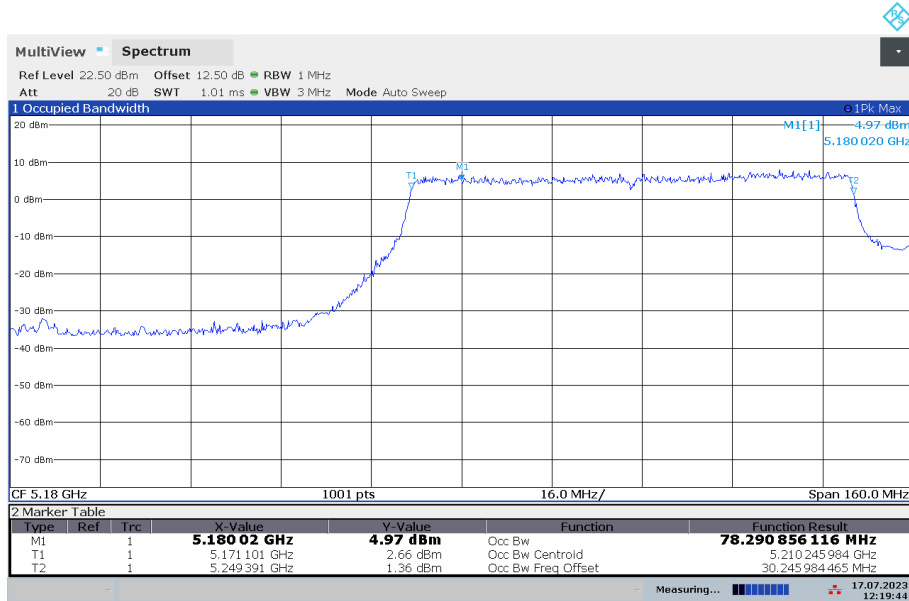
The figure above shows that the client does not transmit any emission within 1800 seconds after getting the order of “stop transmits” from the DFS master (access point).

Conclusion: PASS
A.4.Channel puncturing
A.4.1Check 99% OBW

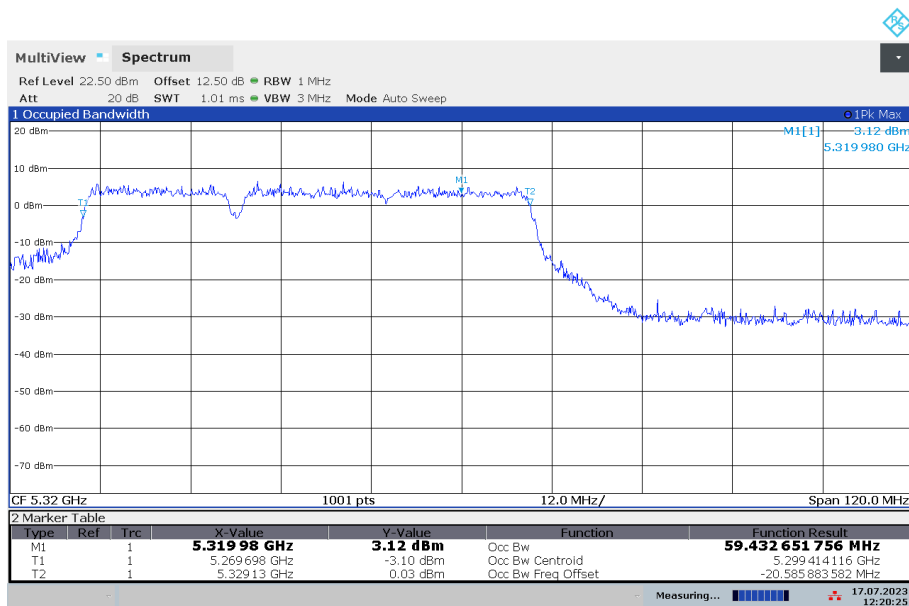
Test Mode	Antenna	Fre (MHz)	Puncturing	configure	OCB
11BE160MIMO	Ant9	5250	Puncturing 20M	5	78.37
		5250	Puncturing 20M		59.72
	Ant15	5250	Puncturing 20M	5	78.29
		5250	Puncturing 20M		59.43
	Ant9	5250	Puncturing 20M	6	98.50
		5250	Puncturing 20M		38.24
	Ant15	5250	Puncturing 20M	6	98.47
		5250	Puncturing 20M		38.39
	Ant9	5250	Puncturing 20M	7	117.85
		5250	Puncturing 20M		19.19
	Ant15	5250	Puncturing 20M	7	117.89
		5250	Puncturing 20M		19.06
	Ant9	5250	Puncturing 20M	8	138.48
		5250	Puncturing 20M		138.37
Ant9	5250	Puncturing 40M	3	78.23	
	5250	Puncturing 40M		38.29	
Ant15	5250	Puncturing 40M	3	78.15	

		5250	Puncturing 40M		38.28
	Ant9	5250	Puncturing 40M	4	118.05
	Ant15	5250	Puncturing 40M	4	118.23
	Ant9	5570	Puncturing 20M	1	138.45
	Ant15	5570	Puncturing 20M	1	138.65
	Ant9	5570	Puncturing 20M	2	19.21
		5570	Puncturing 20M		118.22
	Ant15	5570	Puncturing 20M	2	19.02
		5570	Puncturing 20M		118.21
	Ant9	5570	Puncturing 20M	3	38.34
		5570	Puncturing 20M		99.67
	Ant15	5570	Puncturing 20M	3	38.31
		5570	Puncturing 20M		99.56
	Ant9	5570	Puncturing 20M	4	59.75
		5570	Puncturing 20M		78.40
	Ant15	5570	Puncturing 20M	4	59.44
		5570	Puncturing 20M		78.43
	Ant9	5570	Puncturing 20M	5	78.37
		5570	Puncturing 20M		59.65
	Ant15	5570	Puncturing 20M	5	78.33
		5570	Puncturing 20M		59.77
	Ant9	5570	Puncturing 20M	6	98.34
		5570	Puncturing 20M		38.29
	Ant15	5570	Puncturing 20M	6	98.56
		5570	Puncturing 20M		38.33
	Ant9	5570	Puncturing 20M	7	117.87
		5570	Puncturing 20M		19.04
	Ant15	5570	Puncturing 20M	7	117.89
		5570	Puncturing 20M		19.09
	Ant9	5570	Puncturing 20M	8	138.30
	Ant15	5570	Puncturing 20M	8	138.24
	Ant9	5570	Puncturing 40M	1	118.21
	Ant15	5570	Puncturing 40M	1	118.42
	Ant9	5570	Puncturing 40M	2	38.20
		5570	Puncturing 40M		78.32
	Ant15	5570	Puncturing 40M	2	38.31
		5570	Puncturing 40M		78.35
	Ant9	5570	Puncturing 40M	3	78.14
		5570	Puncturing 40M		38.14
	Ant15	5570	Puncturing 40M	3	78.28
		5570	Puncturing 40M		38.46
	Ant9	5570	Puncturing 40M	4	118.35
	Ant15	5570	Puncturing 40M	4	118.28

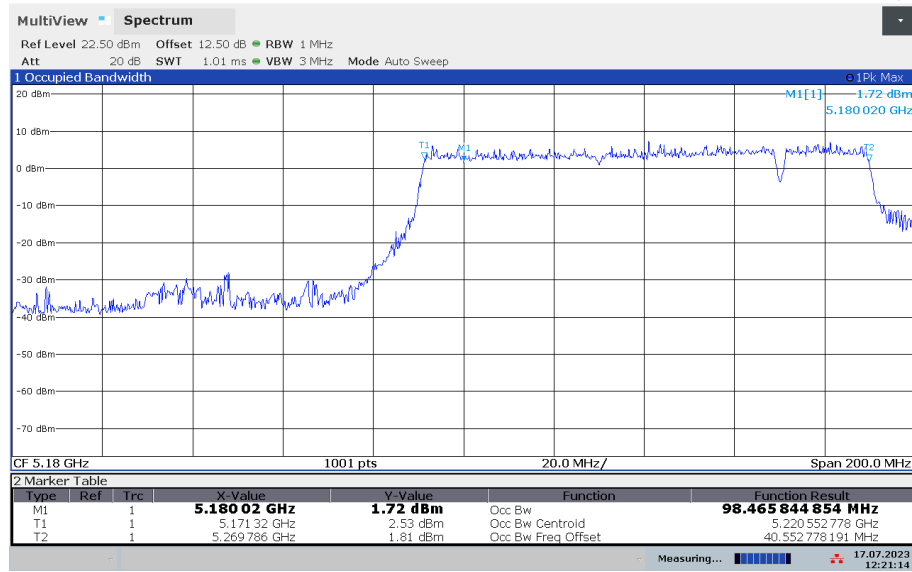
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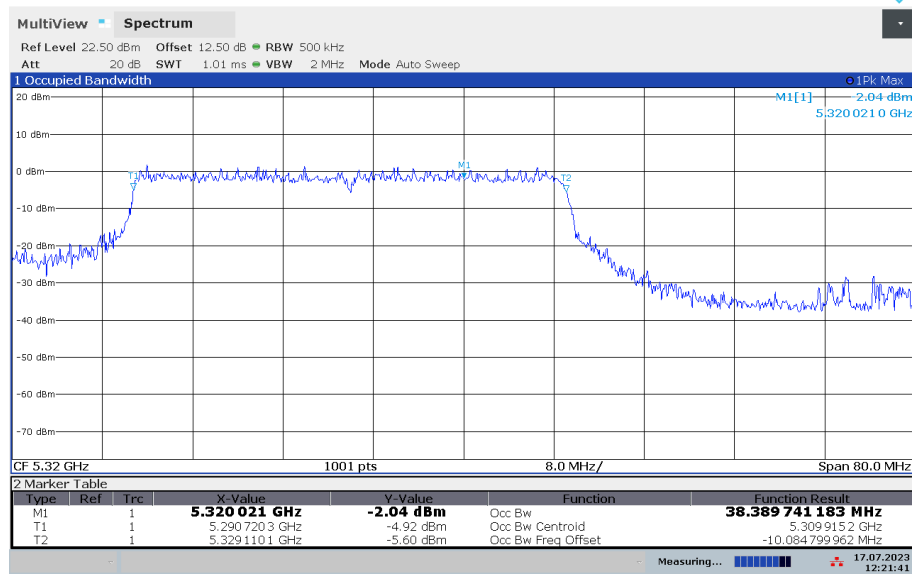
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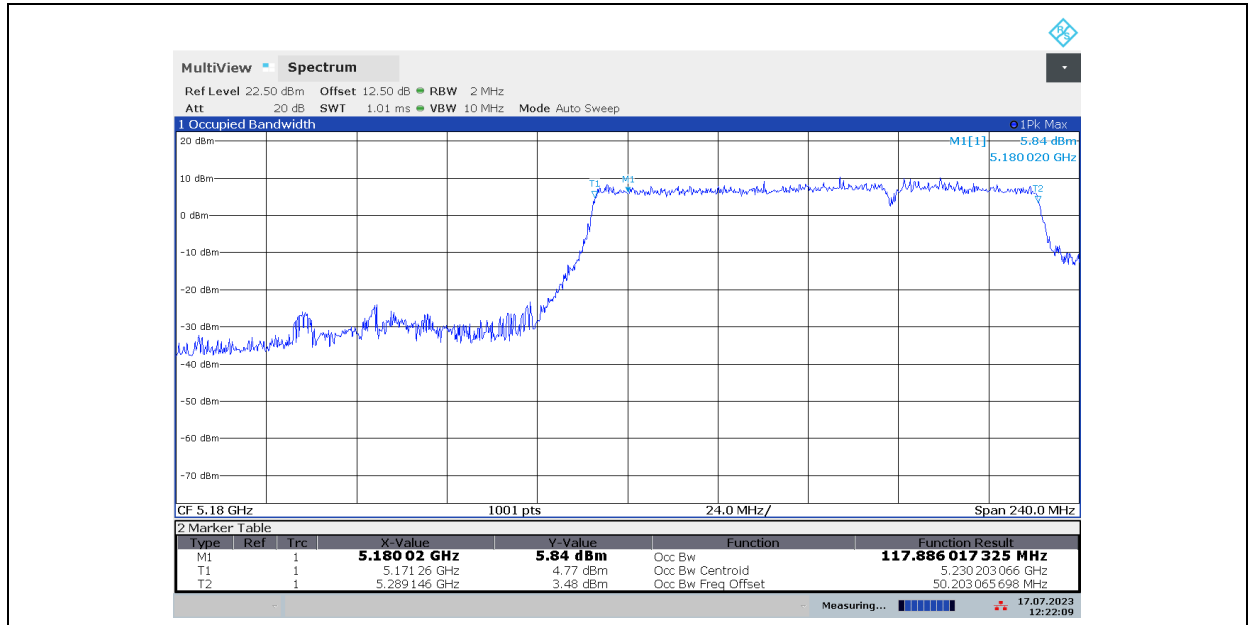
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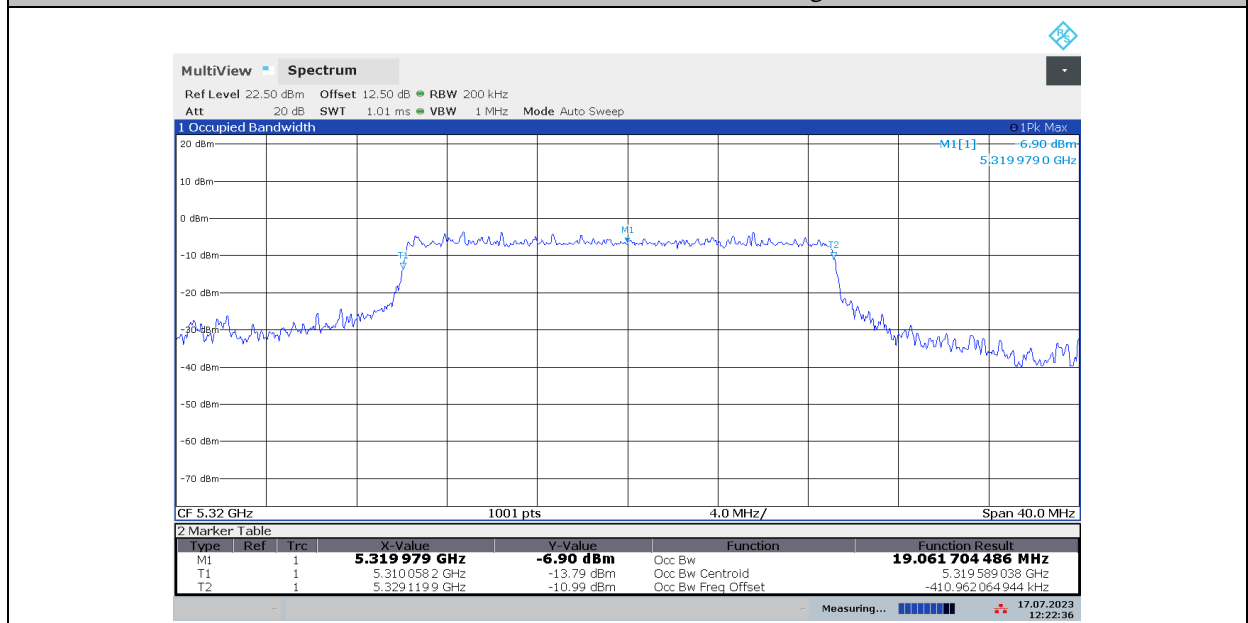
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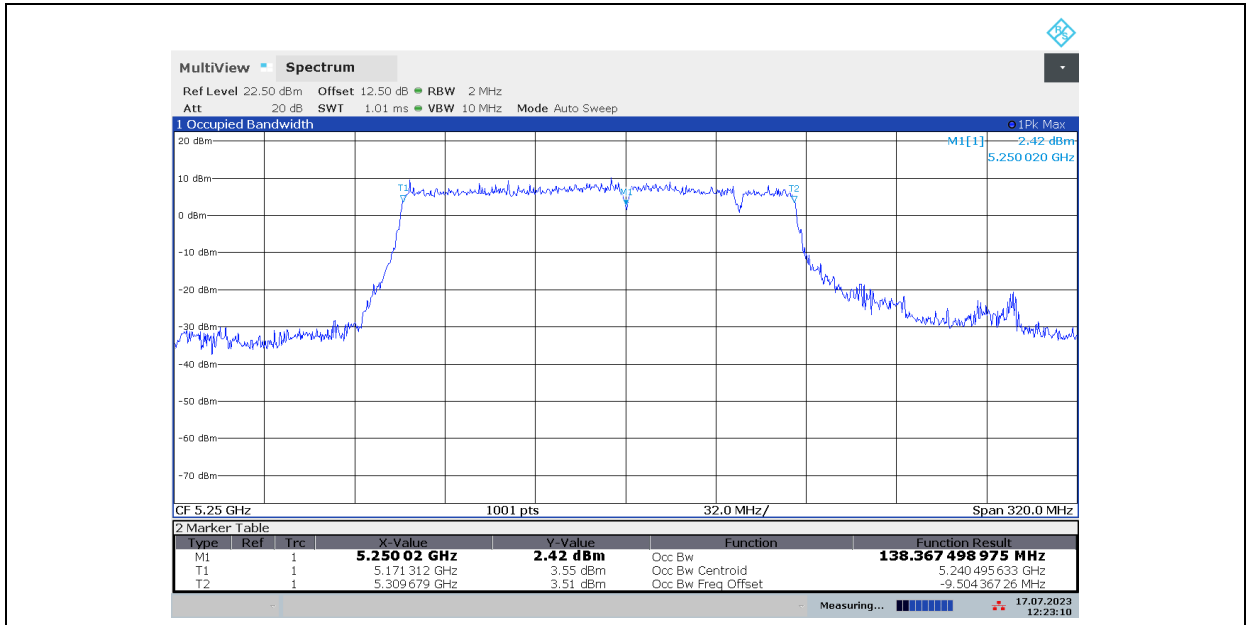
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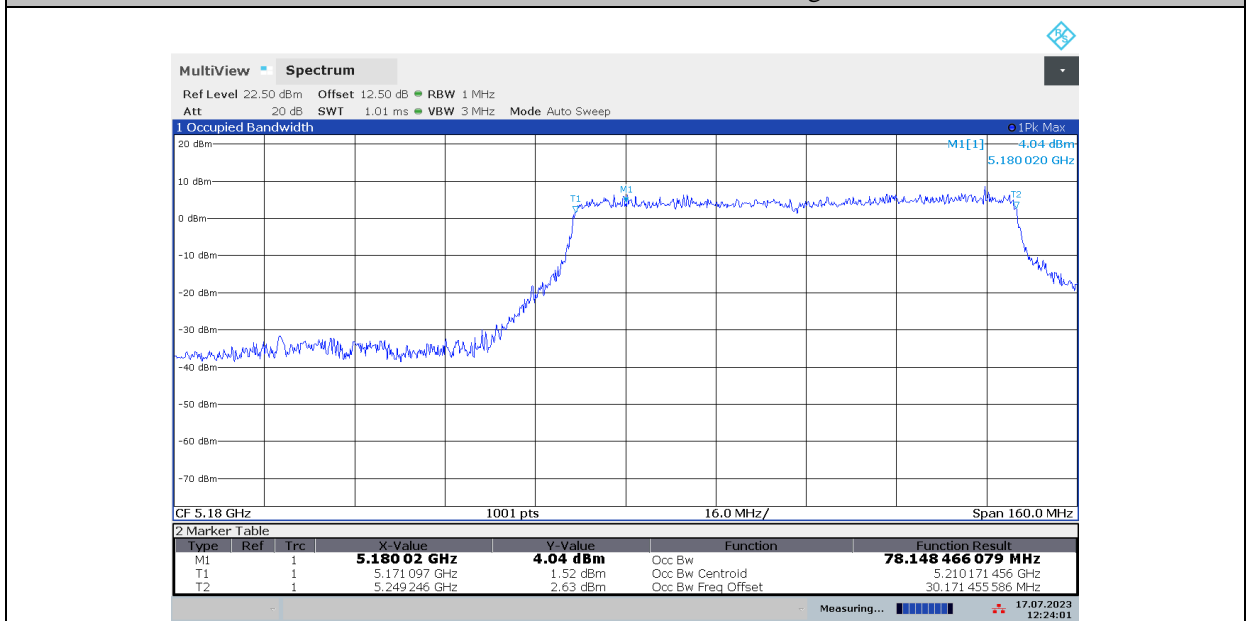
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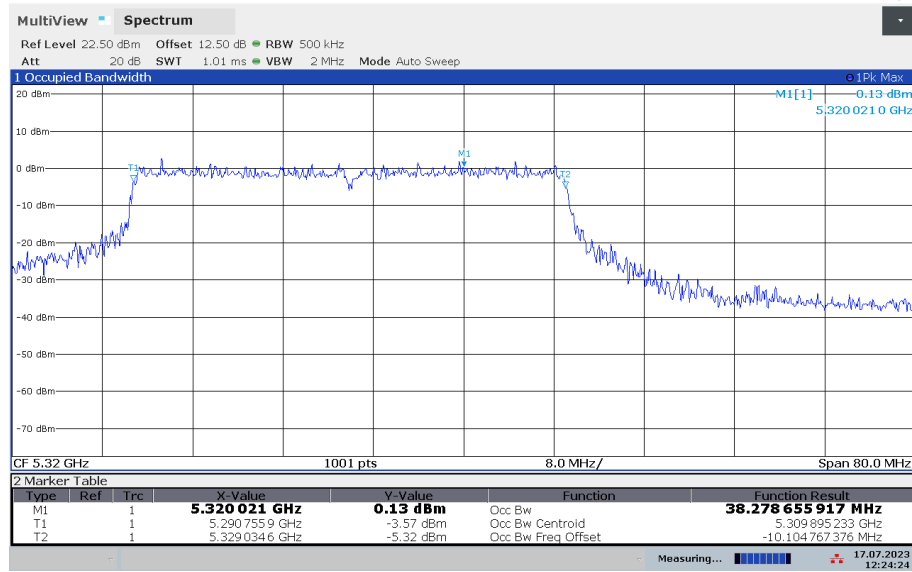
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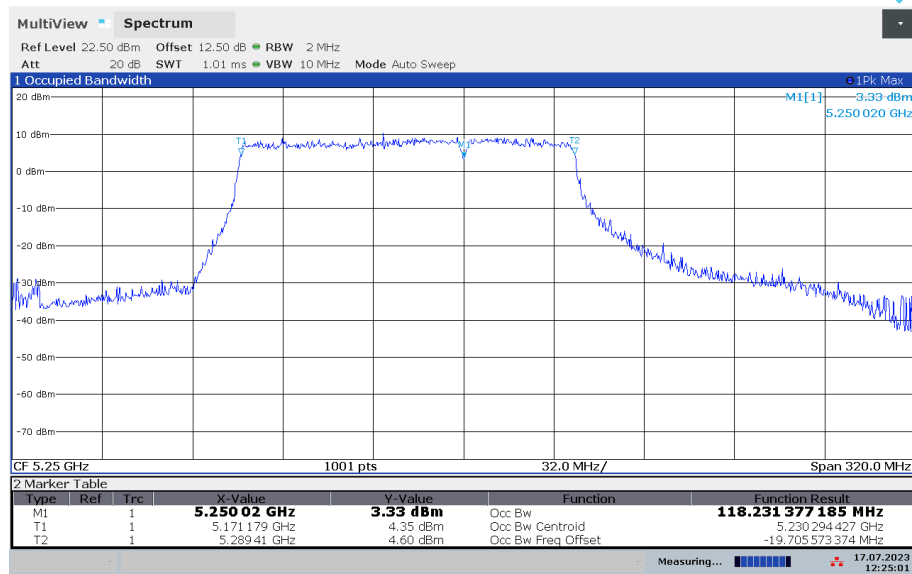
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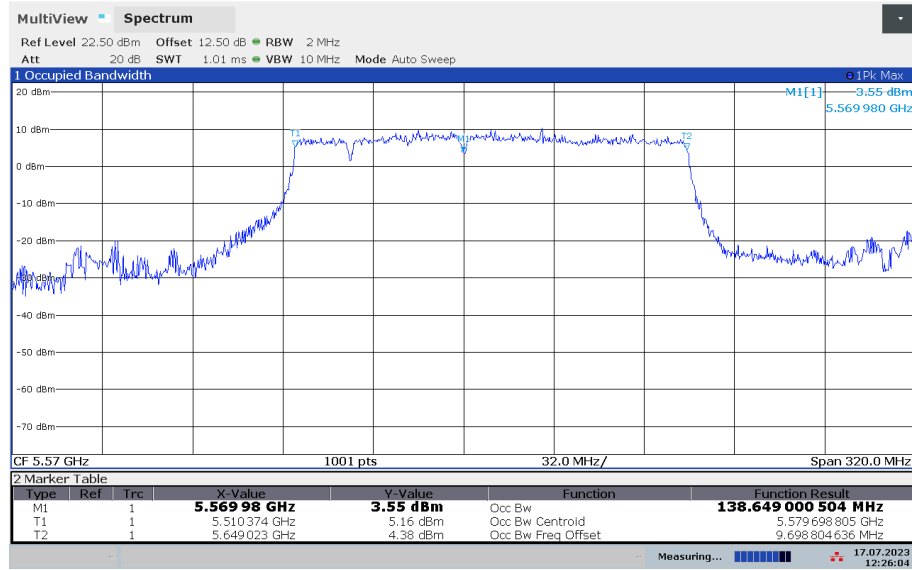
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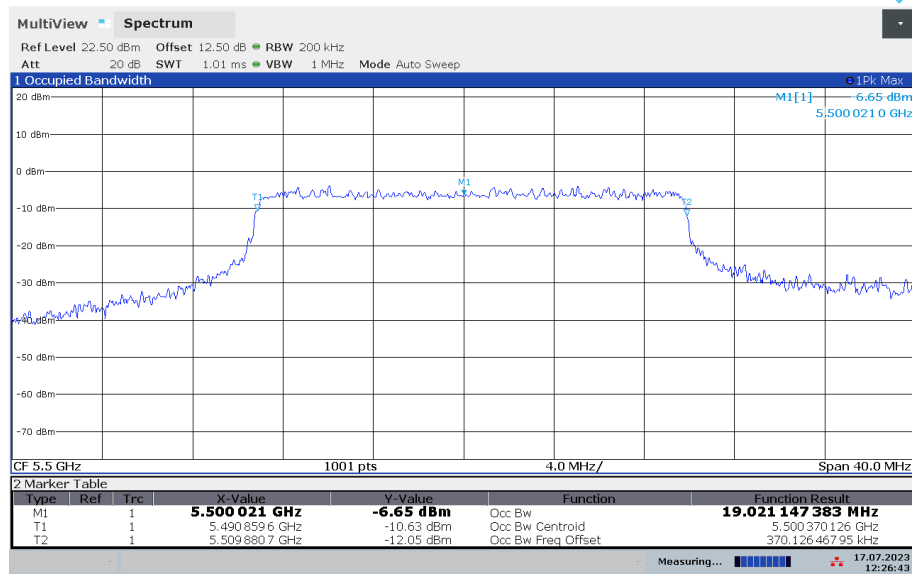
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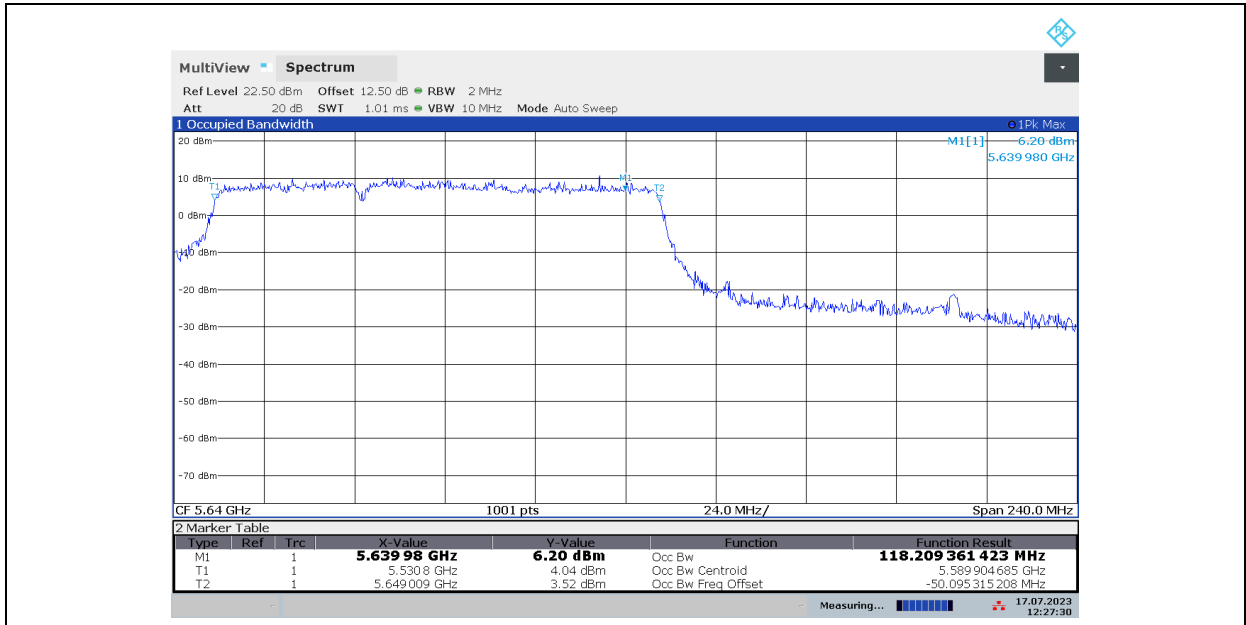
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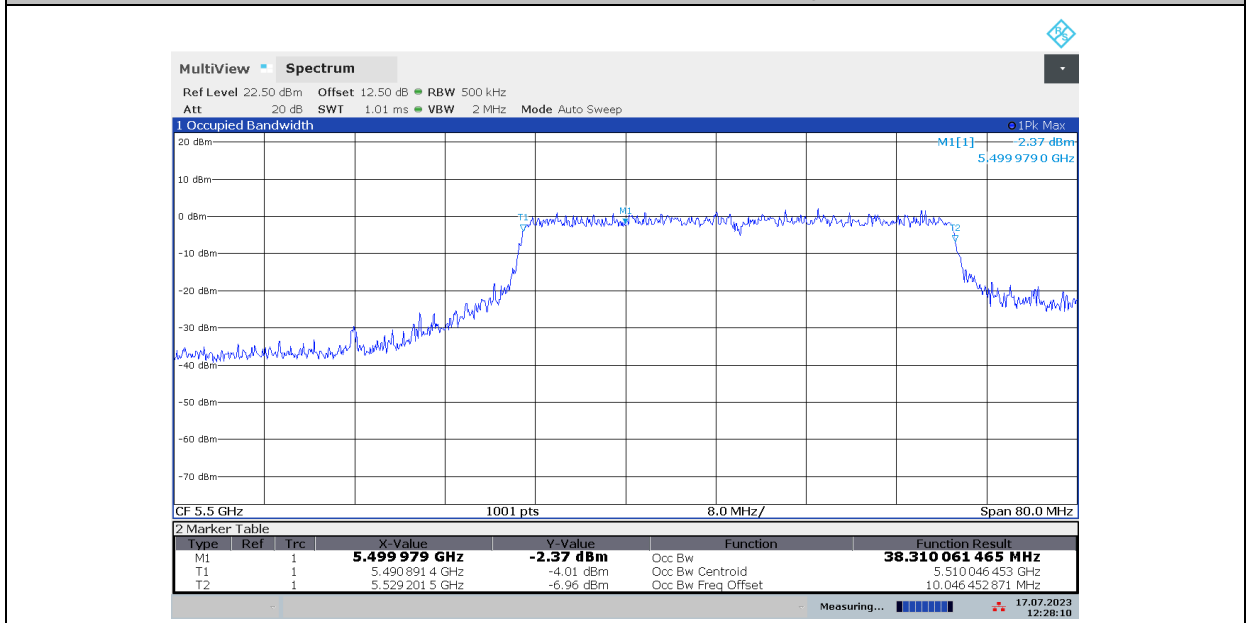
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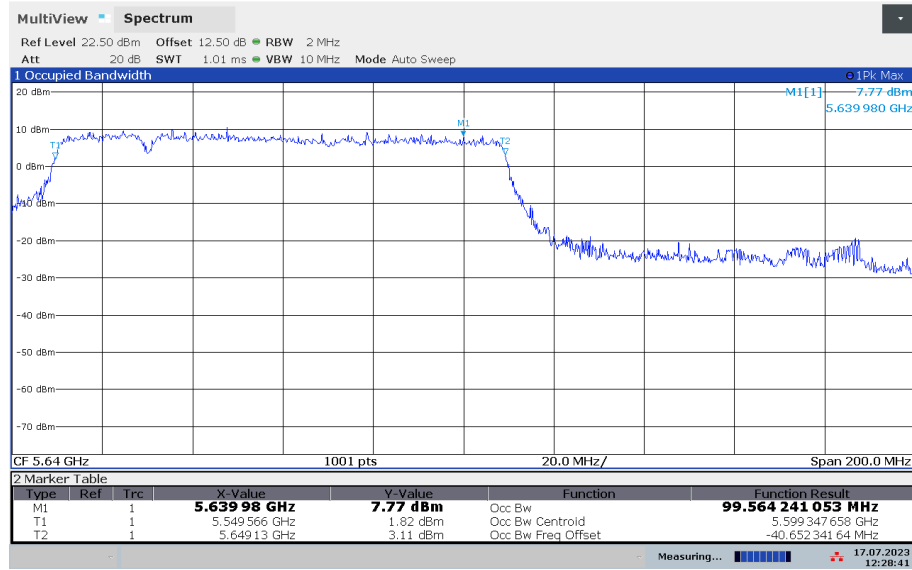
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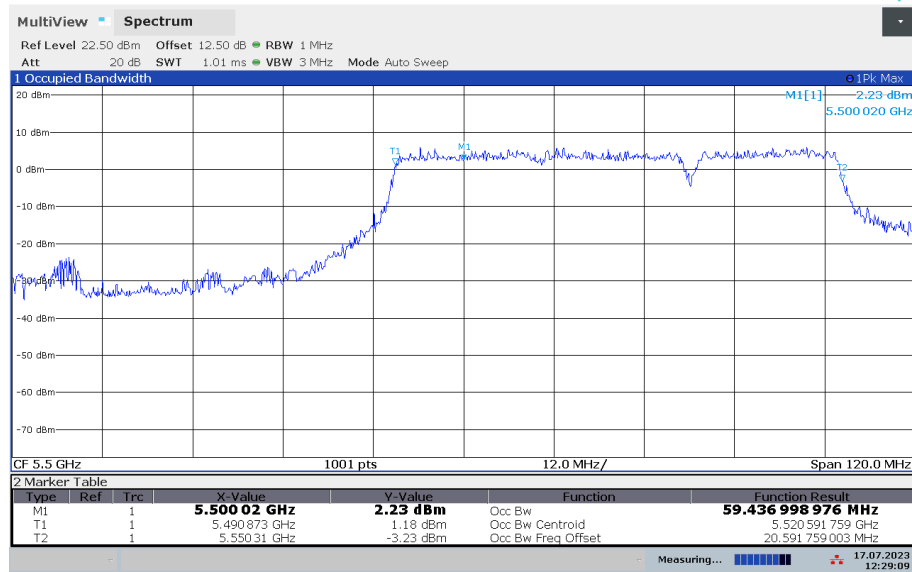
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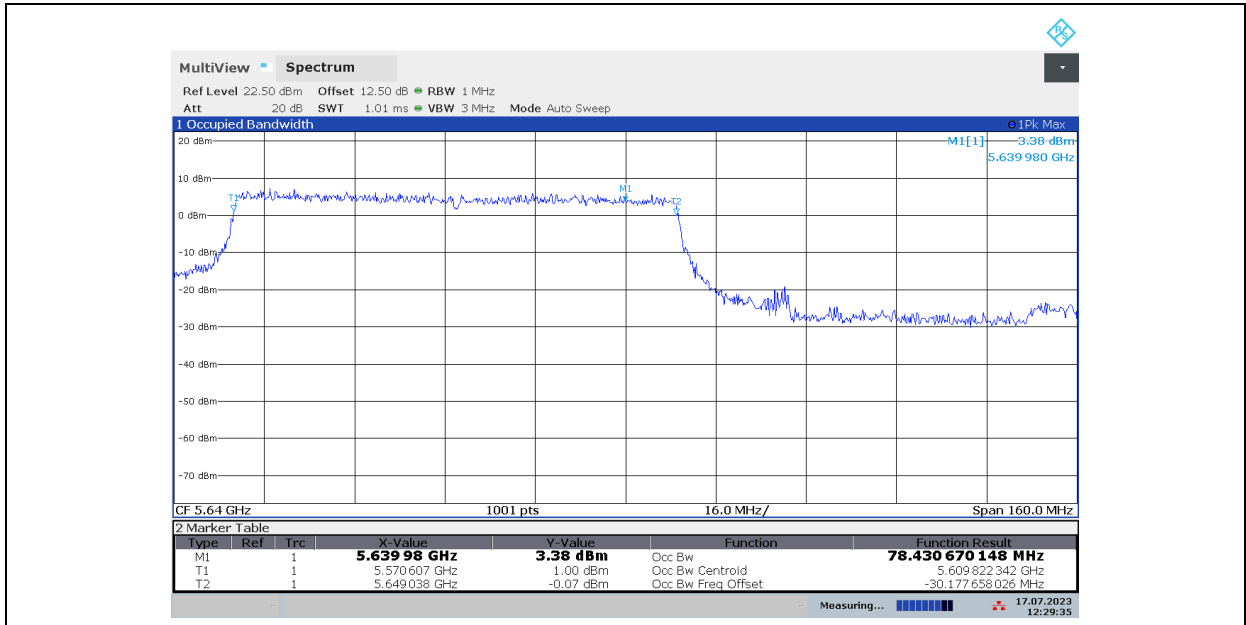
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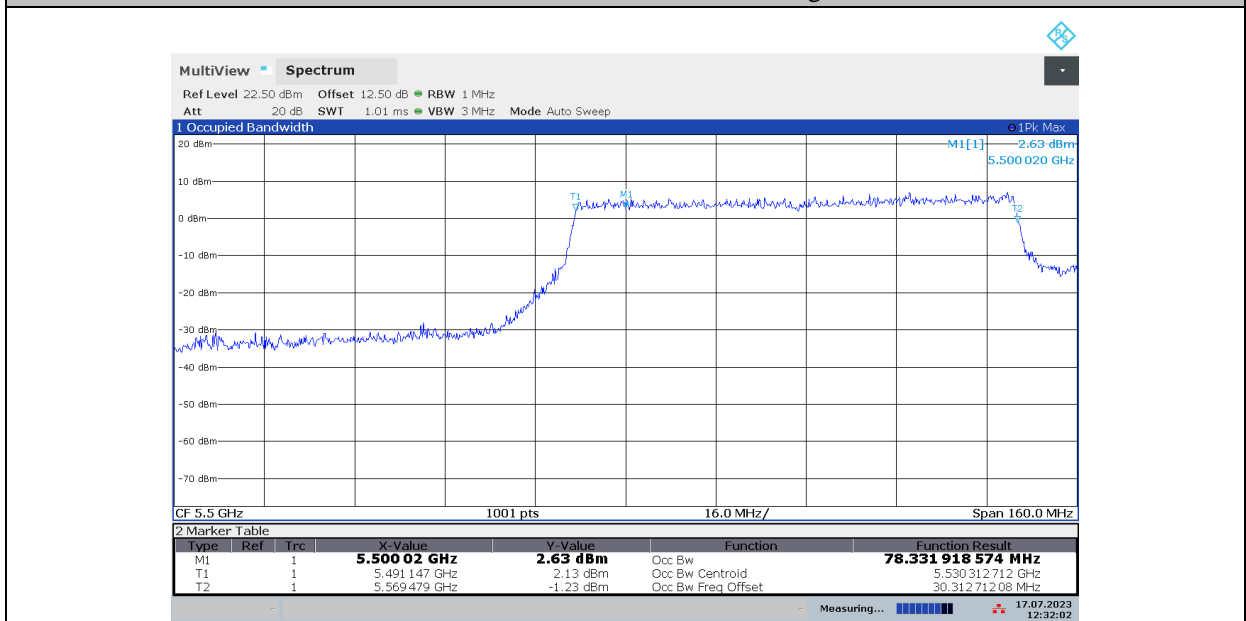
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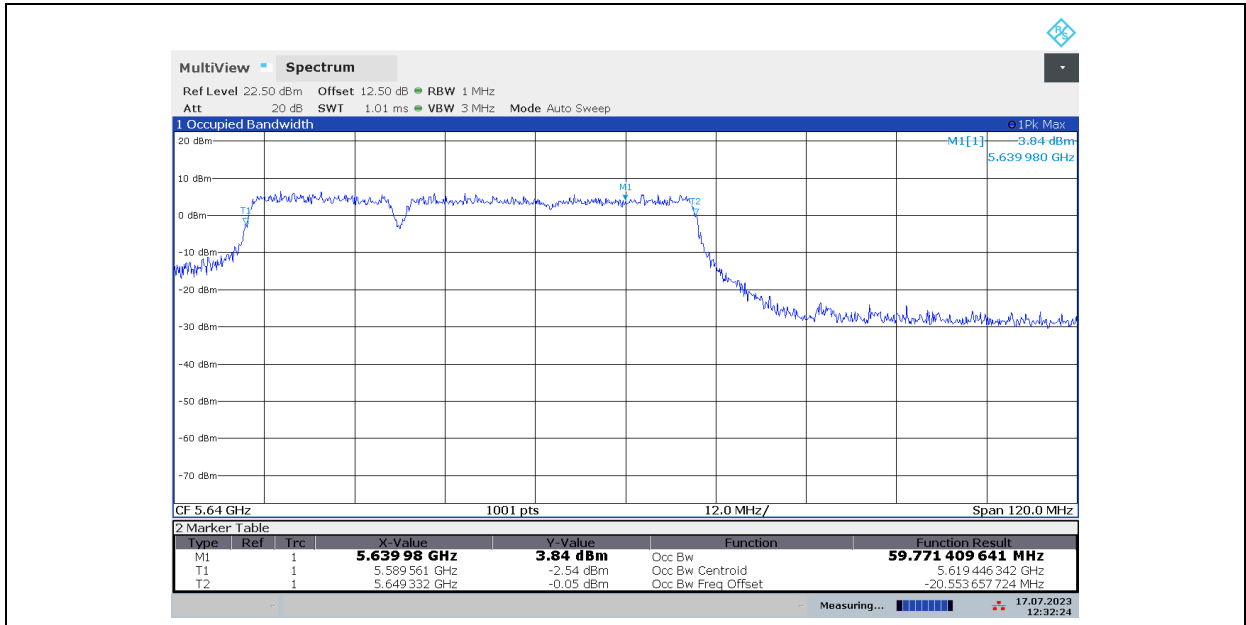
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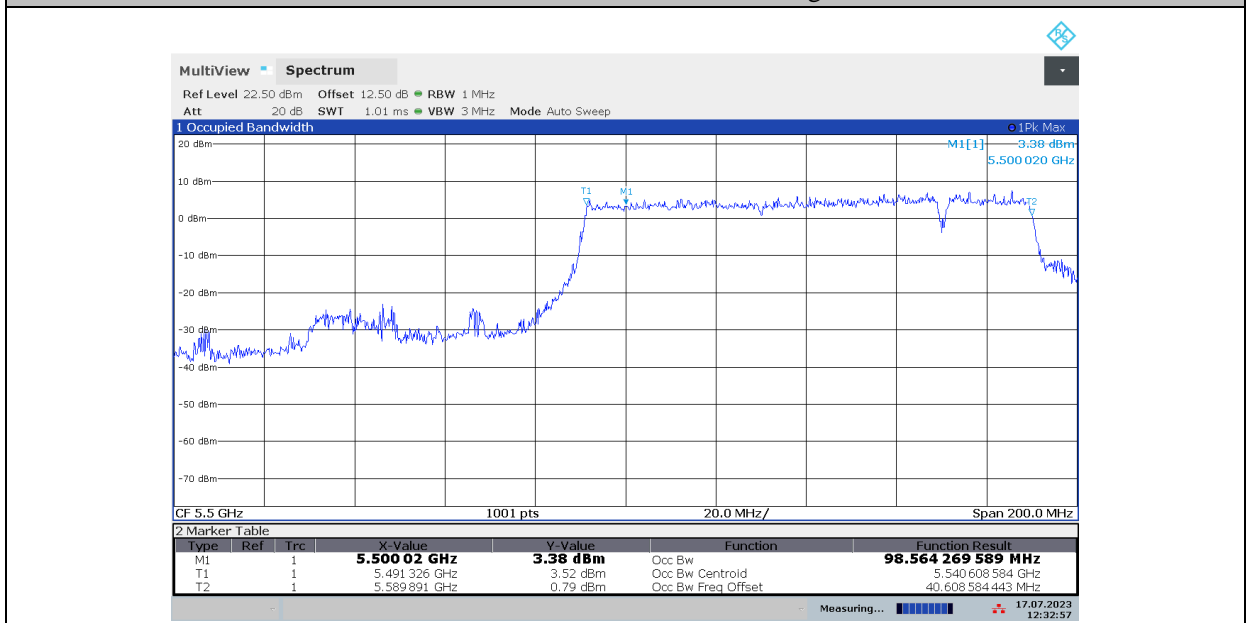
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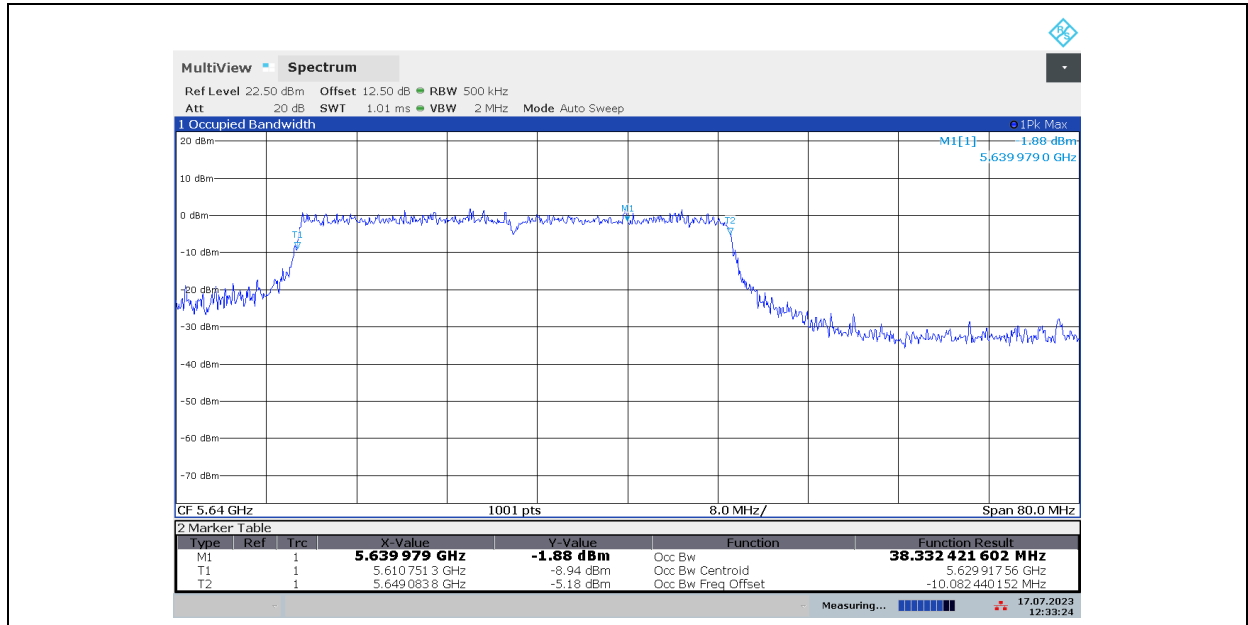
11BE160MIMO_Ant15_5570_Puncturing 20M_5



11BE160MIMO_Ant15_5570_Puncturing 20M_6



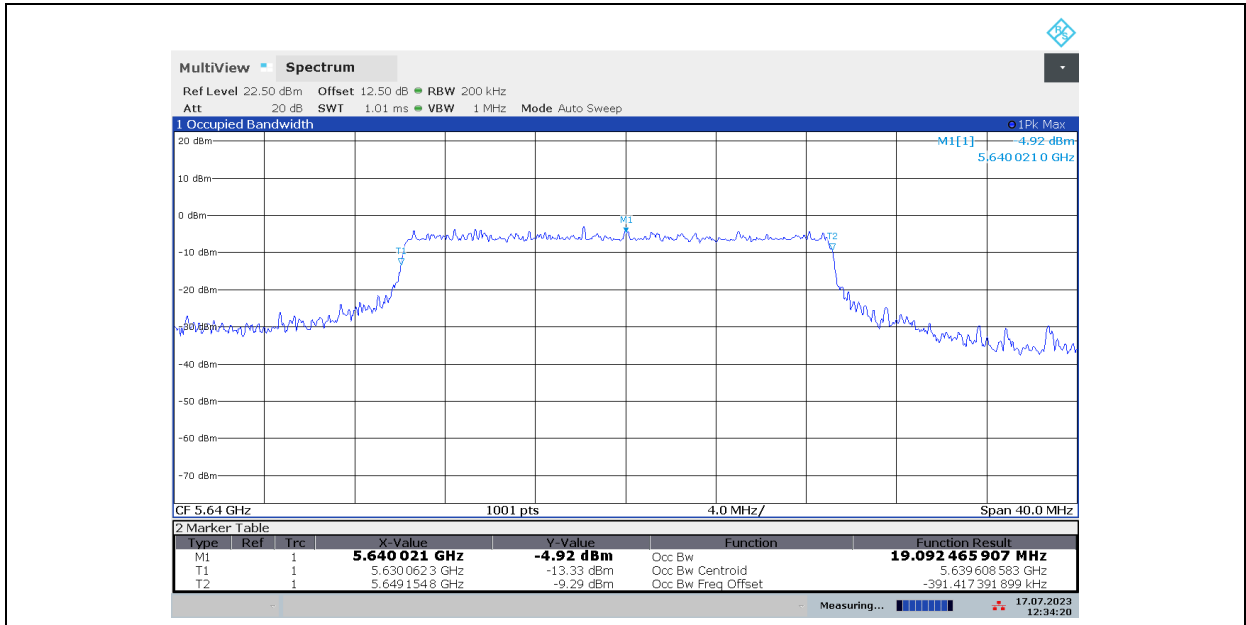
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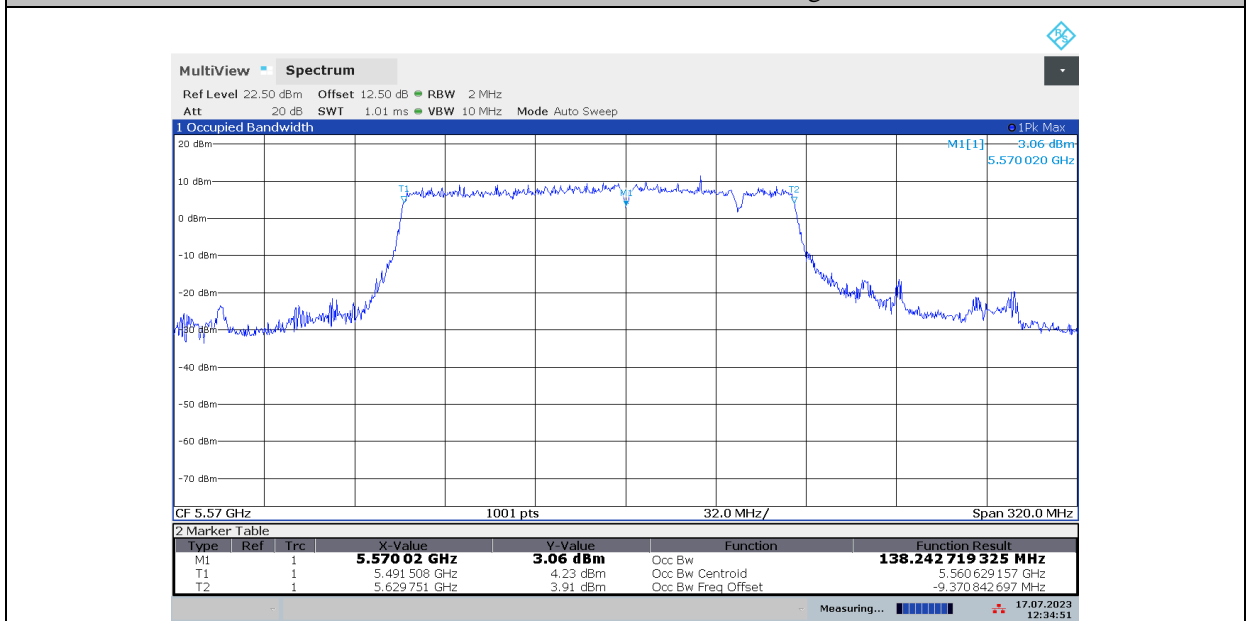
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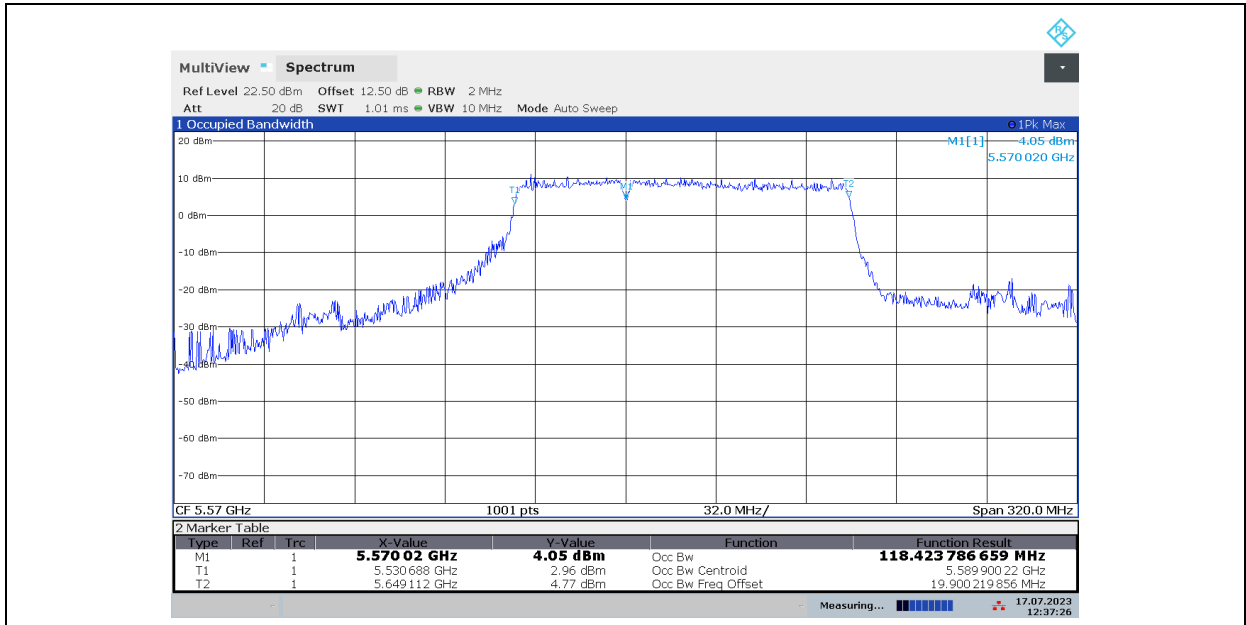
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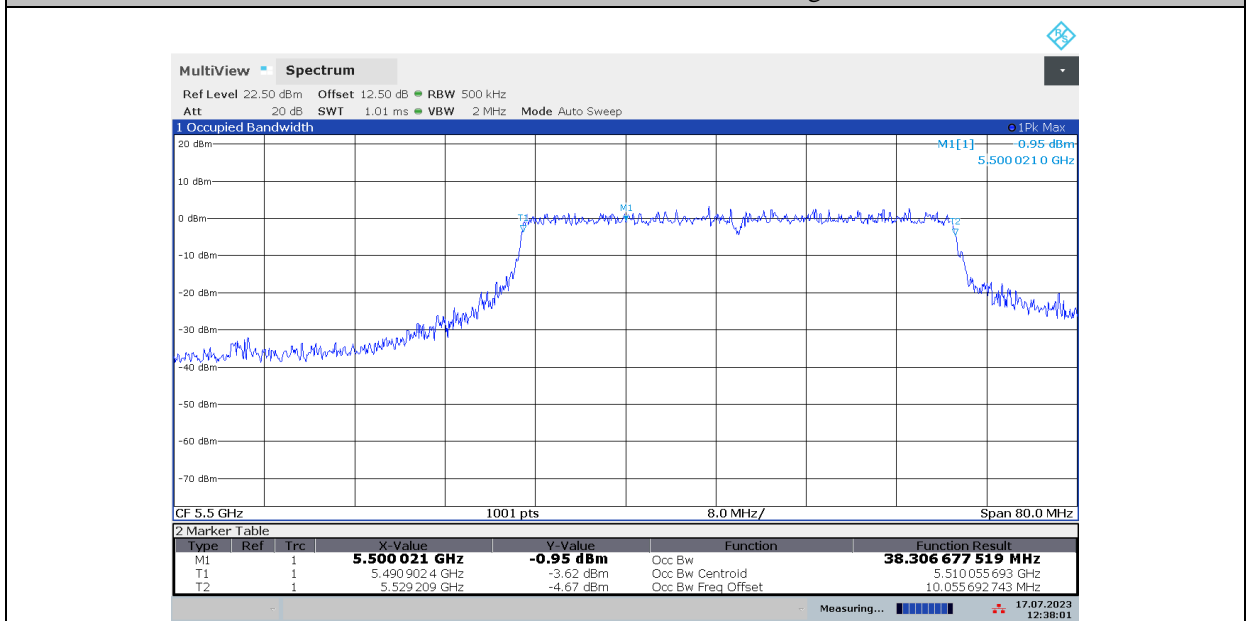
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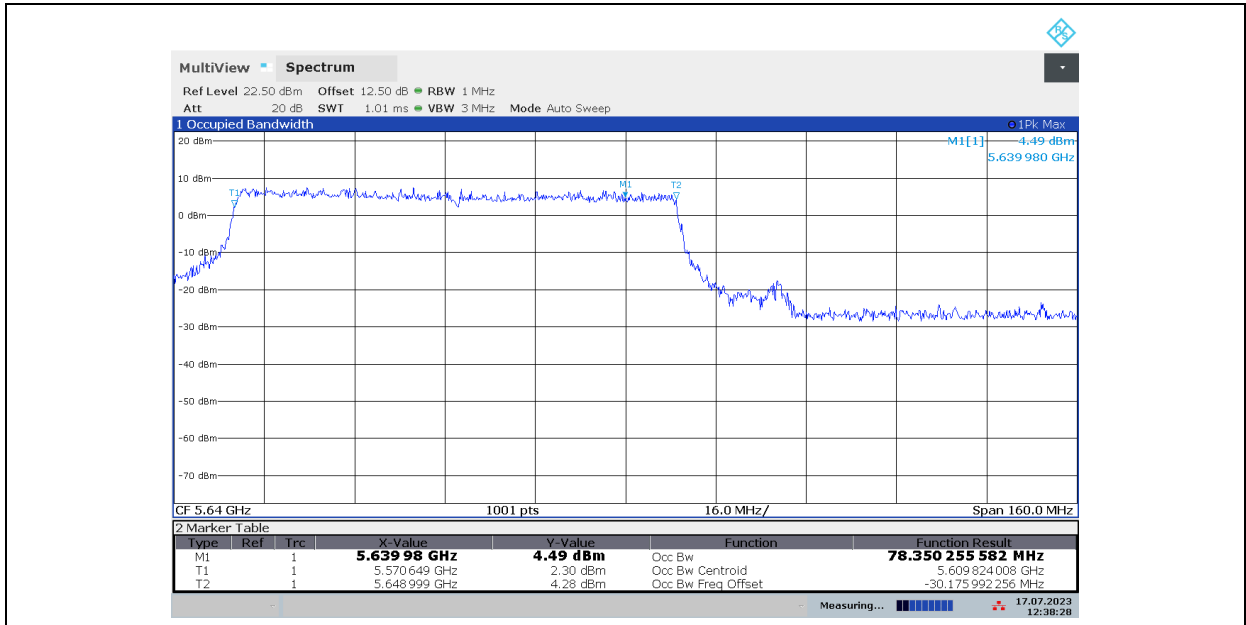
11BE160MIMO_Ant15_5570_Puncturing 40M_1



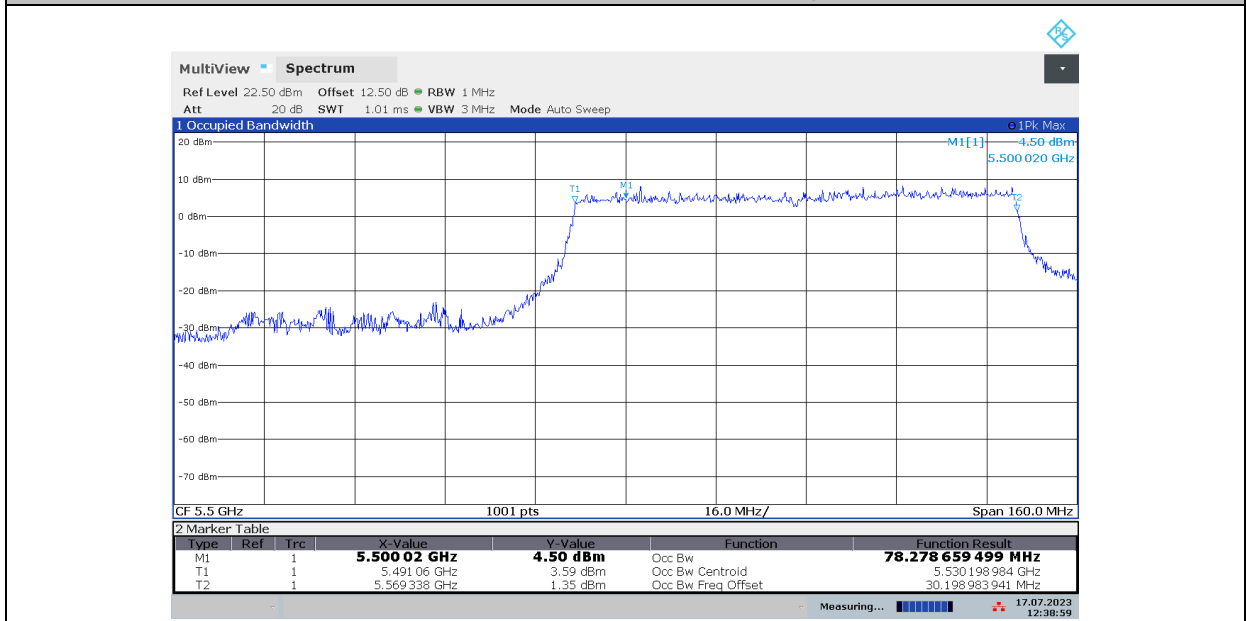
11BE160MIMO_Ant15_5570_Puncturing 40M_2



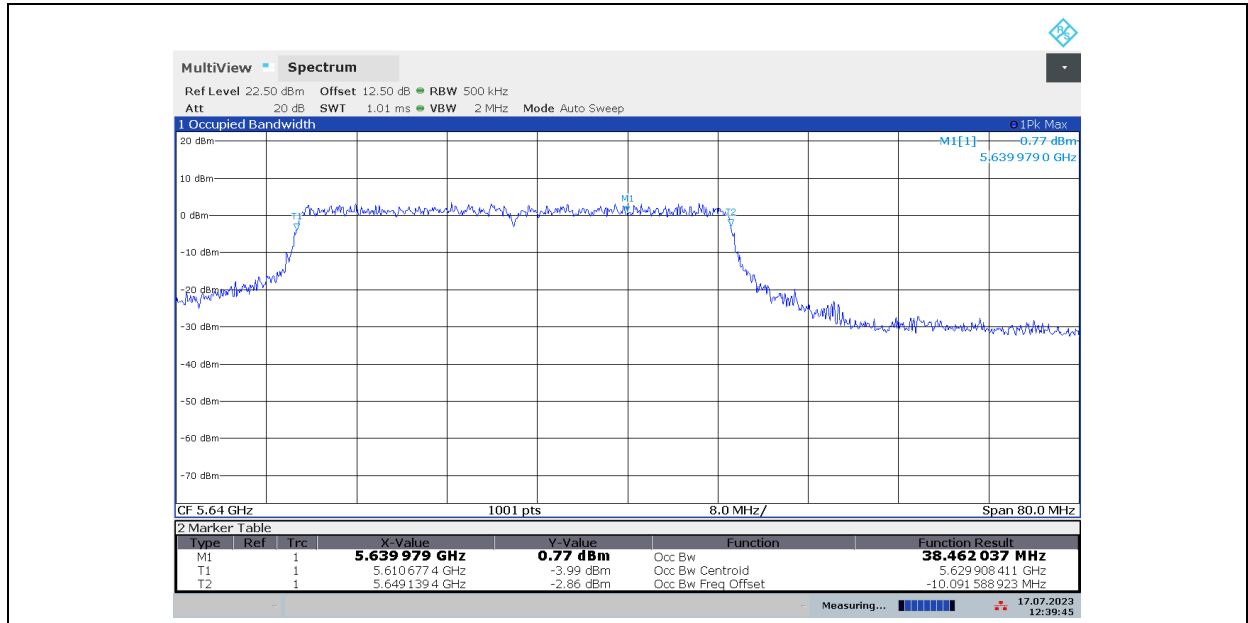
11BE160MIMO_Ant15_5570_Puncturing 40M_2



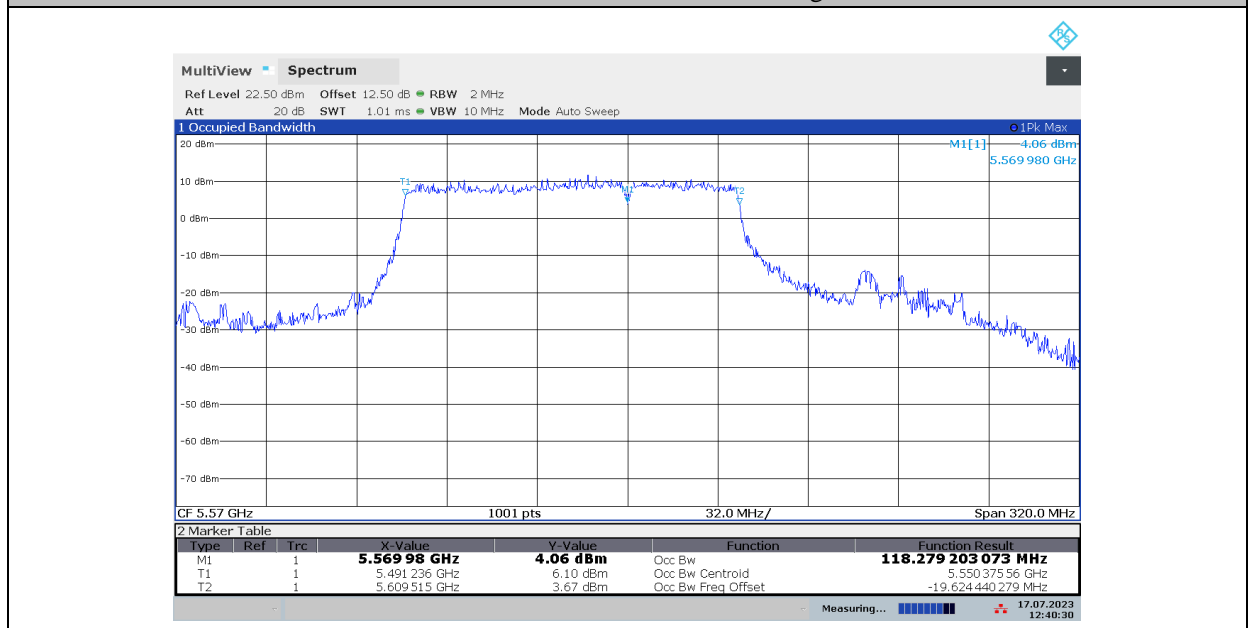
11BE160MIMO_Ant15_5570_Puncturing 40M_3



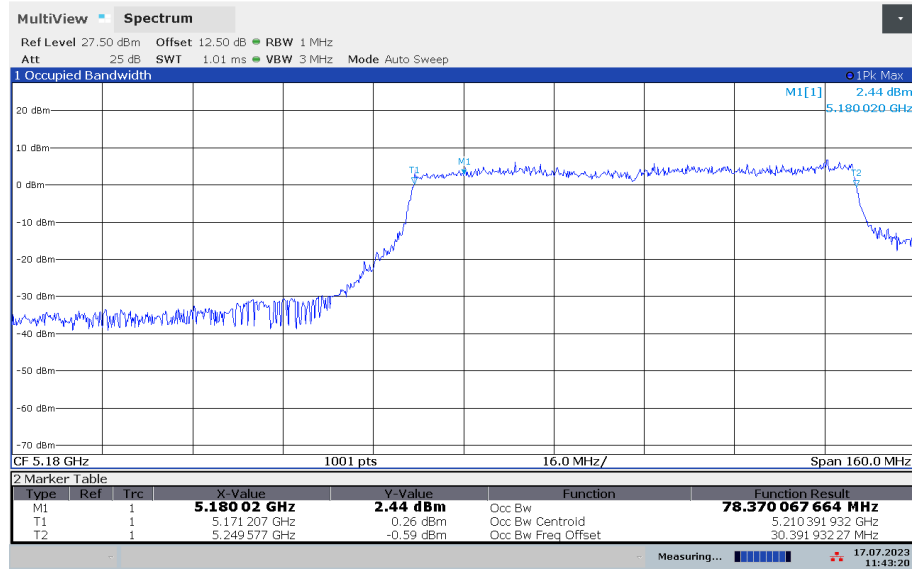
11BE160MIMO_Ant15_5570_Puncturing 40M_3



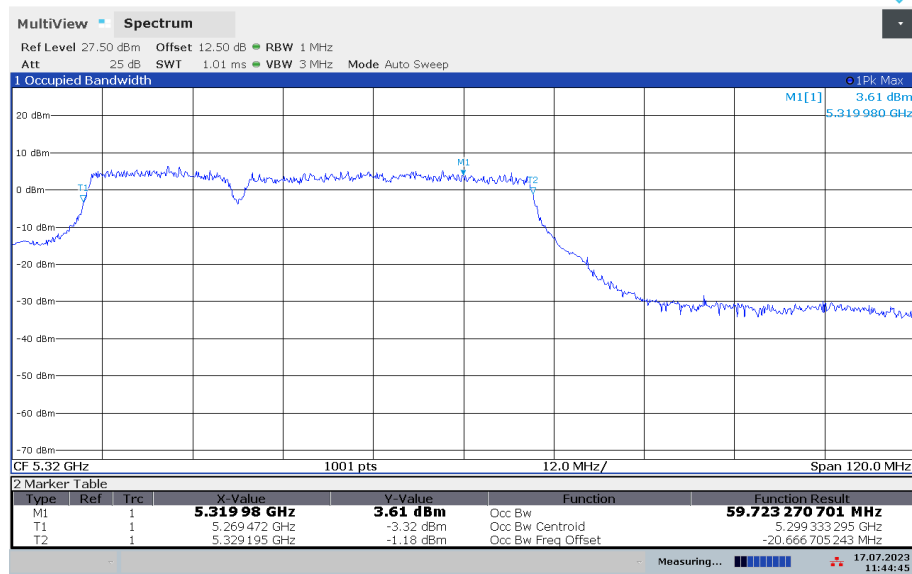
11BE160MIMO_Ant15_5570_Puncturing 40M_4



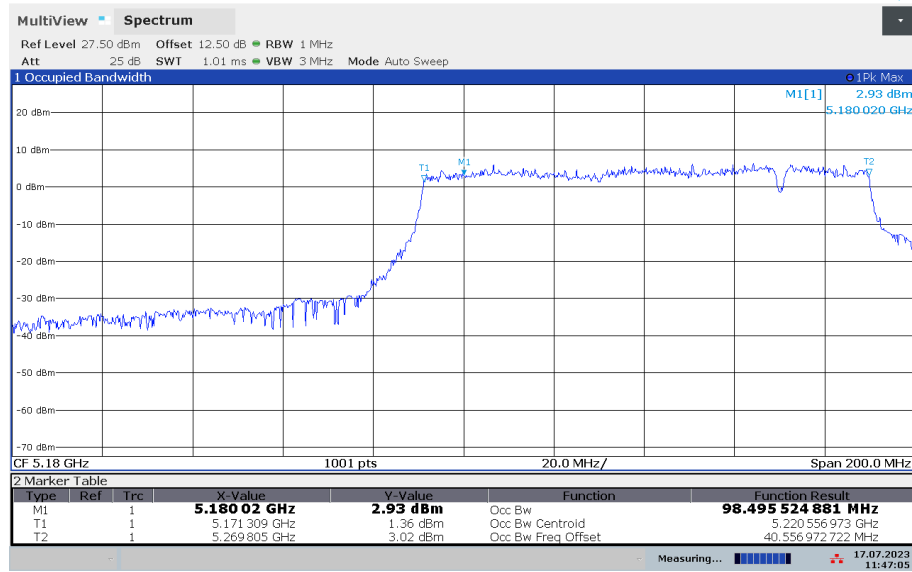
11BE160MIMO_Ant9_5250_Puncturing 20M_5



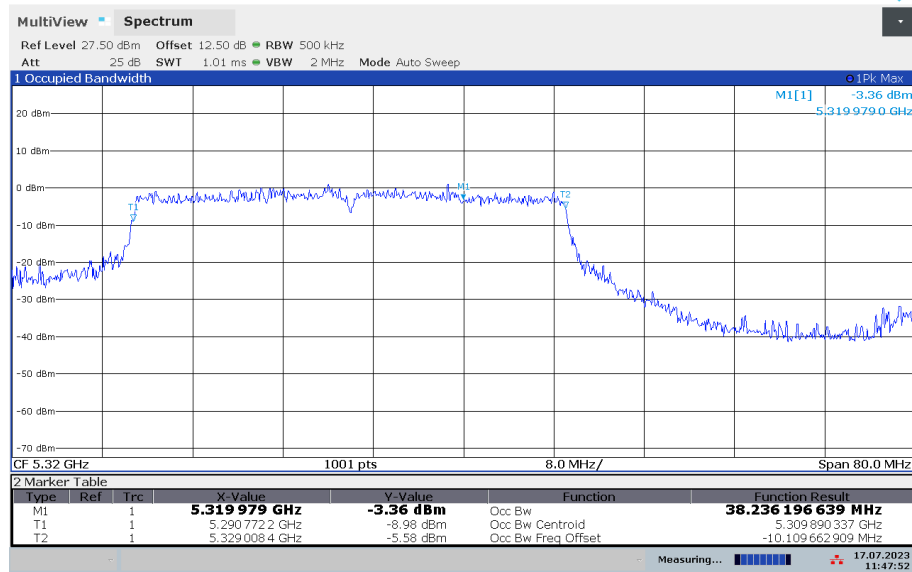
11BE160MIMO_Ant9_5250_Puncturing 20M_5



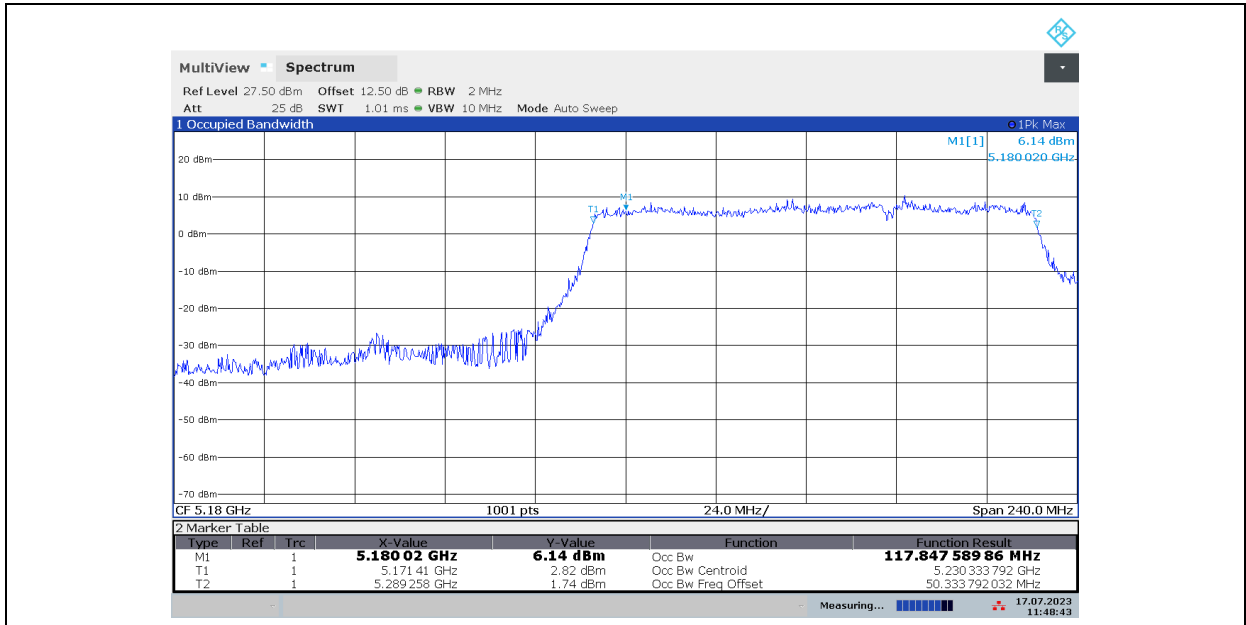
11BE160MIMO_Ant9_5250_Puncturing 20M_6



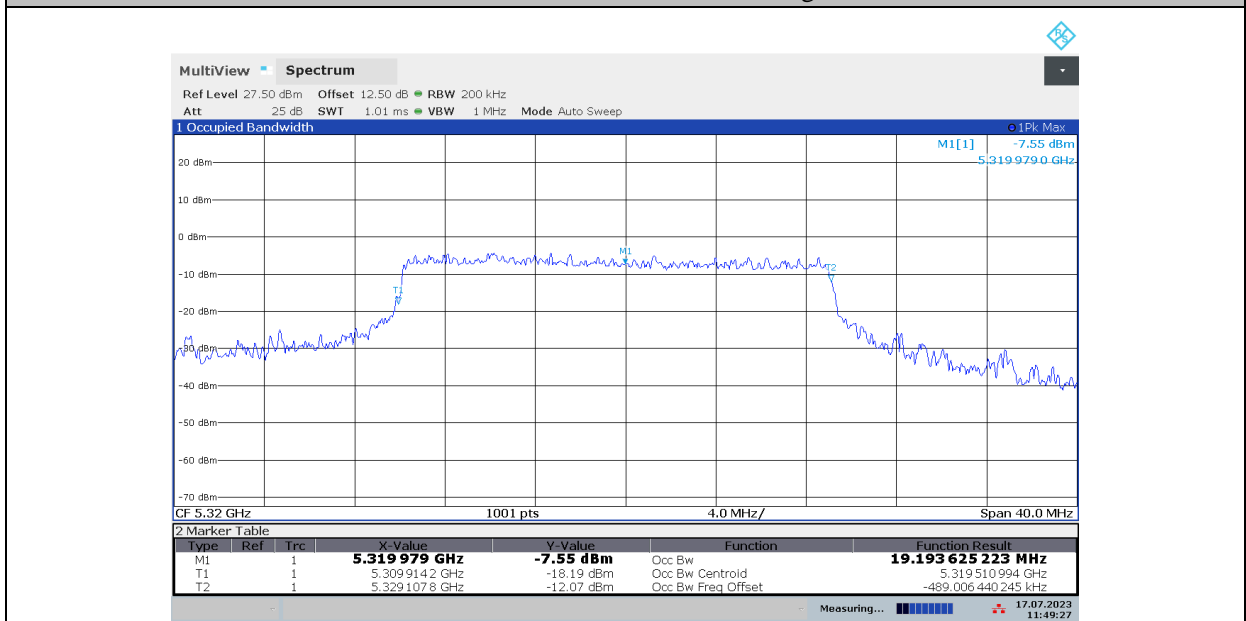
11BE160MIMO_Ant9_5250_Puncturing 20M_6



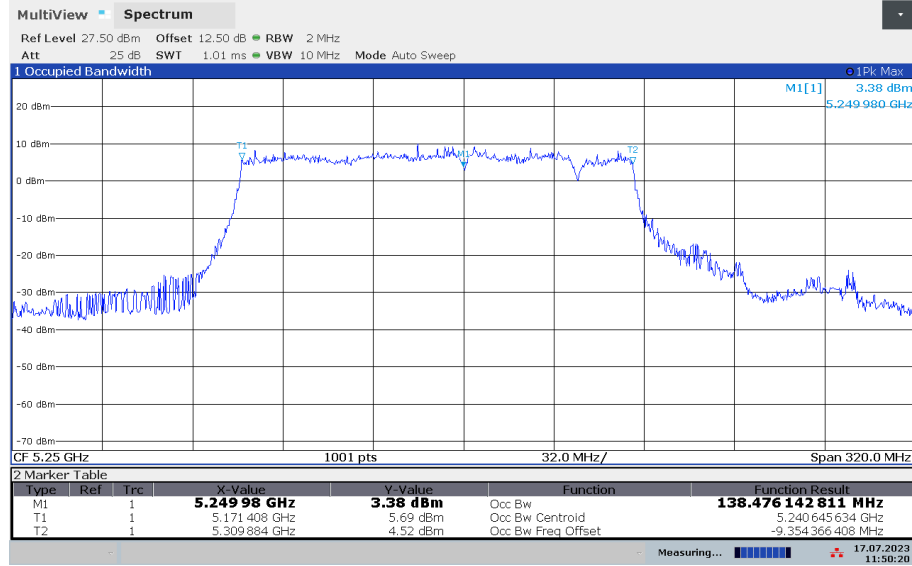
11BE160MIMO_Ant9_5250_Puncturing 20M_7



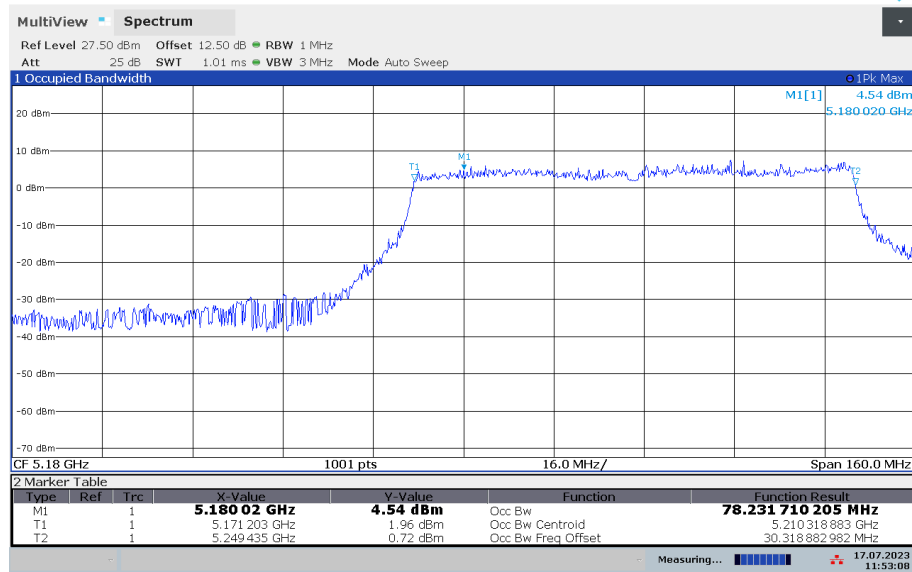
11BE160MIMO_Ant9_5250_Puncturing 20M_7



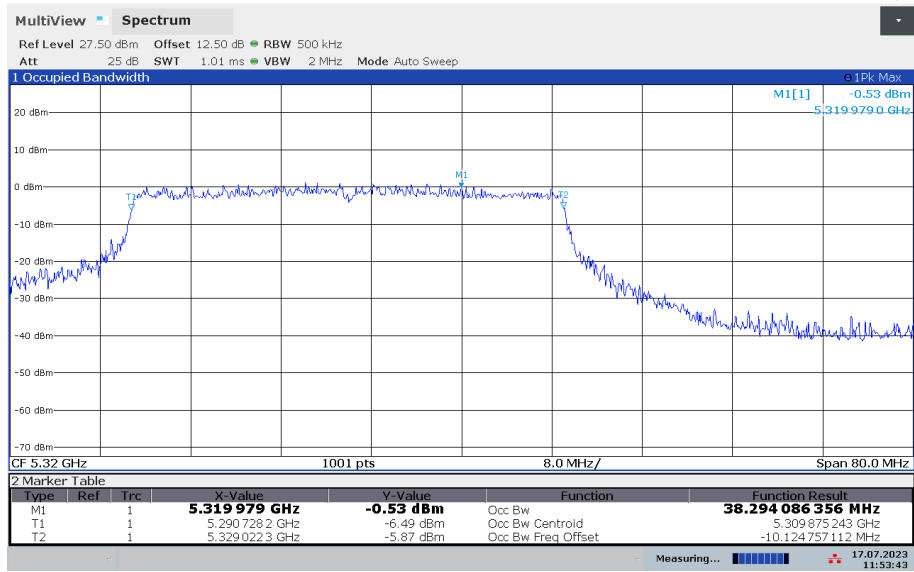
11BE160MIMO_Ant9_5250_Puncturing 20M_8



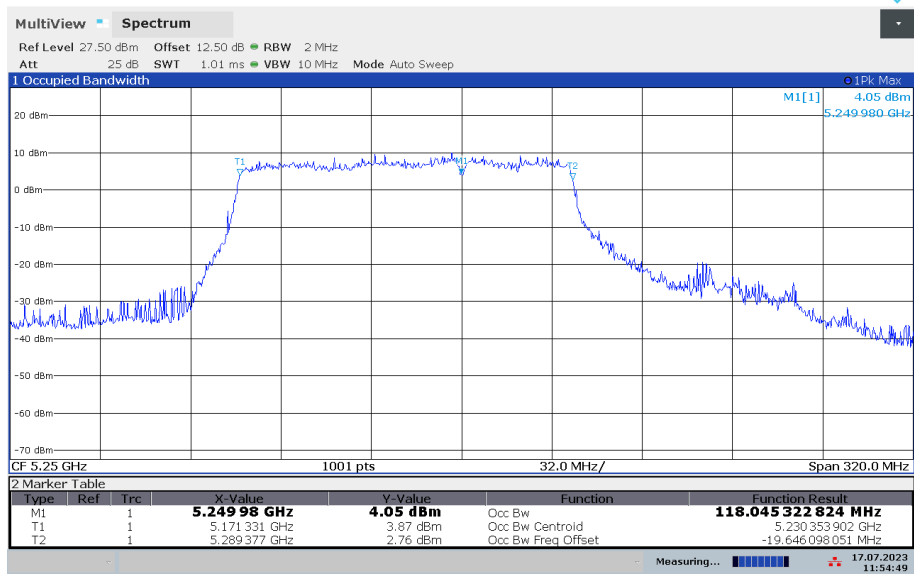
11BE160MIMO_Ant9_5250_Puncturing 40M_3



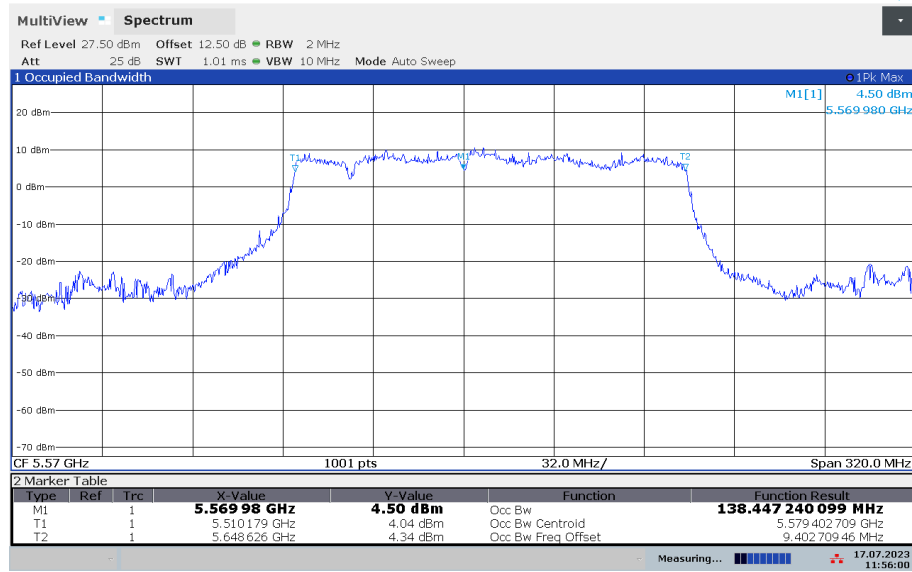
11BE160MIMO_Ant9_5250_Puncturing 40M_3



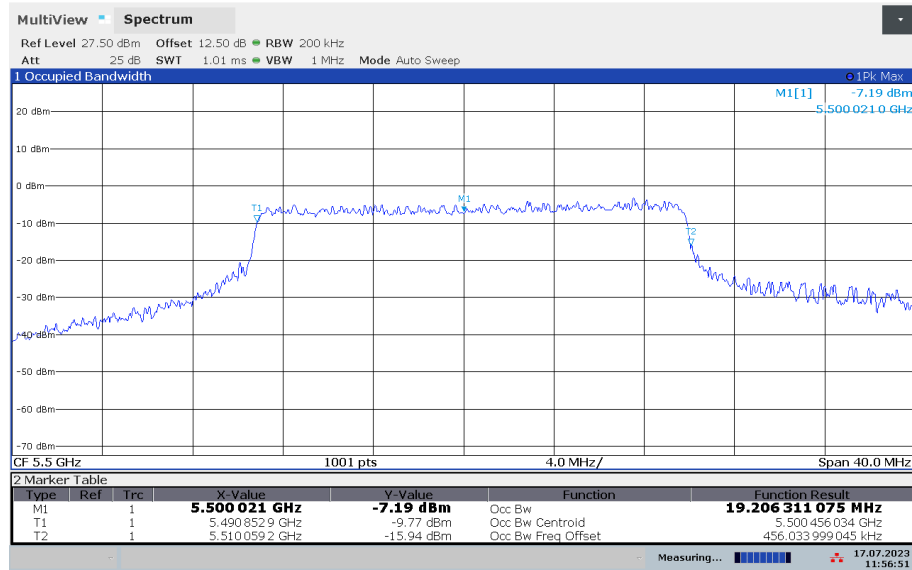
11BE160MIMO_Ant9_5250_Puncturing 40M_4



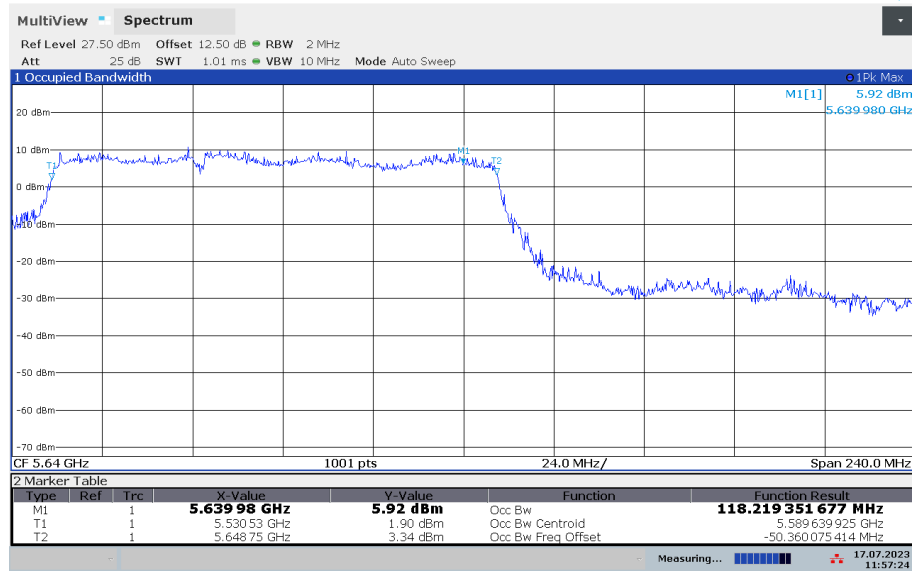
11BE160MIMO_Ant9_5570_Puncturing 20M_1



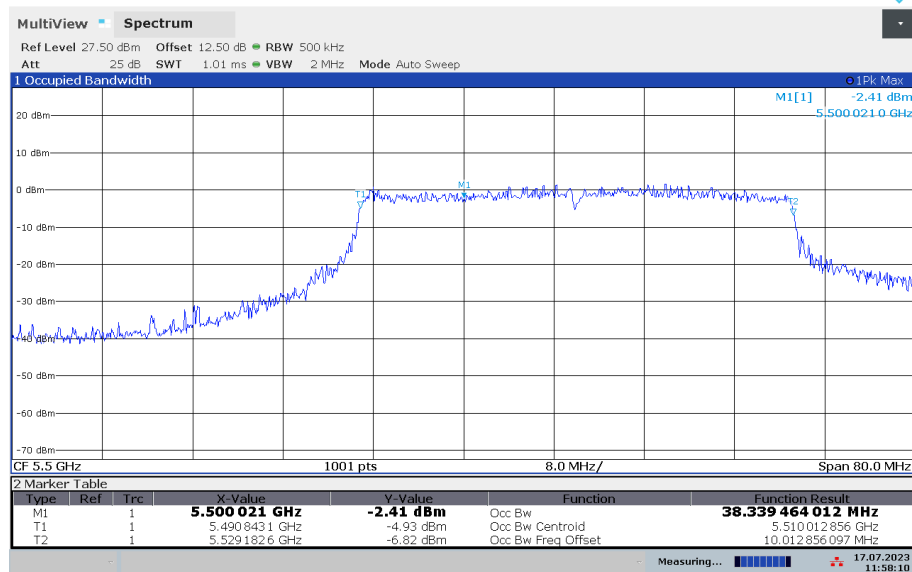
11BE160MIMO_Ant9_5570_Puncturing 20M_2



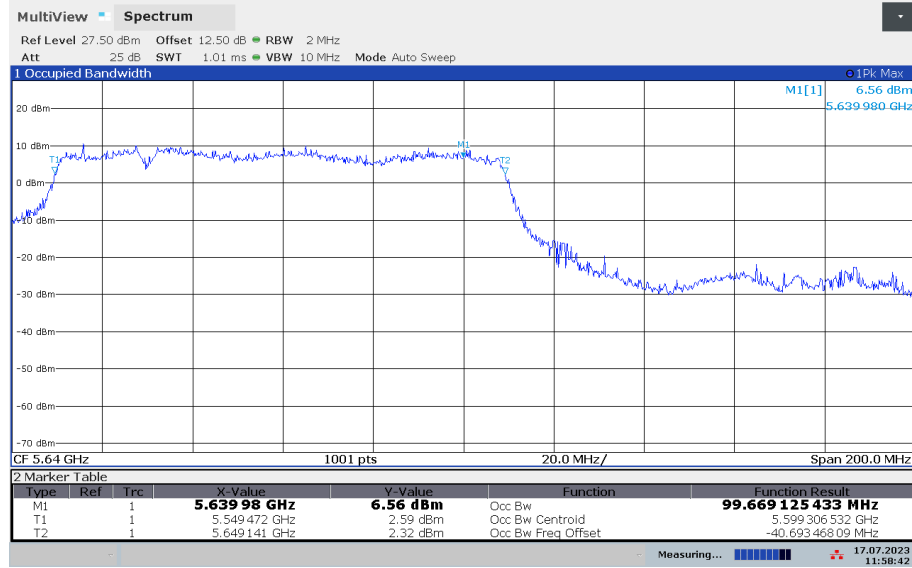
11BE160MIMO_Ant9_5570_Puncturing 20M_2



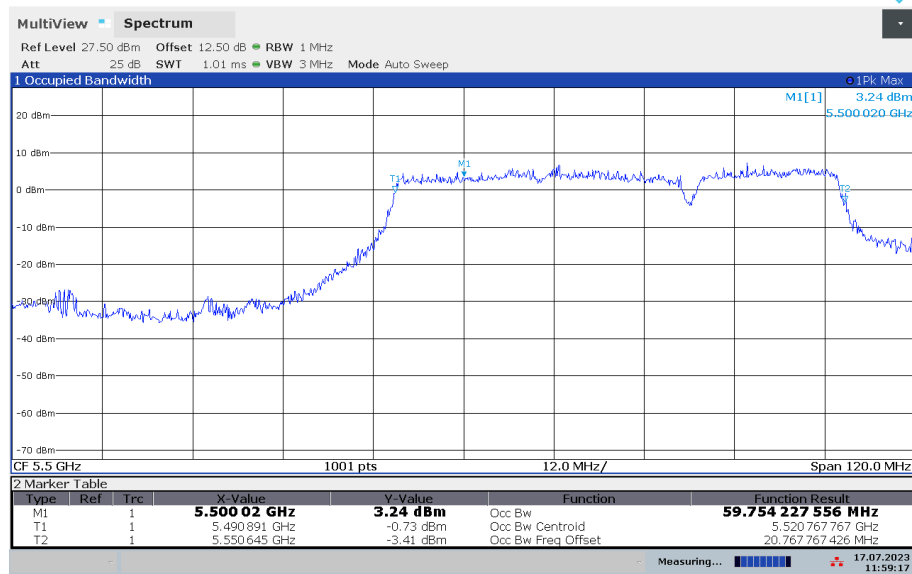
11BE160MIMO_Ant9_5570_Puncturing 20M_3



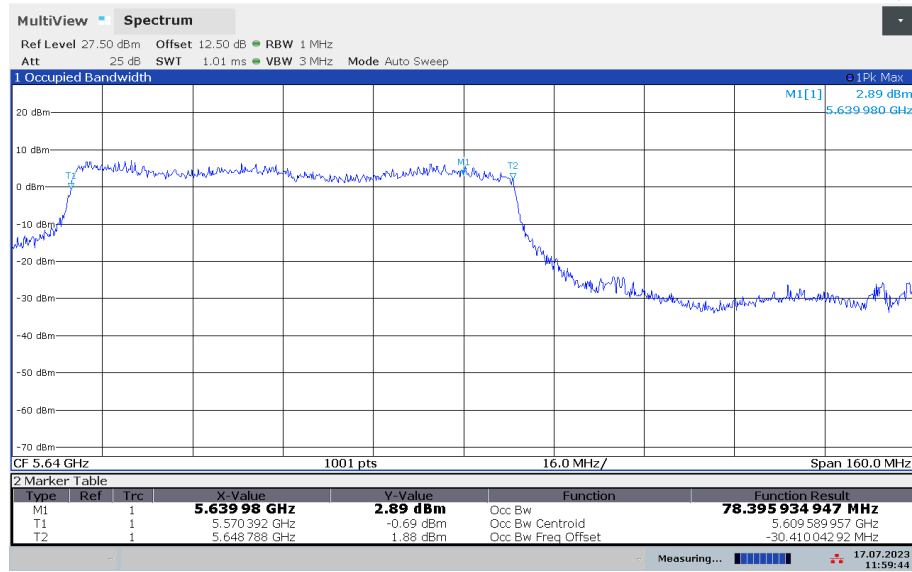
11BE160MIMO_Ant9_5570_Puncturing 20M_3



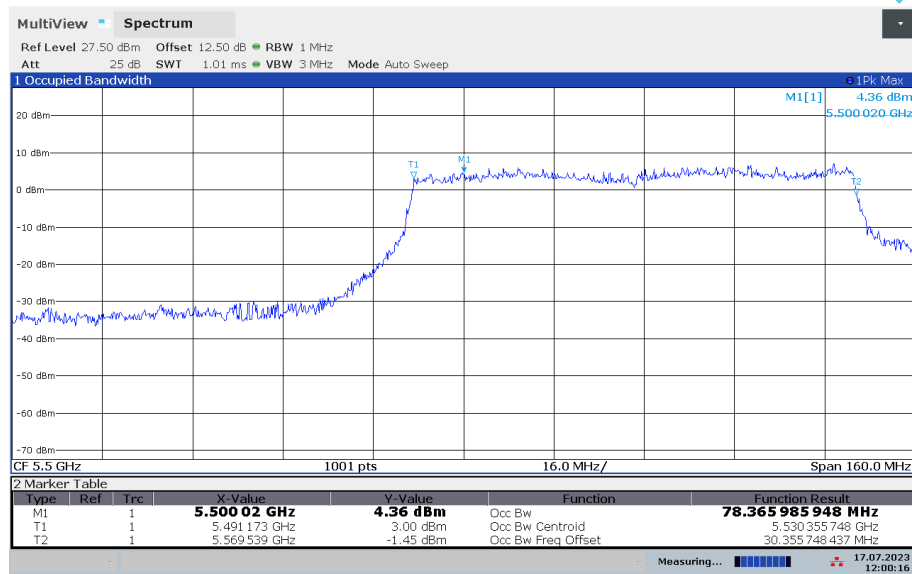
11BE160MIMO_Ant9_5570_Puncturing 20M_4



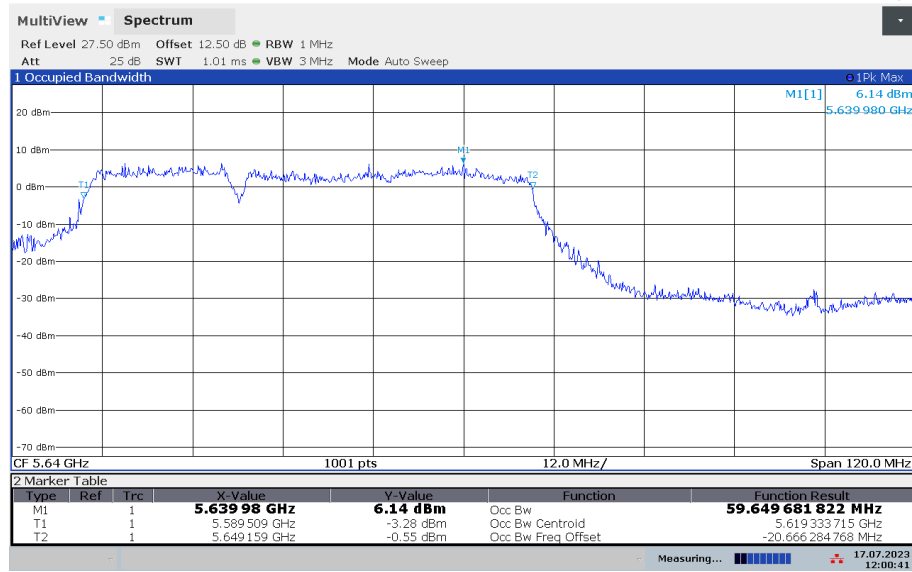
11BE160MIMO_Ant9_5570_Puncturing 20M_4



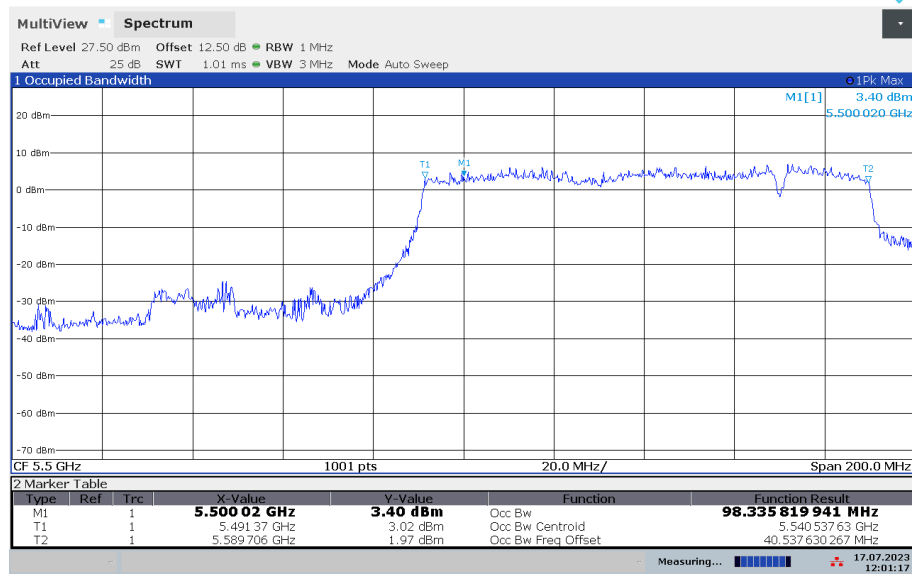
11BE160MIMO_Ant9_5570_Puncturing 20M_5



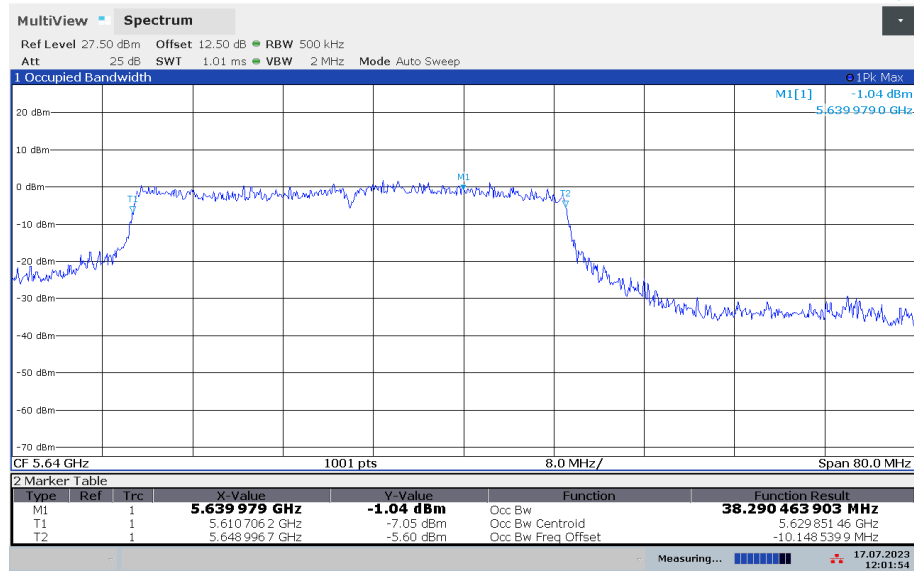
11BE160MIMO_Ant9_5570_Puncturing 20M_5



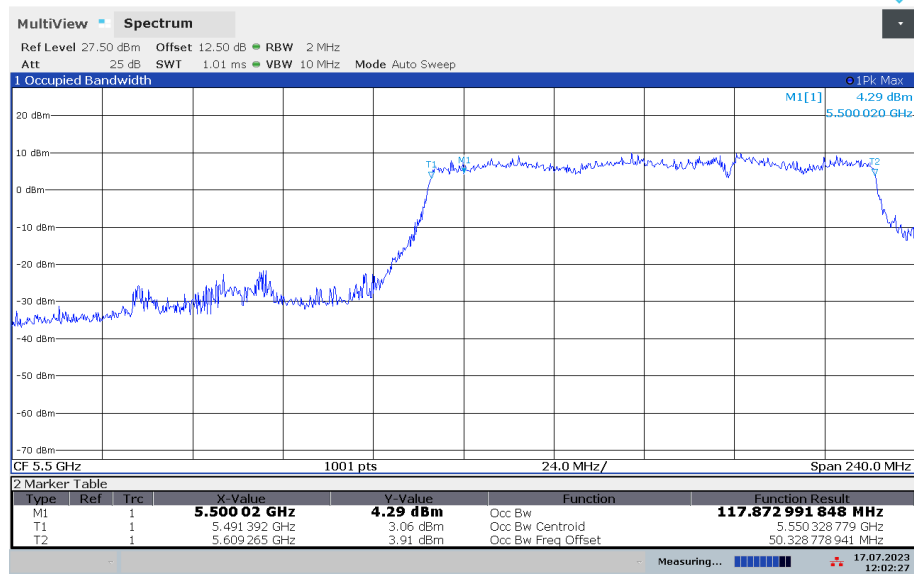
11BE160MIMO_Ant9_5570_Puncturing 20M_6



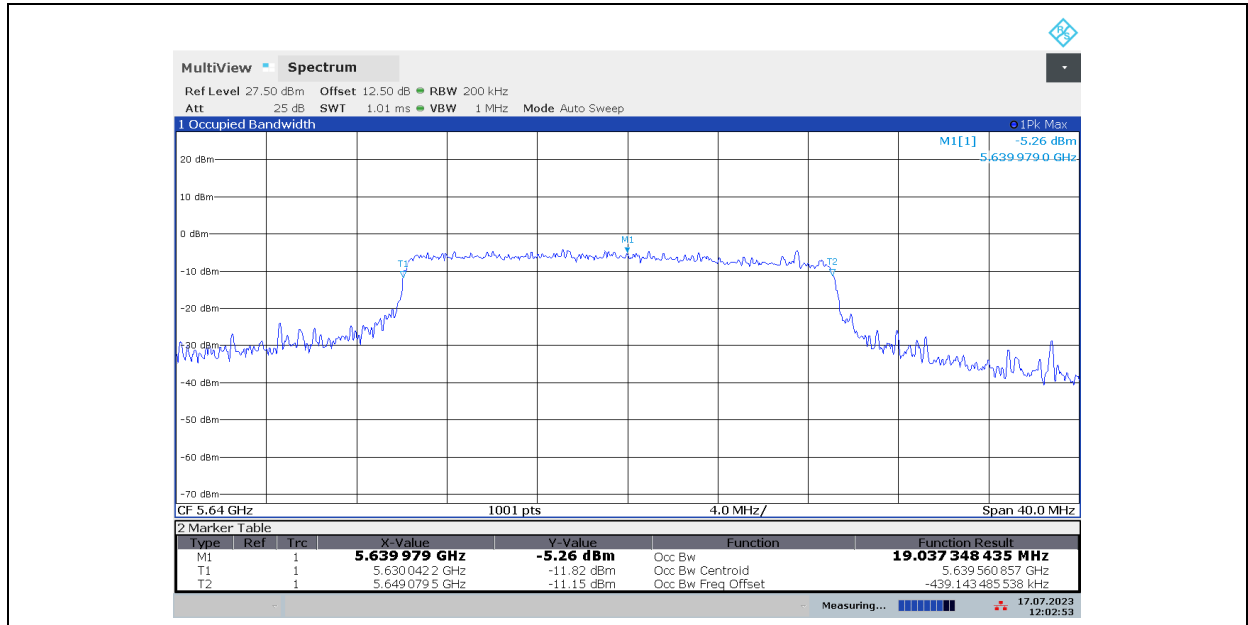
11BE160MIMO_Ant9_5570_Puncturing 20M_6



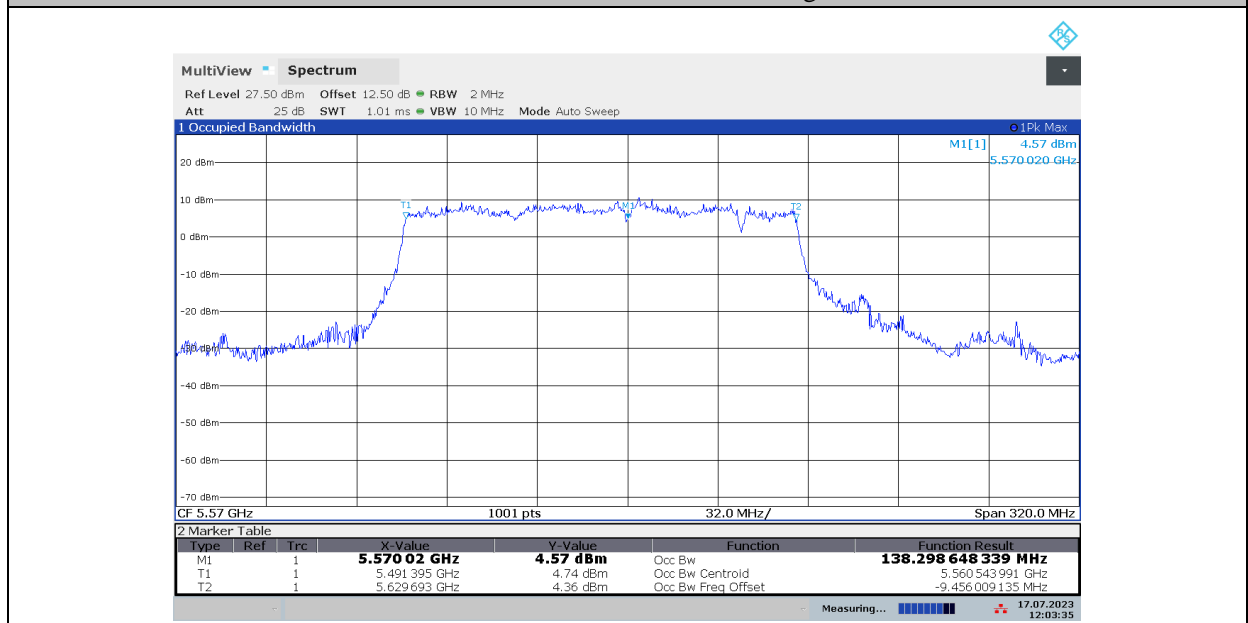
11BE160MIMO_Ant9_5570_Puncturing 20M_7



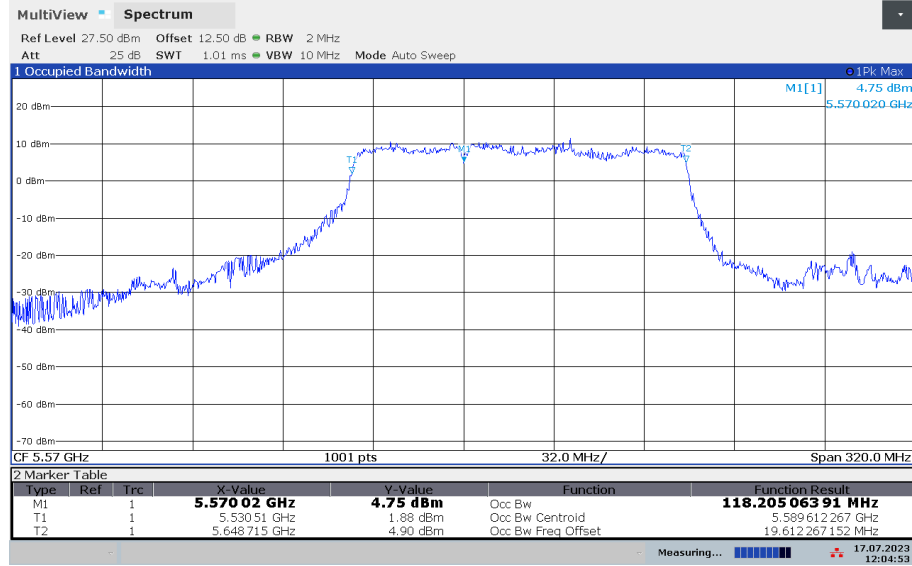
11BE160MIMO_Ant9_5570_Puncturing 20M_7



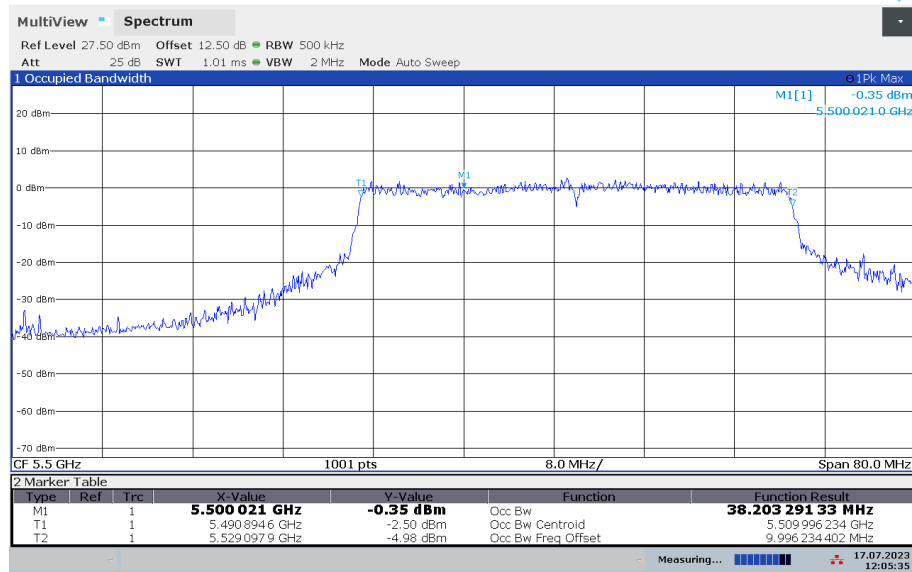
11BE160MIMO_Ant9_5570_Puncturing 20M_8



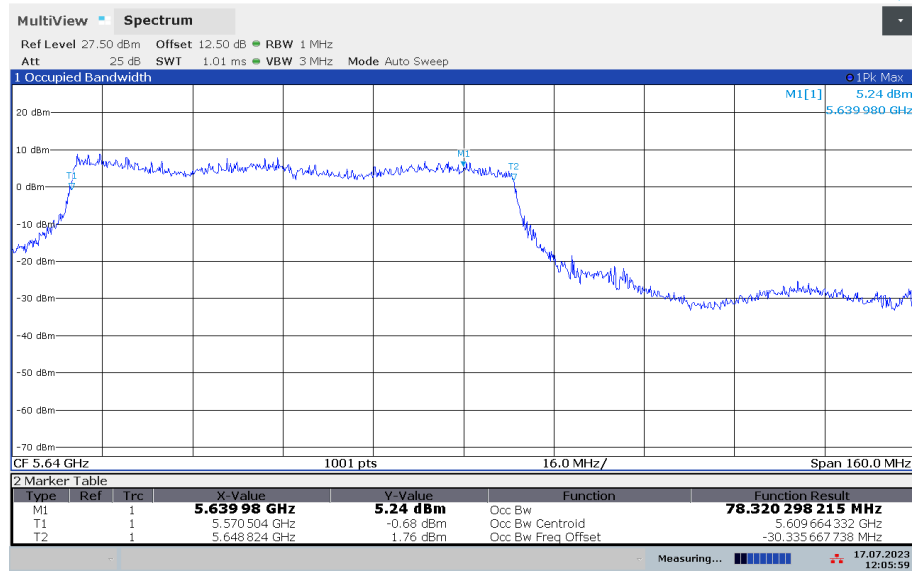
11BE160MIMO_Ant9_5570_Puncturing 40M_1



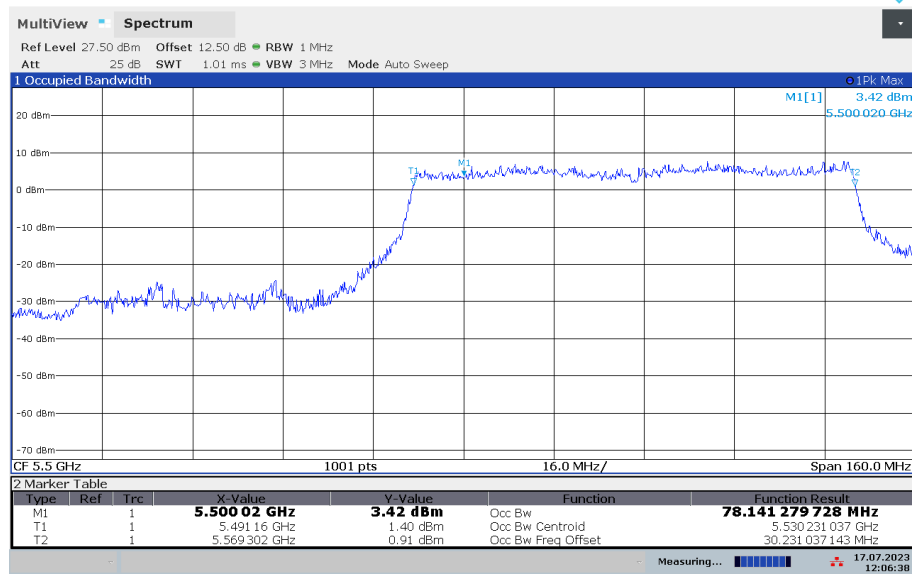
11BE160MIMO_Ant9_5570_Puncturing 40M_2



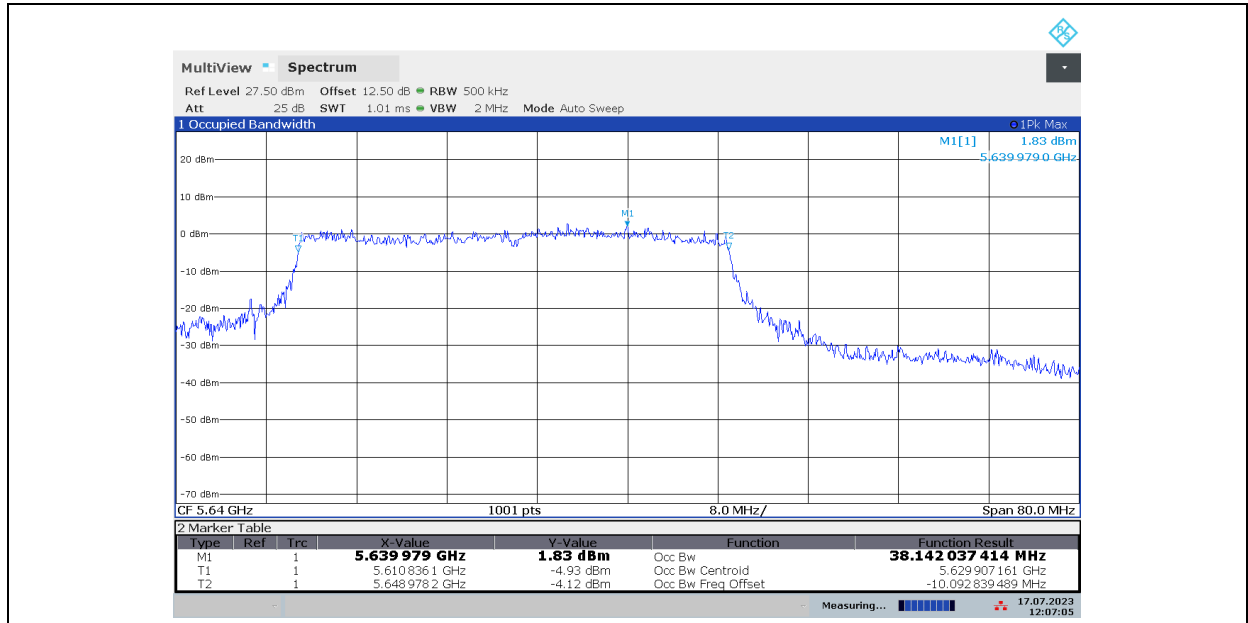
11BE160MIMO_Ant9_5570_Puncturing 40M_2



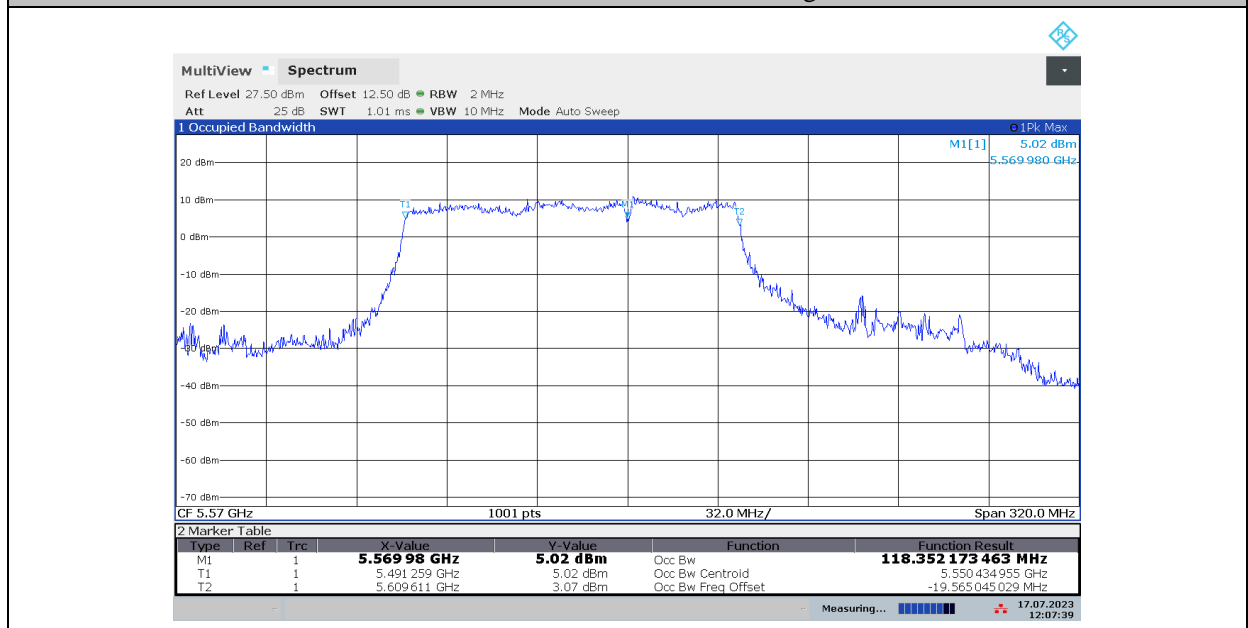
11BE160MIMO_Ant9_5570_Puncturing 40M_3



11BE160MIMO_Ant9_5570_Puncturing 40M_3



11BE160MIMO_Ant9_5570_Puncturing 40M_4



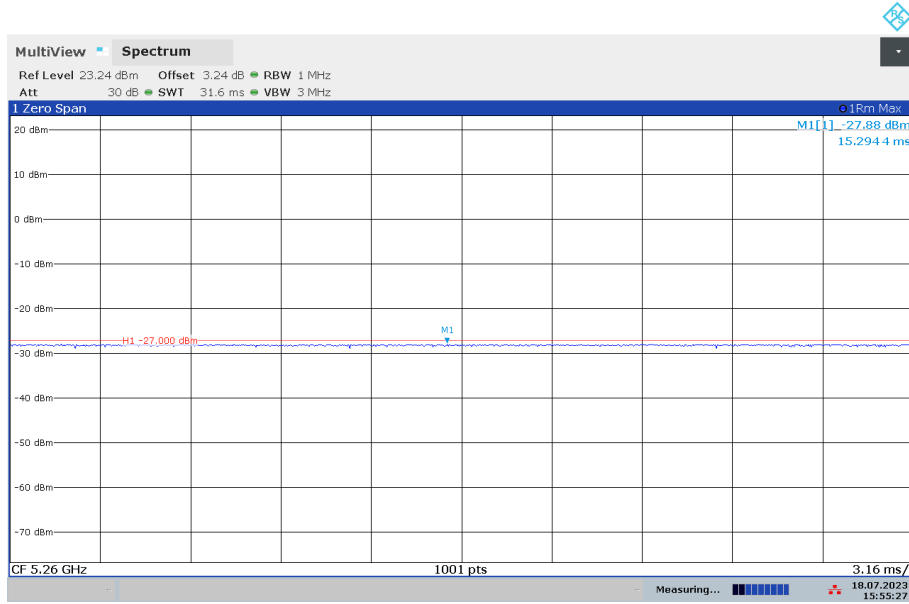
A.4.2 Punctured Channel E.I.R.P Check

Check the punctured regions meet -27 dBm/MHz EIRP AVG.

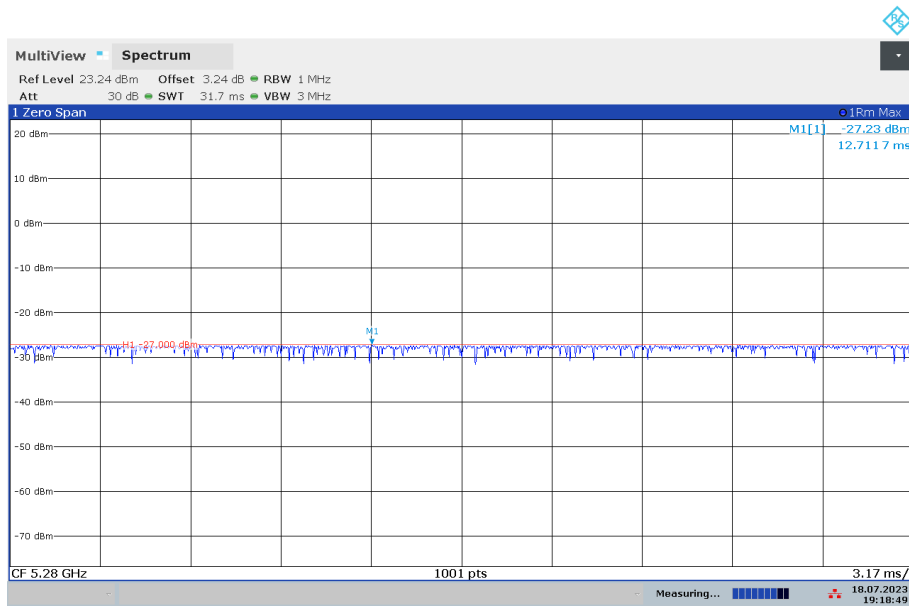
Mode	TX Fre	Puncturing	SA Freq	antenna	Result (dBm)	Limit (dBm)
11BE160 MIMO	5250	Puncturing20-configure-5	5260	9	-28.41	-27
			5260	15	-27.88	-27
		Puncturing20-configure-6	5280	9	-28.33	-27
			5280	15	-27.23	-27
		Puncturing20-configure-7	5300	9	-28.68	-27
			5300	15	-27.84	-27
Puncturing20-configure-8	5320	9	-36.00	-27		

		configure-8	5320	15	-33.02	-27
		Puncturing40-configure-3	5270	9	-33.31	-27
			5270	15	-32.72	-27
		Puncturing40-configure-4	5310	9	-37.32	-27
			5310	15	-37.04	-27
	5570	Puncturing20-configure-1	5500	9	-31.10	-27
			5500	15	-31.66	-27
		Puncturing20-configure-2	5520	9	-27.14	-27
			5520	15	-27.66	-27
		Puncturing20-configure-3	5540	9	-27.09	-27
			5540	15	-27.51	-27
		Puncturing20-configure-4	5560	9	-29.34	-27
			5560	15	-30.98	-27
		Puncturing20-configure-5	5580	9	-27.49	-27
			5580	15	-27.35	-27
		Puncturing20-configure-6	5600	9	-27.81	-27
			5600	15	-28.99	-27
		Puncturing20-configure-7	5620	9	-28.93	-27
			5620	15	-29.98	-27
		Puncturing20-configure-8	5640	9	-33.76	-27
			5640	15	-35.29	-27
		Puncturing40-configure-1	5510	9	-36.35	-27
			5510	15	-34.68	-27
		Puncturing40-configure-2	5550	9	-34.13	-27
			5550	15	-33.22	-27
		Puncturing40-configure-3	5590	9	-31.43	-27
			5590	15	-29.31	-27
		Puncturing40-configure-4	5630	9	-35.59	-27
			5630	15	-34.61	-27

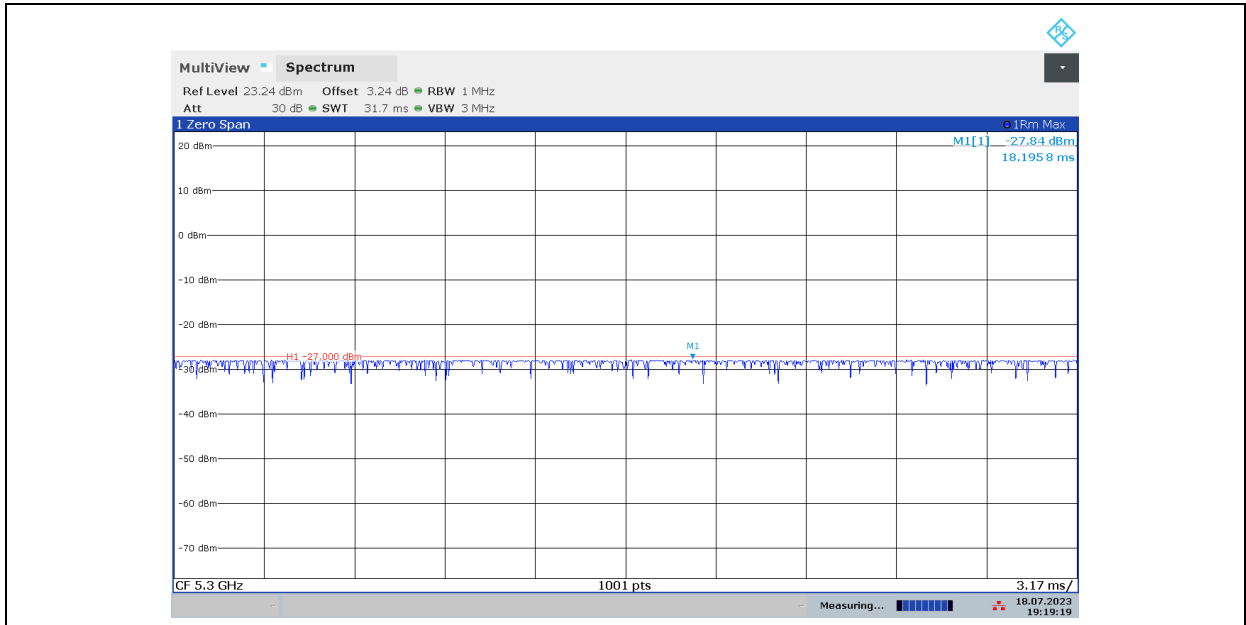
11BE160MIMO_Ant15_5250_Puncturing20- configure-5



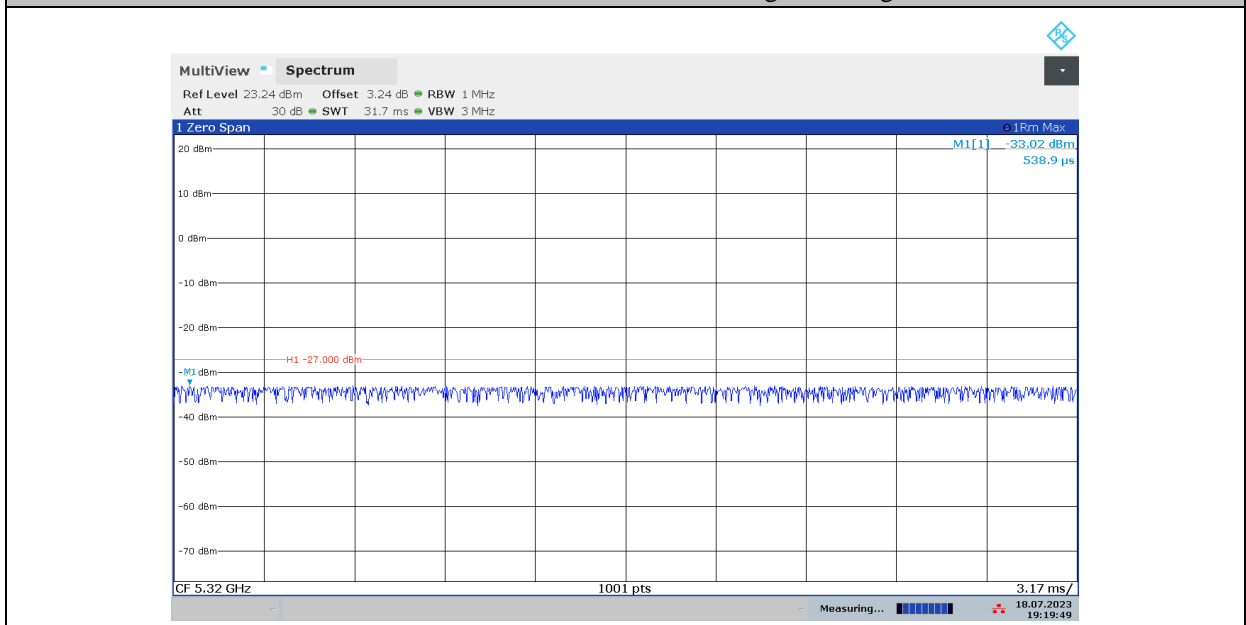
11BE160MIMO_Ant15_5250_Puncturing20- configure-6



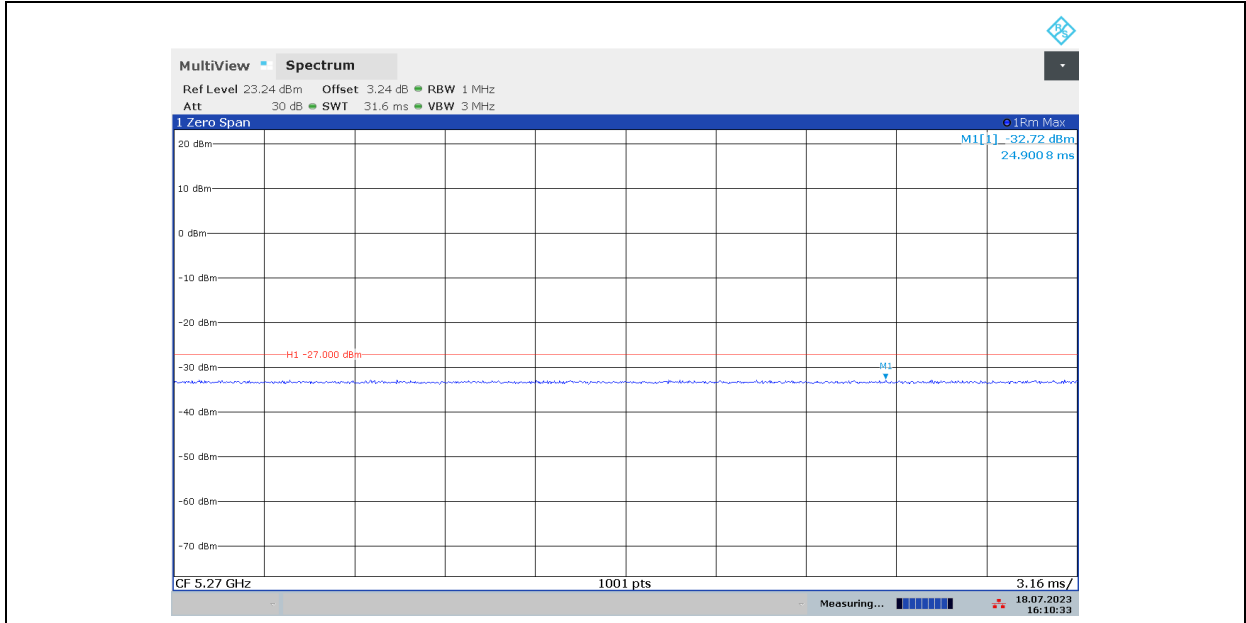
11BE160MIMO_Ant15_5250_Puncturing20- configure-7



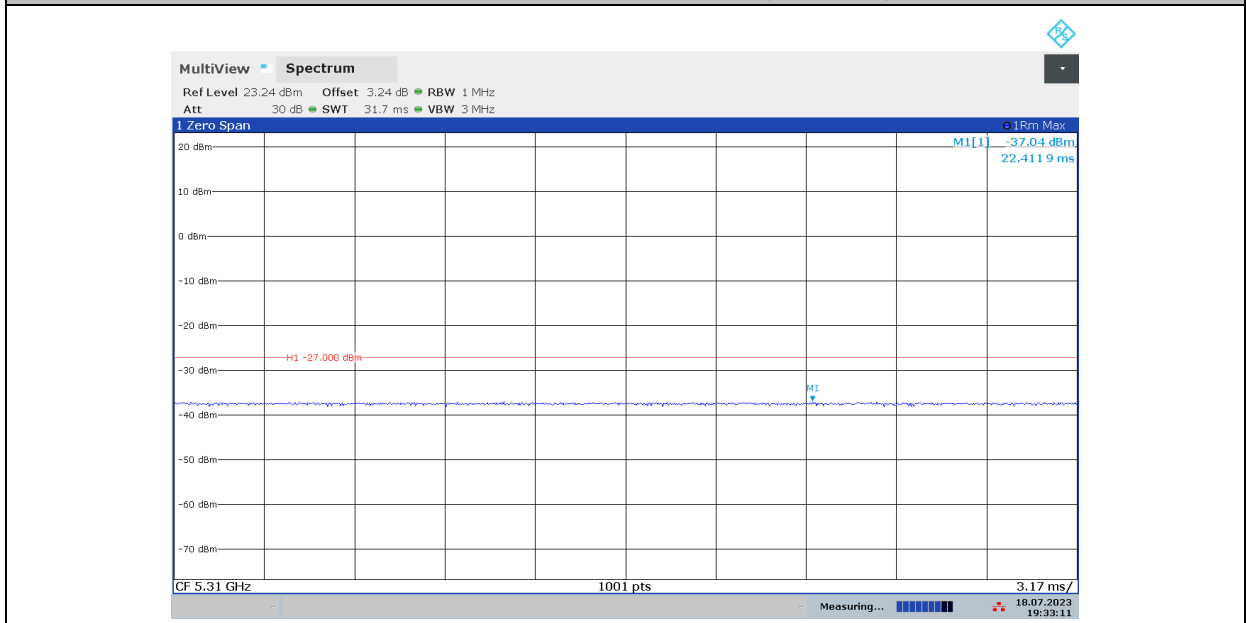
11BE160MIMO_Ant15_5250_Puncturing20- configure-8



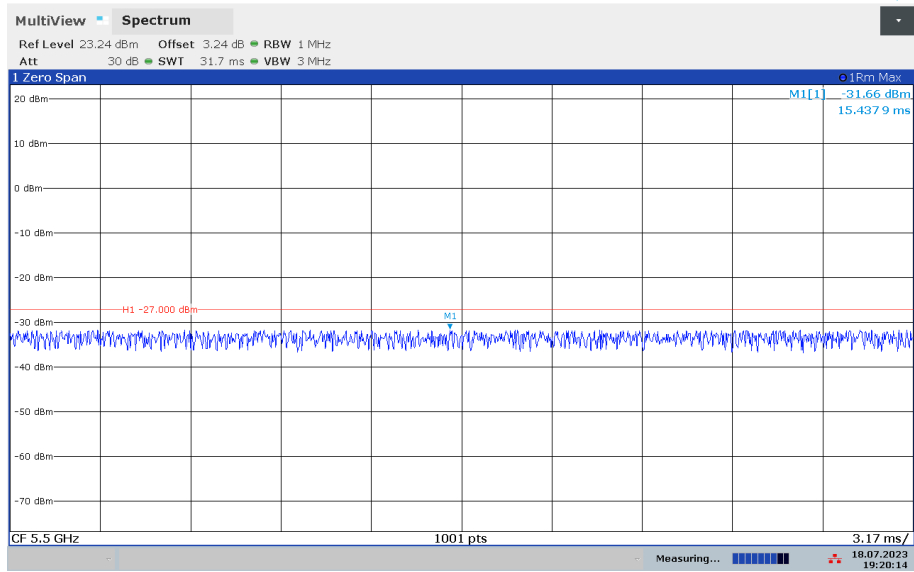
11BE160MIMO_Ant15_5250_Puncturing40- configure-3



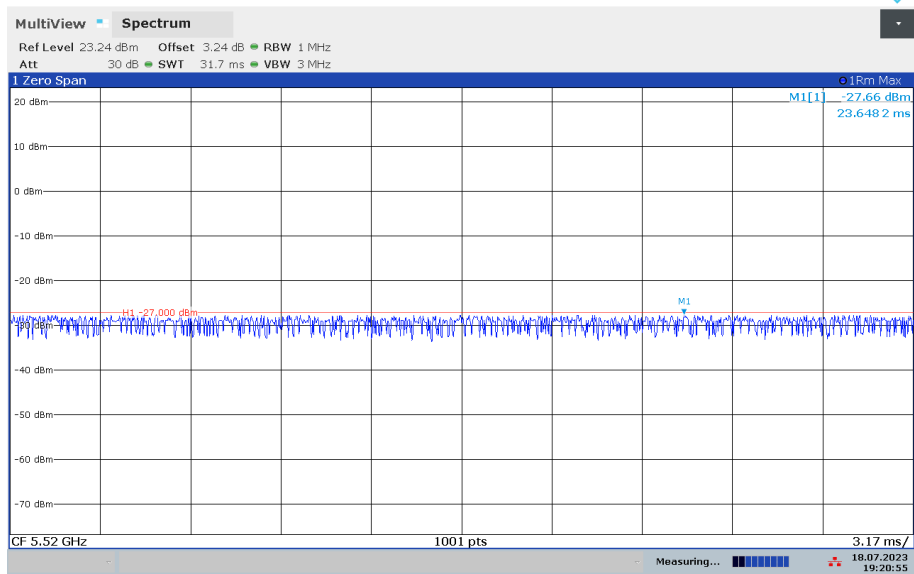
11BE160MIMO_Ant15_5250_Puncturing40- configure-4



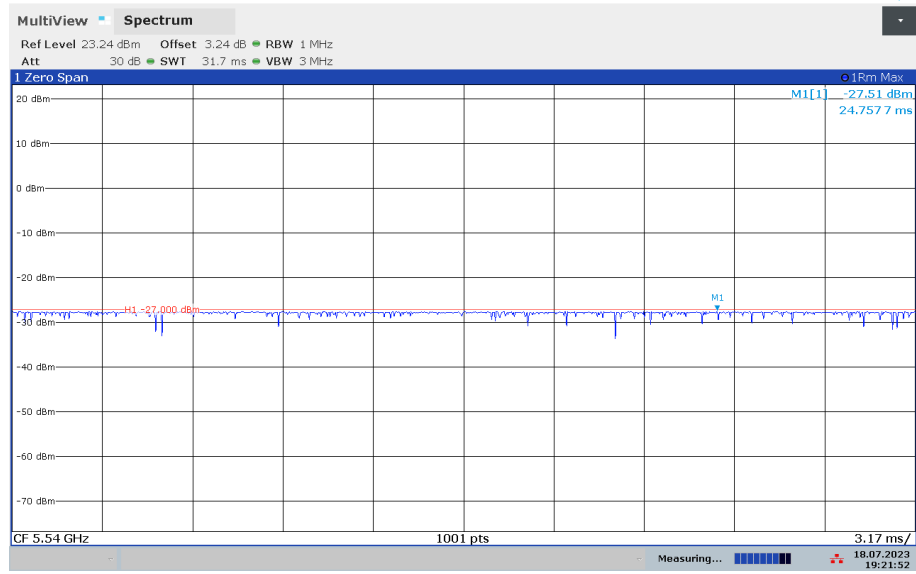
11BE160MIMO_Ant15_5570_Puncturing20- configure-1



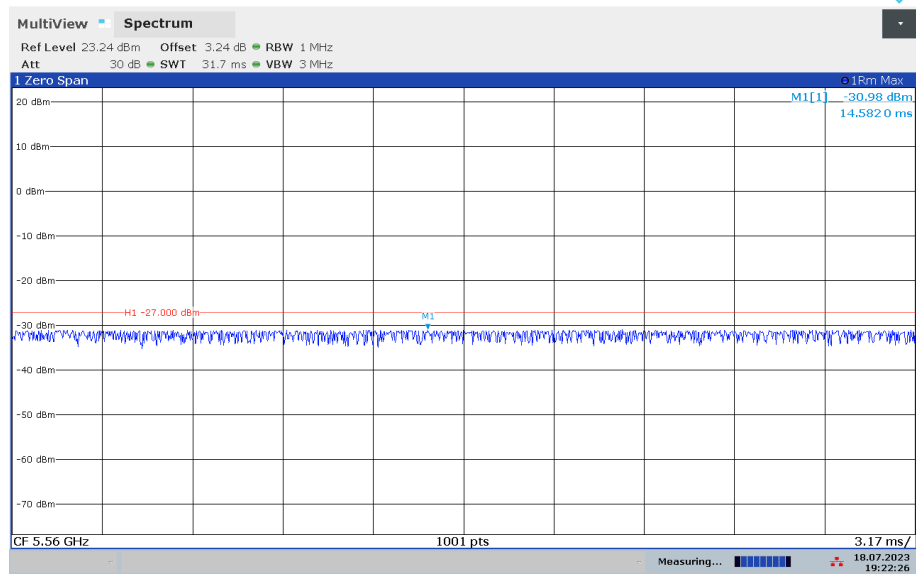
11BE160MIMO_Ant15_5570_Puncturing20- configure-2



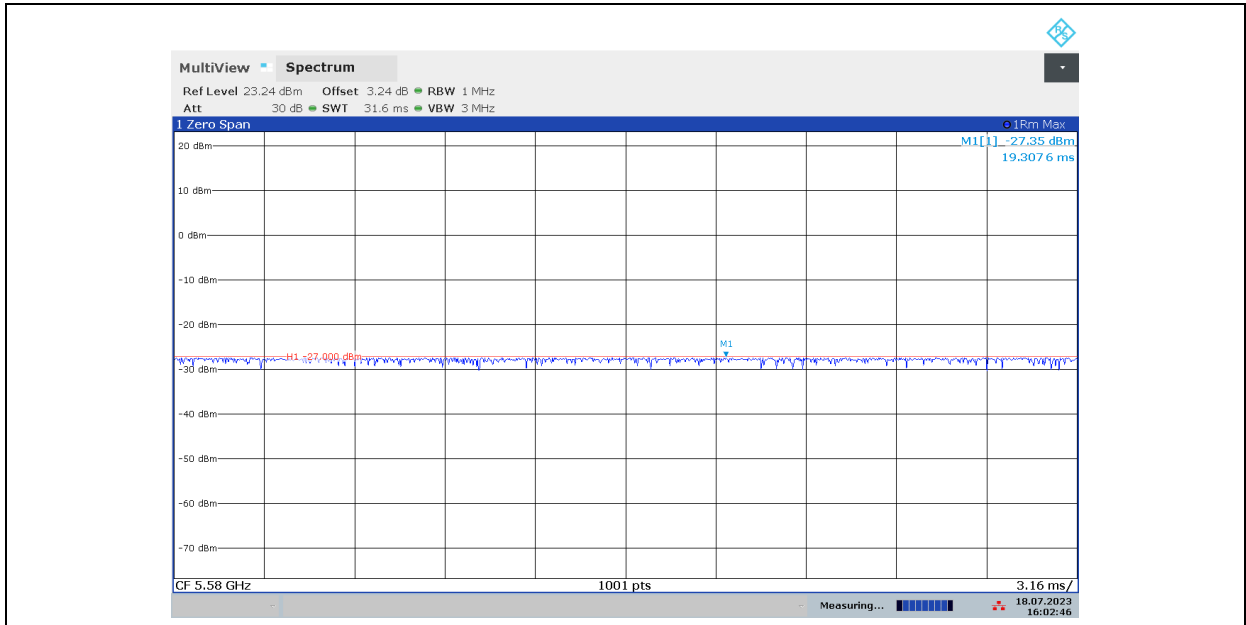
11BE160MIMO_Ant15_5570_Puncturing20- configure-3



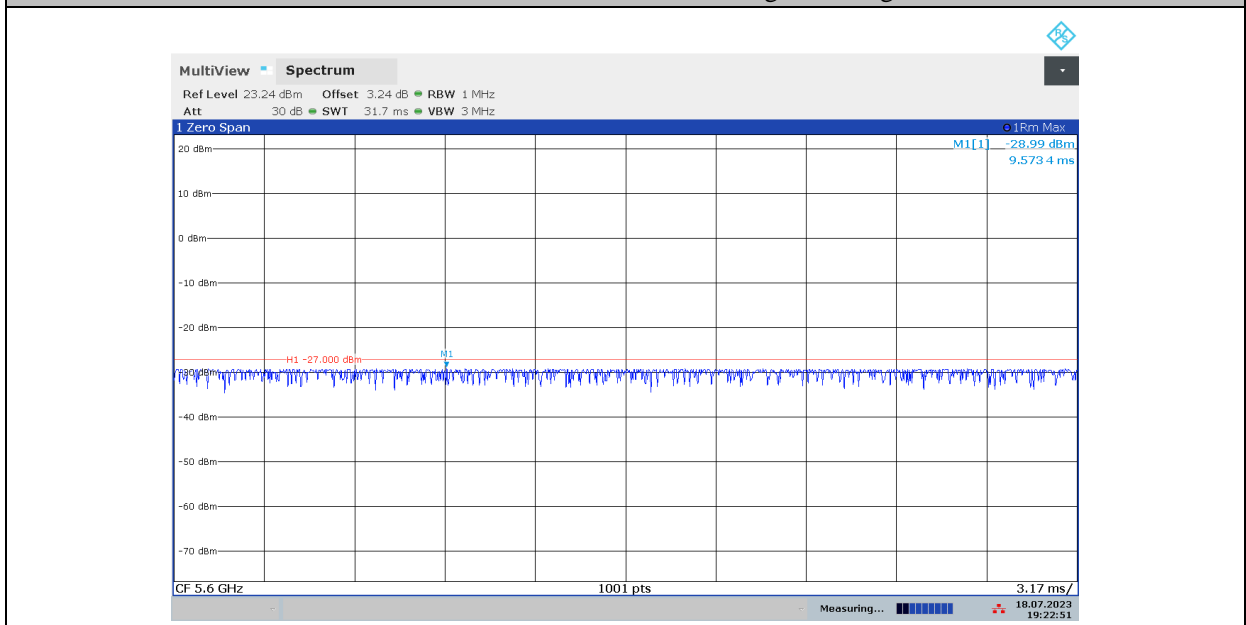
11BE160MIMO_Ant15_5570_Puncturing20- configure-4



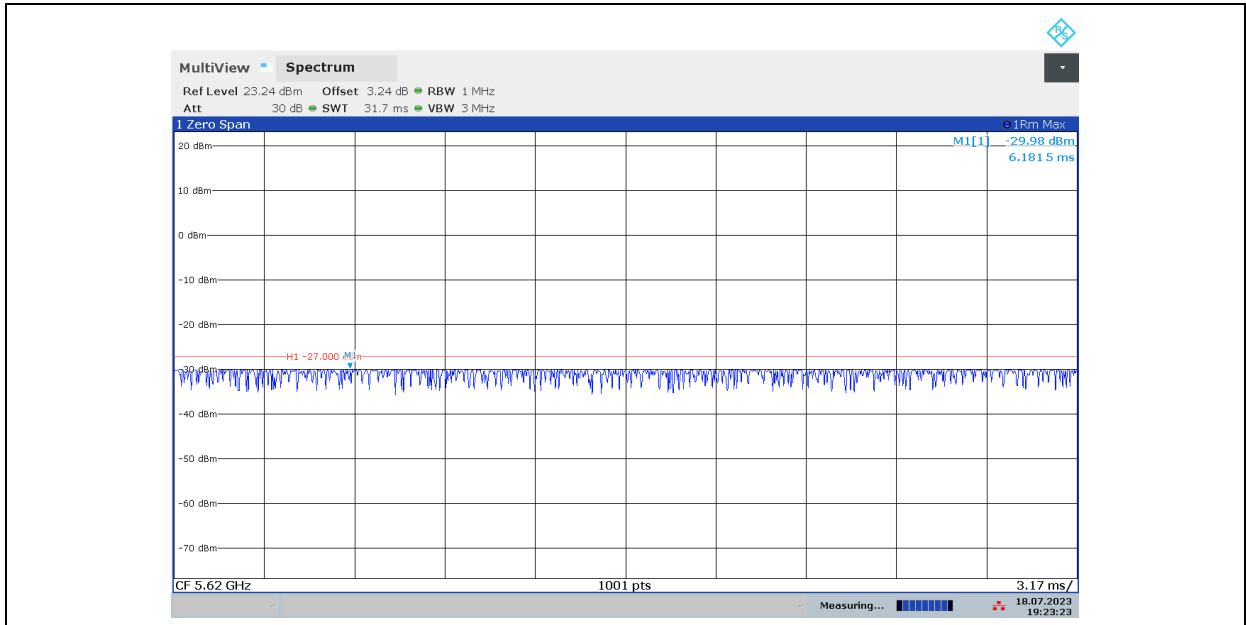
11BE160MIMO_Ant15_5570_Puncturing20- configure-5



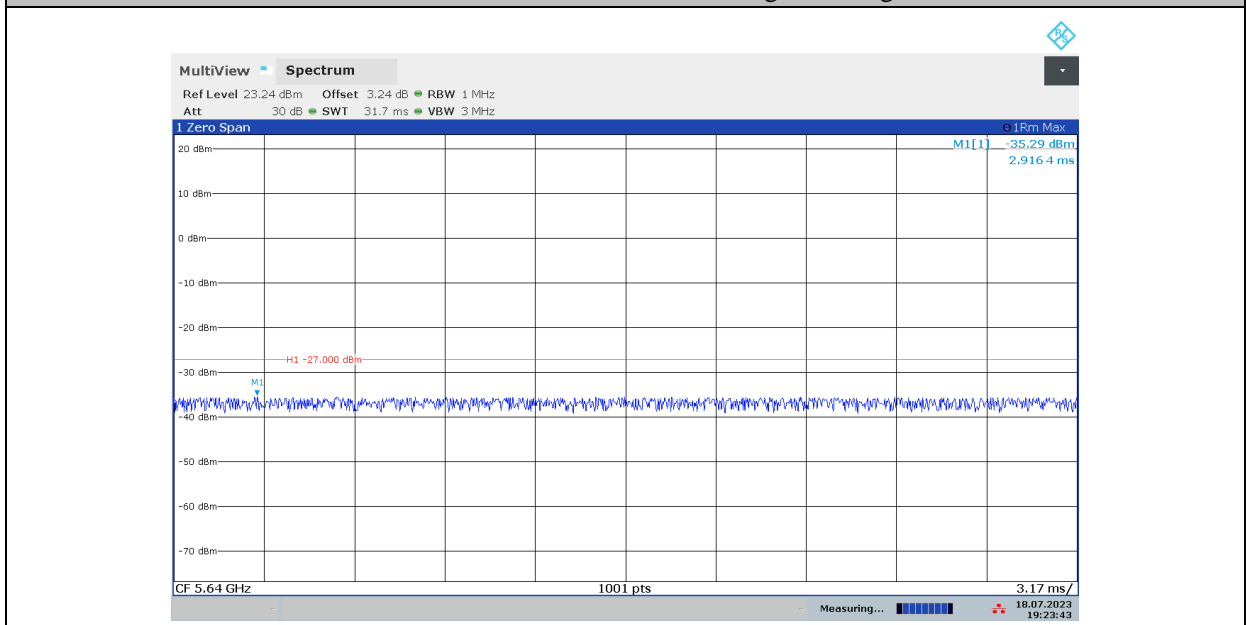
11BE160MIMO_Ant15_5570_Puncturing20- configure-6



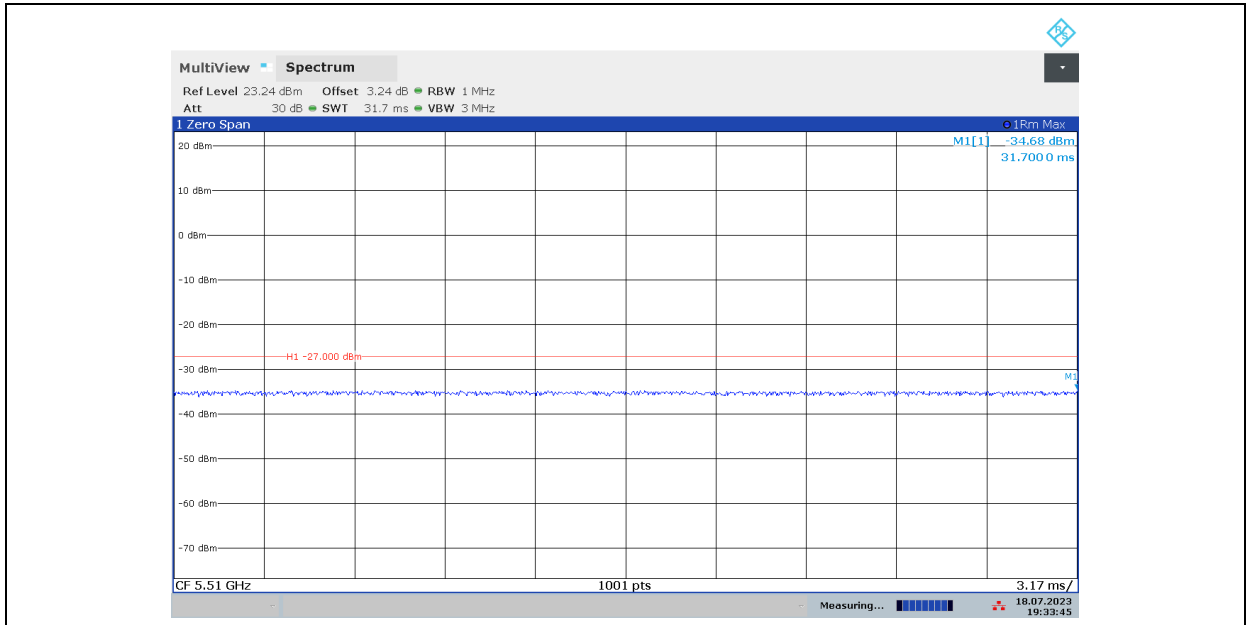
11BE160MIMO_Ant15_5570_Puncturing20- configure-7



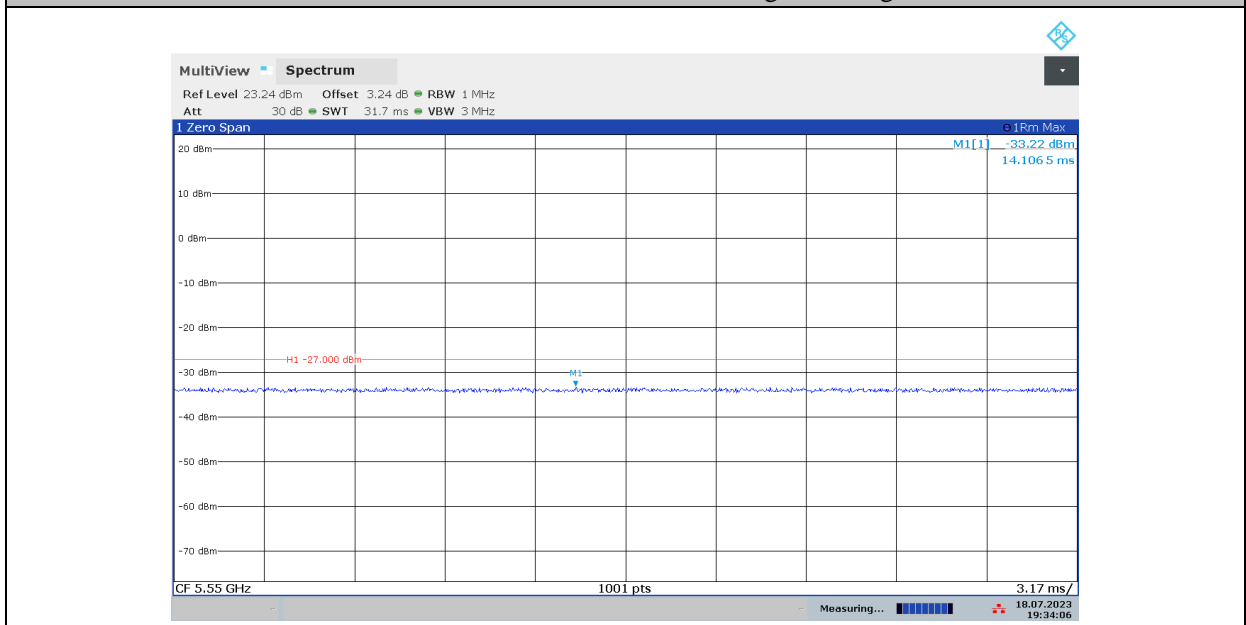
11BE160MIMO_Ant15_5570_Puncturing20- configure-8



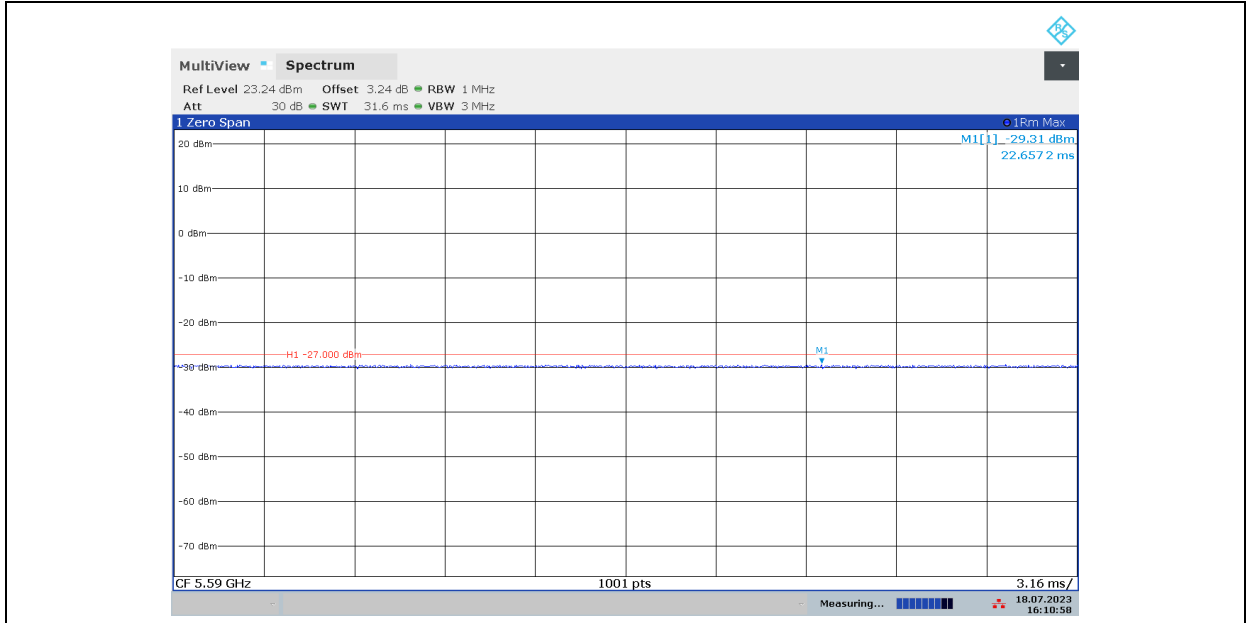
11BE160MIMO_Ant15_5570_Puncturing40- configure-1



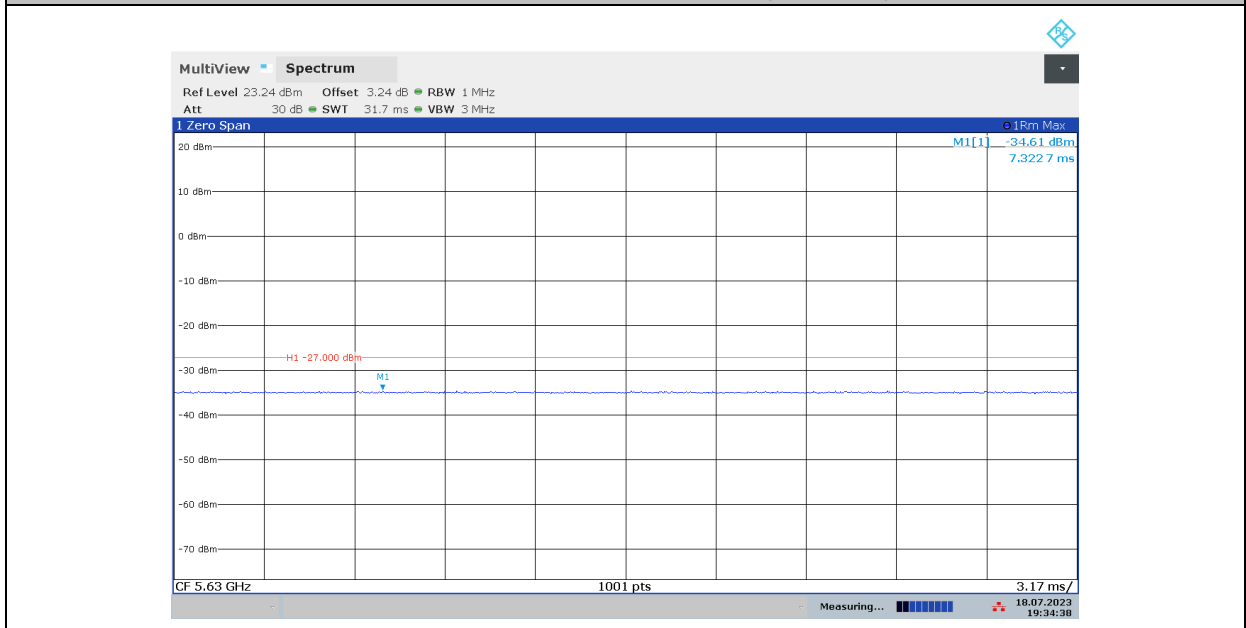
11BE160MIMO_Ant15_5570_Puncturing40- configure-2



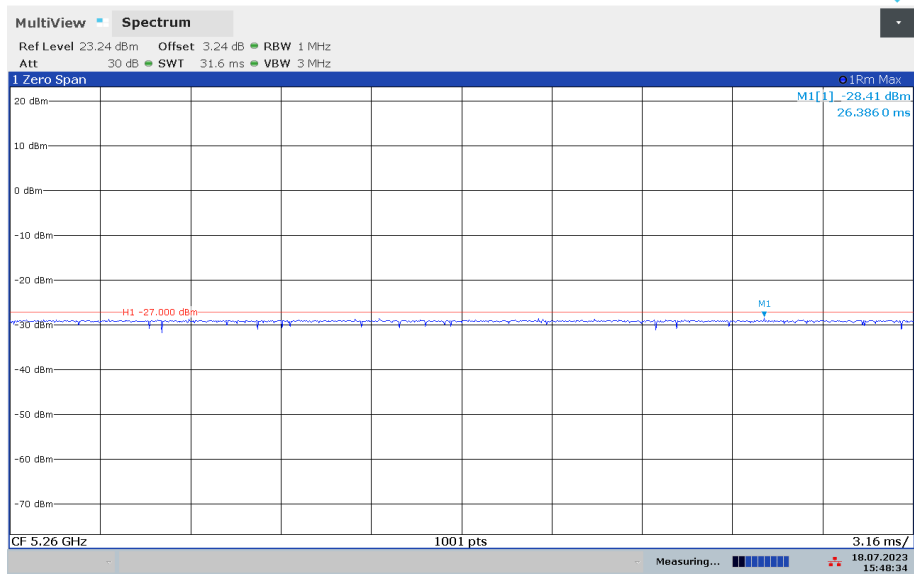
11BE160MIMO_Ant15_5570_Puncturing40- configure-3



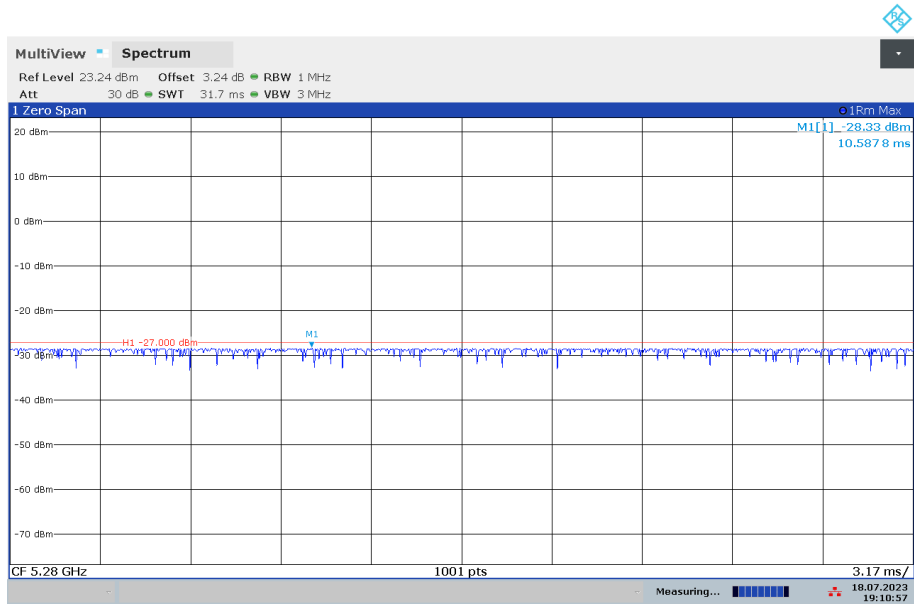
11BE160MIMO_Ant15_5570_Puncturing40-configure-4



11BE160MIMO_Ant9_5250_Puncturing20- configure-5



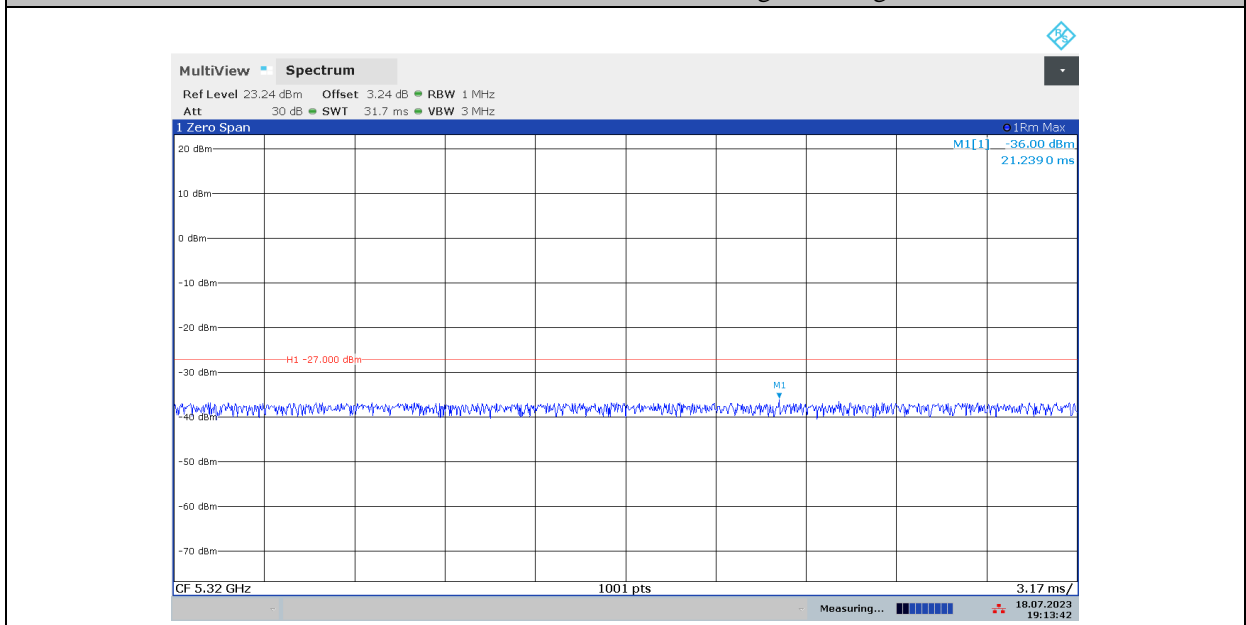
11BE160MIMO_Ant9_5250_Puncturing20- configure-6



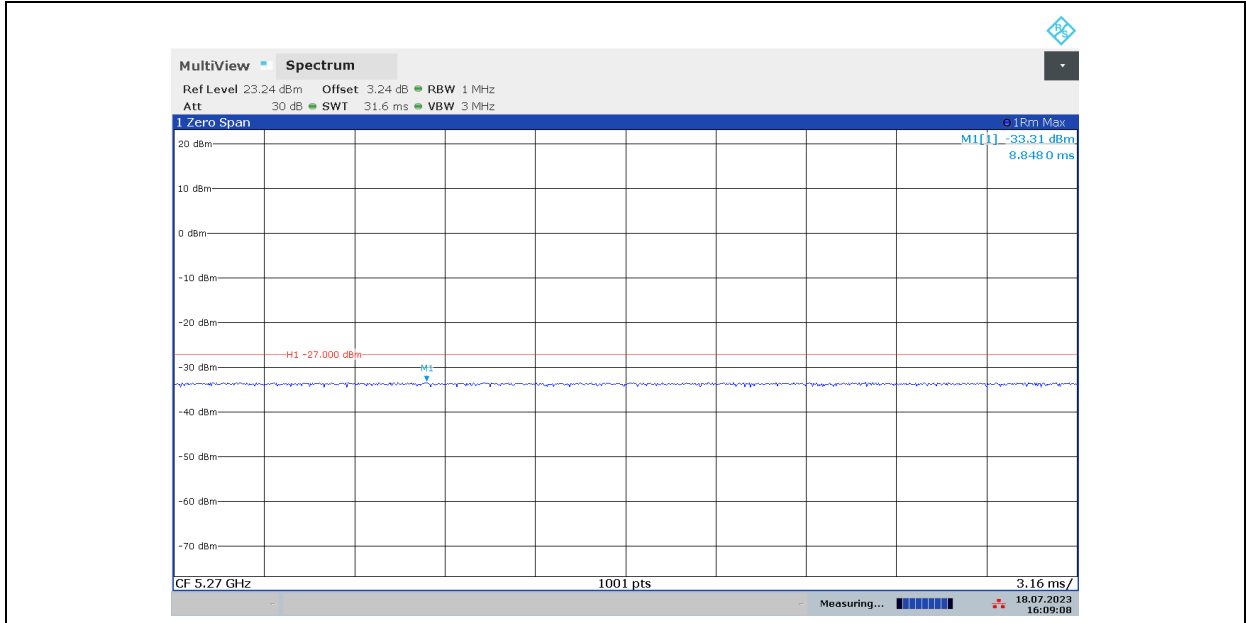
11BE160MIMO_Ant9_5250_Puncturing20- configure-7



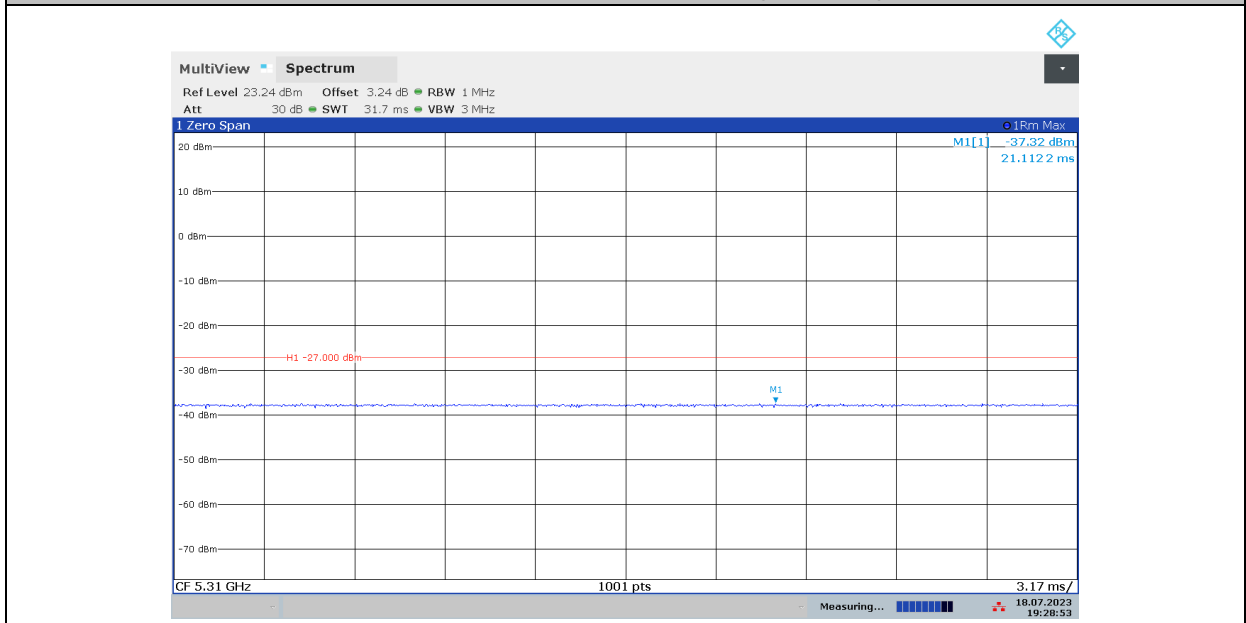
11BE160MIMO_Ant9_5250_Puncturing20- configure-8



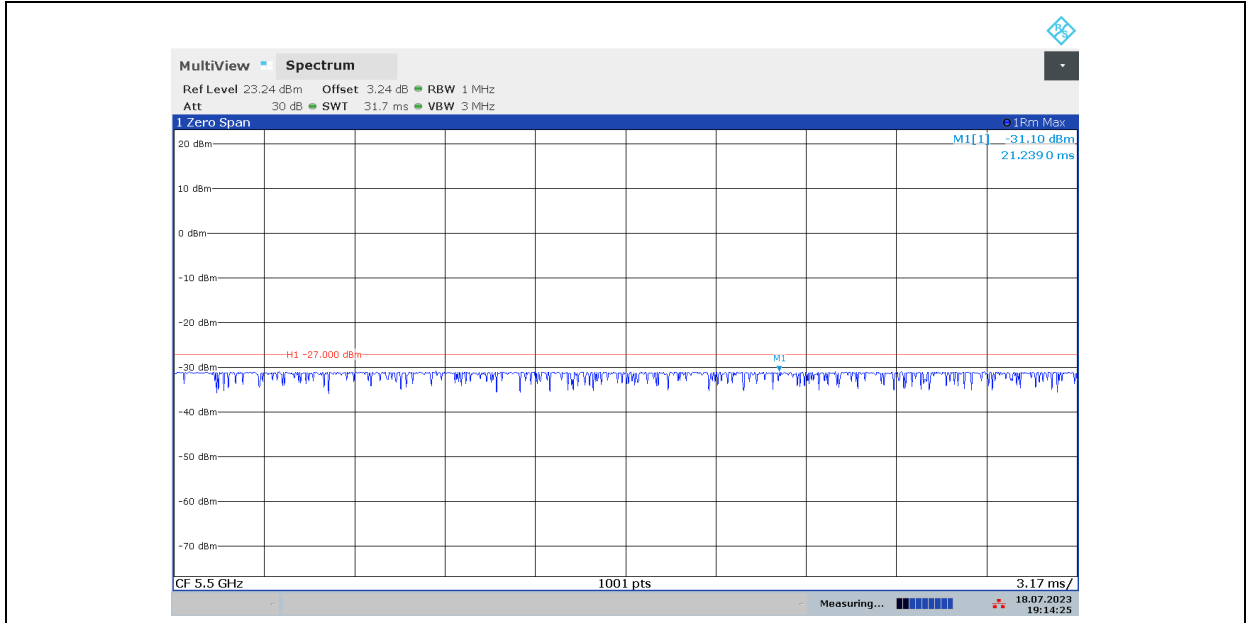
11BE160MIMO_Ant9_5250_Puncturing40- configure-3



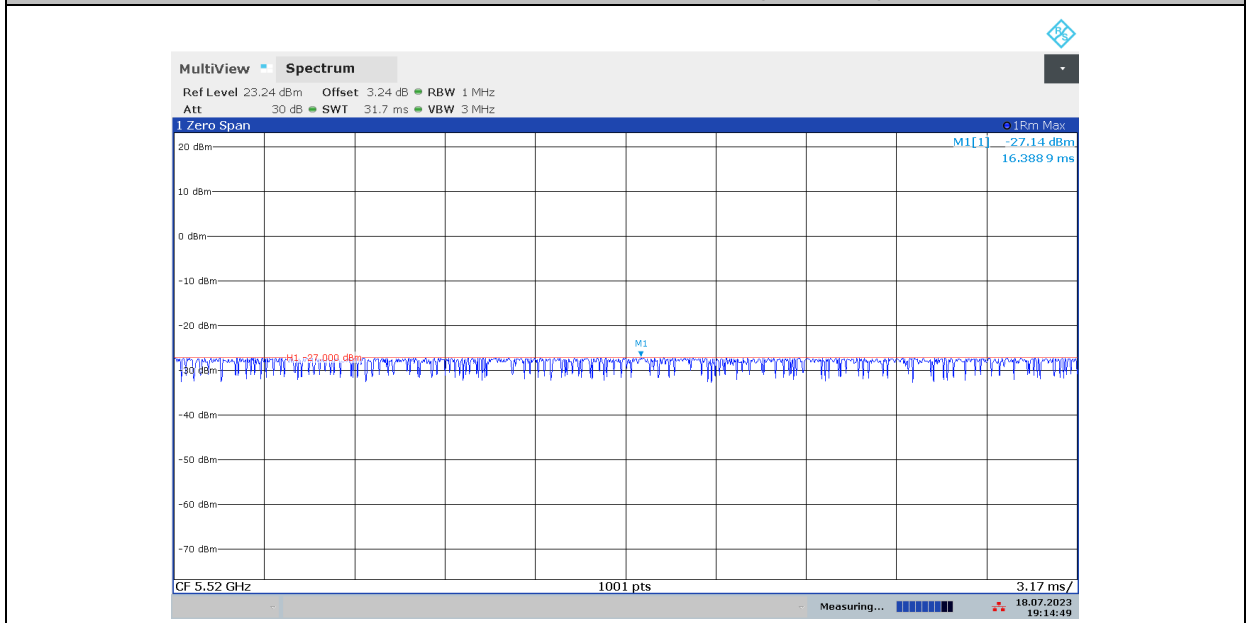
11BE160MIMO_Ant9_5250_Puncturing40-configure-4



11BE160MIMO_Ant9_5570_Puncturing20-configure-1



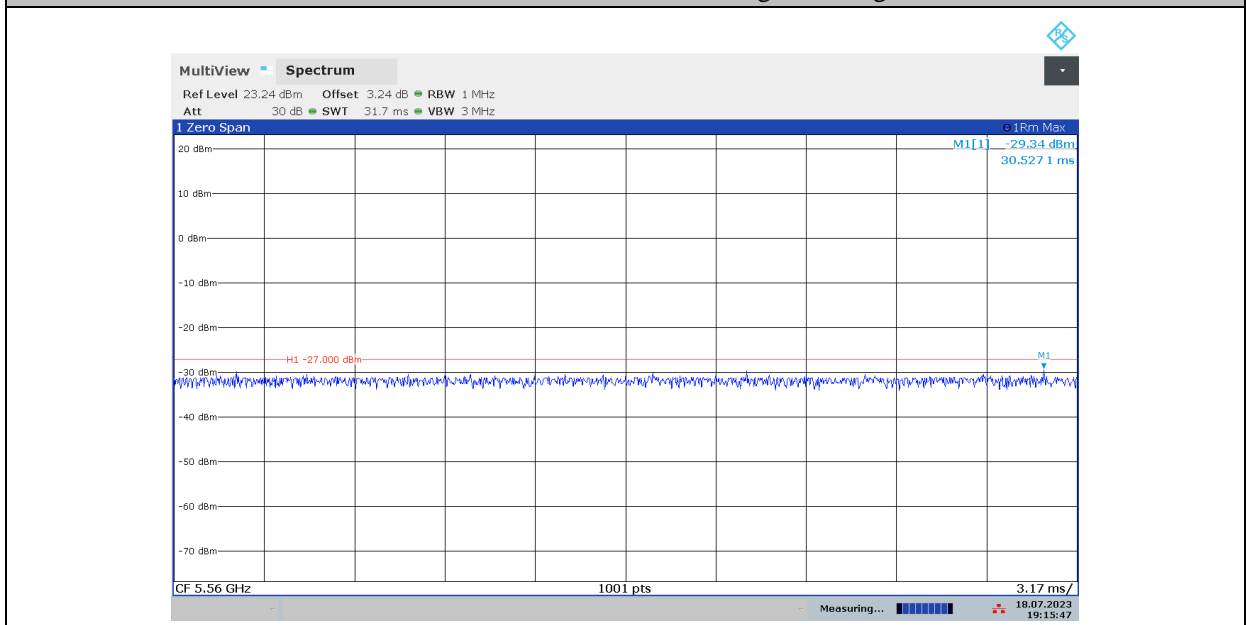
11BE160MIMO_Ant9_5570_Puncturing20- configure-2



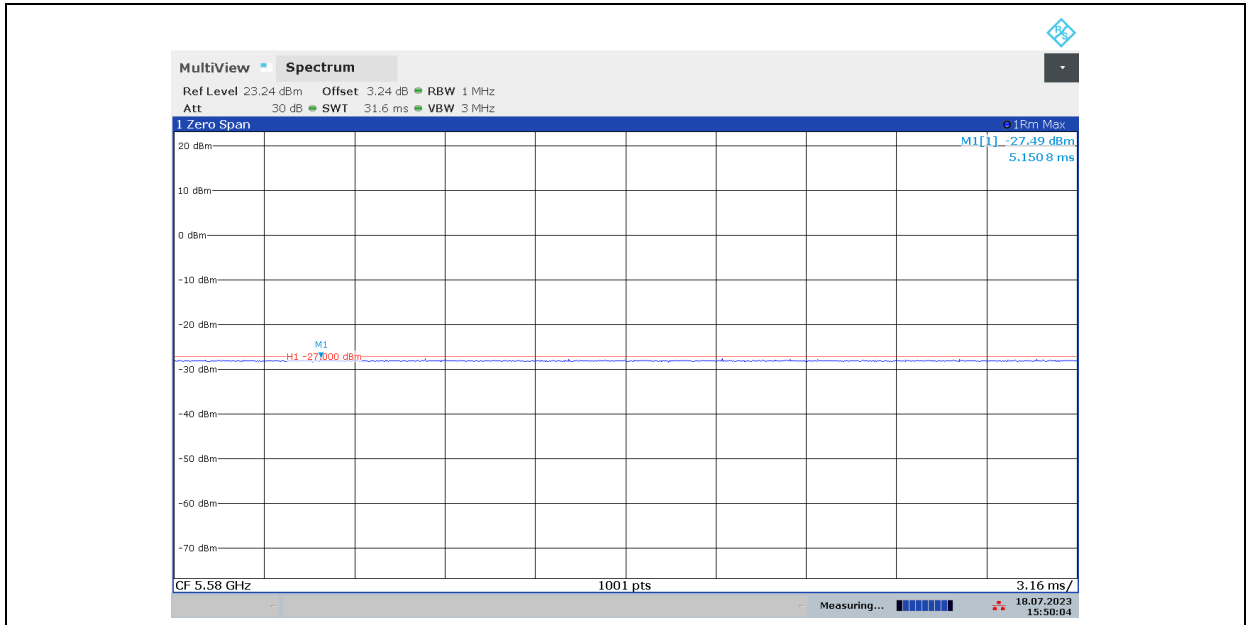
11BE160MIMO_Ant9_5570_Puncturing20- configure-3



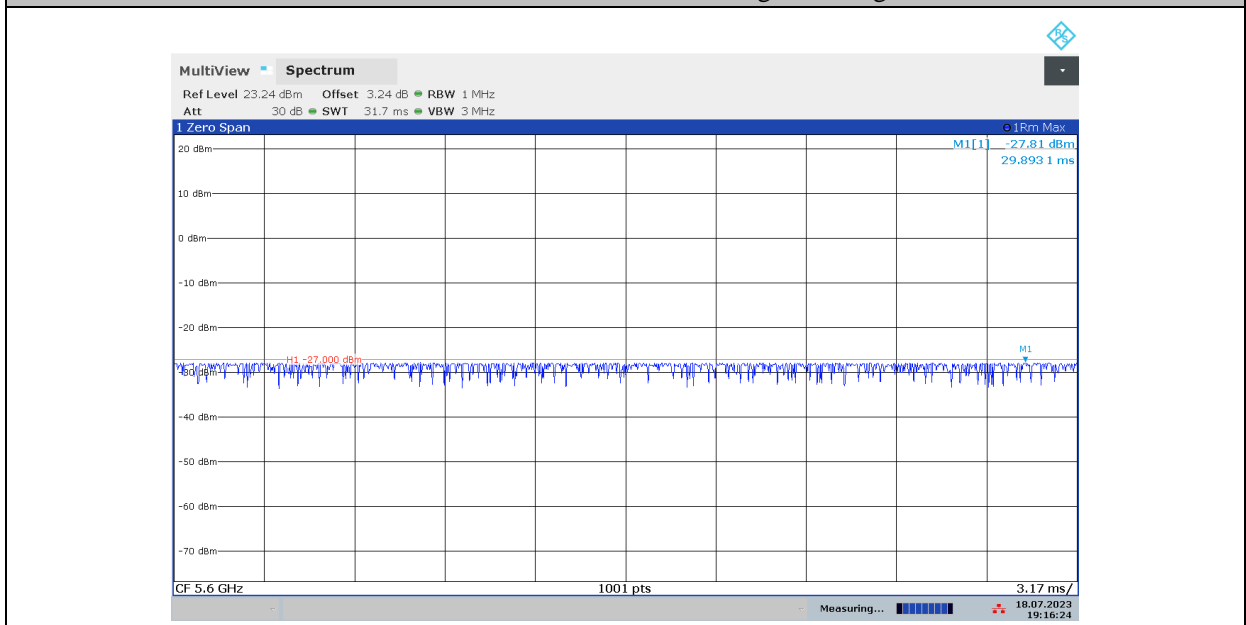
11BE160MIMO_Ant9_5570_Puncturing20- configure-4



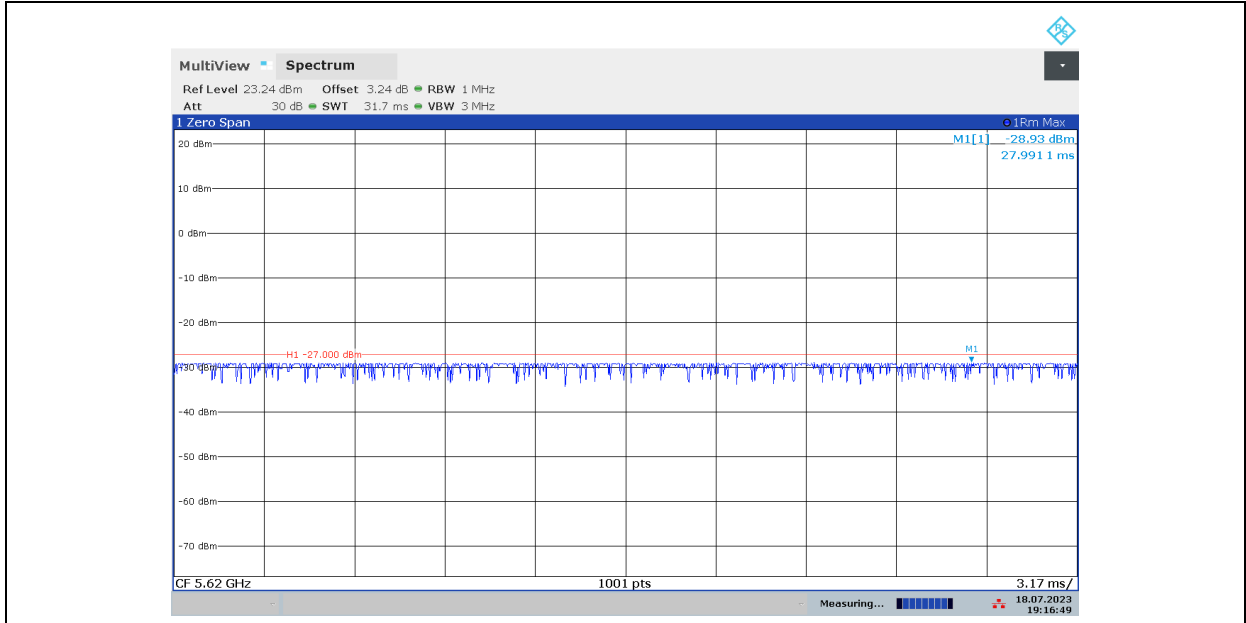
11BE160MIMO_Ant9_5570_Puncturing20- configure-5



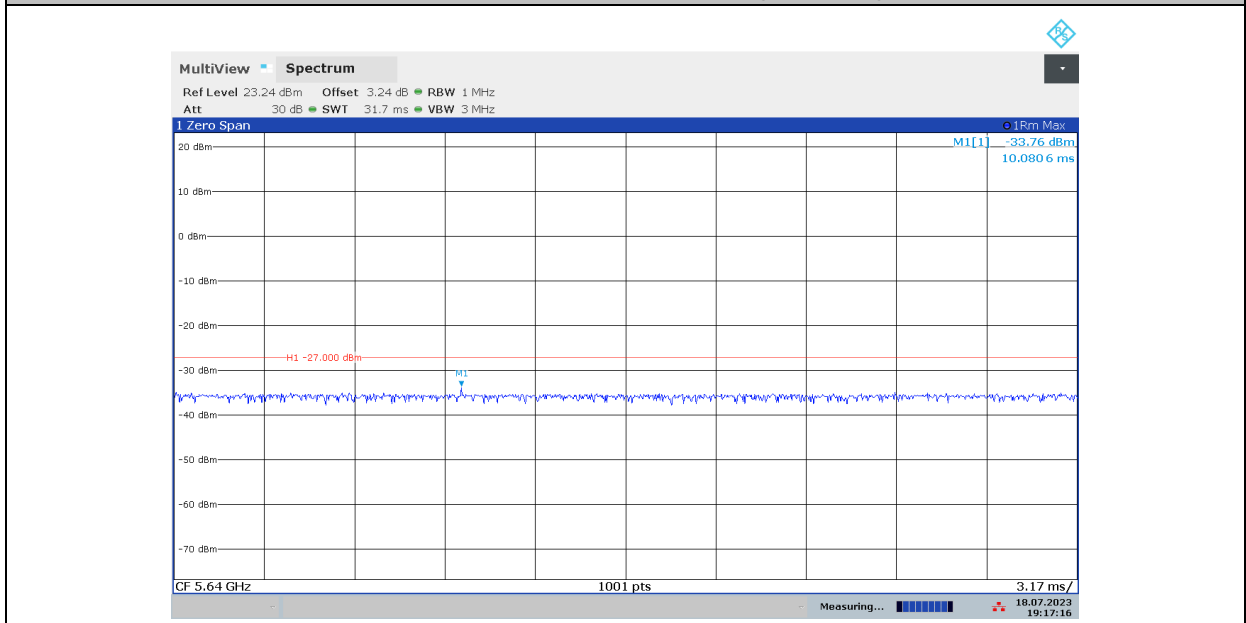
11BE160MIMO_Ant9_5570_Puncturing20- configure-6



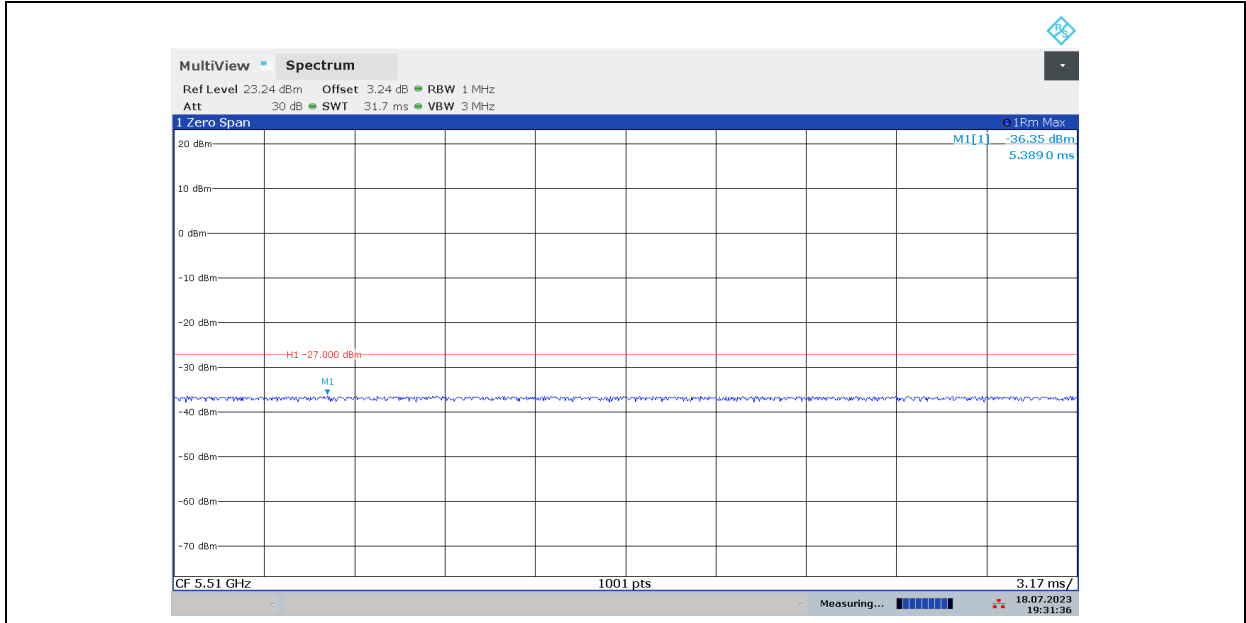
11BE160MIMO_Ant9_5570_Puncturing20- configure-7



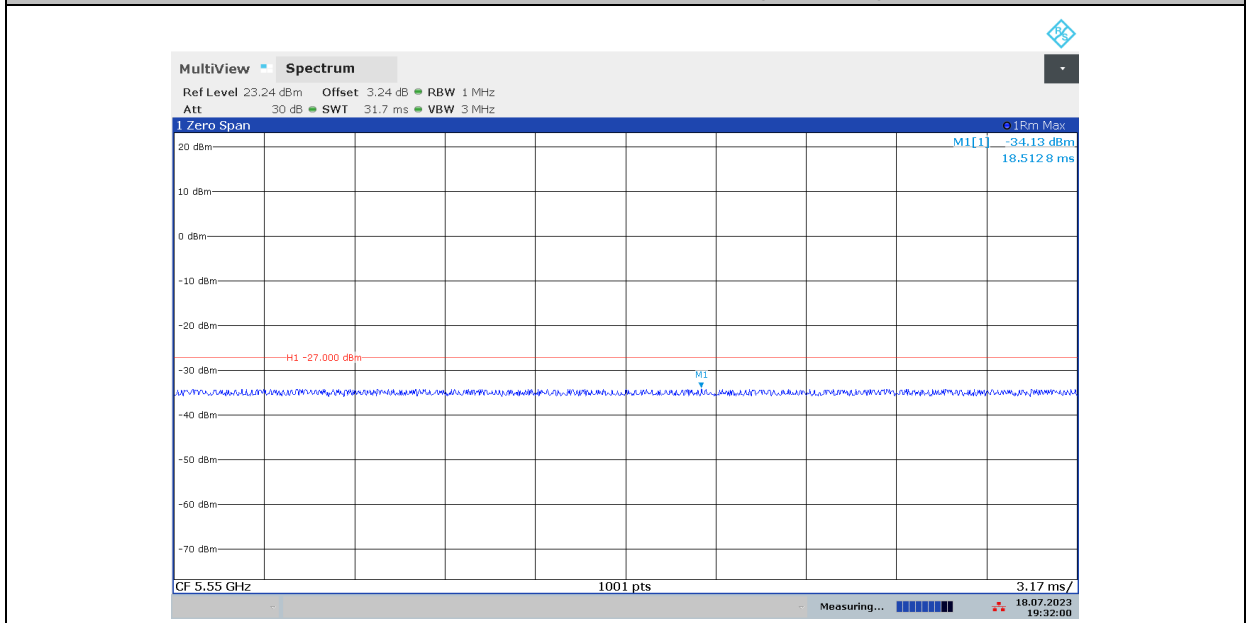
11BE160MIMO_Ant9_5570_Puncturing20- configure-8



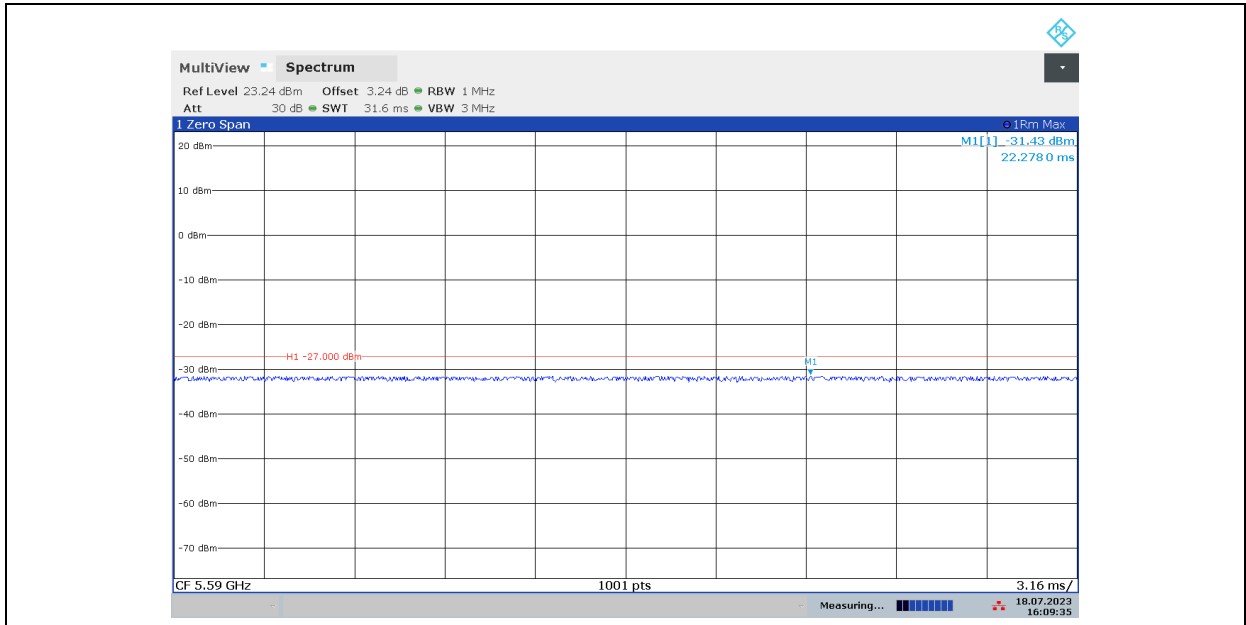
11BE160MIMO_Ant9_5570_Puncturing40- configure-1



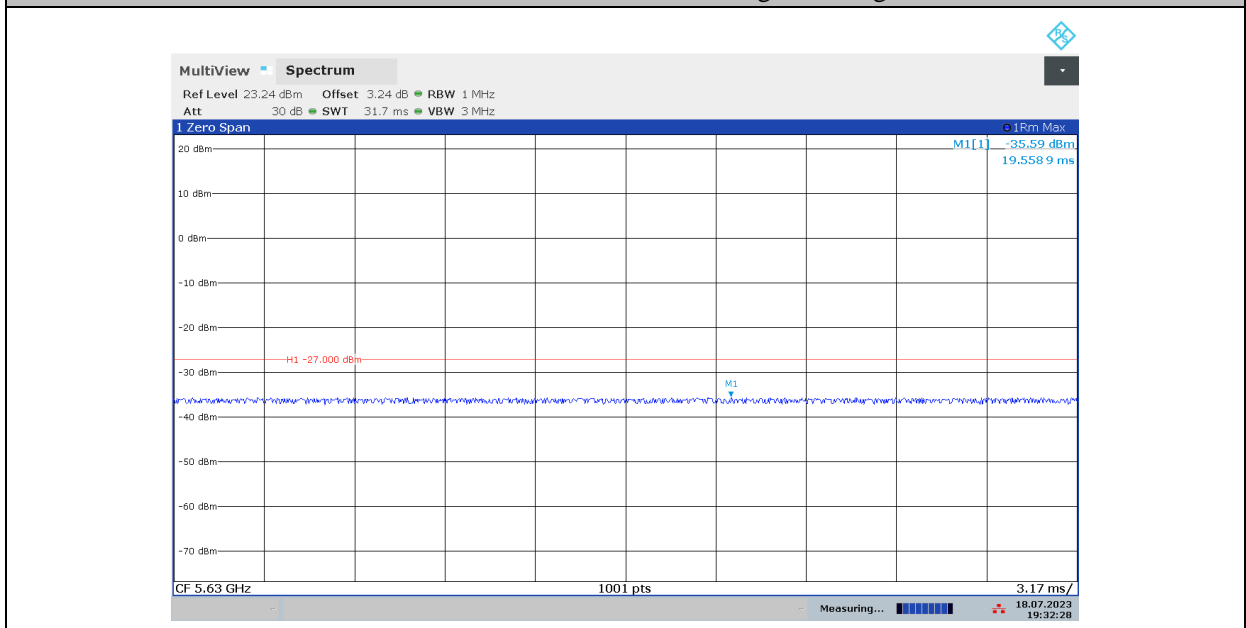
11BE160MIMO_Ant9_5570_Puncturing40- configure-2



11BE160MIMO_Ant9_5570_Puncturing40- configure-3



11BE160MIMO_Ant9_5570_Puncturing40- configure-4



ANNEX B: EUT parameters

Disclaimer: The antenna gain provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX C: Accreditation Certificate



Accredited Laboratory

A2LA has accredited

TELECOMMUNICATION TECHNOLOGY LABS, CAICT

Beijing, People's Republic of China

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 26th day of June 2023.

Mr. Trace McInturf, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7049.01
Valid to July 31, 2024

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

*** END OF REPORT BODY ***