FCC RF Test Report

APPLICANT	:	Xiaomi Communications Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	Xiaomi
MODEL NAME	:	2506BPN68G
FCC ID	:	2AFZZPN68G
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	15E 6 GHz Low Power Dual Client (6CD) (Standard Power UNII 5/7)
TEST DATE(S)	:	May 14, 2025 ~ May 29, 2025

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

Fly Liang

Approved by: Fly Liang

ACCREDITED
Cert #5145.01

Sporton International Inc. (ShenZhen)

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History of this test report

Report No.	Version	Description	Issued Date
FR542529H	01	Initial issue of report	Jun. 11, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(a)(11)	26dB Emission Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.407(a)(7)	Maximum Conducted Output Power	Reporting only	-
3.2	15.407(a)(7)	Fundamental Maximum EIRP	Pass	-
3.3	15.407(a)(7)	Fundamental Power Spectral Density	Pass	-
3.4	15.407(b)(7)	In-Band Emissions (Channel Mask)	Pass	-
-	15.407(d)(6)	Contention Based Protocol	Pass	1
3.5	15.407(b)	Unwanted Emissions	Pass	Under limit 22.72 dB at 5921.52 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 14.80 dB at 0.570 MHz
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Remark 1:
For CBP, receiver circuit is the same when connect to indoor AP and standard AP, the Contention Based Protocol have been demonstrated compliance in the Indoor low power test report which is issued separately (Report No. FR542529G).

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Xiaomi
Model Name	2506BPN68G
FCC ID	2AFZZPN68G
IMEI Code	Conducted: 864724070091723/864724070091731 Conduction: 864724070065800/864724070065818 Radiation: 864724070091343/864724070091350
HW Version	1351P2404
SW Version	Xiaomi HyperOS 2.0
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	U-NII-5: 5925 MHz ~ 6425 MHz U-NII-7: 6525 MHz ~ 6875 MHz
Maximum EIRP	**<MIMO Ant.6+17>** **<U-NII-5>** 802.11ax HE20 : 16.13 dBm / 0.0410 W 802.11ax HE40 : 16.52 dBm / 0.0449 W 802.11ax HE80 : 16.60 dBm / 0.0457 W 802.11ax HE160 : 16.54 dBm / 0.0451 W 802.11be EHT20 : 16.21 dBm / 0.0418 W 802.11be EHT40 : 16.59 dBm / 0.0456 W 802.11be EHT80 : 16.69 dBm / 0.0467 W 802.11be EHT160 : 16.58 dBm / 0.0455 W 802.11be EHT320 : 16.45 dBm / 0.0442 W **<U-NII-7>** 802.11ax HE20 : 16.83 dBm / 0.0482 W 802.11ax HE40 : 17.35 dBm / 0.0543 W 802.11ax HE80 : 17.01 dBm / 0.0502 W 802.11ax HE160 : 16.82 dBm / 0.0481 W 802.11be EHT20 : 16.92 dBm / 0.0492 W 802.11be EHT40 : 17.42 dBm / 0.0552 W 802.11be EHT80 : 17.08 dBm / 0.0511 W 802.11be EHT160 : 16.88 dBm / 0.0488 W
99% Occupied Bandwidth	802.11 be EHT20 : 18.838 MHz 802.11 be EHT40 : 37.860 MHz 802.11 be EHT80 : 77.496 MHz 802.11 be EHT160 : 156.34 MHz 802.11 be EHT320 : 318.24 MHz
Antenna Type / Gain	**<5925 MHz ~ 6425 MHz >** <Ant. 6> : PIFA Antenna with gain -0.50 dBi <Ant. 17> : PIFA Antenna with gain -0.50 dBi **<6525 MHz ~ 6875 MHz >** <Ant. 6> : PIFA Antenna with gain -0.70 dBi <Ant. 17> : PIFA Antenna with gain -0.70 dBi
Type of Modulation	802.11ax: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM) 802.11be: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM / 4096QAM)

Remark:

1. WIFI MIMO support CDD mode.
2. For WLAN SISO/MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power.
3. For 802.11ax/be 20/40/80/160MHz mode, the whole testing has assessed only 802.11be EHT20/EHT40/EHT80/EHT160MHz by referring to the higher output power.
4. The device does not support UNII-5 CH 2 by manufacturer declared.

5. 802.11ax/be support full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) are tested for conducted power/PSD/Channel Mask in appendix A, all the other test case were performed with full RU with its maximum power/PSD.
6. 802.11be support small size RU, Large size RU and Puncturing modes as below, which is less than full RU conducted power, therefore have assessed only Power Density/RSE.

<Small size RU 52+26 Tone>:

Bandwidth	Tones		Index		For test modes configure
20MHz	26	52	2	37	1
20MHz	52	26	38	4	2
20MHz	52	26	40	6	3

<Small size RU 106+26 Tone>:

Bandwidth	Tones		Index		For test modes configure
20MHz	106	26	53	4	1
20MHz	26	106	4	54	2

<Large size RU 484+242 tone> & <80M BW Puncturing 20MHz>:

Bandwidth	Tones		Index		For test modes configure
80MHz	242	484	62	66	1
80MHz	242	484	61	66	2
80MHz	484	242	65	64	3
80MHz	484	242	65	63	4

<Large size RU 996+484 tone> & <160M BW Puncturing 40MHz>:

Bandwidth	Tones		Index		For test modes configure
160MHz	484-Left	996-Right	66-Left	67-Right	1
160MHz	484-Left	996-Right	65-Left	67-Right	2
160MHz	996-Left	484-Right	67-Left	66-Right	3
160MHz	996-Left	484-Right	67-Left	65-Right	4

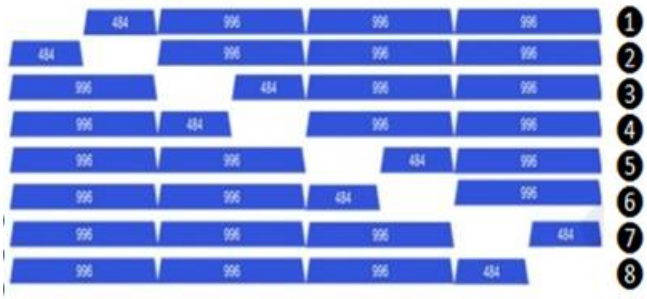
<Large size RU 996+484+242 tone> & <160M BW Puncturing 20MHz>:

Bandwidth	Tones			Index			For test modes configure
160MHz	242-Left	484-Left	996-Right	62-Left	66-Left	67-Right	1
160MHz	242-Left	484-Left	996-Right	61-Left	66-Left	67-Right	2
160MHz	484-Left	242-Left	996-Right	65-Left	64-Left	67-Right	3
160MHz	484-Left	242-Left	996-Right	65-Left	63-Left	67-Right	4
160MHz	996-Left	242-Right	484-Right	67-Left	62-Right	66-Right	5
160MHz	996-Left	242-Right	484-Right	67-Left	61-Right	66-Right	6
160MHz	996-Left	484-Right	242-Right	67-Left	65-Right	64-Right	7
160MHz	996-Left	484-Right	242-Right	67-Left	65-Right	63-Right	8

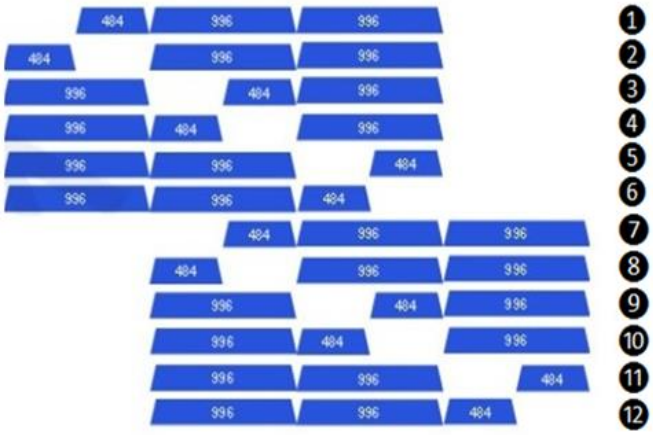
<Large size RU 3*996 tone> & <320M BW Puncturing 80MHz>:

Bandwidth	Tones	Index	For test modes configure
320MHz			1
			2
			3
			4

<Large size RU 3*996+484 tone> & <320M BW Puncturing 40MHz>:

Bandwidth	Tones	Index	For test modes configure
320MHz			1
			2
			3
			4
			5
			6
			7
			8

<Large size RU 2*996+484 tone> & <320M BW Puncturing 80+40MHz>:

Bandwidth	Tones	Index	For test modes configure
320MHz			1
			2
			3
			4
			5
			6
			7
			8
			9
			10
			11
			12

Only the worse cases are shown in this report.

7. The worse cases of RSE for partial RU, Large size RU and small size RU are shown in this report.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-SZ CO02-SZ 03CH03-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24
2.	CO02-SZ	AUDIX	E3	6.120613b

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v03
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

<U-NII-5>

BW 20M	**Channel**	-	1	5	9	13	17	21	25	29
	Freq. (MHz)	-	5955	5975	5995	6015	6035	6055	6075	6095
BW 40M	**Channel**	3			11		19		27	
	Freq. (MHz)	5965			6005		6045		6085	
BW 80M	**Channel**	7					23			
	Freq. (MHz)	5985					6065			
BW 160M	**Channel**	15								
	Freq. (MHz)	6025								

BW 20M	**Channel**	33	37	41	45	49	53	57	61
	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255
BW 40M	**Channel**	35		43		51		59	
	Freq. (MHz)	6125		6165		6205		6245	
BW 80M	**Channel**	39				55			
	Freq. (MHz)	6145				6225			
BW 160M	**Channel**	47							
	Freq. (MHz)	6185							
BW 320M	**Channel**	31				63			
	Freq. (MHz)	6105				6265			

BW 20M	Channel	65	69	73	77	81	85	89	93
	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415
BW 40M	Channel	67		75		83		91	
	Freq. (MHz)	6285		6325		6365		6405	
BW 80M	Channel	71				87			
	Freq. (MHz)	6305				6385			
BW 160M	Channel	79							
	Freq. (MHz)	6345							

<U-NII- 7>

BW 20M	Channel	-	-	-	-	-	117	121	125
	Freq. (MHz)	-	-	-	-	-	6535	6555	6575
BW 40M	Channel	-		-		-		123	
	Freq. (MHz)	-		-		-		6565	

BW 20M	Channel	129	133	137	141	145	149	153	157
	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735
BW 40M	Channel	131		139		147		155	
	Freq. (MHz)	6605		6645		6685		6725	
BW 80M	Channel	135				151			
	Freq. (MHz)	6625				6705			
BW 160M	Channel	143							
	Freq. (MHz)	6665							

BW 20M	Channel	161	165	169	173	177	181	-	-
	Freq. (MHz)	6755	6775	6795	6815	6835	6855	-	-
BW 40M	Channel	163		171		179		-	
	Freq. (MHz)	6765		6805		6845		-	
BW 80M	Channel	167				-			
	Freq. (MHz)	6785				-			

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11be EHT20	MCS0
802.11be EHT40	MCS0
802.11be EHT80	MCS0
802.11be EHT160	MCS0
802.11be EHT320	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : GSM 850 Idle+ BT Link+ WLAN Link(6G)+ USB Cable(Charging From Adapter)

Remark:
1. For Radiated Test Cases, the tests were performed with Adapter and USB Cable.
2. For UNII-5/7, since the device is dual client, the UNII-5/7 are tested under standard client power level, thus the 6CD_standard power client could re-use the RSE test results.

Ch. #		5925-6425 MHz UNII-5	6525-6875 MHz UNII-7	5925-6425 MHz UNII-5	6525-6875 MHz UNII-7
		20M BW	20M BW	40M BW	40M BW
L	Low	001	117	003	123
M	Middle	045	149	043	147
H	High	093	181	091	179

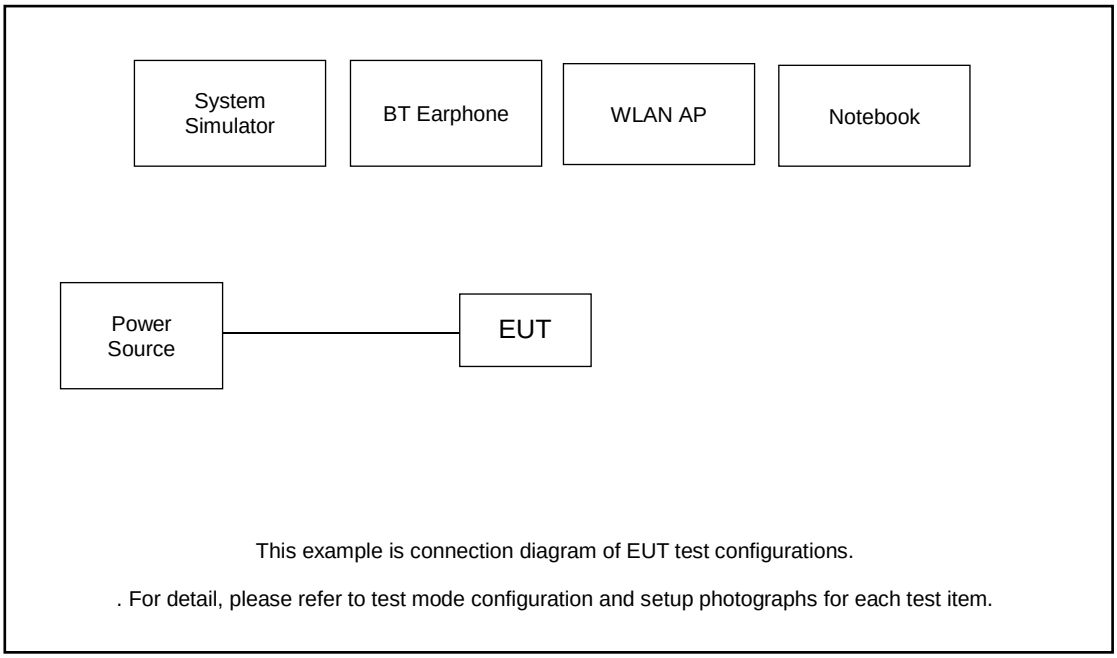
Ch. #		5925-6425 MHz UNII-5	6525-6875 MHz UNII-7	5925-6425 MHz UNII-5	6525-6875 MHz UNII-7
		80M BW	80M BW	160M BW	160M BW
L	Low	007	135	015	143
M	Middle	039	151	047	-
H	High	087	167	079	-

Ch. #		5925-6425 MHz UNII-5
		320M BW
L	Low	-
M	Middle	031
H	High	063

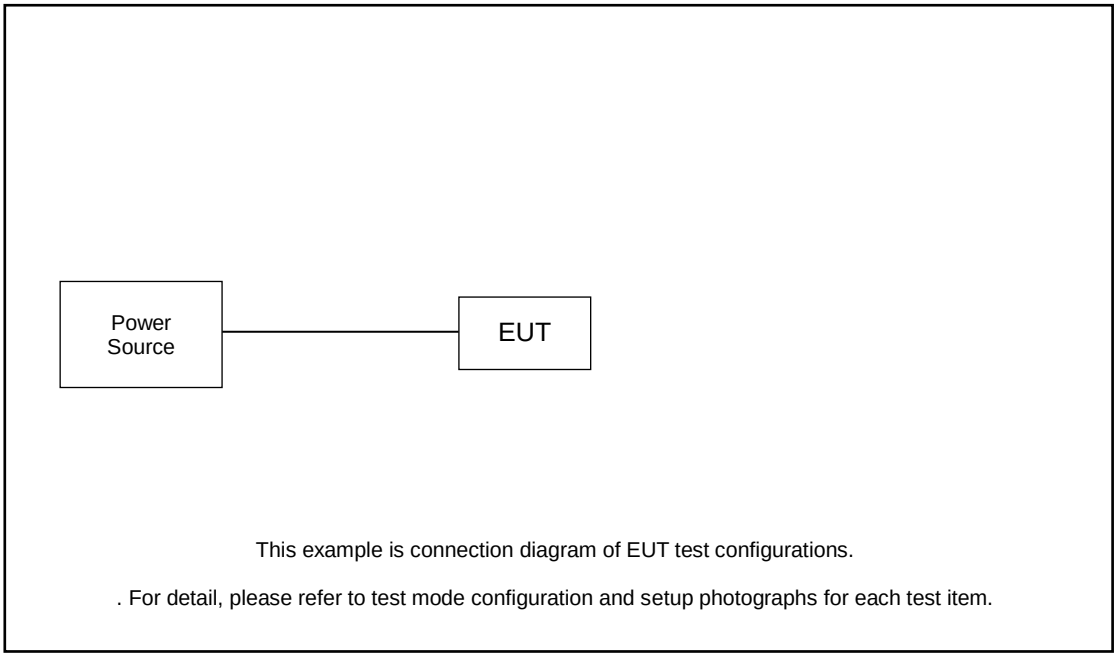
Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	N/A
2.	WLAN AP	NETHEAR	RAXE500	PY320300508	N/A	N/A
3.	Notebook	DELL	Latiude 3400	N/A	N/A	N/A
4.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program (QRCT TX Tool) was provided and enabled to make EUT continuously transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5.99 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 5.99 + 10 = 15.99 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 CFR 15.407 (a)(11)

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

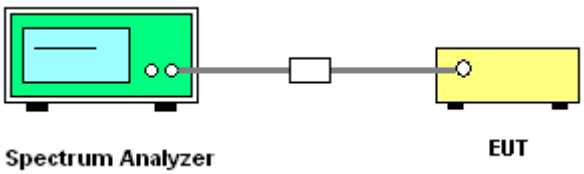
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. 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 analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Maximum conducted Output Power and Fundamental Maximum EIRP Measurement

3.2.1 Limit of Fundamental Maximum EIRP

<FCC 14-30 CFR 15.407>

(a)(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

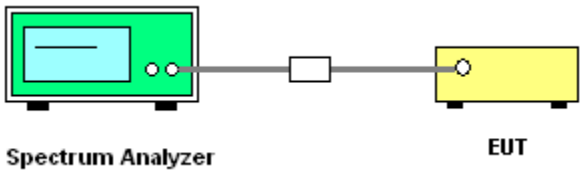
3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, 10 log(1/x), where x is the duty cycle.
4. For MIMO mode, the measure-and-sum technique should be used for measuring the in-band transmit power of a device.

3.2.4 Test Setup



3.2.5 Test Result of Fundamental Maximum EIRP

U-NII-5 MIMO																
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
					Ant 6	Ant 17	Ant 6	Ant 17	SUM	Ant 6	Ant 17	SUM			Ant 6	Ant 17
HE20	MCS0	2	5955	Full	0.21	0.25	13.19	13.48	16.35	-0.50		15.85	30.00	Pass	13	
HE20	MCS0	2	5955	26/0	0.21	0.25	4.57	4.61	7.60	-0.50		7.10	30.00	Pass	4	
HE20	MCS0	2	5955	52/37	0.21	0.25	7.48	7.66	10.58	-0.50		10.08	30.00	Pass	7.5	
HE20	MCS0	2	5955	106/53	0.21	0.25	10.86	10.72	13.80	-0.50		13.30	30.00	Pass	10.5	
HE20	MCS0	2	6175	Full	0.21	0.25	13.37	13.85	16.63	-0.50		16.13	30.00	Pass	13	
HE20	MCS0	2	6415	Full	0.21	0.25	12.94	13.74	16.37	-0.50		15.87	30.00	Pass	13	
HE40	MCS0	2	5965	Full	0.47	0.39	13.81	13.78	16.80	-0.50		16.30	30.00	Pass	13	
HE40	MCS0	2	6165	Full	0.47	0.39	13.83	14.18	17.02	-0.50		16.52	30.00	Pass	13	
HE40	MCS0	2	6405	Full	0.47	0.39	13.38	14.08	16.75	-0.50		16.25	30.00	Pass	13	
HE80	MCS0	2	5985	Full	0.61	0.61	13.83	13.98	16.92	-0.50		16.42	30.00	Pass	13	
HE80	MCS0	2	6145	Full	0.61	0.61	13.88	14.28	17.10	-0.50		16.60	30.00	Pass	13	
HE80	MCS0	2	6385	Full	0.61	0.61	13.55	14.31	16.96	-0.50		16.46	30.00	Pass	13	
HE160	MCS0	2	6025	Full	0.40	0.41	13.85	14.21	17.04	-0.50		16.54	30.00	Pass	13	
HE160	MCS0	2	6185	Full	0.40	0.41	13.40	14.43	16.95	-0.50		16.45	30.00	Pass	13	
HE160	MCS0	2	6345	Full	0.40	0.41	13.32	13.85	16.60	-0.50		16.10	30.00	Pass	13	

U-NII-5 MIMO																
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
					Ant 6	Ant 17	Ant 6	Ant 17	SUM	Ant 6	Ant 17	SUM			Ant 6	Ant 17
BE20	MCS0	2	5955	Full	0.25	0.21	13.29	13.53	16.42	-0.50		15.92	30.00	Pass	13	
BE20	MCS0	2	5955	26/0	0.25	0.21	4.68	4.69	7.69	-0.50		7.19	30.00	Pass	4	
BE20	MCS0	2	5955	52/37	0.25	0.21	7.58	7.71	10.65	-0.50		10.15	30.00	Pass	7.5	
BE20	MCS0	2	5955	106/53	0.25	0.21	10.95	10.78	13.87	-0.50		13.37	30.00	Pass	10.5	
BE20	MCS0	2	6175	Full	0.25	0.21	13.46	13.93	16.71	-0.50		16.21	30.00	Pass	13	
BE20	MCS0	2	6415	Full	0.25	0.21	13.04	13.79	16.44	-0.50		15.94	30.00	Pass	13	
BE40	MCS0	2	5965	Full	0.38	0.38	13.87	13.84	16.87	-0.50		16.37	30.00	Pass	13	
BE40	MCS0	2	6165	Full	0.38	0.38	13.90	14.25	17.09	-0.50		16.59	30.00	Pass	13	
BE40	MCS0	2	6405	Full	0.38	0.38	13.44	14.14	16.82	-0.50		16.32	30.00	Pass	13	
BE80	MCS0	2	5985	Full	0.69	0.67	13.94	14.05	17.01	-0.50		16.51	30.00	Pass	13	
BE80	MCS0	2	6145	Full	0.69	0.67	13.98	14.37	17.19	-0.50		16.69	30.00	Pass	13	
BE80	MCS0	2	6385	Full	0.69	0.67	13.63	14.37	17.03	-0.50		16.53	30.00	Pass	13	
BE160	MCS0	2	6025	Full	0.39	0.39	13.89	14.23	17.08	-0.50		16.58	30.00	Pass	13	
BE160	MCS0	2	6185	Full	0.39	0.39	13.44	14.46	16.99	-0.50		16.49	30.00	Pass	13	
BE160	MCS0	2	6345	Full	0.39	0.39	13.35	13.87	16.63	-0.50		16.13	30.00	Pass	13	
BE320	MCS0	2	6105	Full	0.67	0.67	13.59	14.26	16.95	-0.50		16.45	30.00	Pass	13	
BE320	MCS0	2	6265	Full	0.67	0.67	13.39	14.37	16.92	-0.50		16.42	30.00	Pass	13	

U-NII-7 MIMO																
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
					Ant 6	Ant 17	Ant 6	Ant 17	SUM	Ant 6	Ant 17	SUM			Ant 6	Ant 17
HE20	MCS0	2	6535	Full	0.21	0.25	14.08	14.89	17.52	-0.70		16.82	30.00	Pass	14	
HE20	MCS0	2	6695	Full	0.21	0.25	14.21	14.75	17.50	-0.70		16.80	30.00	Pass	14	
HE20	MCS0	2	6855	Full	0.21	0.25	14.37	14.66	17.53	-0.70		16.83	30.00	Pass	14	
HE20	MCS0	2	6855	26/8	0.21	0.25	6.21	6.26	9.25	-0.70		8.55	30.00	Pass	5.5	
HE20	MCS0	2	6855	52/40	0.21	0.25	8.93	9.23	12.09	-0.70		11.39	30.00	Pass	8.5	
HE20	MCS0	2	6855	106/54	0.21	0.25	11.84	12.04	14.95	-0.70		14.25	30.00	Pass	11.5	
HE40	MCS0	2	6565	Full	0.47	0.39	14.64	14.90	17.78	-0.70		17.08	30.00	Pass	14	
HE40	MCS0	2	6685	Full	0.47	0.39	14.65	15.26	17.97	-0.70		17.27	30.00	Pass	14	
HE40	MCS0	2	6845	Full	0.47	0.39	14.85	15.23	18.05	-0.70		17.35	30.00	Pass	14	
HE80	MCS0	2	6625	Full	0.61	0.61	14.55	14.83	17.71	-0.70		17.01	30.00	Pass	14	
HE80	MCS0	2	6705	Full	0.61	0.61	14.52	14.74	17.64	-0.70		16.94	30.00	Pass	13.5	
HE80	MCS0	2	6785	Full	0.61	0.61	14.50	14.65	17.59	-0.70		16.89	30.00	Pass	13.5	
HE160	MCS0	2	6665	Full	0.40	0.41	14.24	14.77	17.52	-0.70		16.82	30.00	Pass	14	

U-NII-7 MIMO																
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
					Ant 6	Ant 17	Ant 6	Ant 17	SUM	Ant 6	Ant 17	SUM			Ant 6	Ant 17
BE20	MCS0	2	6535	Full	0.25	0.21	14.19	14.95	17.59	-0.70		16.89	30.00	Pass	14	
BE20	MCS0	2	6695	Full	0.25	0.21	14.30	14.80	17.57	-0.70		16.87	30.00	Pass	14	
BE20	MCS0	2	6855	Full	0.25	0.21	14.47	14.74	17.62	-0.70		16.92	30.00	Pass	14	
BE20	MCS0	2	6855	26/8	0.25	0.21	6.32	6.31	9.32	-0.70		8.62	30.00	Pass	5.5	
BE20	MCS0	2	6855	52/40	0.25	0.21	9.02	9.31	12.18	-0.70		11.48	30.00	Pass	8.5	
BE20	MCS0	2	6855	106/54	0.25	0.21	11.94	12.09	15.02	-0.70		14.32	30.00	Pass	11.5	
BE40	MCS0	2	6565	Full	0.38	0.38	14.70	14.97	17.85	-0.70		17.15	30.00	Pass	14	
BE40	MCS0	2	6685	Full	0.38	0.38	14.72	15.32	18.05	-0.70		17.35	30.00	Pass	14	
BE40	MCS0	2	6845	Full	0.38	0.38	14.91	15.30	18.12	-0.70		17.42	30.00	Pass	14	
BE80	MCS0	2	6625	Full	0.69	0.67	14.65	14.89	17.78	-0.70		17.08	30.00	Pass	14	
BE80	MCS0	2	6705	Full	0.69	0.67	14.61	14.82	17.73	-0.70		17.03	30.00	Pass	13.5	
BE80	MCS0	2	6785	Full	0.69	0.67	14.58	14.72	17.66	-0.70		16.96	30.00	Pass	13.5	
BE160	MCS0	2	6665	Full	0.39	0.39	14.30	14.82	17.58	-0.70		16.88	30.00	Pass	14	

3.3 Fundamental Power Spectral Density Measurement

3.3.1 Limit of Fundamental Power Spectral Density

<FCC 14-30 CFR 15.407>

(a)(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band.

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

 # Method SA-2 #

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

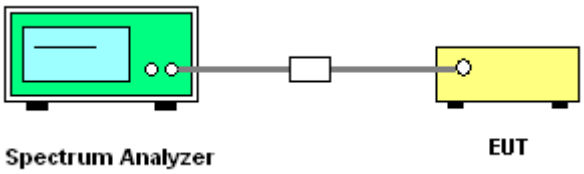
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, attenuator loss and duty factor. Measure the PSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

   Method (b): Measure and sum spectral maxima across the outputs.

   The measurement on each individual output were performed with the same span and number on each individual output. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 In-Band Emissions (Channel Mask)

3.4.1 Limit of Unwanted Emissions

<FCC 14-30 CFR 15.407>

(b)(7) For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement.

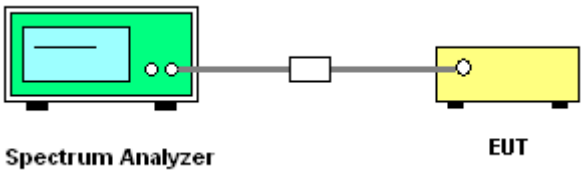
Section J) In-Band Emissions.

1. Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth
2. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
   a) Set the span to encompass the entire 26 dB EBW of the signal.
   b) Set RBW = same RBW used for 26 dB EBW measurement.
   c) Set VBW ≥ 3 X RBW
   d) Number of points in sweep ≥ [2 X span / RBW].
   e) Sweep time = auto.
   f) Detector = RMS (i.e., power averaging)
   g) Trace average at least 100 traces in power averaging (rms) mode.
   h) Use the peak search function on the instrument to find the peak of the spectrum.
3. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
   a. Suppressed by 20 dB at 1 MHz outside of the channel edge.
   b. Suppressed by 28 dB at one channel bandwidth from the channel center.

c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

4. Adjust the span to encompass the entire mask as necessary.
5. Clear trace.
6. Trace average at least 100 traces in power averaging (rms) mode.
7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

3.4.4 Test Setup



3.4.5 Test Result

Please refer to Appendix A.

3.5 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.5.1 Limit of Unwanted Emissions

(1) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of −27 dBm/MHz.

EIRP (dBm)	Field Strength at 3m (dBµV/m)
- 27 (RMS)	68.3
- 7 (Peak)	88.3

Unwanted emissions outside of restricted bands are measured with a RMS detector.
In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

(2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E=\frac{1000000\sqrt{30P}}{3}$$ µV/m, where P is the eirp (Watts)

3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

   - RBW = 120 kHz
   - VBW = 300 kHz
   - Detector = Peak
   - Trace mode = max hold

   (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

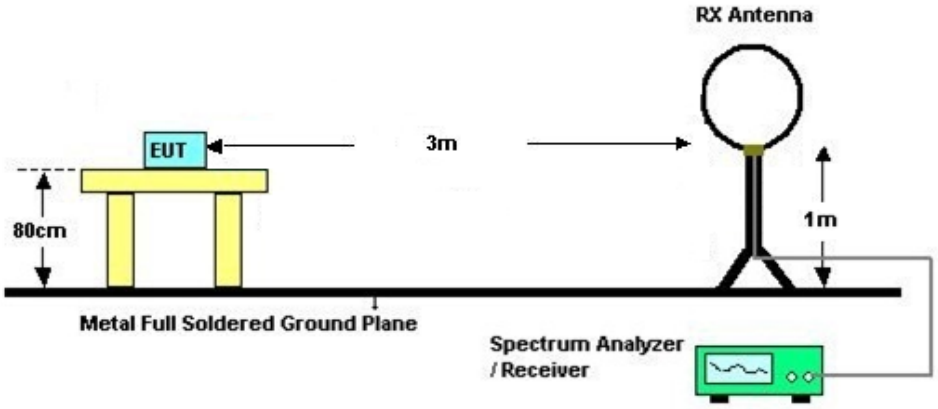
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

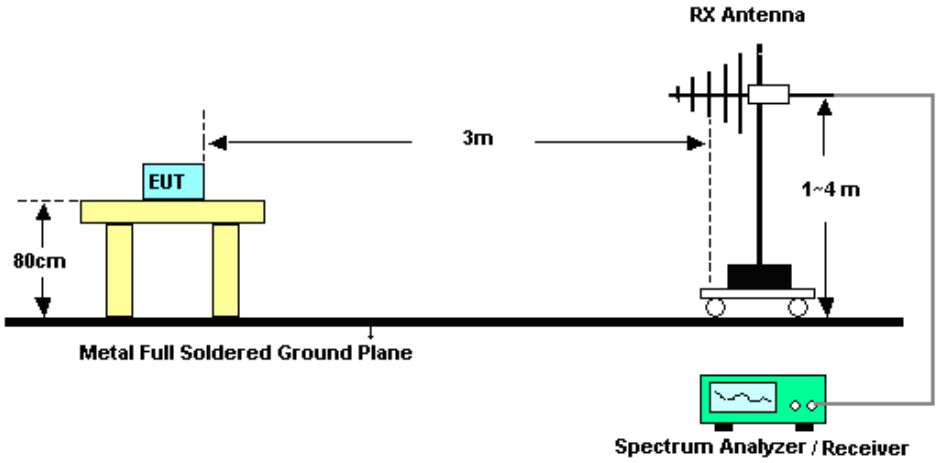
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.5.4 Test Setup

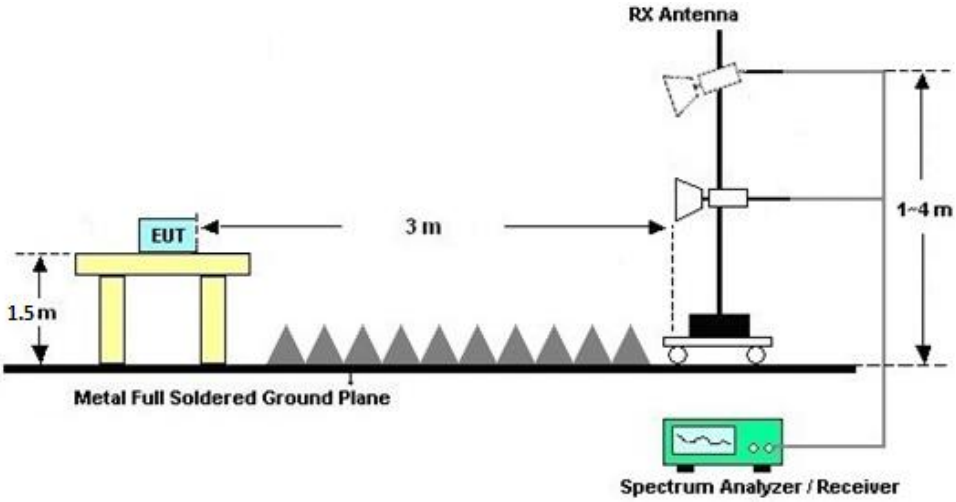
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

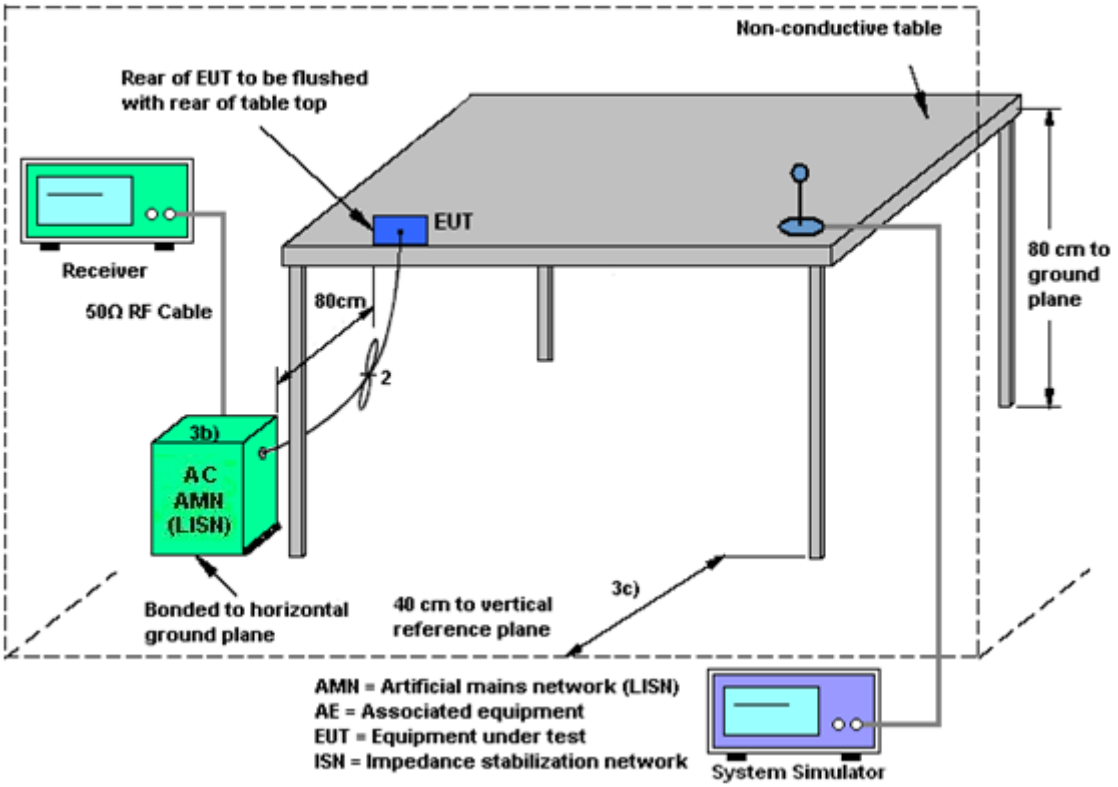
3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

§15.203: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used. The EUT complies with the requirement of 15.203.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e.,

Directional gain = $G_{ANT\ MAX}$(Ant.1 Gain, Ant.2 Gain,…) + Array Gain, as following table for Power,

where Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;

For PSD, the directional gain calculation is following,

Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{Gn/20})^2 / N_{ANT}$] dBi, as following table for PSD.

N_{ANT} = number of transmit antennas

N_{SS} = number of spatial streams. (The worst case directional gain will occur when NSS = 1)

<CDD Modes>

	Ant. 6 (dBi)	Ant. 17 (dBi)	DG for Power (dBi)	DG for PSD (dBi)
U-NII-5	-0.50	-0.50	-0.50	2.51
U-NII-7	-0.70	-0.70	-0.70	2.31

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	May 27, 2025~ May 29, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	May 27, 2025~ May 29, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct. 14, 2024	May 27, 2025~ May 29, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	May 27, 2025~ May 29, 2025	Jul. 02, 2025	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 02, 2025	May 17, 2025~ May 24, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
EXA Signal Analyzer	KEYSIGHT	N9010B	MY59071191	10KHz-44GHz	Apr. 02, 2025	May 17, 2025~ May 24, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	May 17, 2025~ May 24, 2025	Dec. 27, 2025	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 20, 2023	May 17, 2025~ May 24, 2025	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridege Guide Antenna	ETS-Lindgren	Burgeon-3117	00240107	1GHz~18GHz	Jul. 13, 2024	May 17, 2025~ May 24, 2025	Jul. 12, 2025	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	May 17, 2025~ May 24, 2025	Jul. 02, 2025	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 03, 2025	May 17, 2025~ May 24, 2025	Apr. 02, 2027	Radiation (03CH03-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz ~3000MHz	Apr. 02, 2025	May 17, 2025~ May 24, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 14, 2024	May 17, 2025~ May 24, 2025	Oct. 13, 2025	Radiation (03CH03-SZ)
HF Amplifier	Keysight	83017A	MY53270357	500MHz~26.5GHz	Apr. 02, 2025	May 17, 2025~ May 24, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 18, 2024	May 17, 2025~ May 24, 2025	Oct. 17, 2025	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 17, 2025~ May 24, 2025	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 17, 2025~ May 24, 2025	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESR7	102297	9kHz~7GHz;	Jul. 03, 2024	May 14, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 03, 2024	May 14, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
AC Power Source	CHROMA	61601	616010002470	100Vac~250Vac	Dec. 25, 2024	May 14, 2025	Dec. 24, 2025	Conduction (CO02-SZ)

NCR: No Calibration Required

5 Measurement Uncertainty

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Conducted Power Spectral Density	±1.32 dB
Frequency	±1.3 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0 dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9 dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0 dB

---------- THE END ----------

Appendix A. Conducted Test Results

Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11BE20MIMO	Ant6	5955	19.78	5945.08	5964.86	≤320	PASS
	Ant17	5955	19.78	5945.06	5964.84	≤320	PASS
	Ant6	6175	19.78	6165.08	6184.86	≤320	PASS
	Ant17	6175	19.81	6165.07	6184.88	≤320	PASS
	Ant6	6415	19.80	6405.06	6424.86	≤320	PASS
	Ant17	6415	19.77	6405.08	6424.85	≤320	PASS
	Ant6	6535	19.71	6525.12	6544.83	≤320	PASS
	Ant17	6535	19.80	6525.10	6544.90	≤320	PASS
	Ant6	6695	19.77	6685.07	6704.84	≤320	PASS
	Ant17	6695	19.78	6685.08	6704.86	≤320	PASS
	Ant6	6855	19.78	6845.08	6864.86	≤320	PASS
	Ant17	6855	19.83	6845.07	6864.90	≤320	PASS
11BE40MIMO	Ant6	5965	39.46	5945.20	5984.66	≤320	PASS
	Ant17	5965	39.54	5945.16	5984.70	≤320	PASS
	Ant6	6165	39.56	6145.18	6184.74	≤320	PASS
	Ant17	6165	39.50	6145.22	6184.72	≤320	PASS
	Ant6	6405	39.40	6385.22	6424.62	≤320	PASS
	Ant17	6405	39.60	6385.14	6424.74	≤320	PASS
	Ant6	6565	39.50	6545.24	6584.74	≤320	PASS
	Ant17	6565	39.44	6545.26	6584.70	≤320	PASS
	Ant6	6685	39.52	6665.22	6704.74	≤320	PASS
	Ant17	6685	39.50	6665.20	6704.70	≤320	PASS
	Ant6	6845	39.30	6825.30	6864.60	≤320	PASS
	Ant17	6845	39.46	6825.18	6864.64	≤320	PASS
11BE80MIMO	Ant6	5985	80.12	5944.88	6025.00	≤320	PASS
	Ant17	5985	80.20	5944.84	6025.04	≤320	PASS
	Ant6	6145	80.08	6104.96	6185.04	≤320	PASS
	Ant17	6145	80.20	6104.88	6185.08	≤320	PASS
	Ant6	6385	80.20	6344.88	6425.08	≤320	PASS
	Ant17	6385	80.12	6344.88	6425.00	≤320	PASS
	Ant6	6625	80.16	6584.84	6665.00	≤320	PASS
	Ant17	6625	80.08	6584.92	6665.00	≤320	PASS
	Ant6	6705	80.20	6664.88	6745.08	≤320	PASS
	Ant17	6705	80.20	6664.88	6745.08	≤320	PASS
	Ant6	6785	80.08	6744.92	6825.00	≤320	PASS
	Ant17	6785	80.04	6744.92	6824.96	≤320	PASS
11BE160MIMO	Ant6	6025	161.76	5944.12	6105.88	≤320	PASS

	Ant17	6025	162.08	5944.04	6106.12	≤320	PASS
	Ant6	6185	161.76	6104.12	6265.88	≤320	PASS
	Ant17	6185	161.76	6104.12	6265.88	≤320	PASS
	Ant6	6345	161.44	6264.28	6425.72	≤320	PASS
	Ant17	6345	161.20	6264.36	6425.56	≤320	PASS
	Ant6	6665	161.84	6584.12	6745.96	≤320	PASS
	Ant17	6665	161.68	6584.20	6745.88	≤320	PASS
11BE320MIMO	Ant6	6105	328.00	5940.68	6268.68	---	---
	Ant17	6105	327.04	5941.48	6268.52	---	---
	Ant6	6265	326.88	6101.64	6428.52	---	---
	Ant17	6265	327.68	6101.00	6428.68	---	---

Note1: For channels with a nominal bandwidth of 320MHz,compliance is demonstrated by way of the 99%BW.

Note2: For channels with a nominal bandwidth less than 320MHz(e.g 20,40,80,160MHz), compliance is demonstrated by way of the 26dB EBW.

Test Graphs

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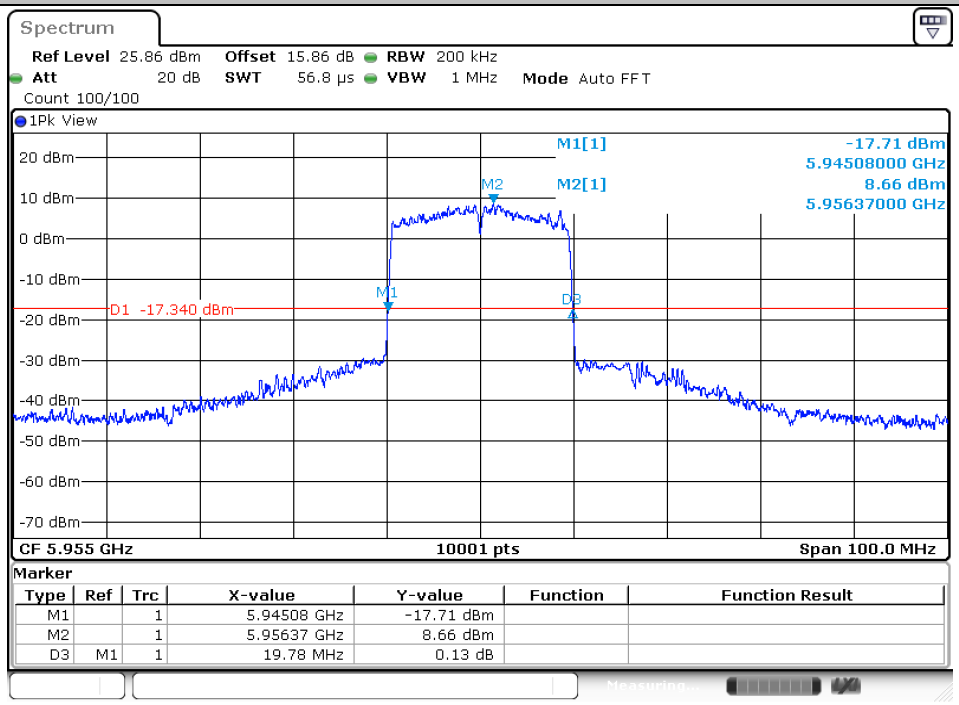

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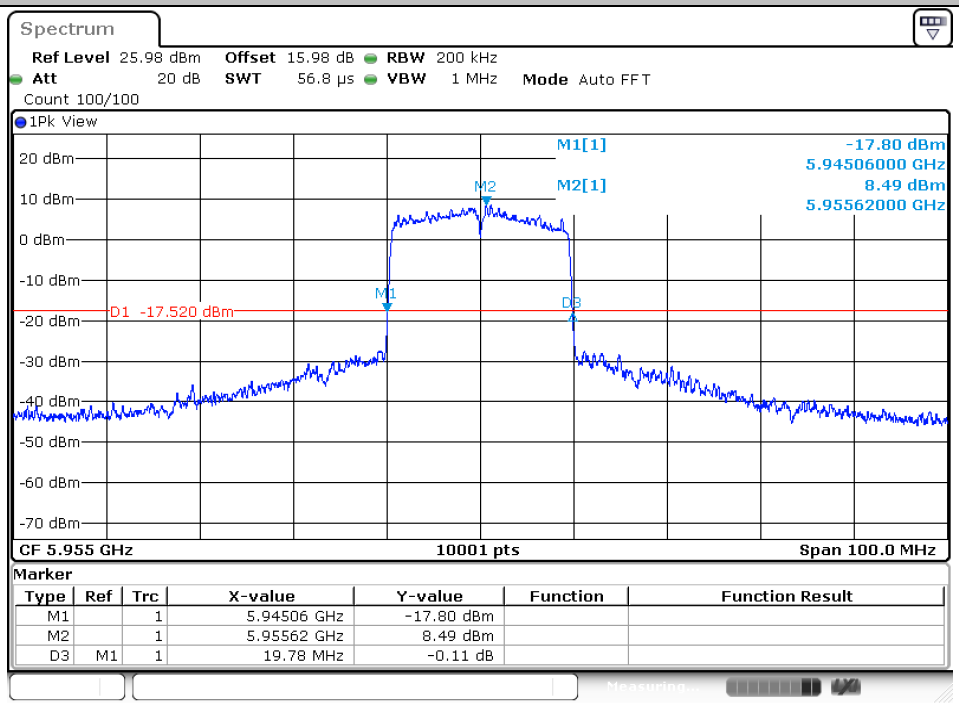

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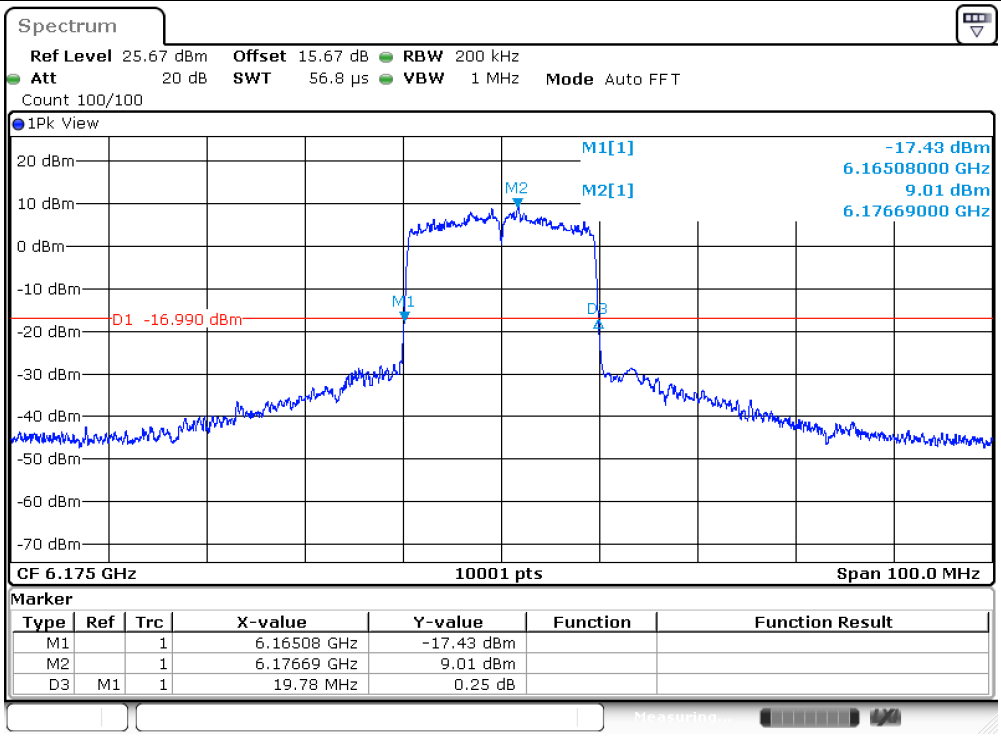

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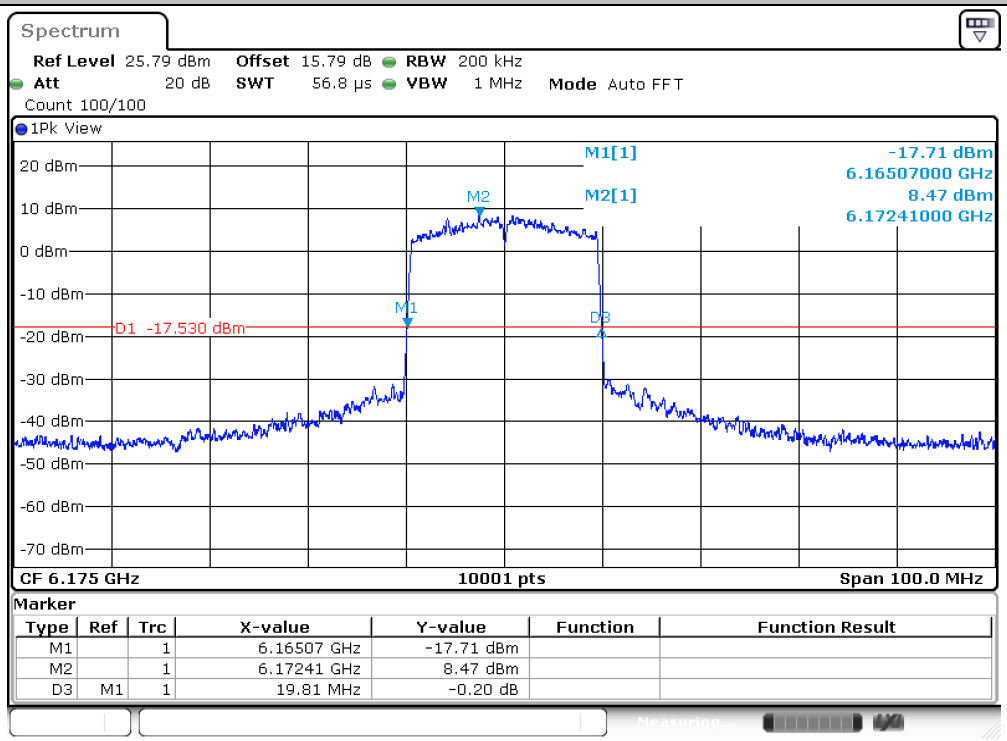

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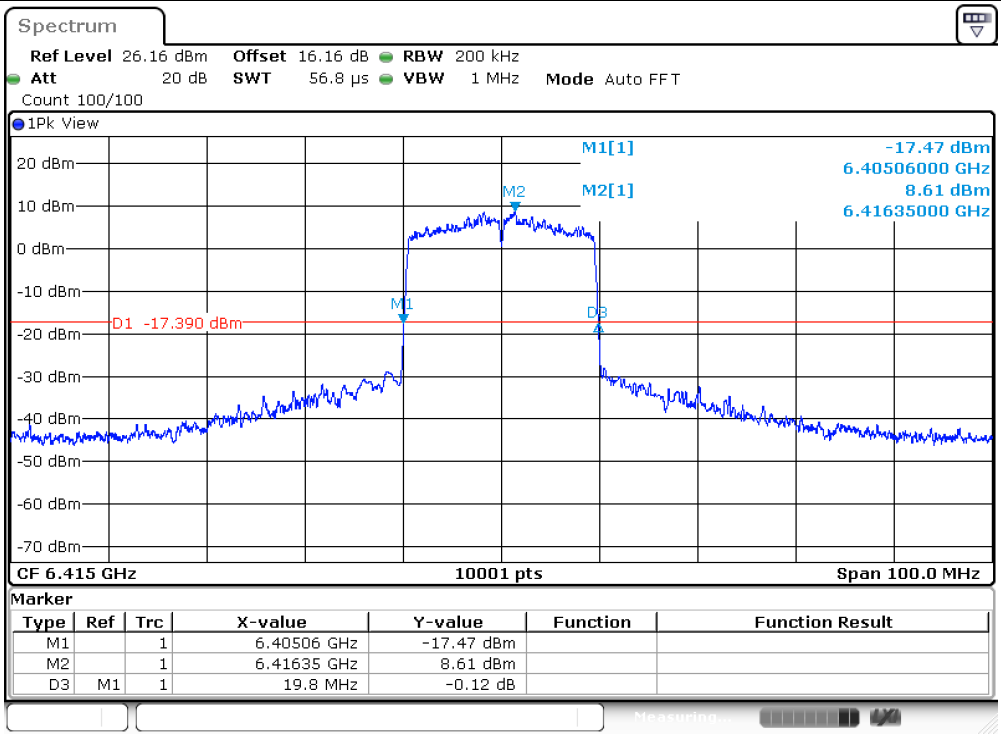

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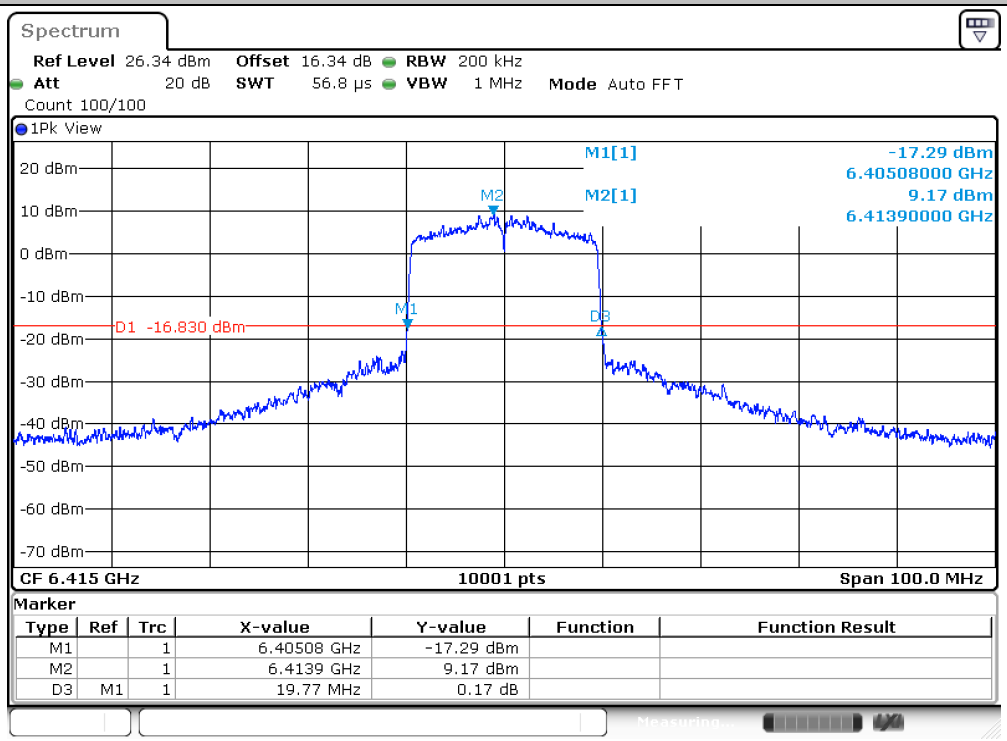

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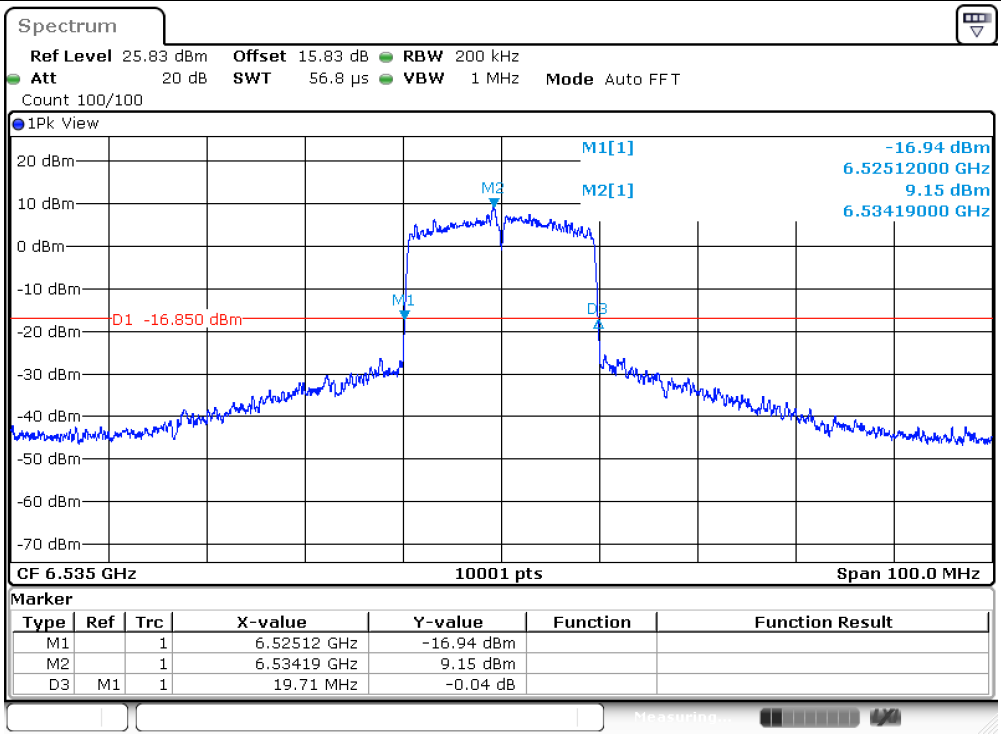

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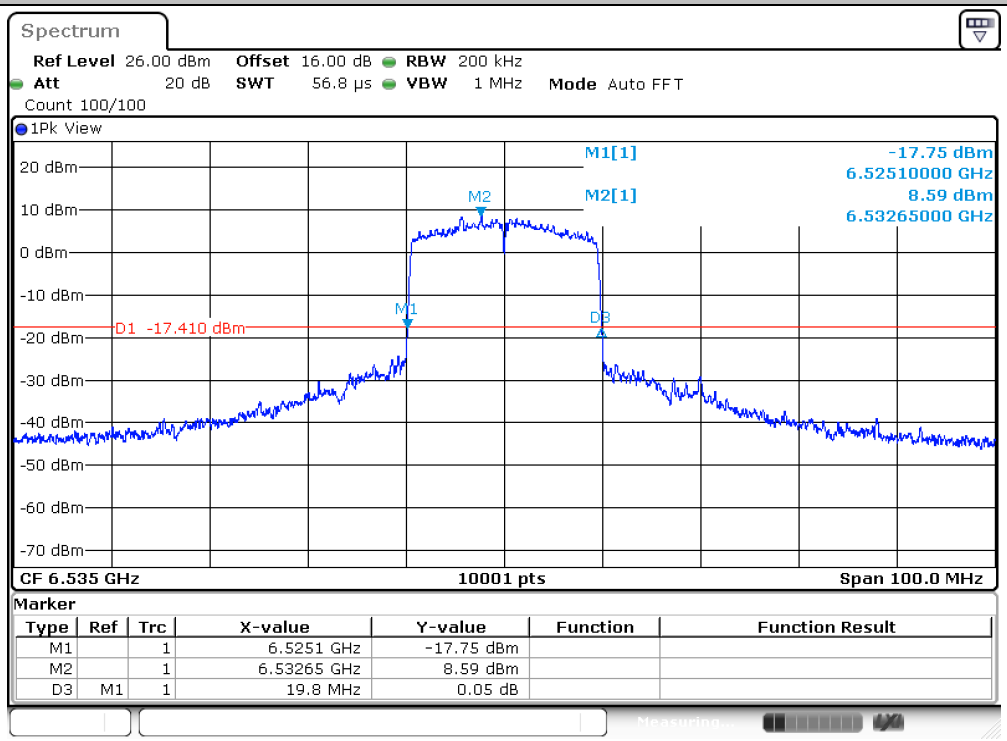

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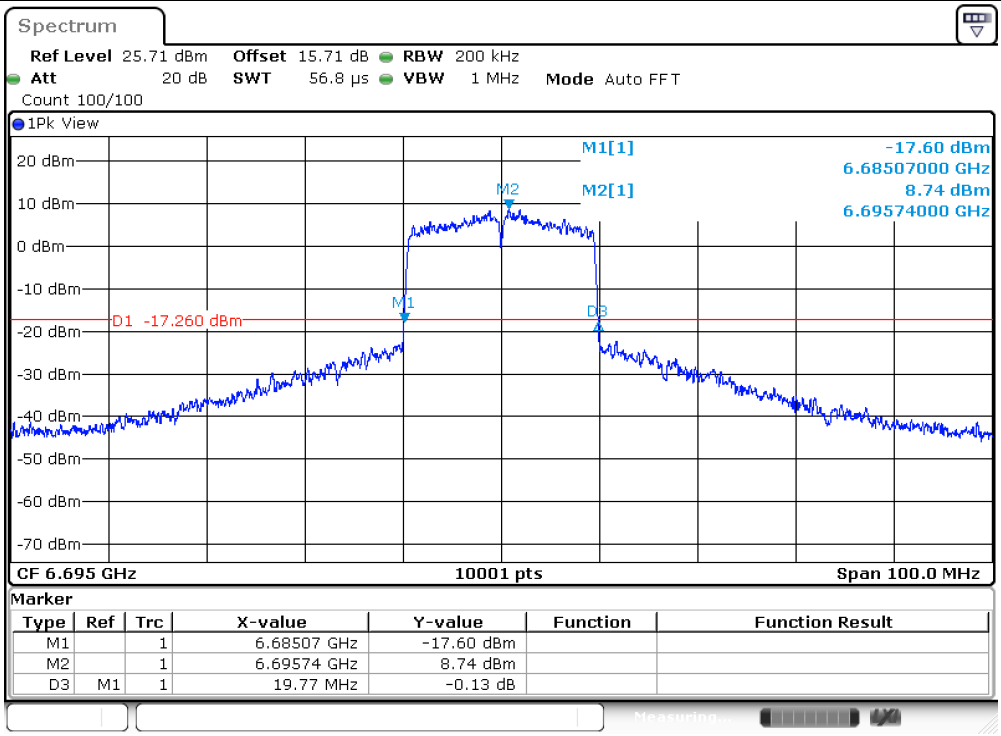

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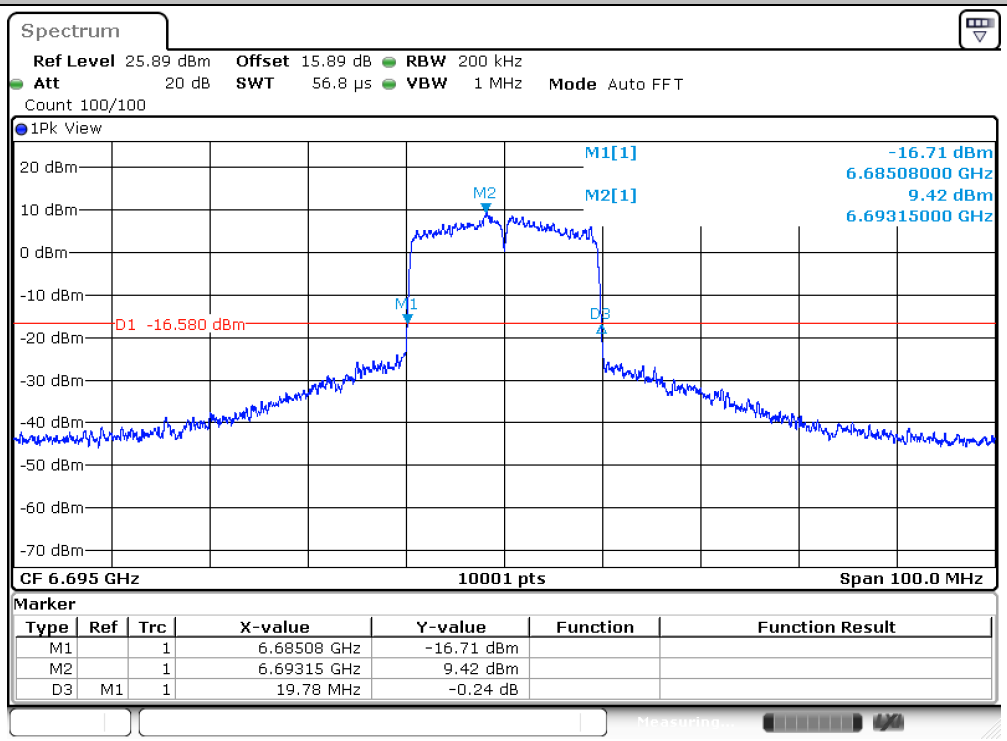

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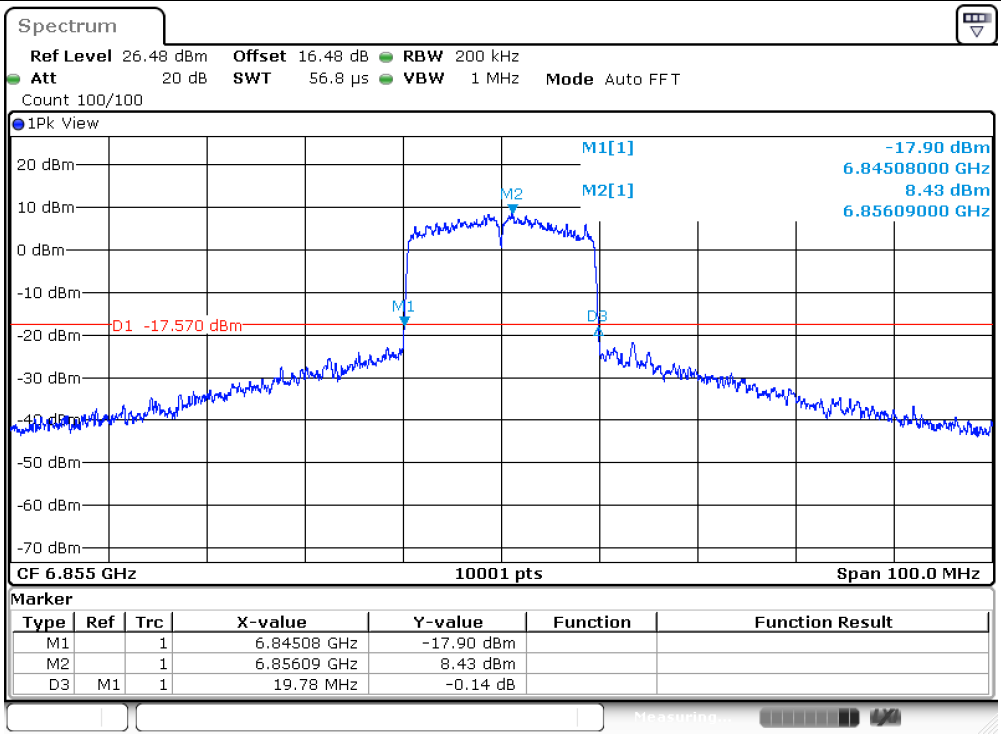

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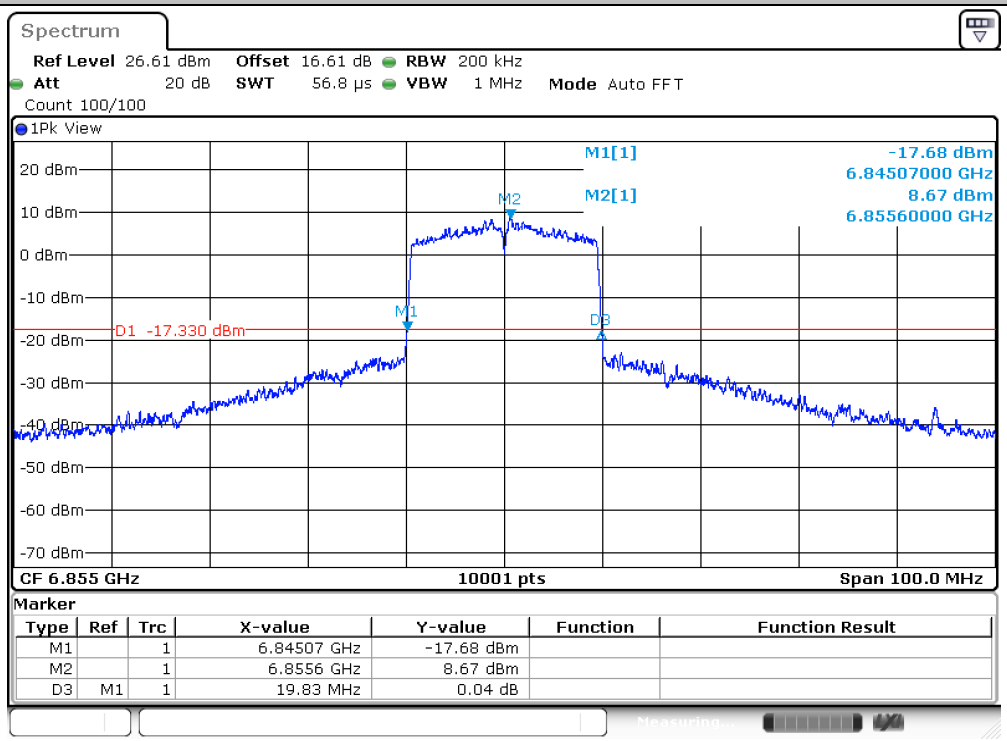

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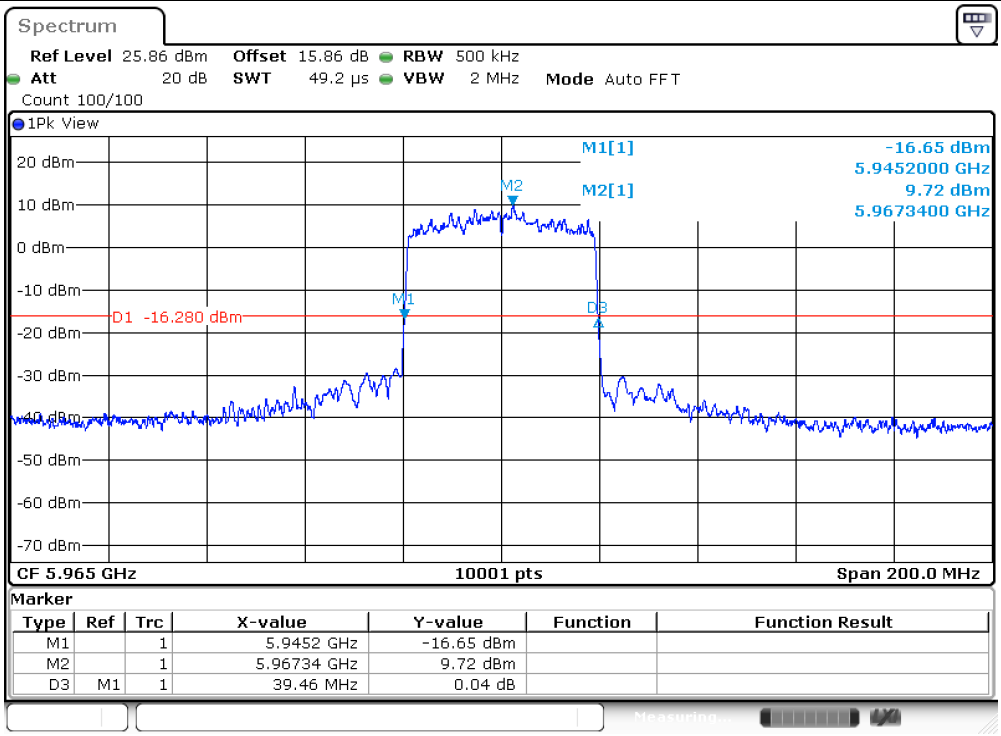

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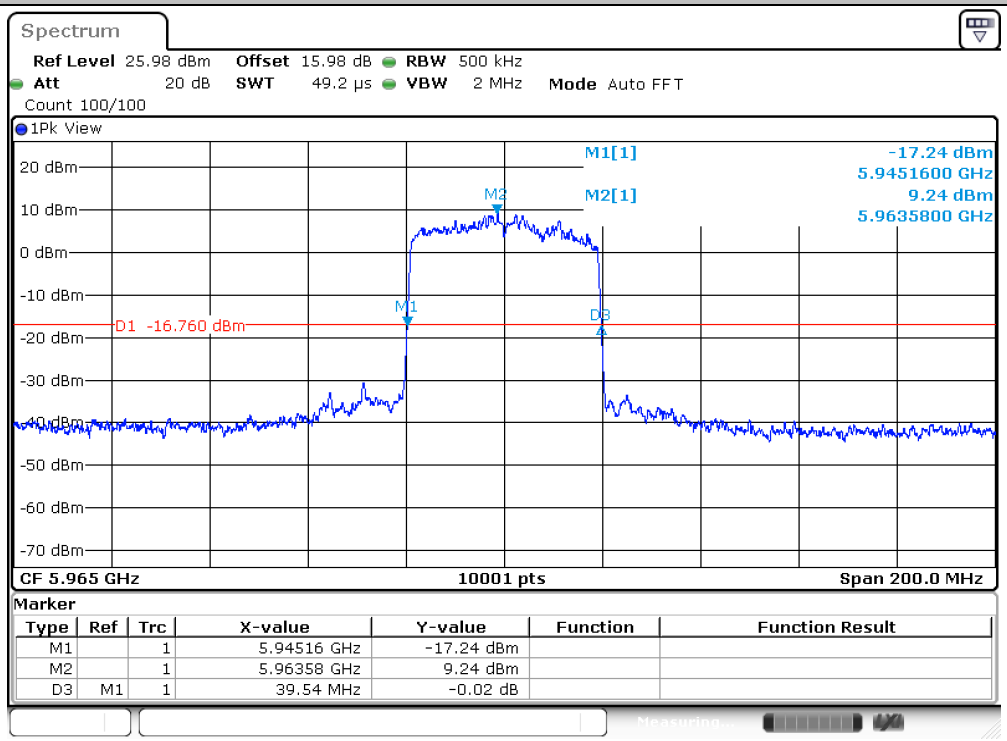

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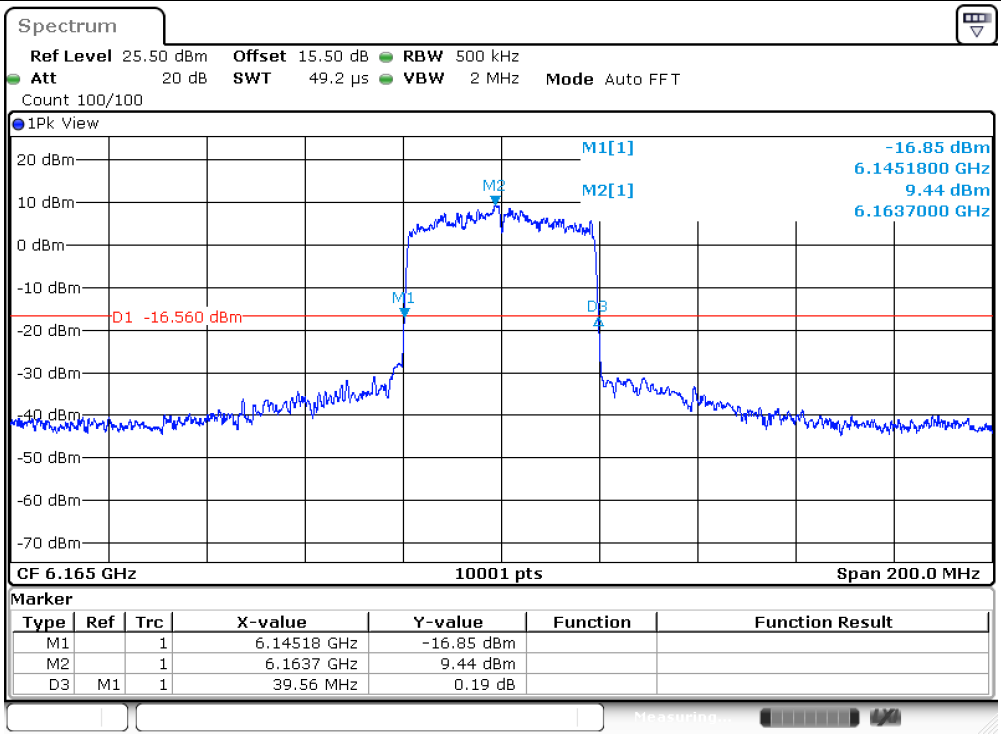

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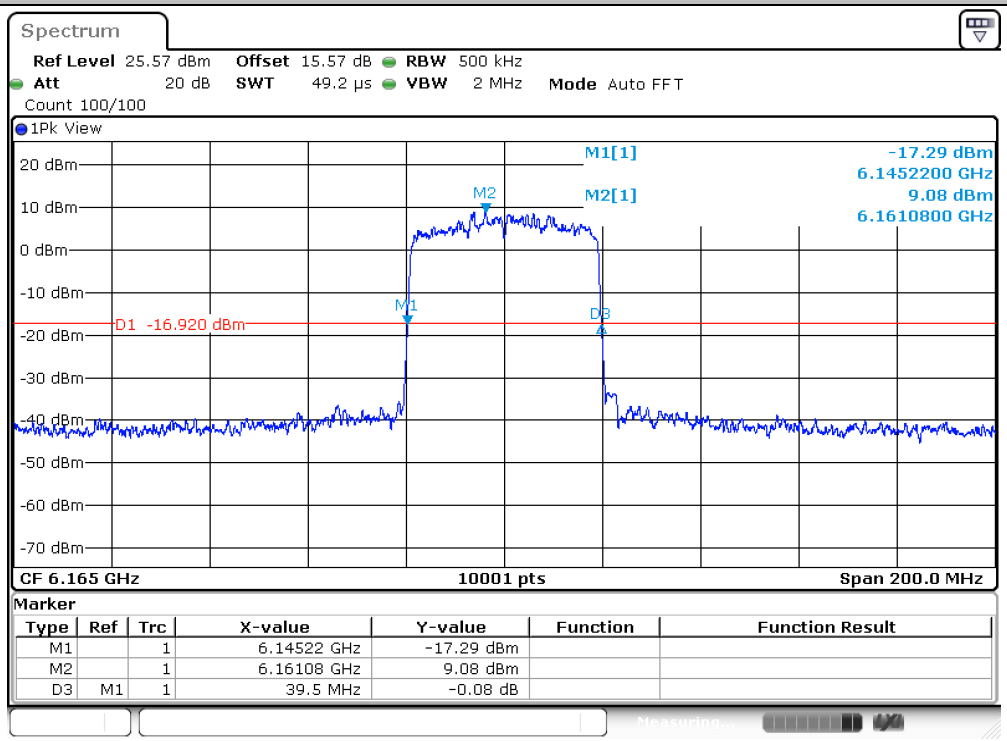

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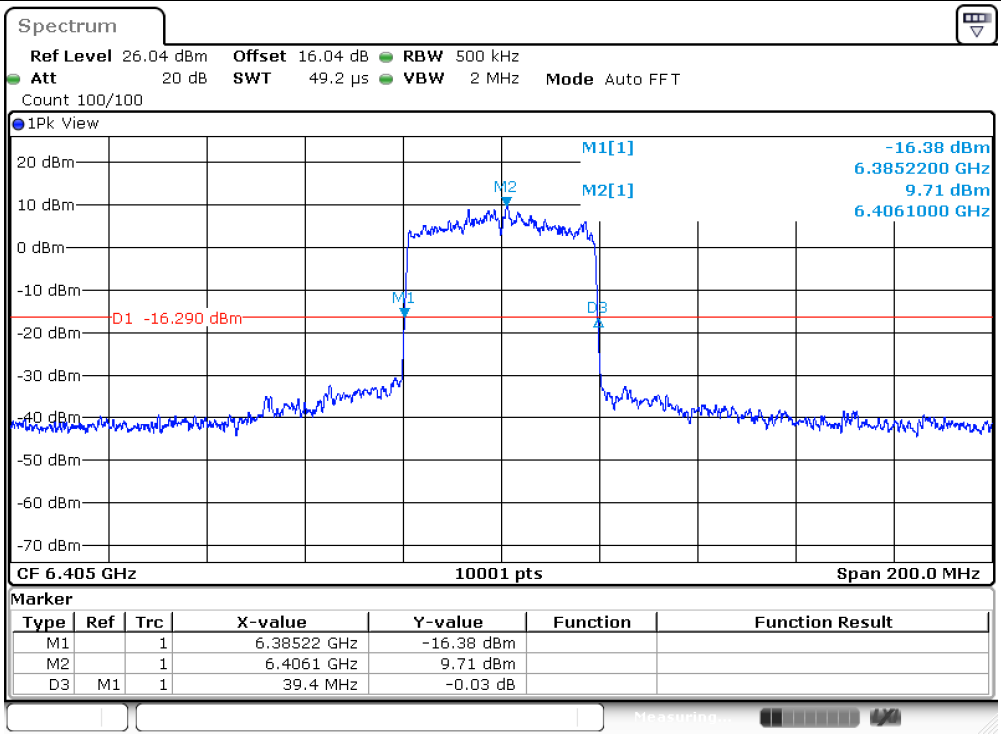

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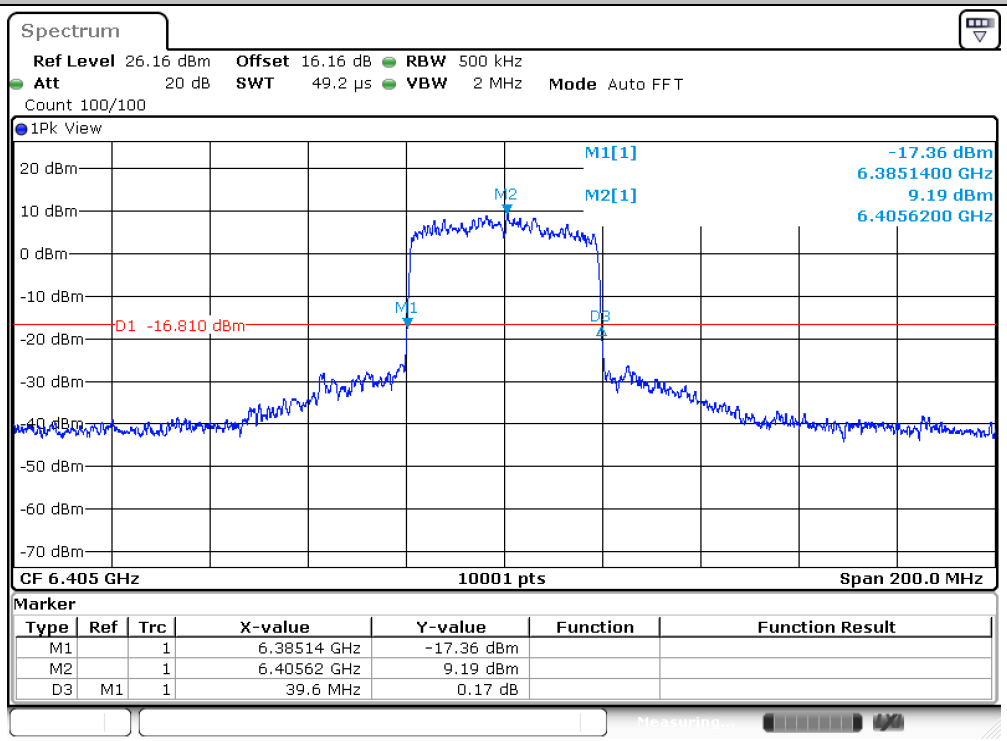

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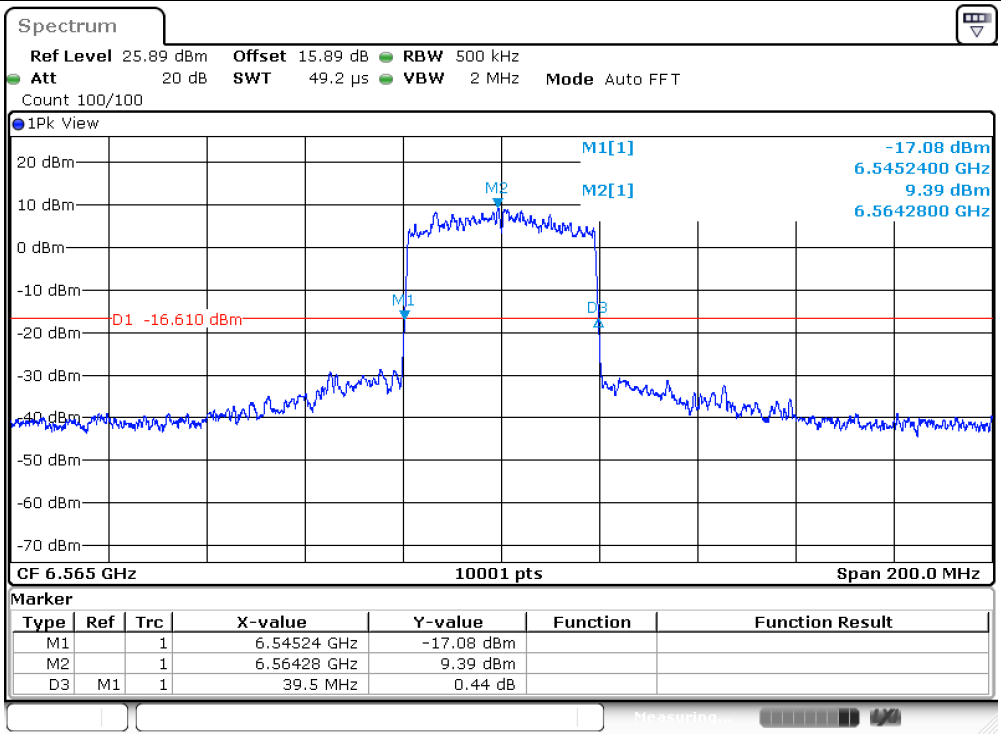

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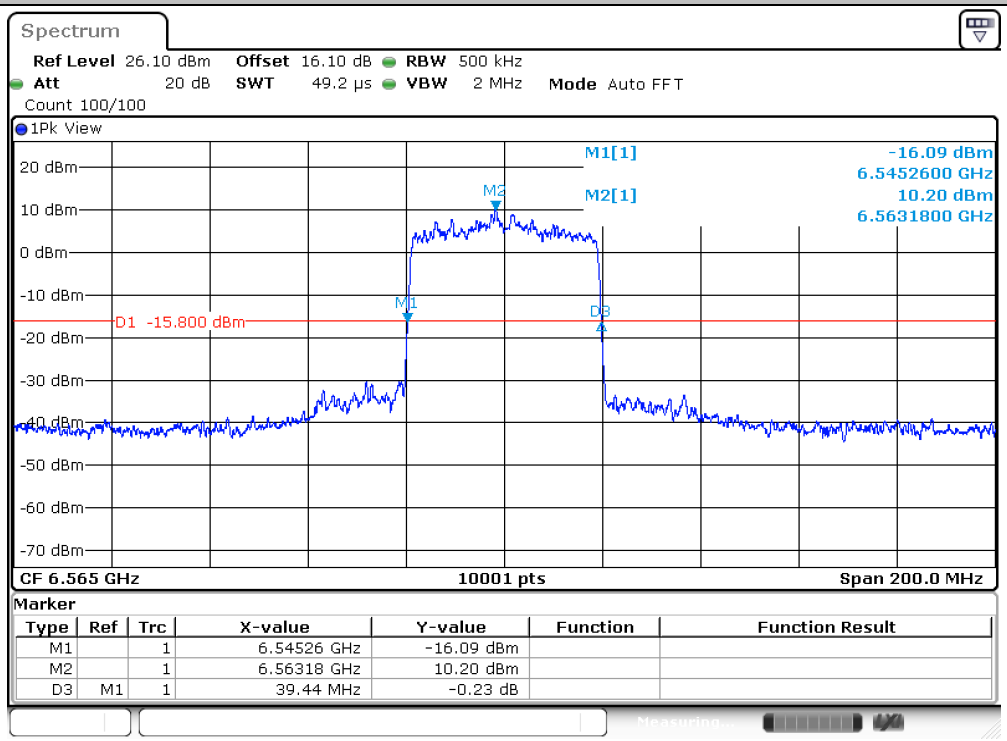

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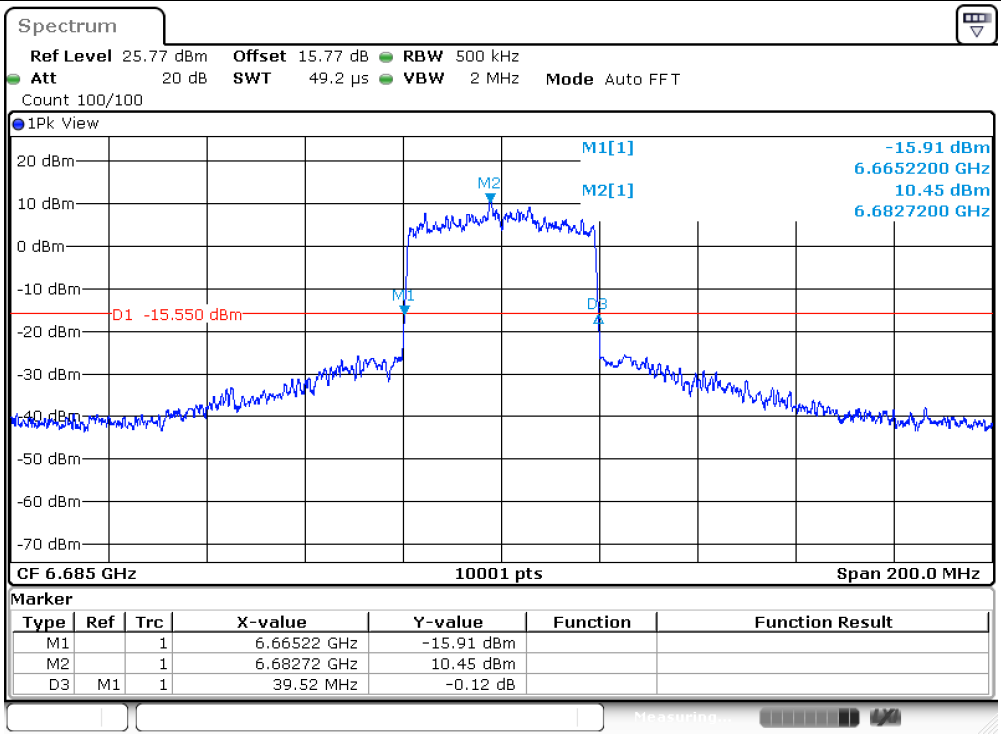

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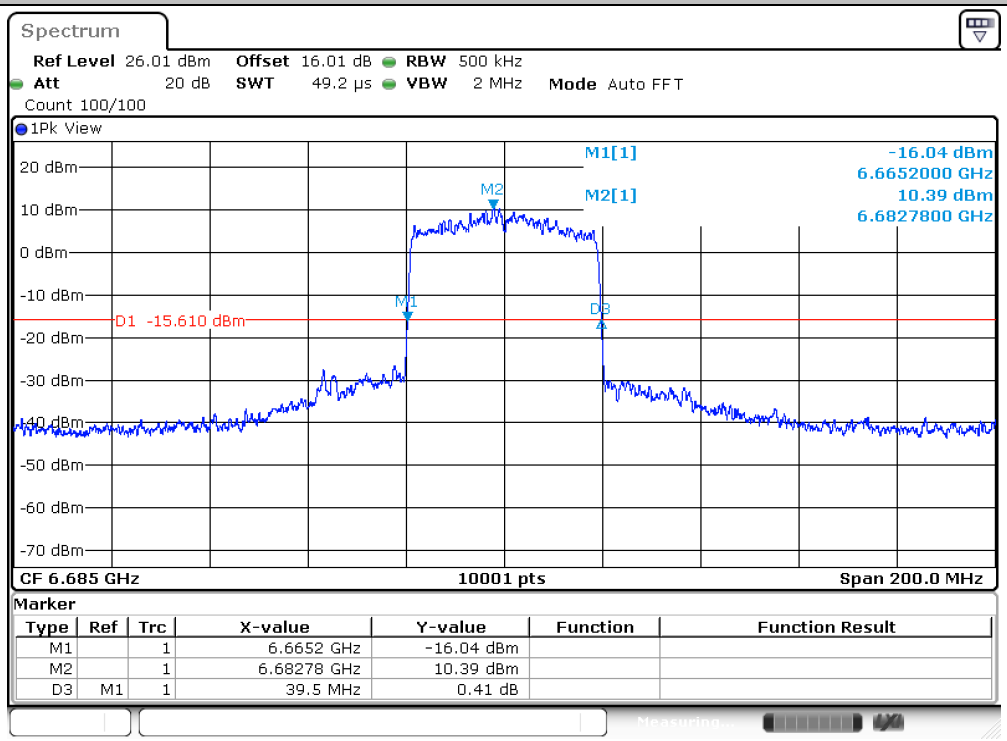

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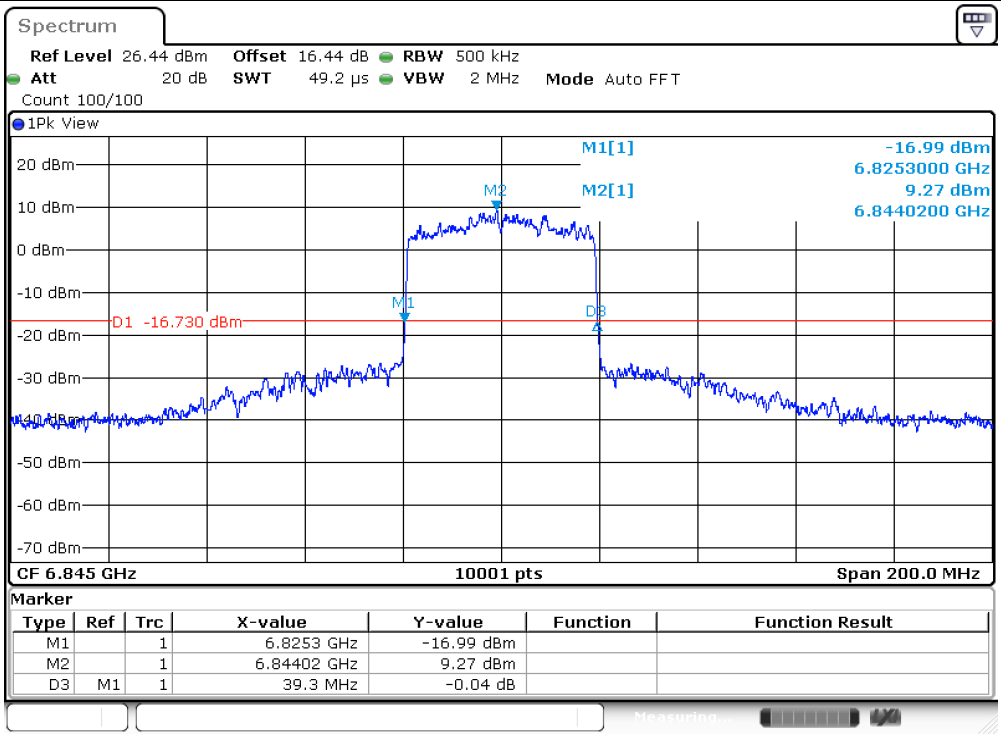

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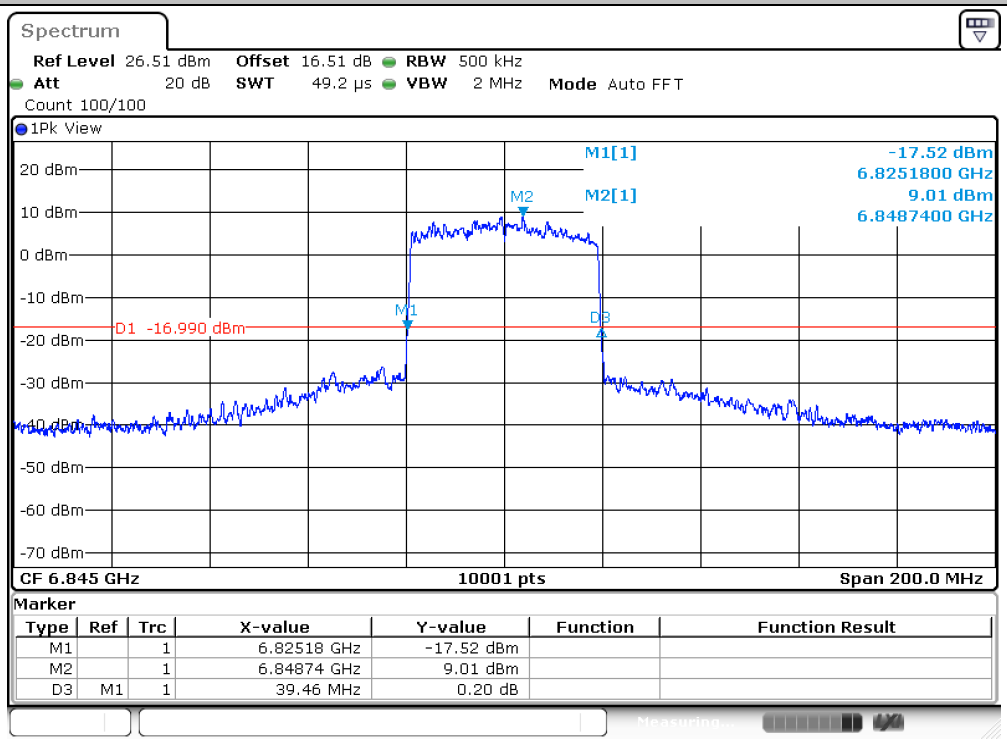

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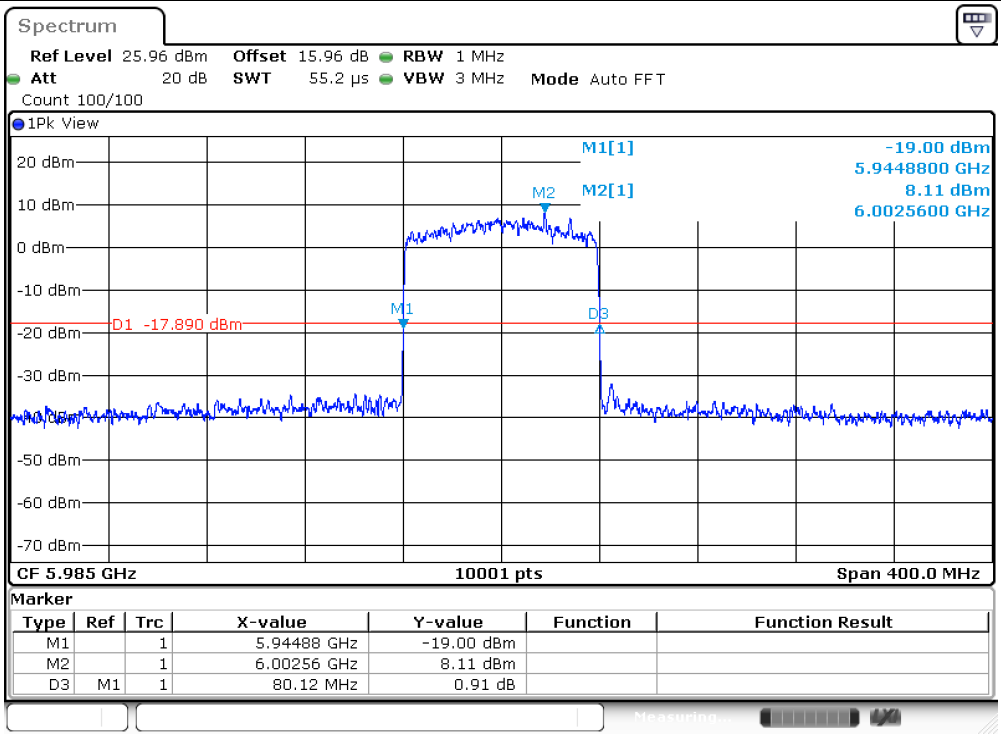

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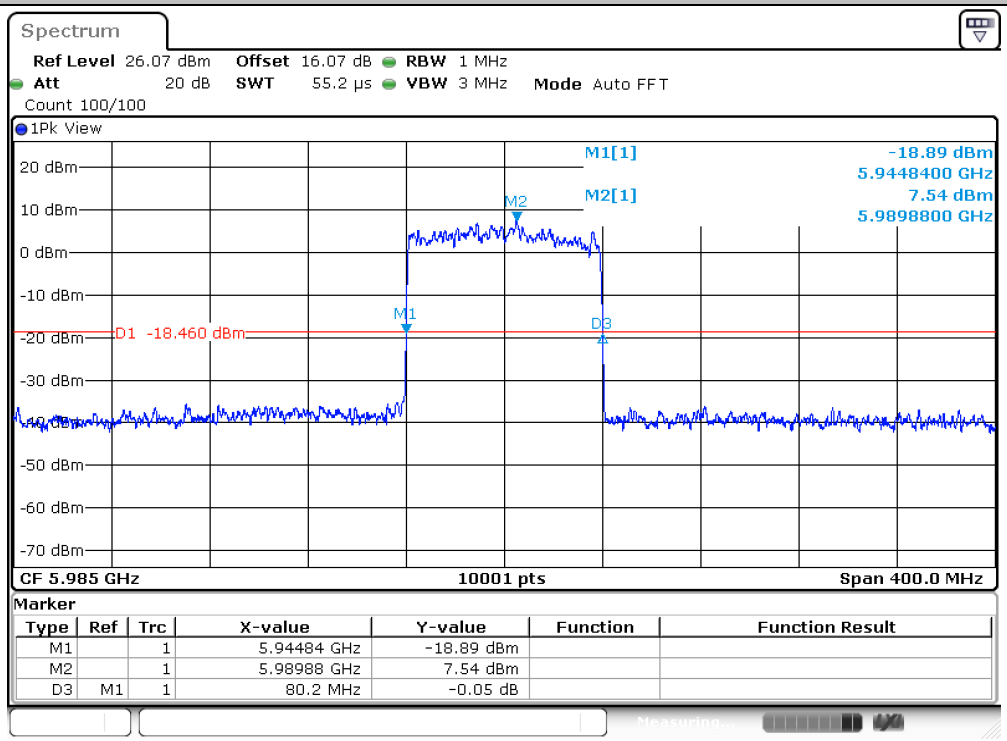

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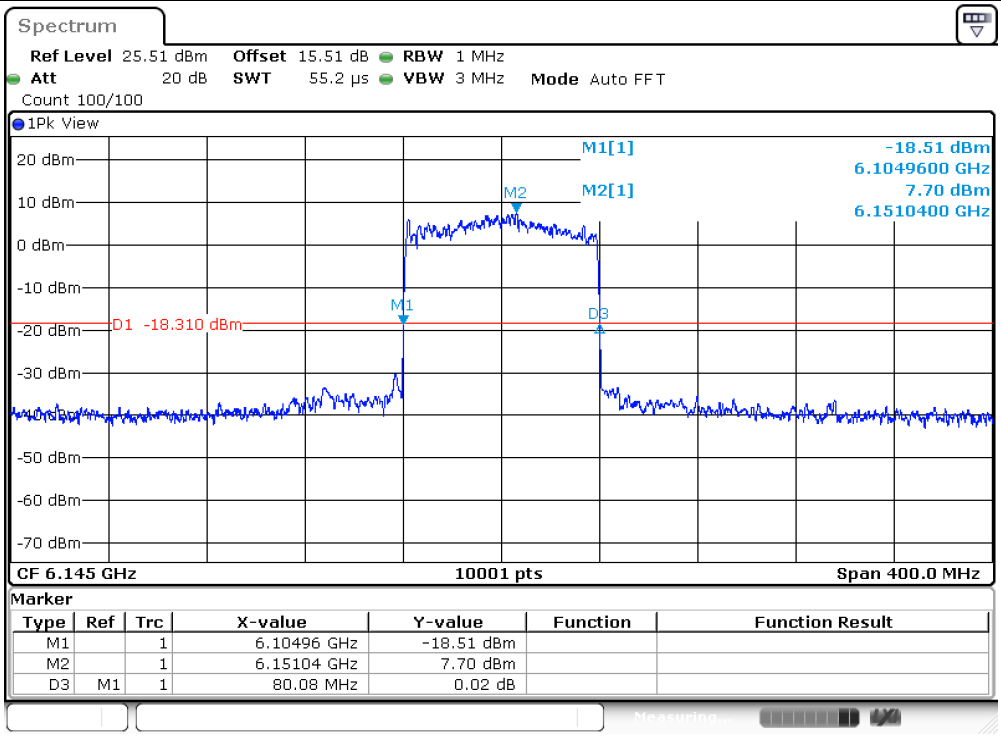

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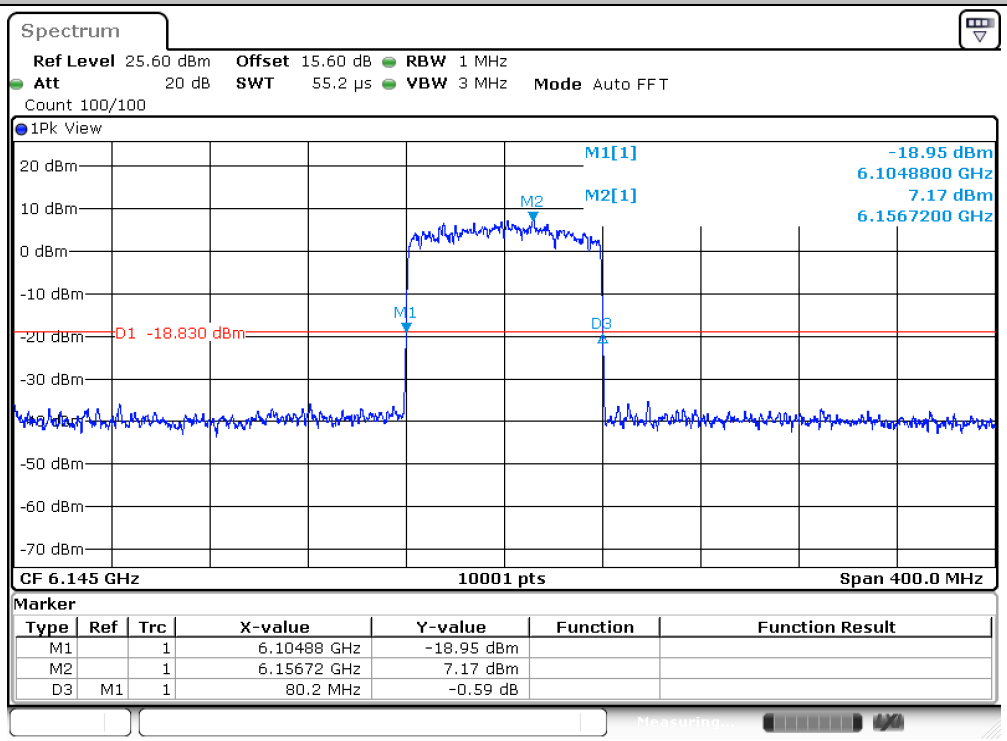

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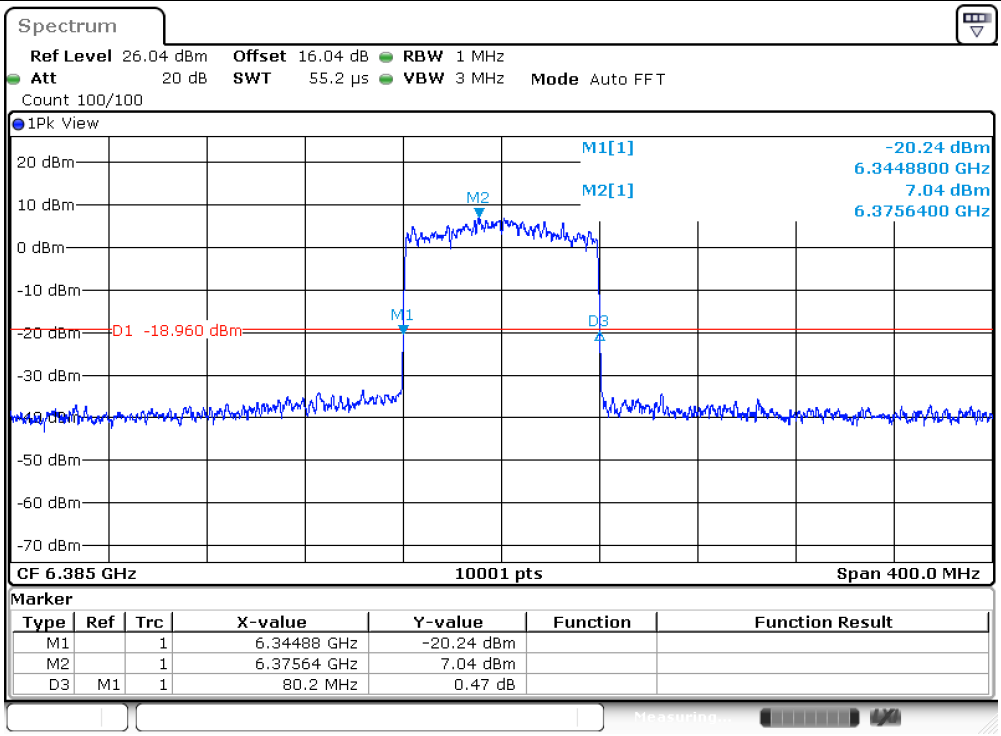

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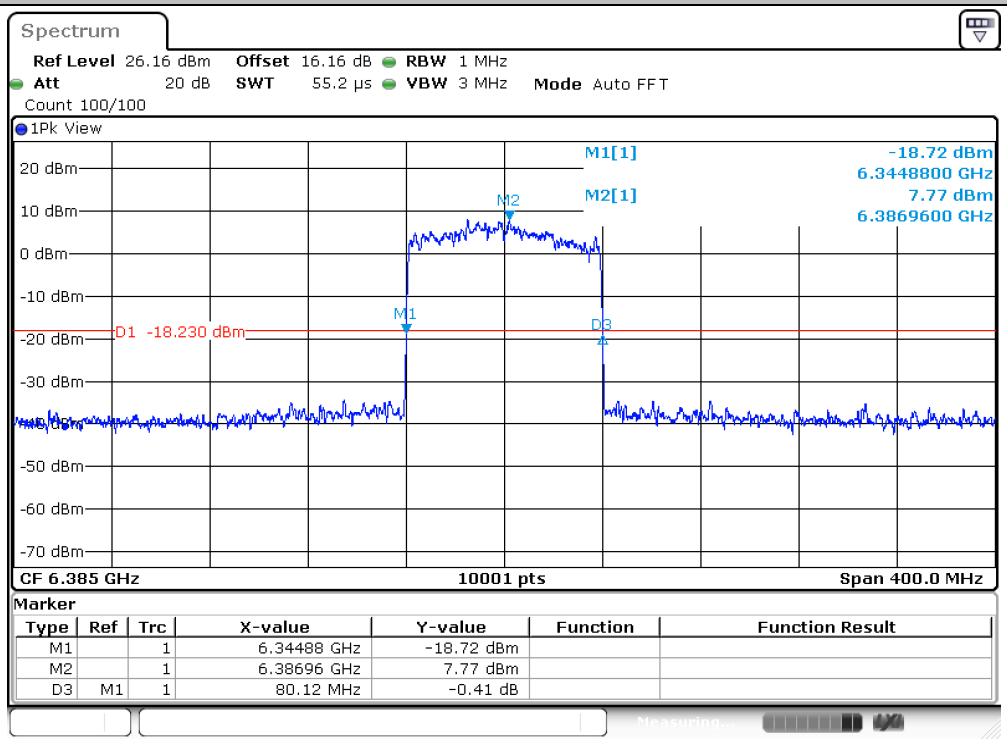

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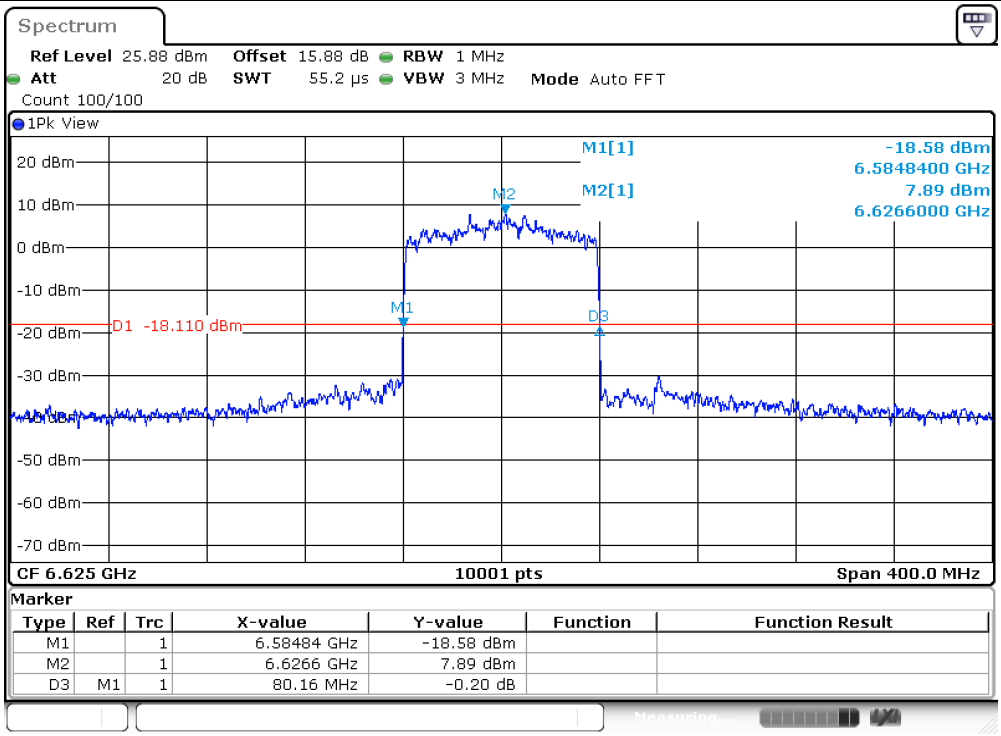

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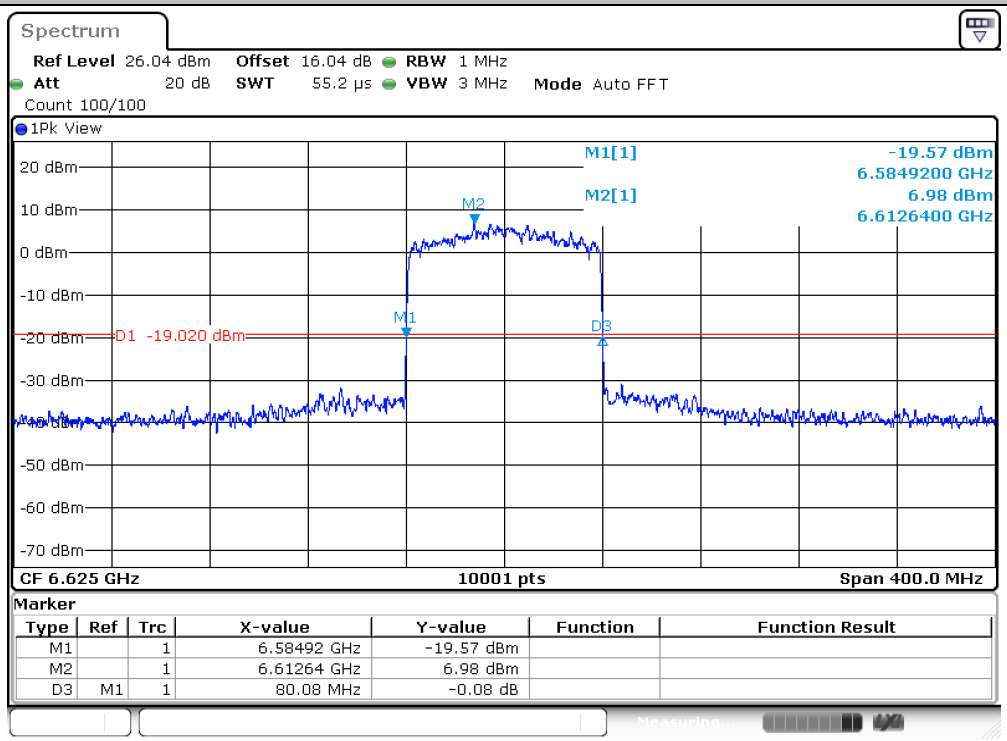

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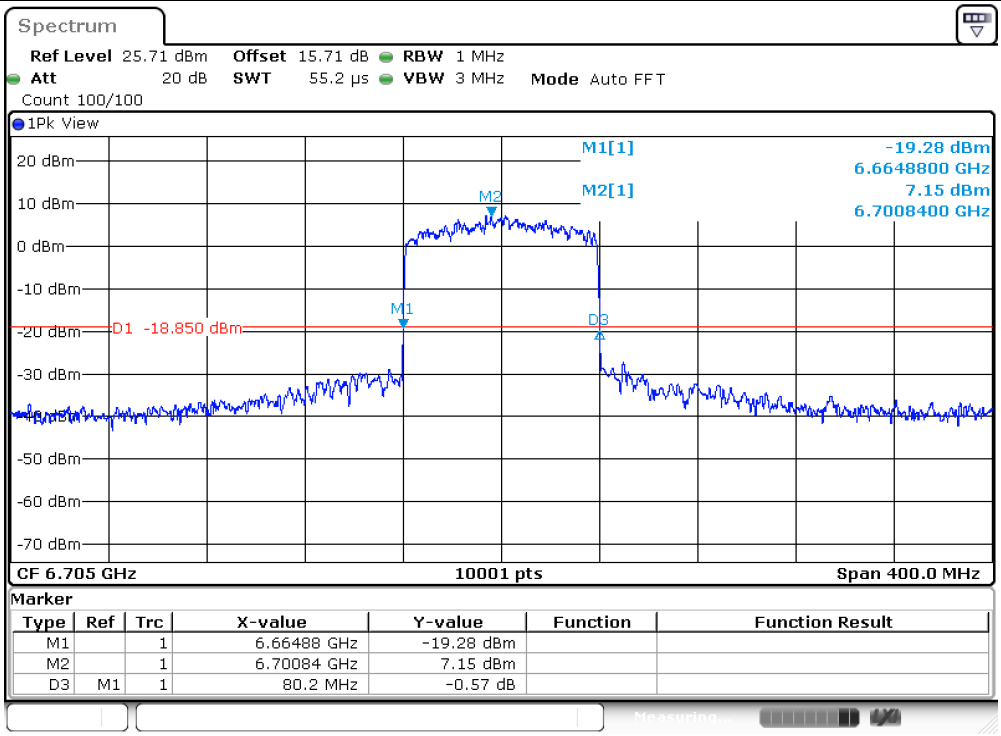

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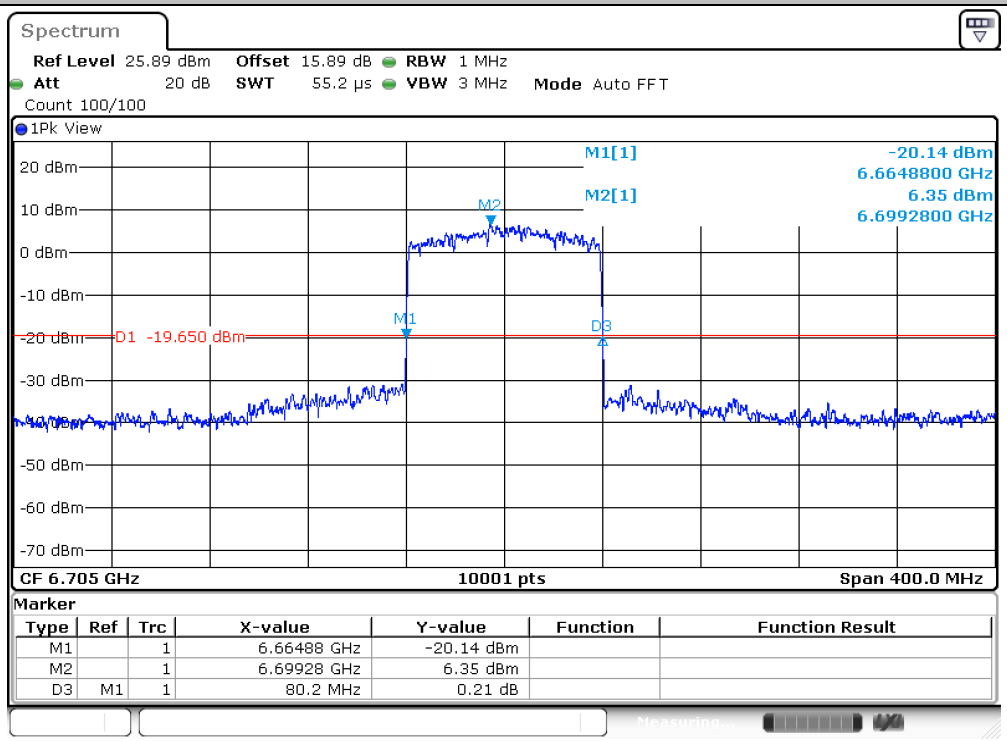

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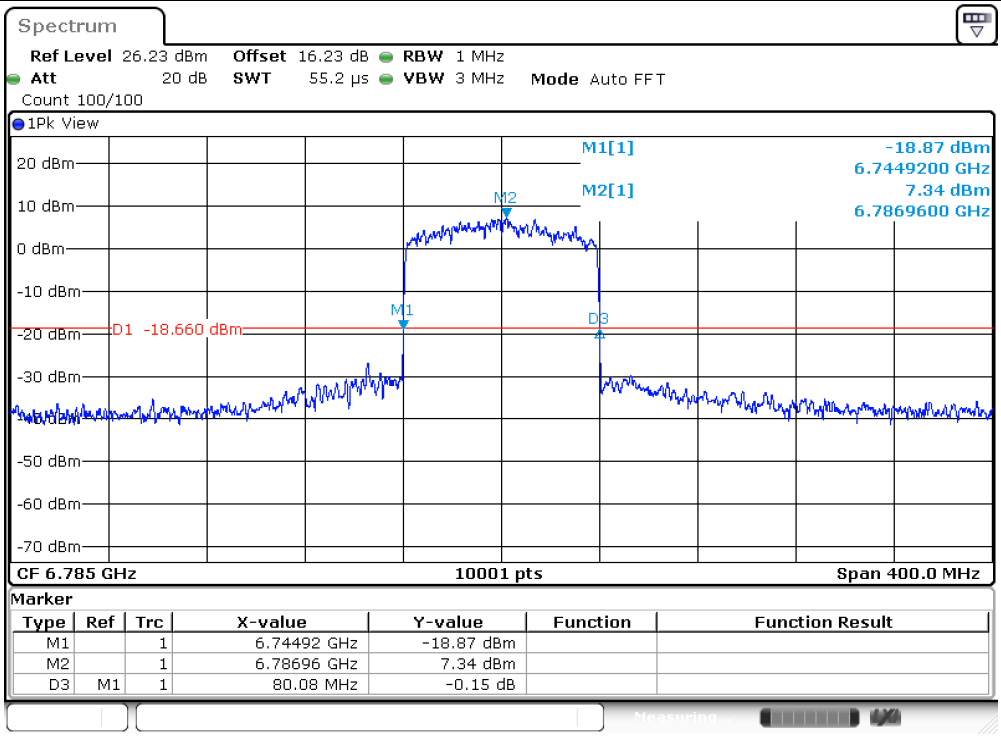

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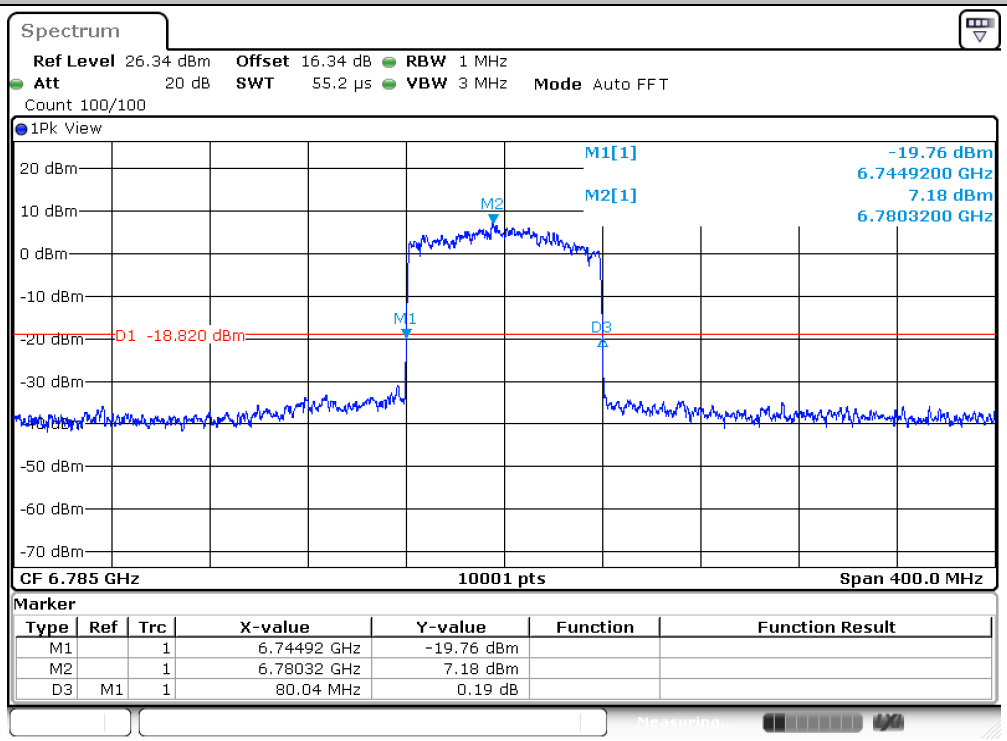

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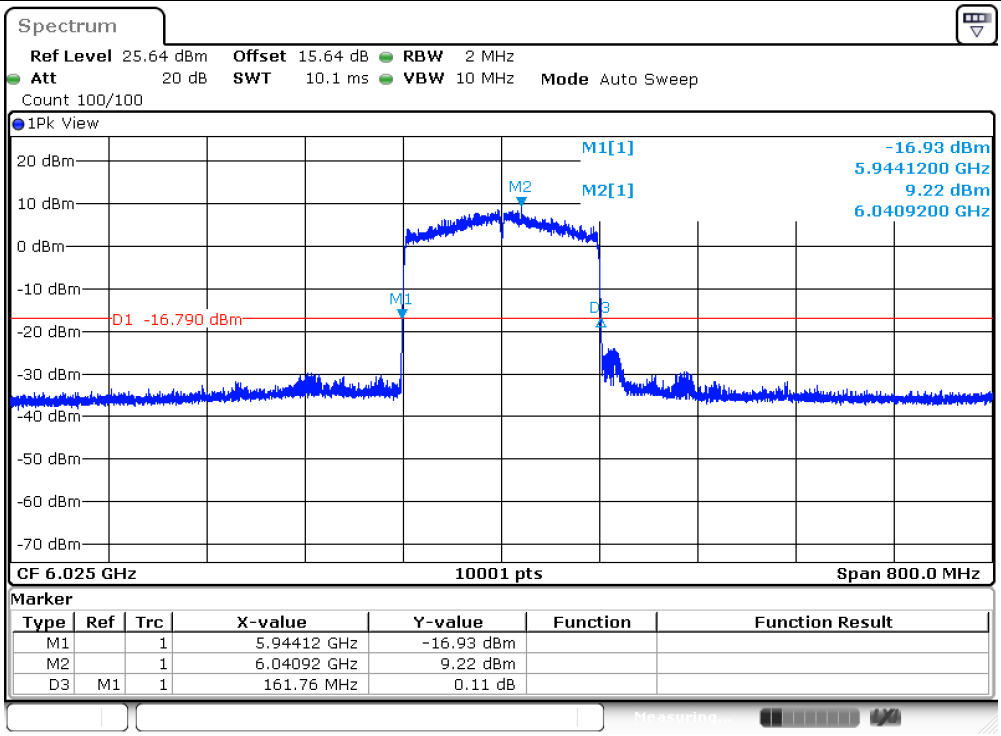

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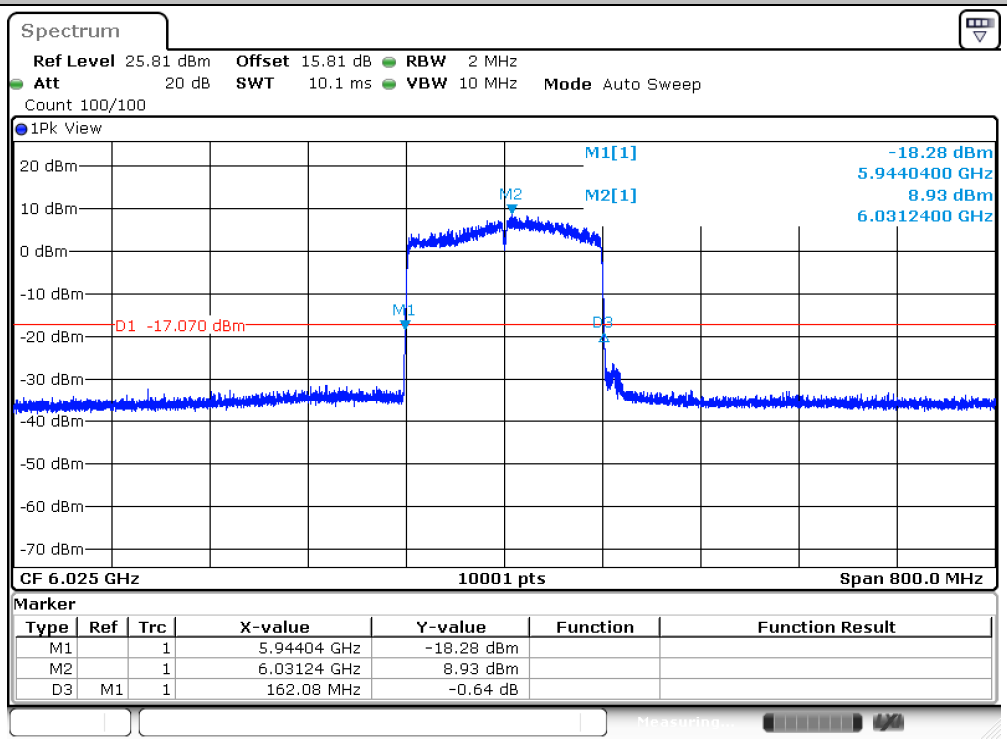

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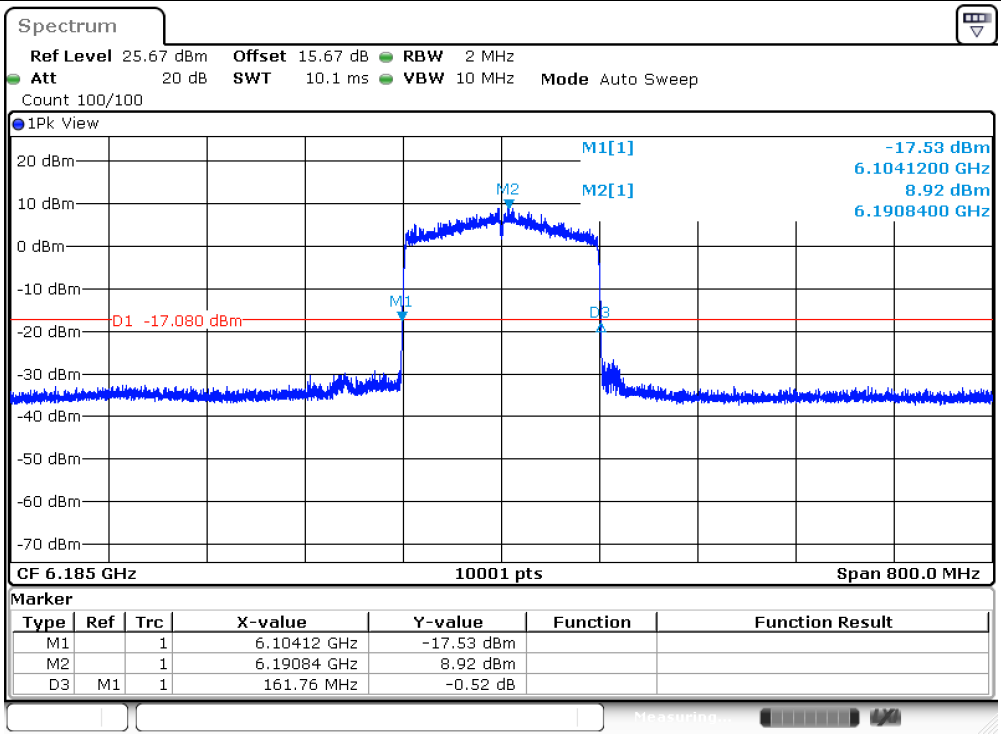
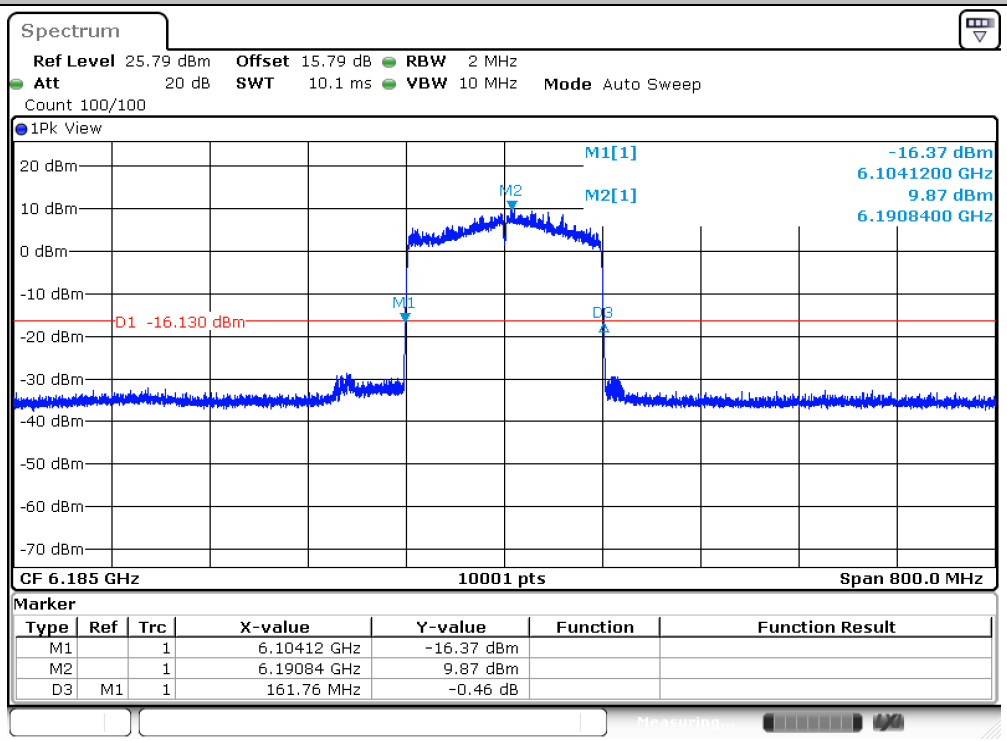


Date: 27.MAY.2025 18:58:09

11BE160MIMO_Ant17_6185



Date: 27.MAY.2025 18:59:39

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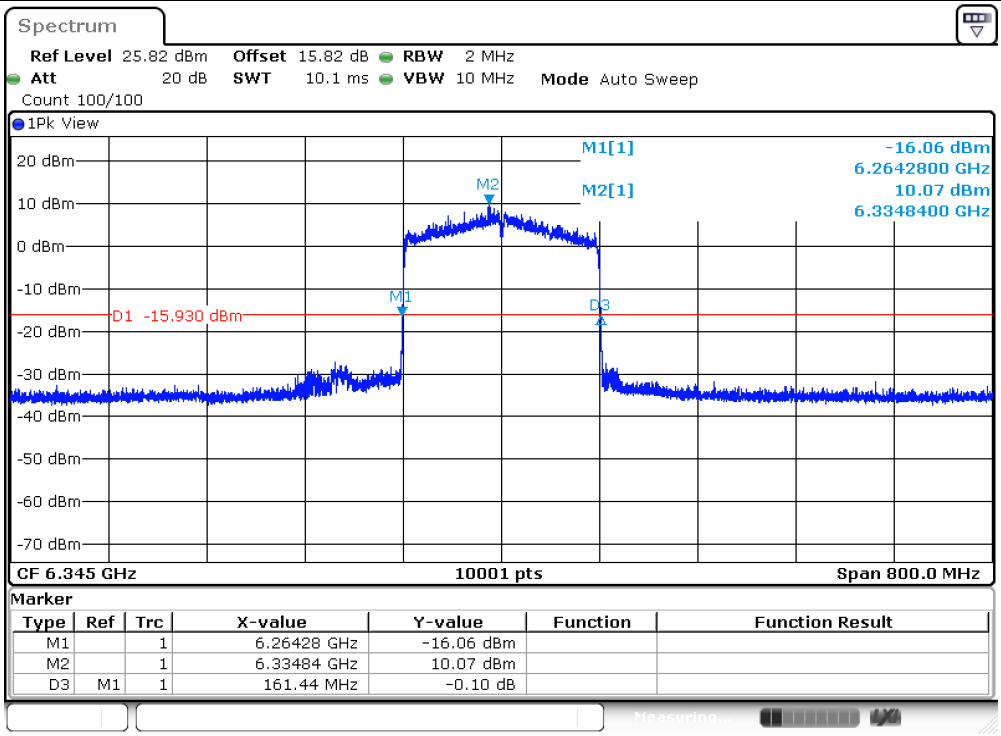

Date: 27.MAY.2025 19:01:53

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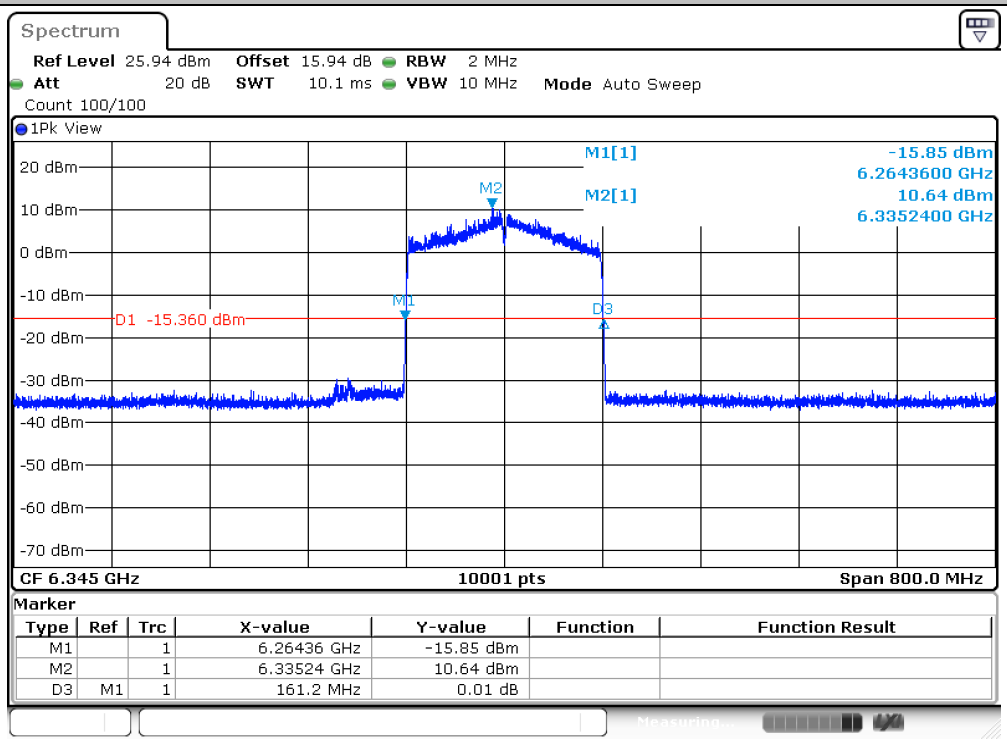
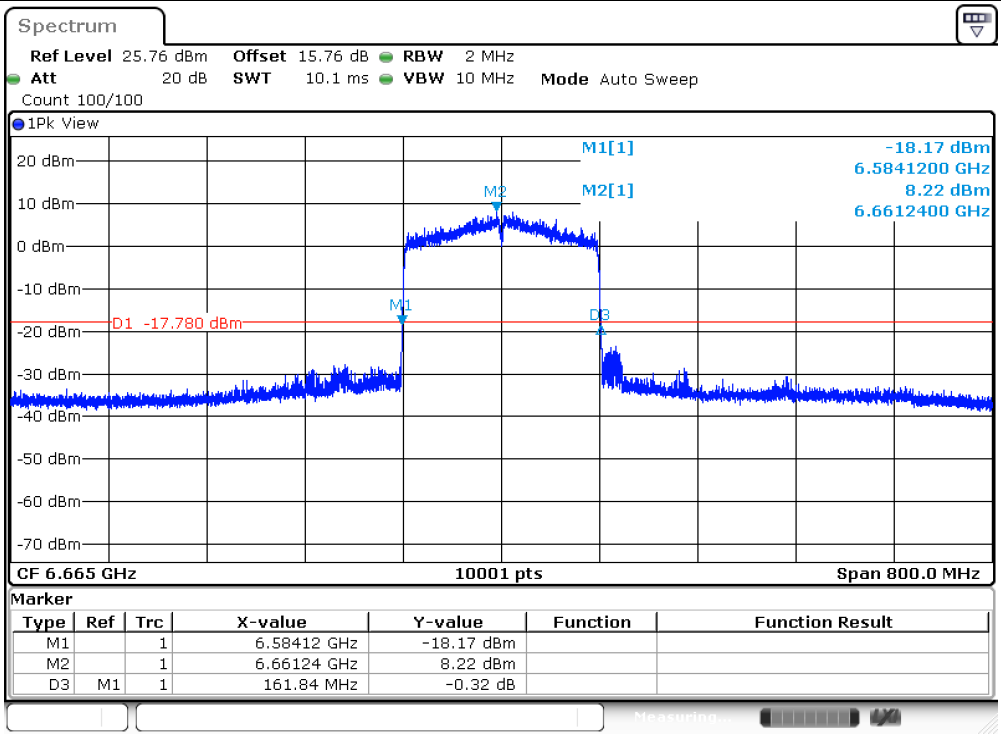


Date: 27.MAY.2025 19:03:19

11BE160MIMO_Ant6_6665



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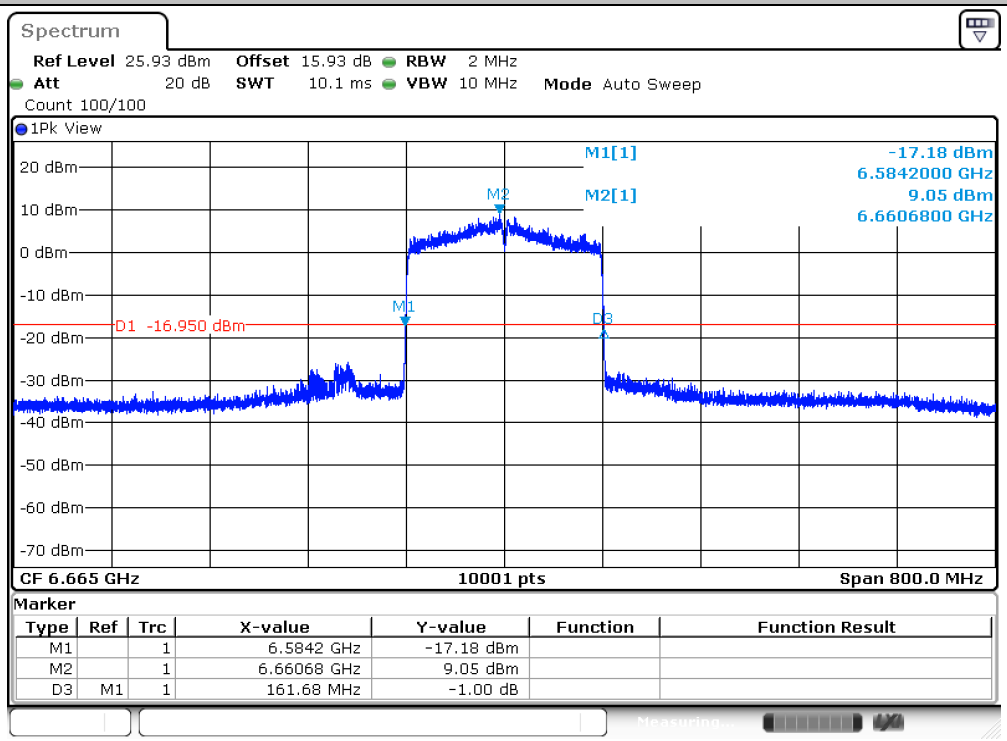

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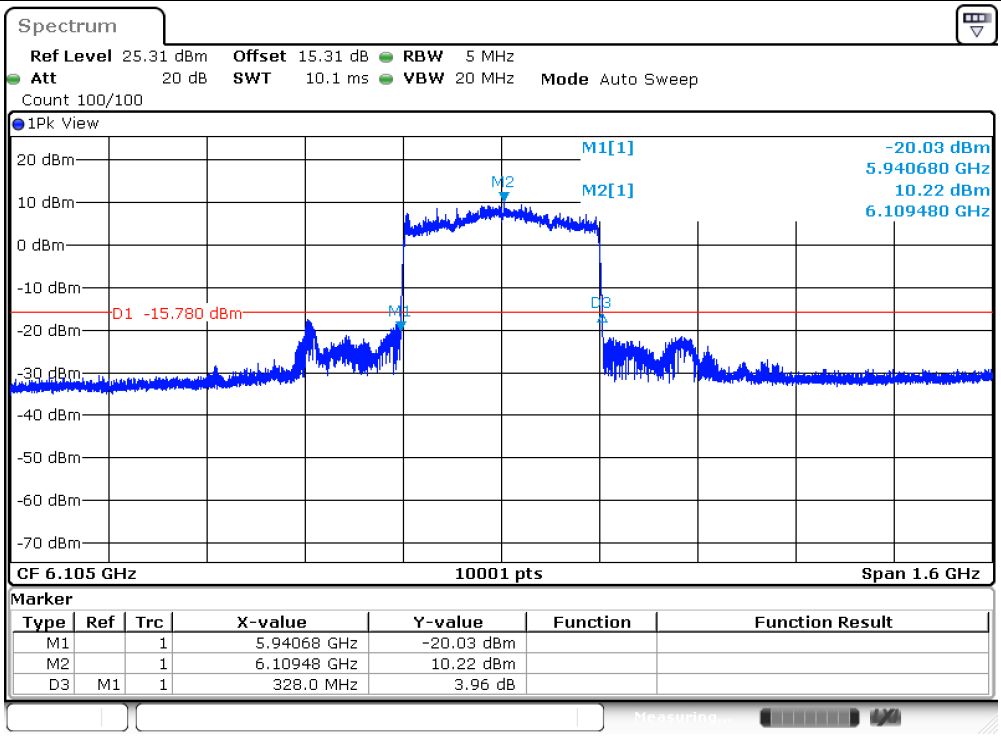

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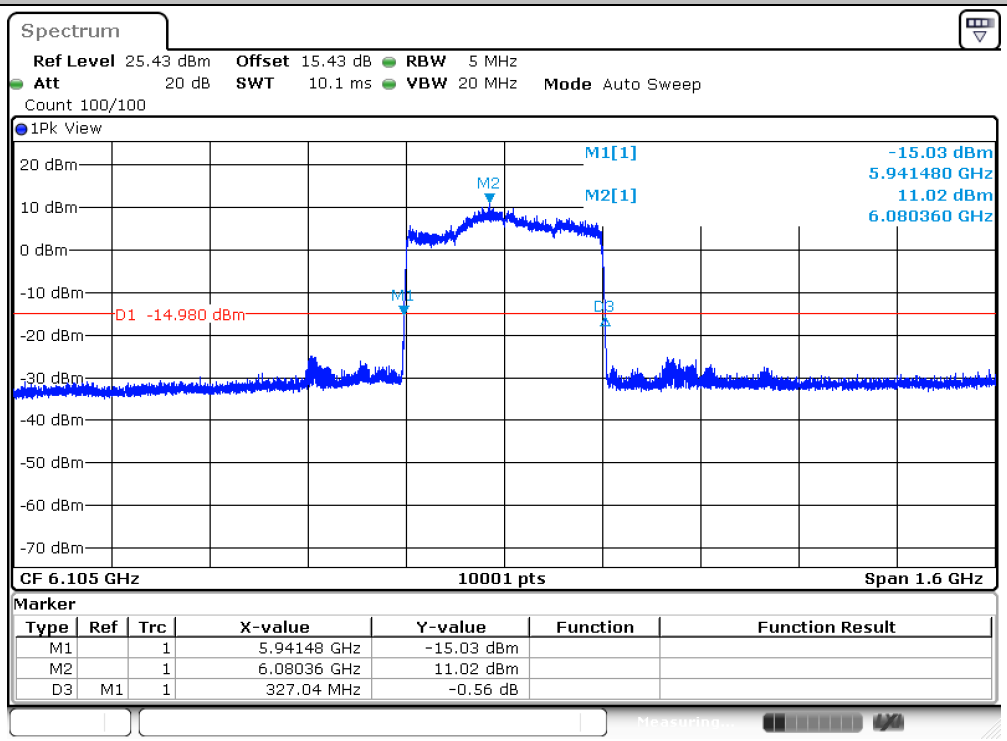

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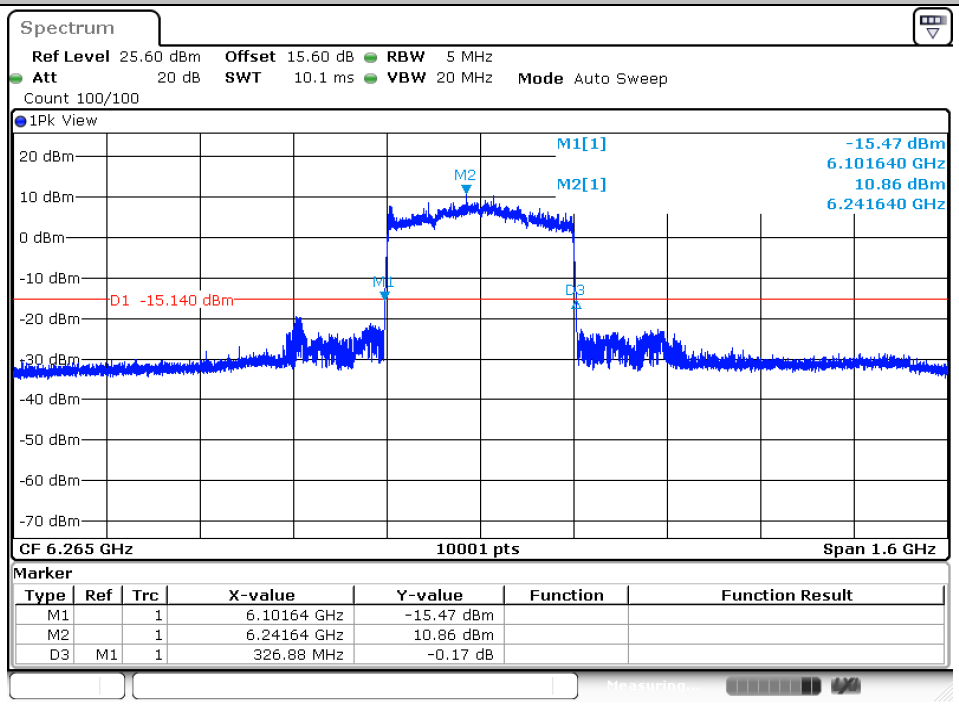

Date: 27.MAY.2025 19:14:20

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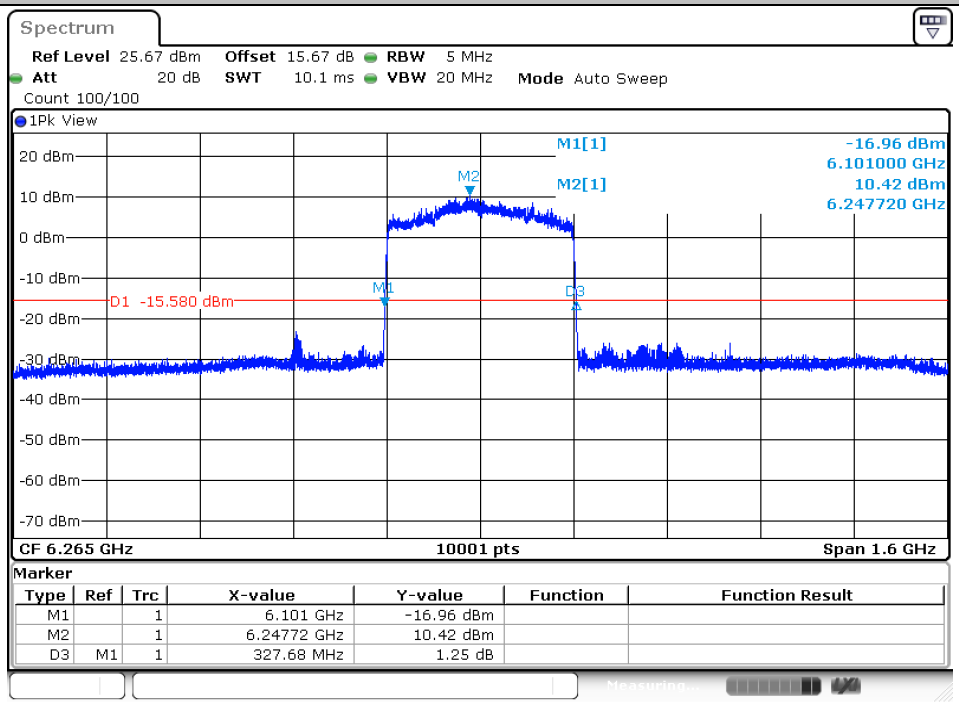


Date: 27.MAY.2025 19:15:58

Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11BE20MIMO	Ant6	5955	18.790	5945.5929	5964.3831	---	---
	Ant17	5955	18.762	5945.5329	5964.2951	---	---
	Ant6	6175	18.782	6165.5929	6184.3751	---	---
	Ant17	6175	18.834	6165.5529	6184.3871	---	---
	Ant6	6415	18.826	6405.5489	6424.3751	---	---
	Ant17	6415	18.814	6405.5489	6424.3631	---	---
	Ant6	6535	18.814	6525.5729	6544.3871	---	---
	Ant17	6535	18.754	6525.5849	6544.3391	---	---
	Ant6	6695	18.826	6685.5689	6704.3951	---	---
	Ant17	6695	18.838	6685.5329	6704.3711	---	---
	Ant6	6855	18.782	6845.5729	6864.3551	---	---
	Ant17	6855	18.778	6845.5729	6864.3511	---	---
11BE40MIMO	Ant6	5965	37.860	5946.0739	5983.9341	---	---
	Ant17	5965	37.460	5946.1059	5983.5661	---	---
	Ant6	6165	37.716	6146.1299	6183.8461	---	---
	Ant17	6165	37.692	6146.2179	6183.9101	---	---
	Ant6	6405	37.660	6386.1459	6423.8061	---	---
	Ant17	6405	37.636	6386.0979	6423.7341	---	---
	Ant6	6565	37.644	6546.1779	6583.8221	---	---
	Ant17	6565	37.692	6546.1779	6583.8701	---	---
	Ant6	6685	37.564	6666.1539	6703.7181	---	---
	Ant17	6685	37.420	6666.2019	6703.6221	---	---
	Ant6	6845	37.540	6826.2019	6863.7421	---	---
	Ant17	6845	37.540	6826.1299	6863.6701	---	---
11BE80MIMO	Ant6	5985	76.952	5946.3479	6023.3002	---	---
	Ant17	5985	77.496	5946.1079	6023.6041	---	---
	Ant6	6145	77.336	6106.3799	6183.7161	---	---
	Ant17	6145	77.192	6106.2519	6183.4442	---	---
	Ant6	6385	77.016	6346.4439	6423.4602	---	---
	Ant17	6385	77.000	6346.1879	6423.1882	---	---
	Ant6	6625	76.984	6586.3319	6663.3162	---	---
	Ant17	6625	77.256	6586.4119	6663.6681	---	---
	Ant6	6705	77.304	6666.1239	6743.4282	---	---
	Ant17	6705	77.368	6666.2359	6743.6041	---	---
	Ant6	6785	77.192	6746.2519	6823.4442	---	---
	Ant17	6785	76.824	6746.3959	6823.2202	---	---
11BE160MIMO	Ant6	6025	156.14	5947.0558	6103.2002	---	---

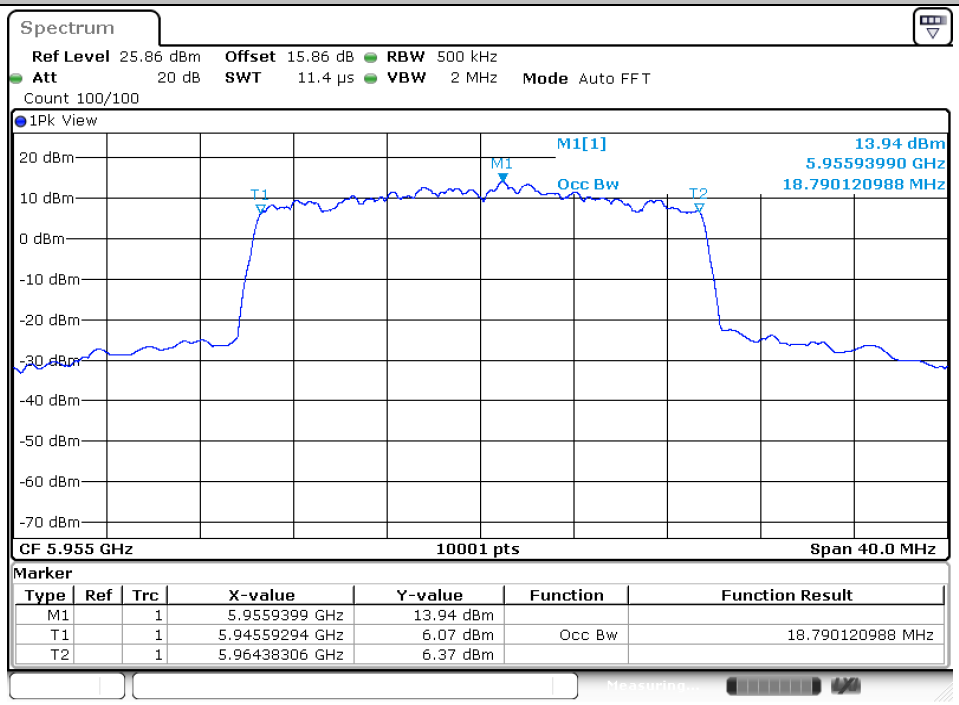
	Ant17	6025	156.34	5946.9918	6103.3282	---	---
	Ant6	6185	156.02	6106.7678	6262.7842	---	---
	Ant17	6185	155.66	6106.9598	6262.6242	---	---
	Ant6	6345	155.63	6266.9278	6422.5602	---	---
	Ant17	6345	154.80	6267.3118	6422.1123	---	---
	Ant6	6665	156.05	6586.9278	6742.9762	---	---
	Ant17	6665	155.73	6587.1518	6742.8802	---	---
11BE320MIMO	Ant6	6105	318.24	5945.2720	6263.5121	≤320	PASS
	Ant17	6105	315.74	5946.8078	6262.5522	≤320	PASS
	Ant6	6265	317.47	6105.2080	6422.6802	≤320	PASS
	Ant17	6265	314.91	6106.7438	6421.6563	≤320	PASS

Note1: For channels with a nominal bandwidth of 320MHz,compliance is demonstrated by way of the 99%BW.

Note2: For channels with a nominal bandwidth less than 320MHz(e.g 20,40,80,160MHz), compliance is demonstrated by way of the 26dB EBW.

Test Graphs

11BE20MIMO_Ant6_5955



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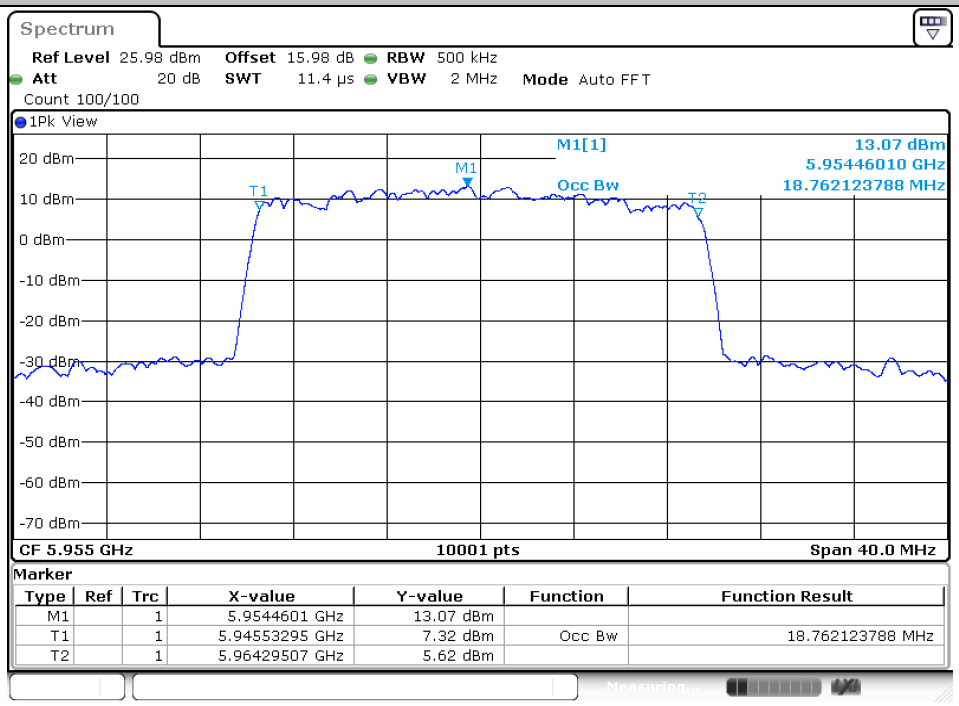
11BE20MIMO_Ant17_5955



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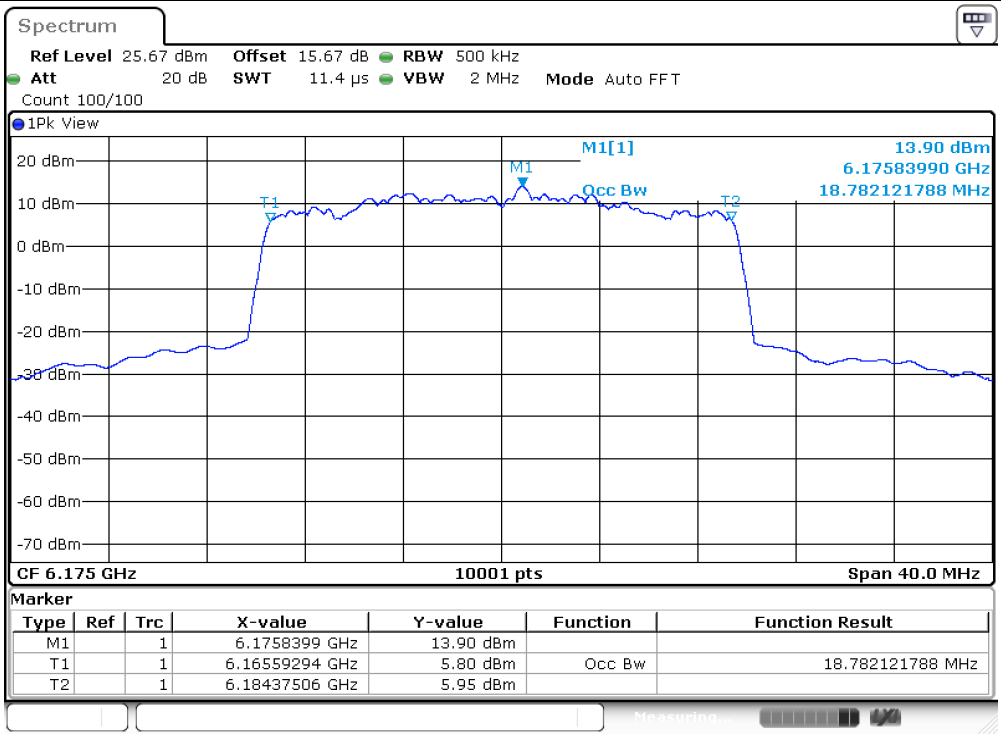

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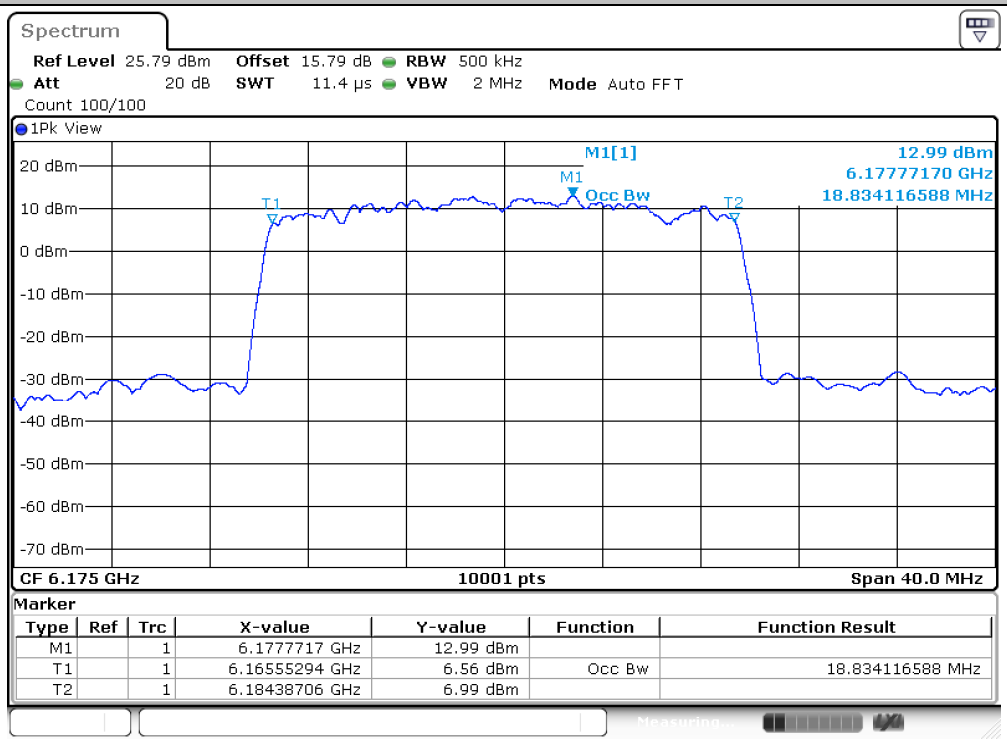

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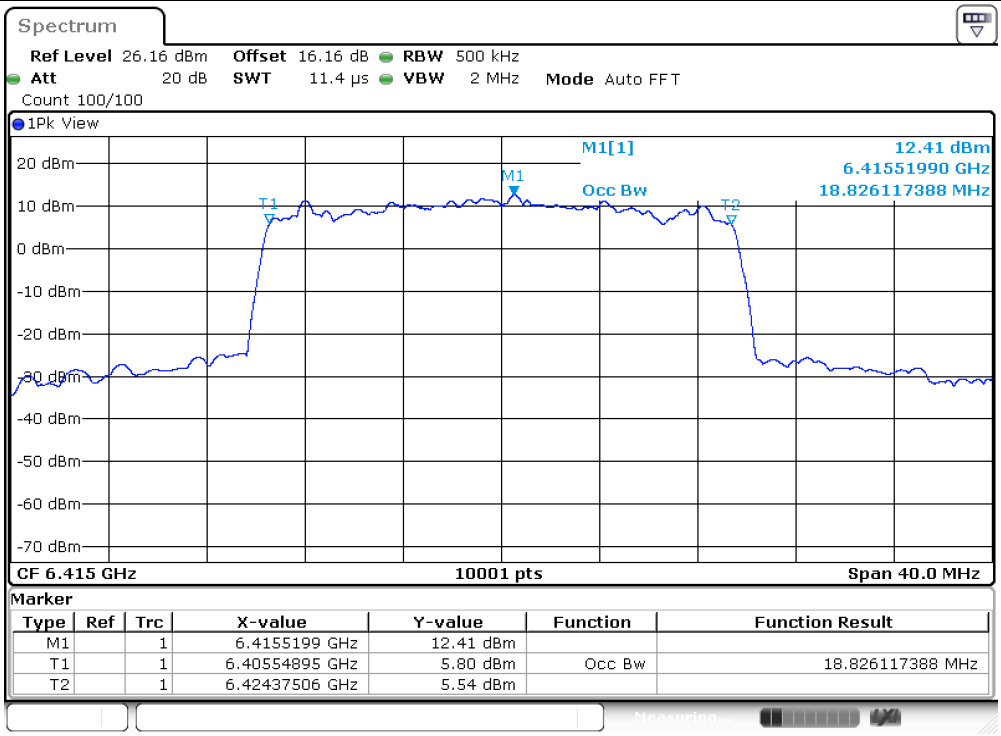

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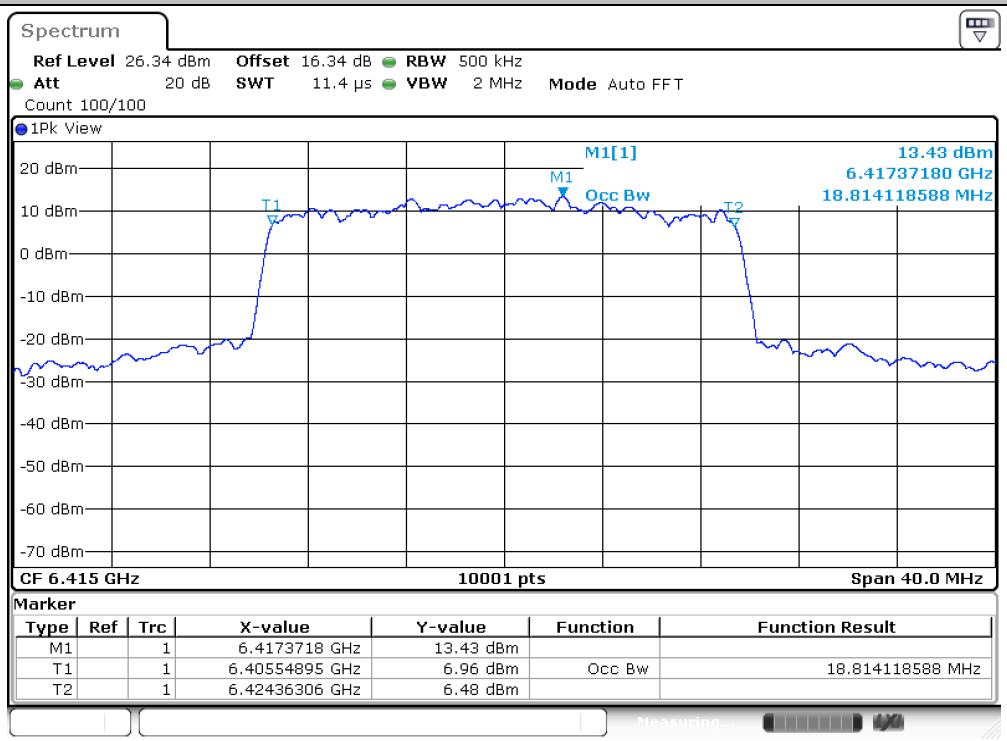

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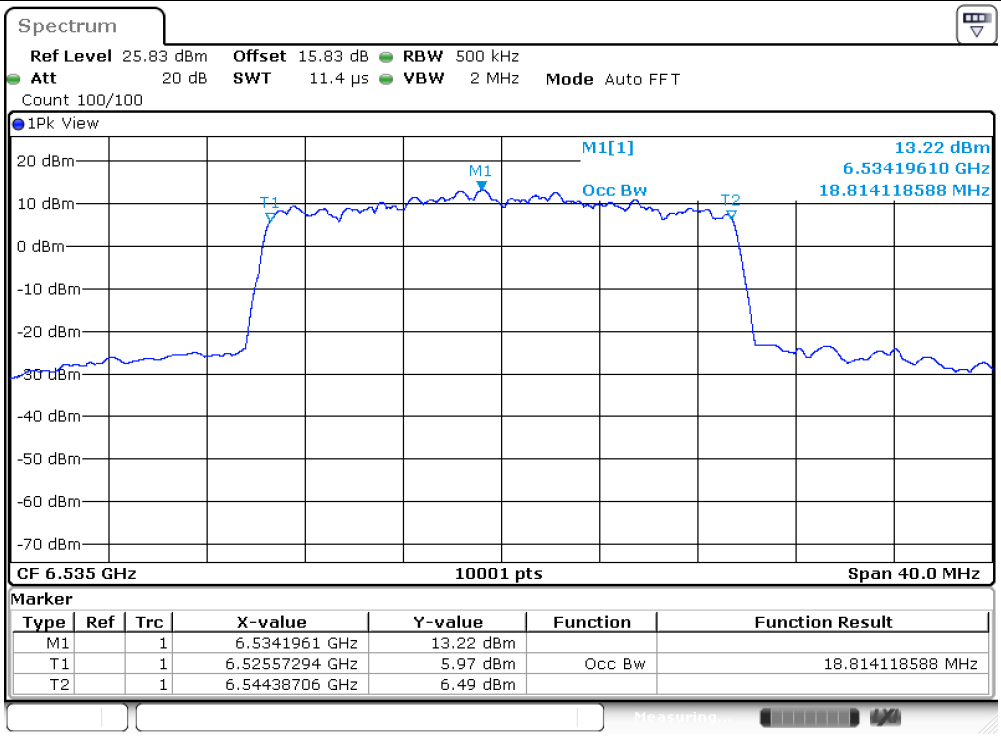

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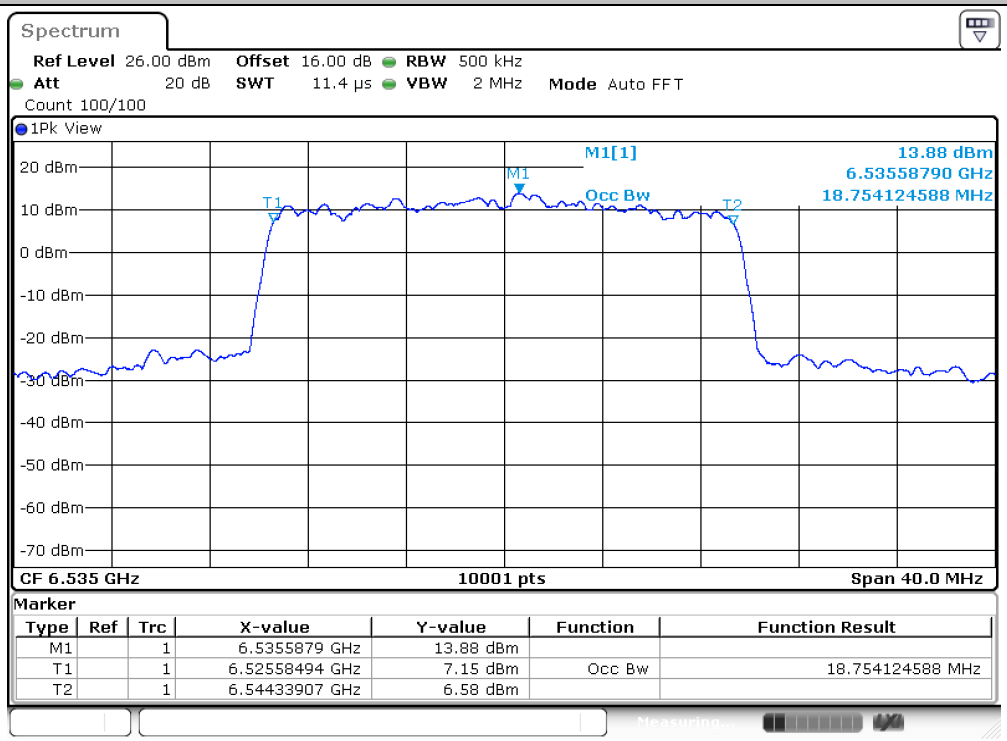

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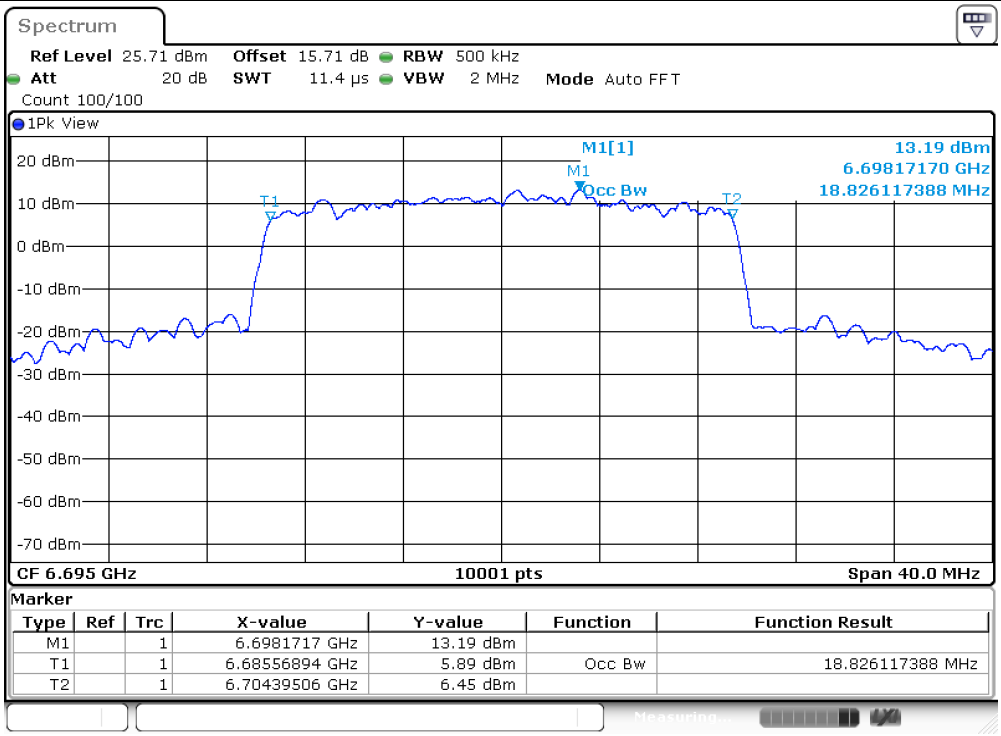

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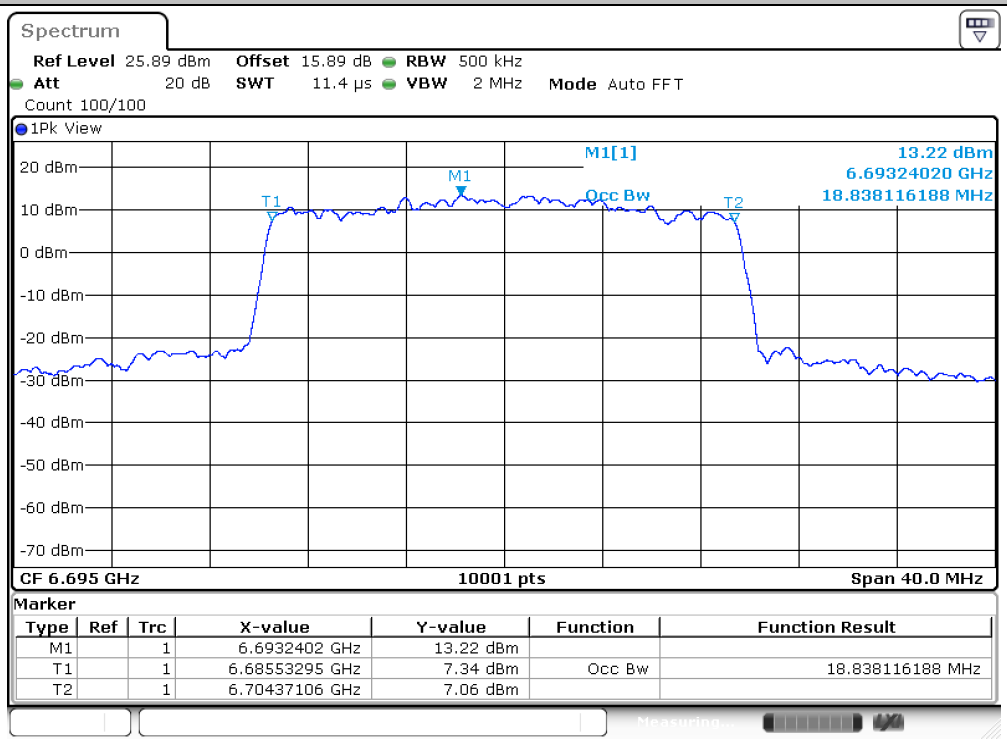

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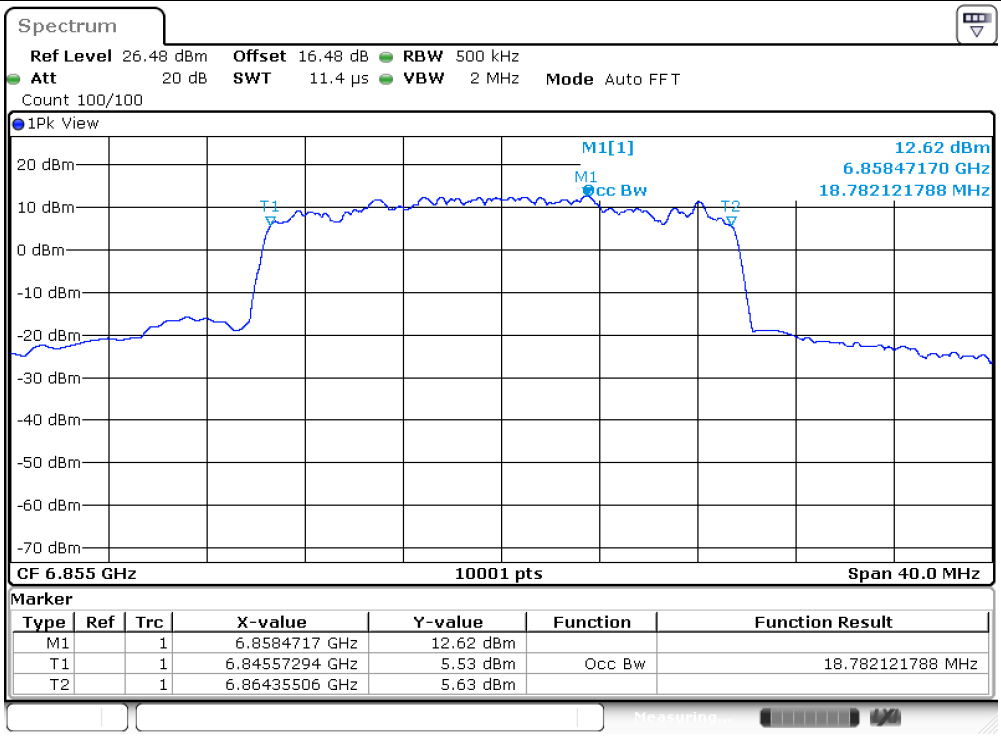

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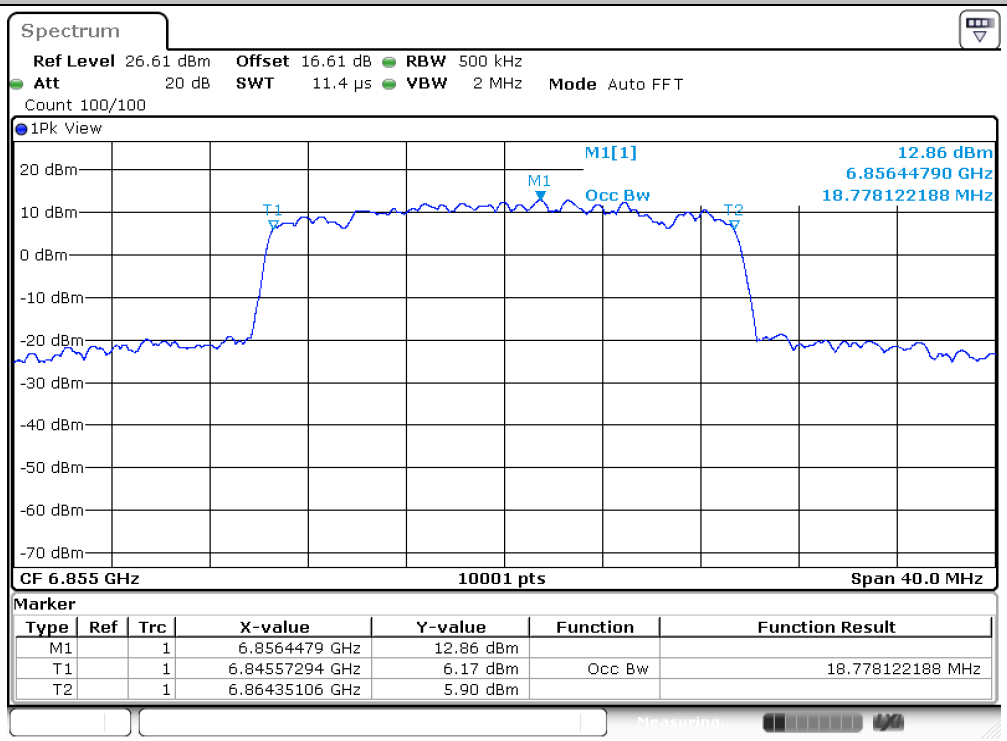

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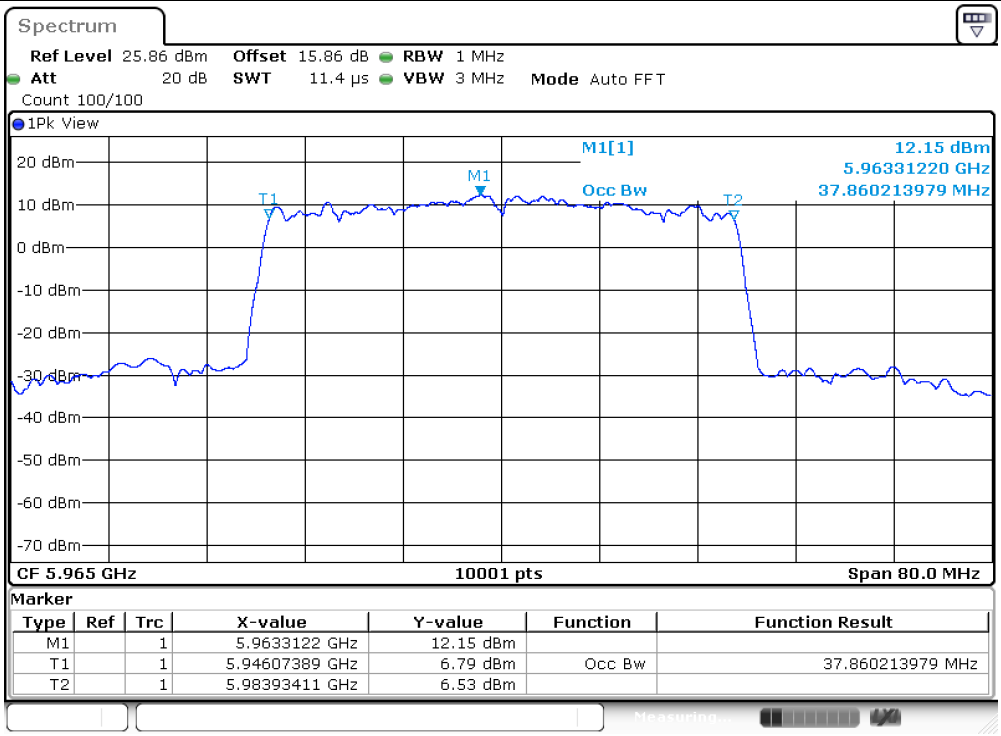

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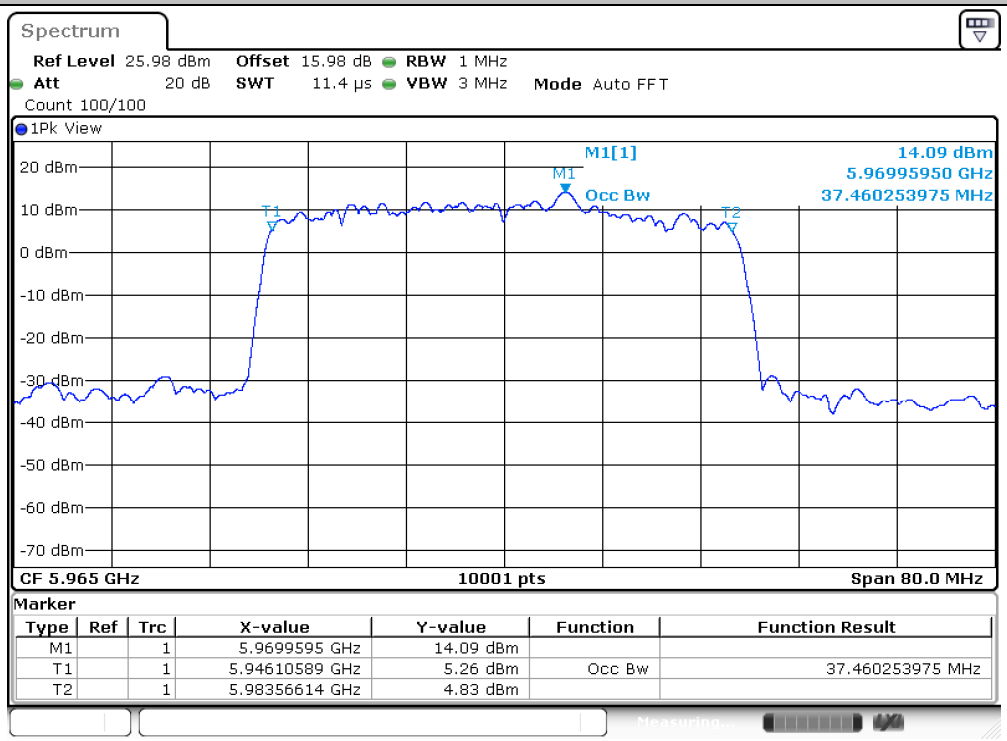

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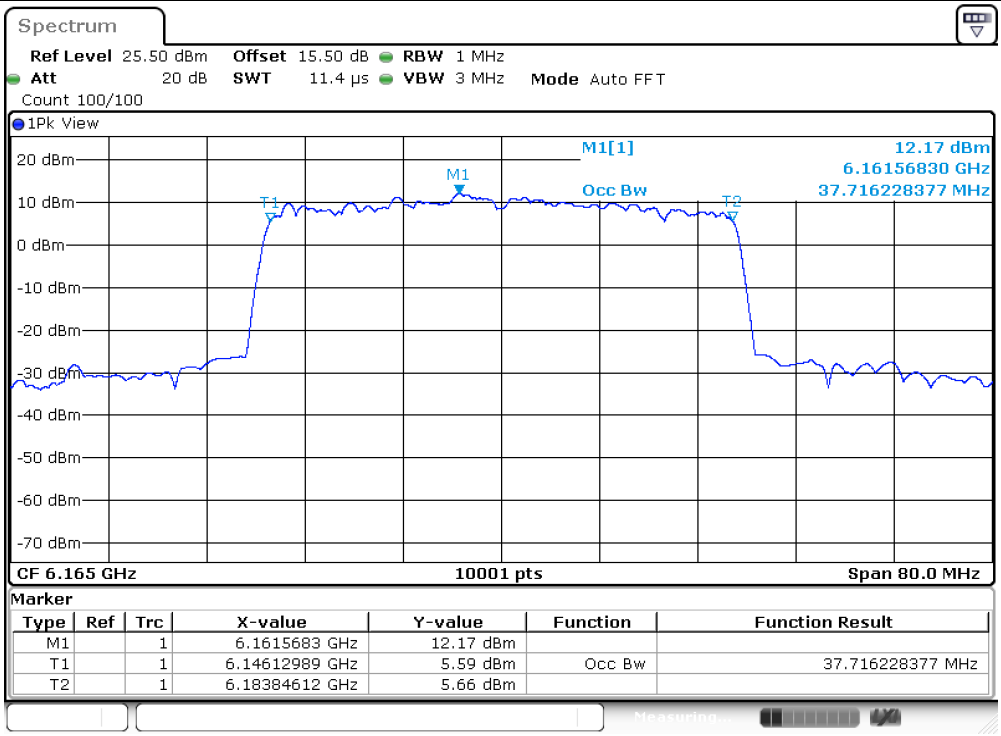

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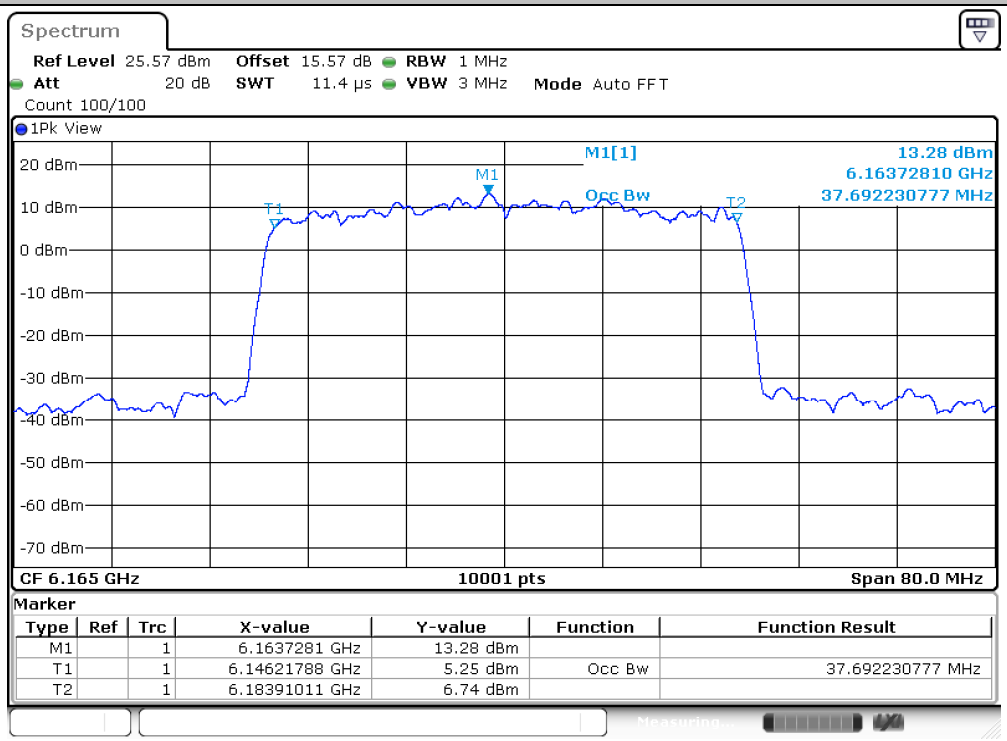

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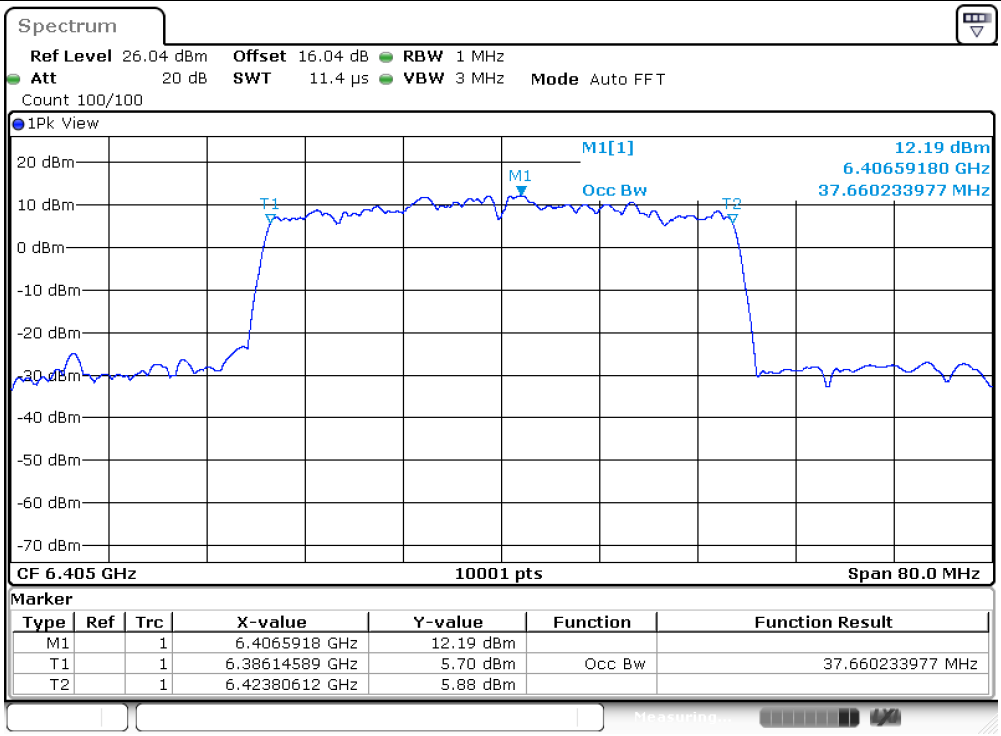

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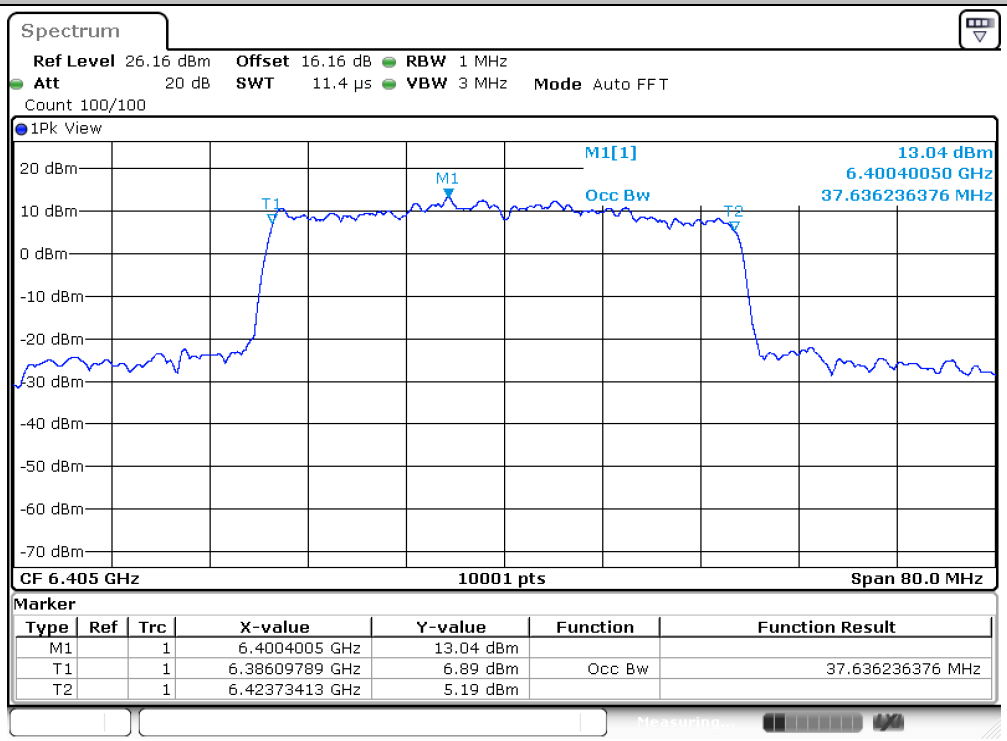

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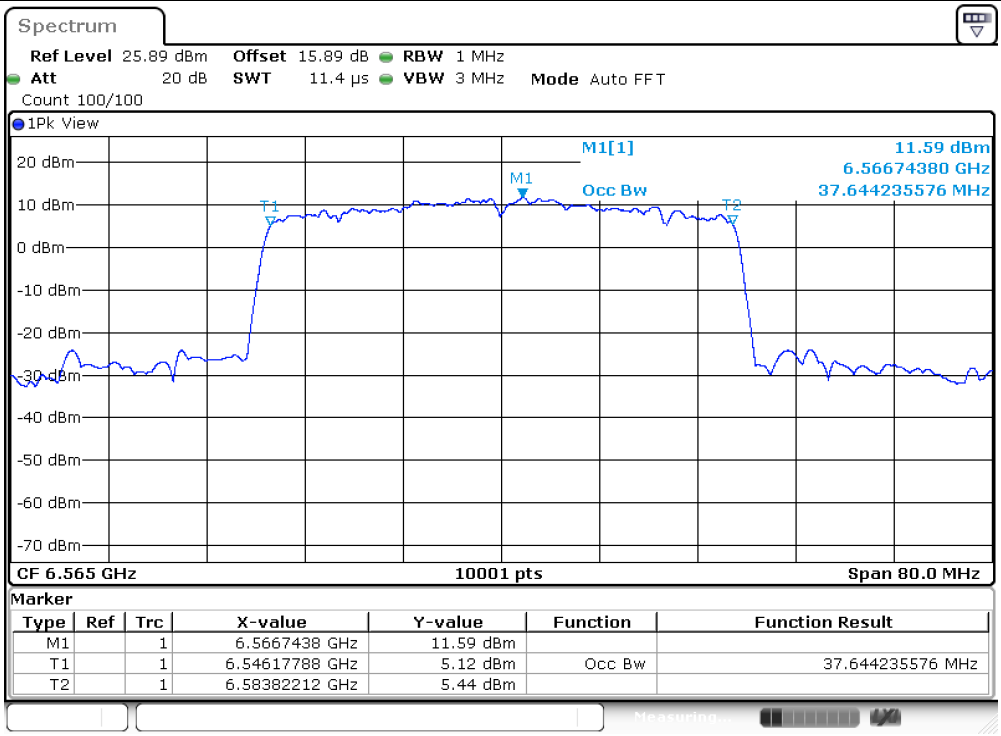

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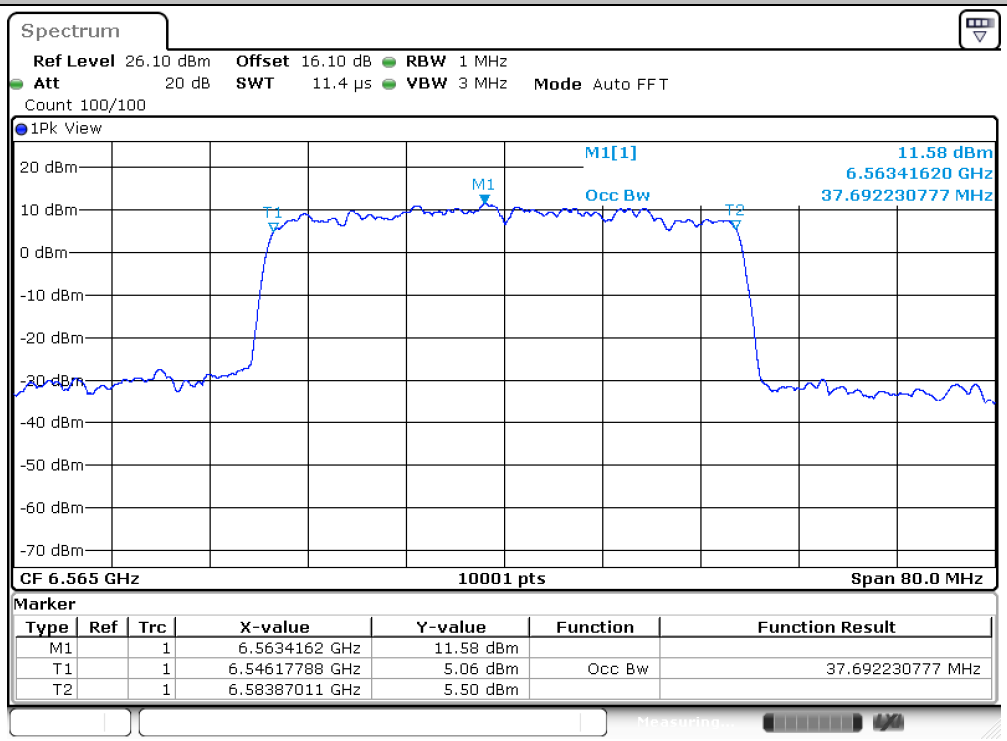

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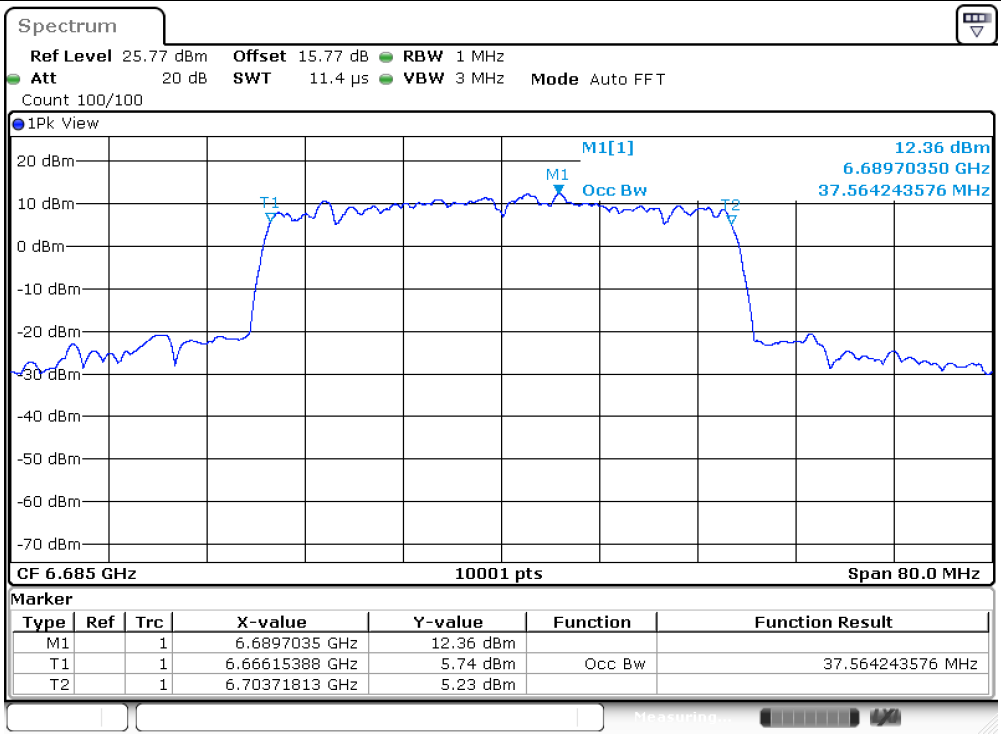

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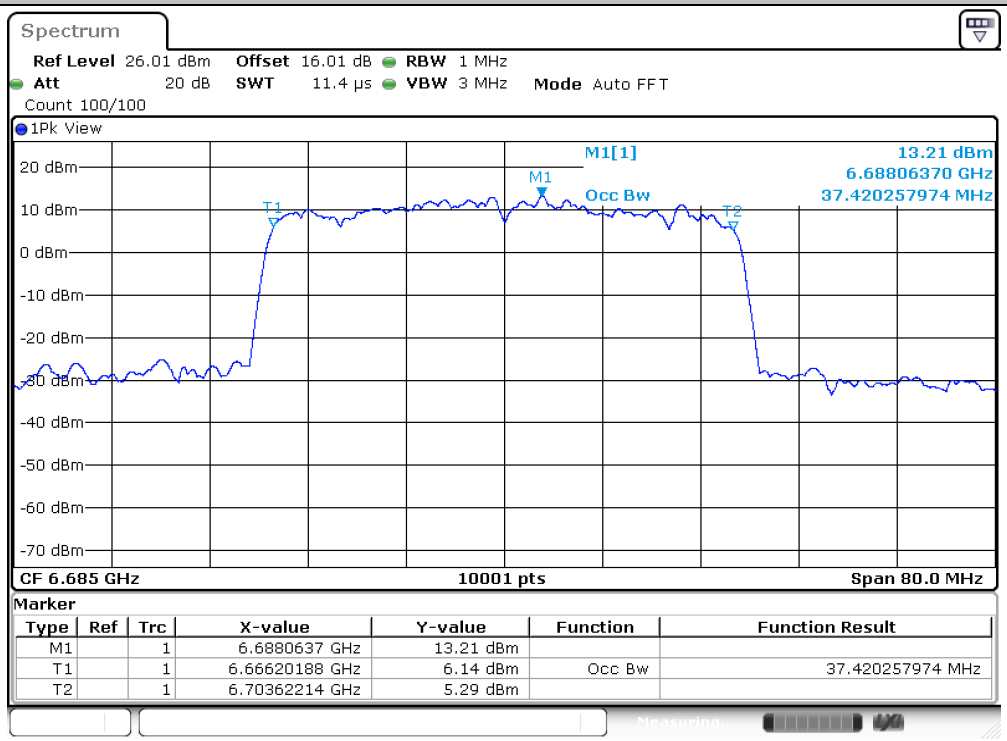

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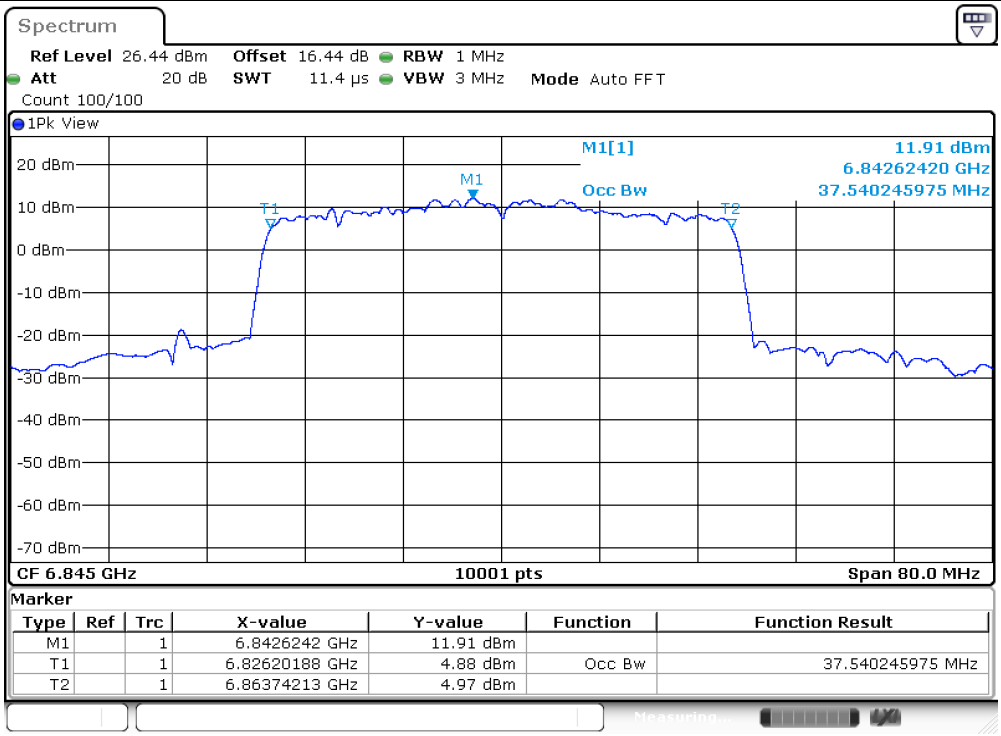

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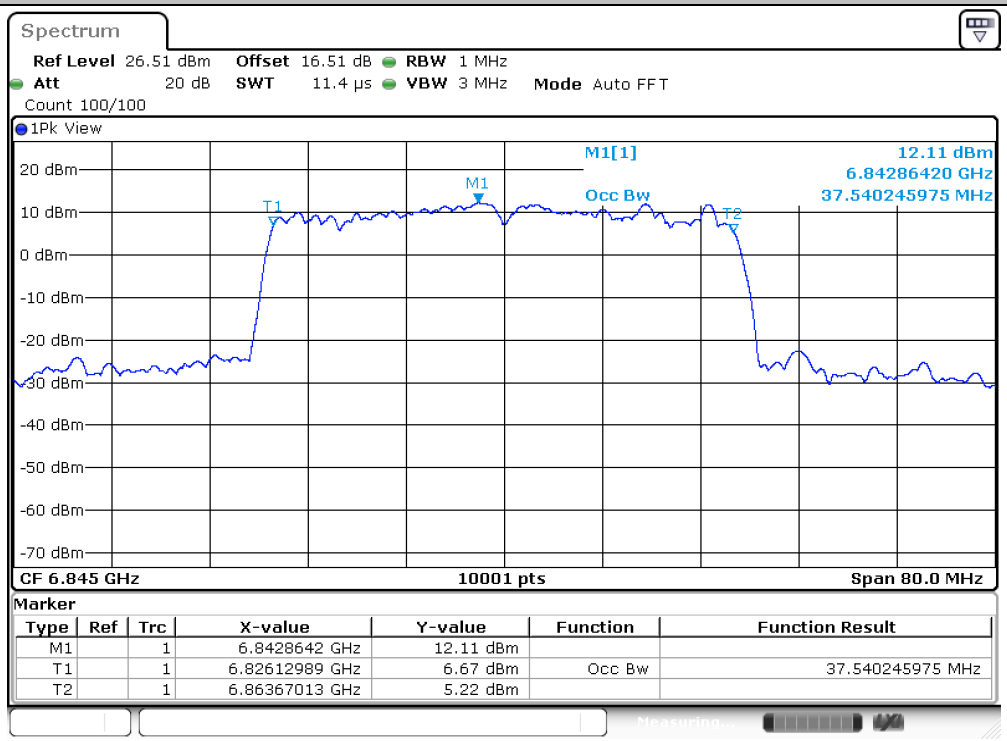

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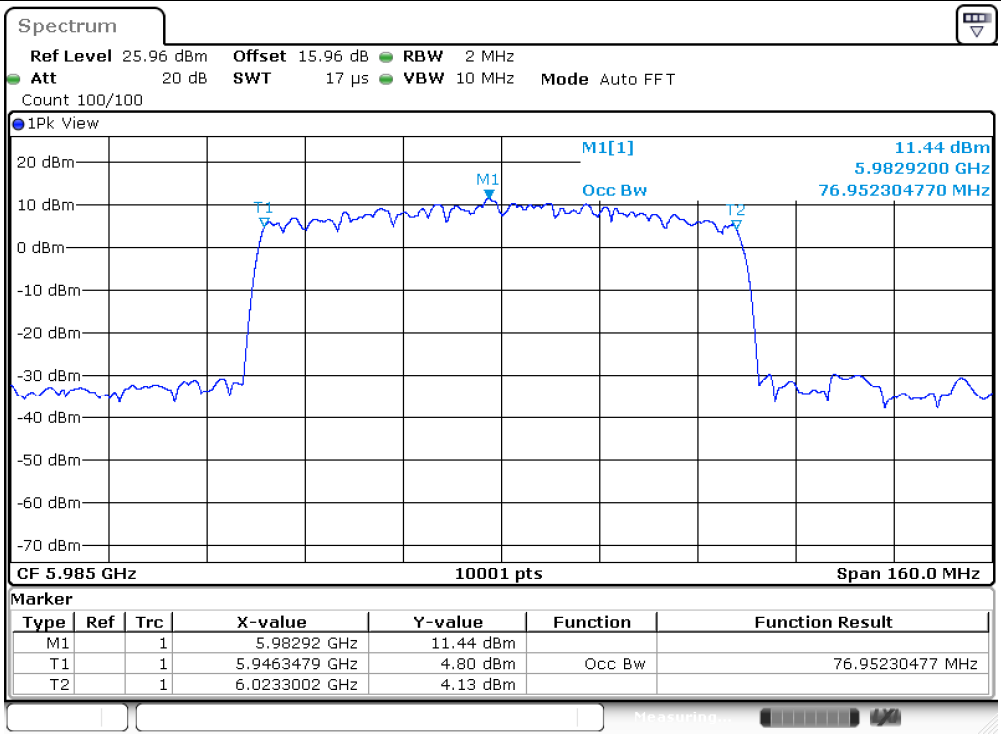

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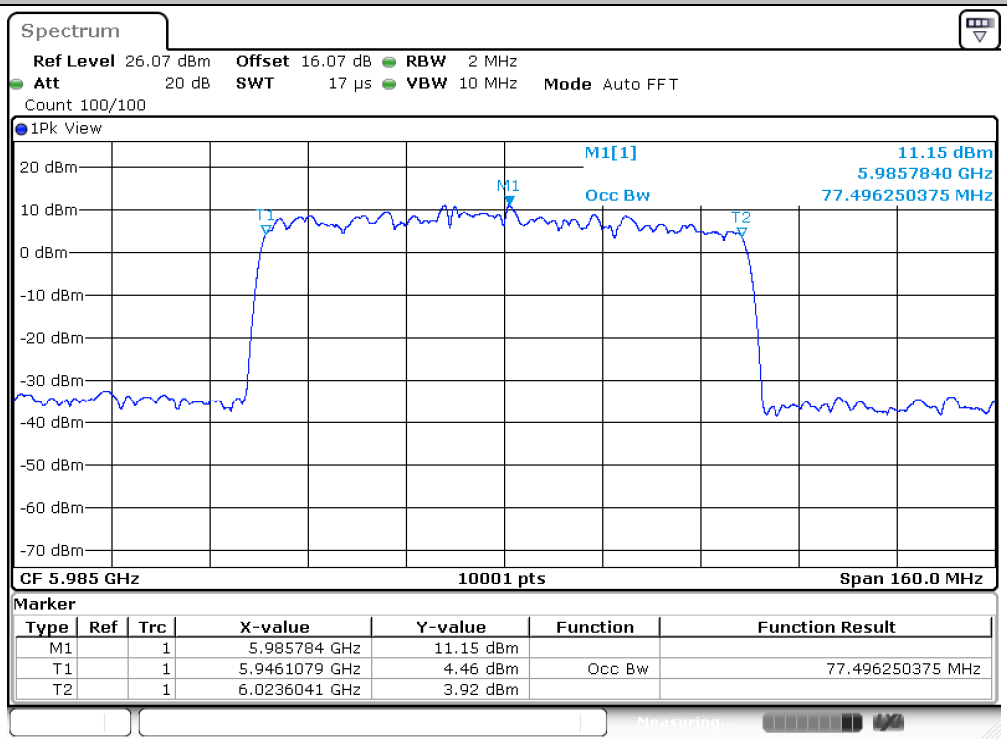

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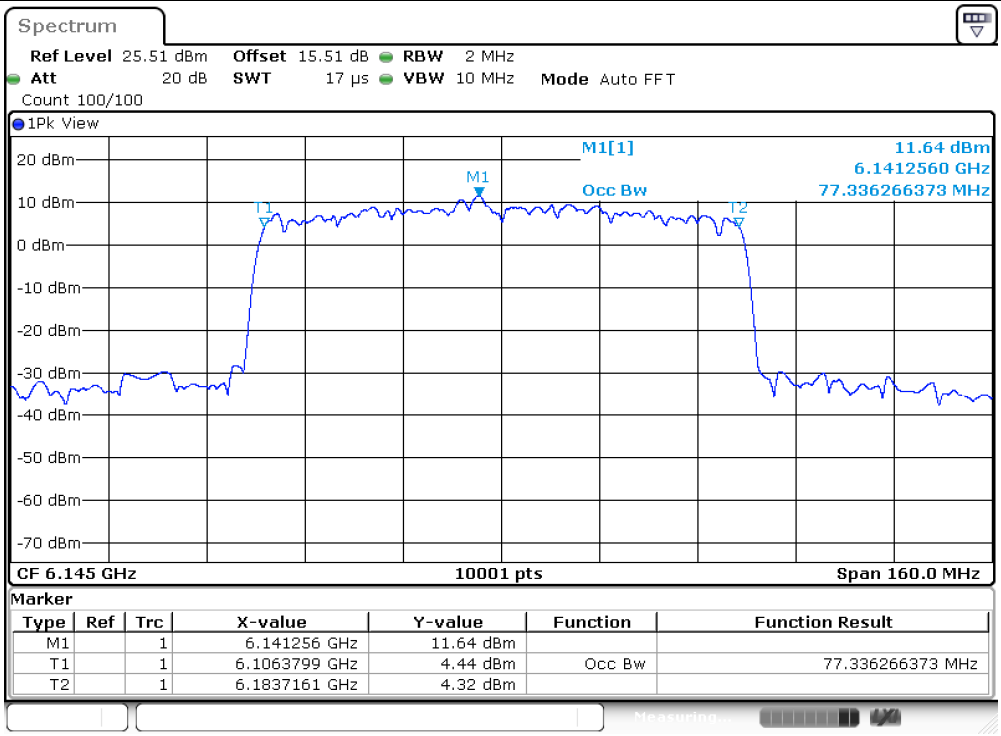

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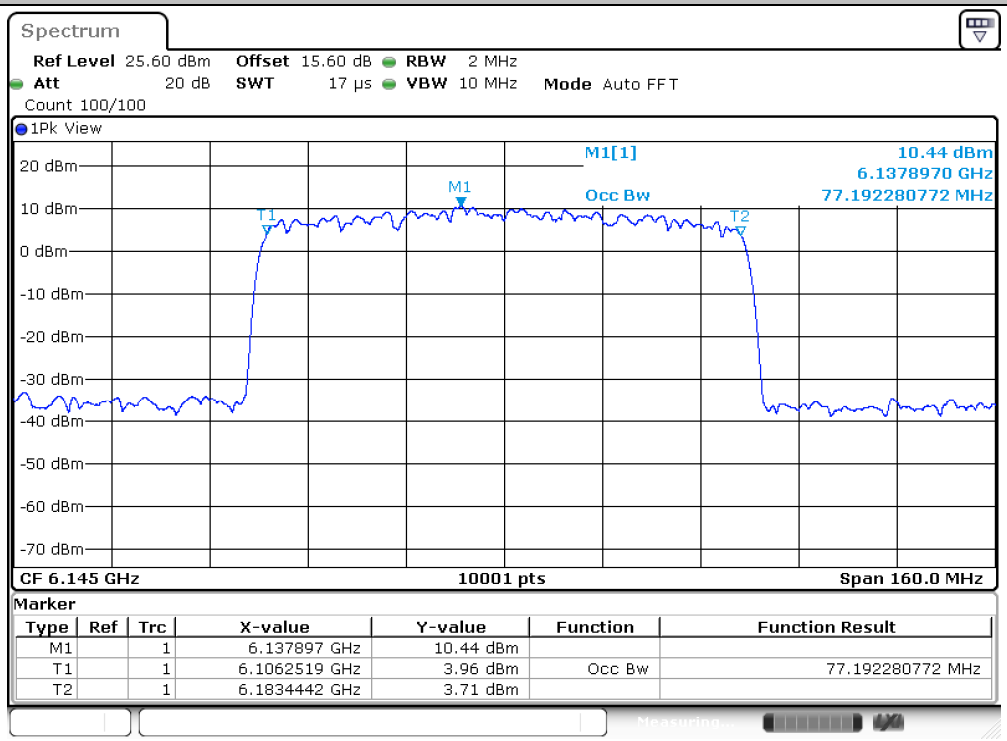

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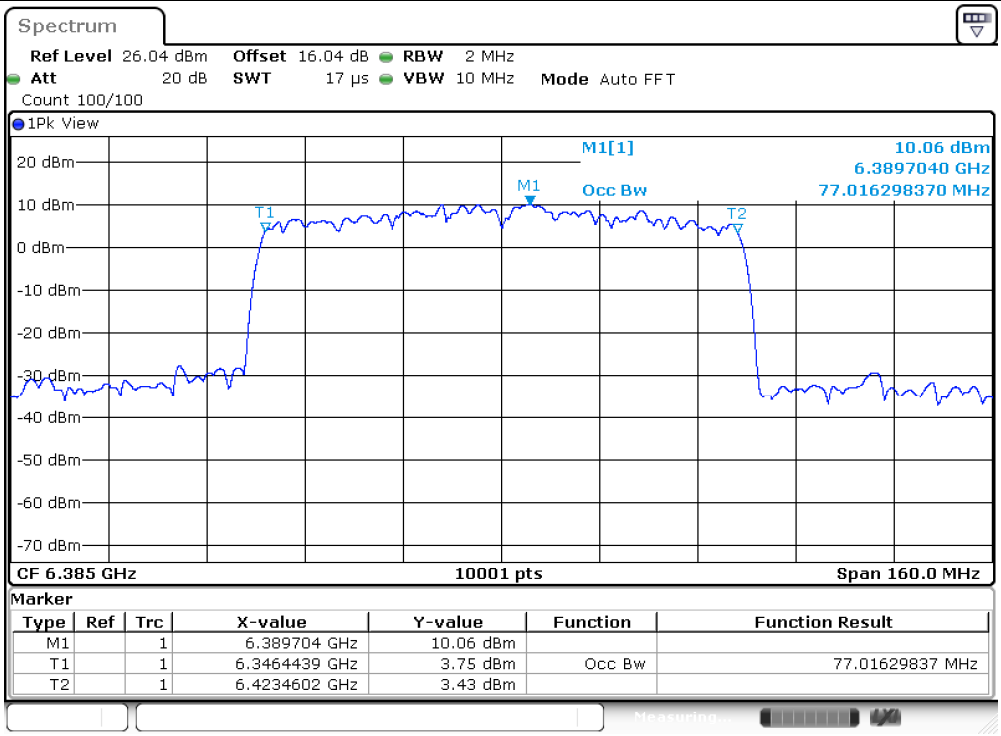
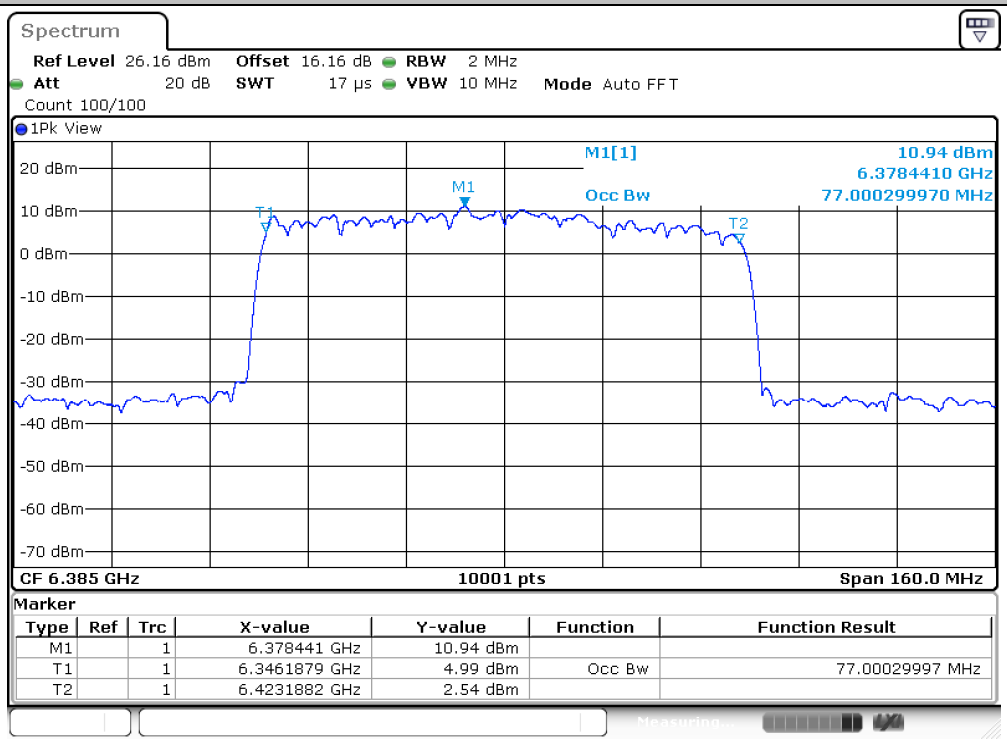


11BE80MIMO_Ant17_6385



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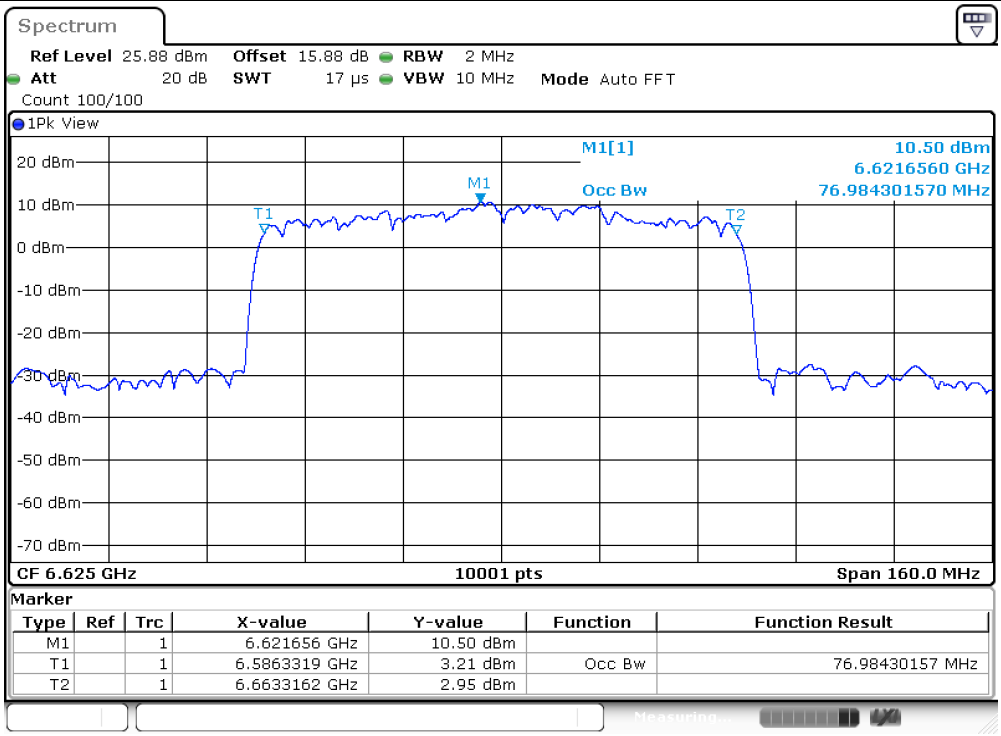

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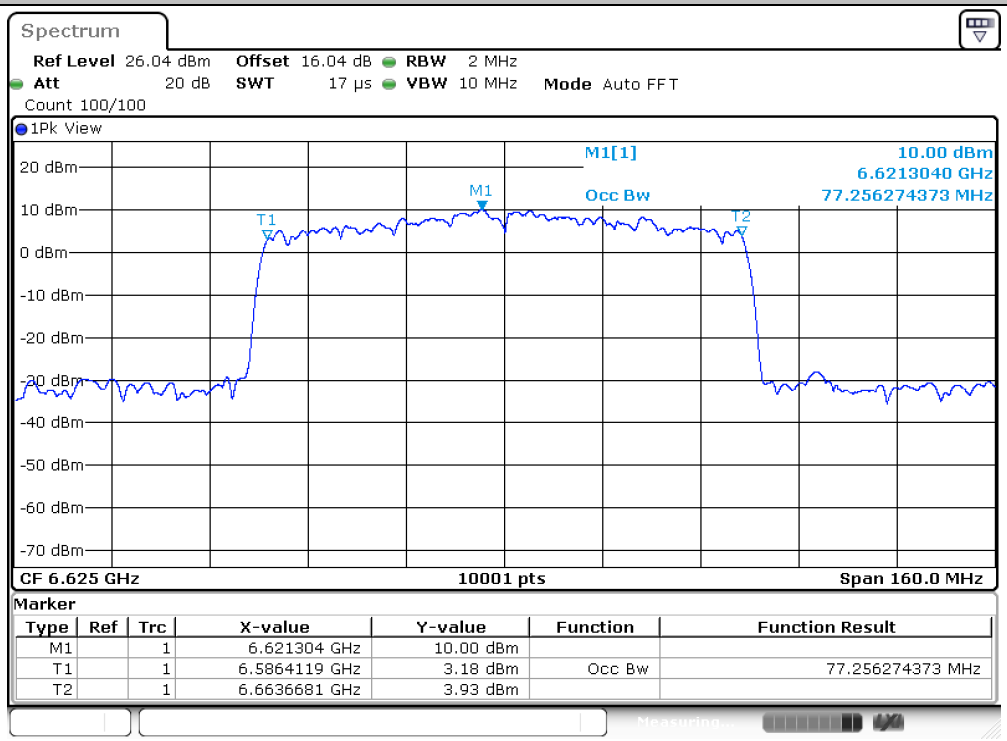

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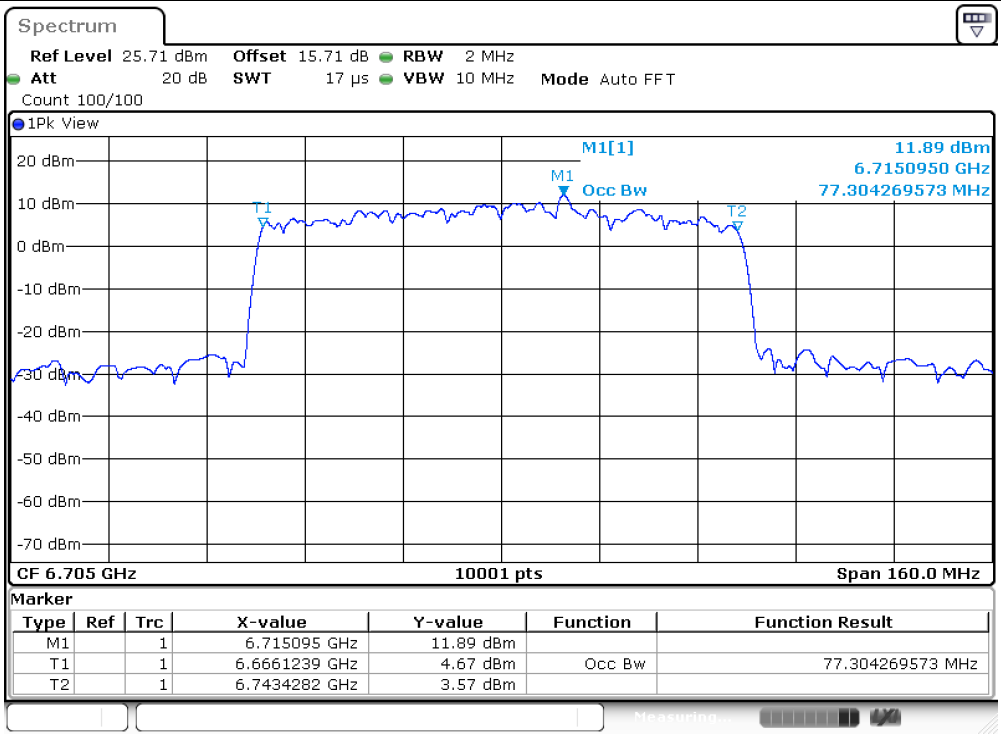

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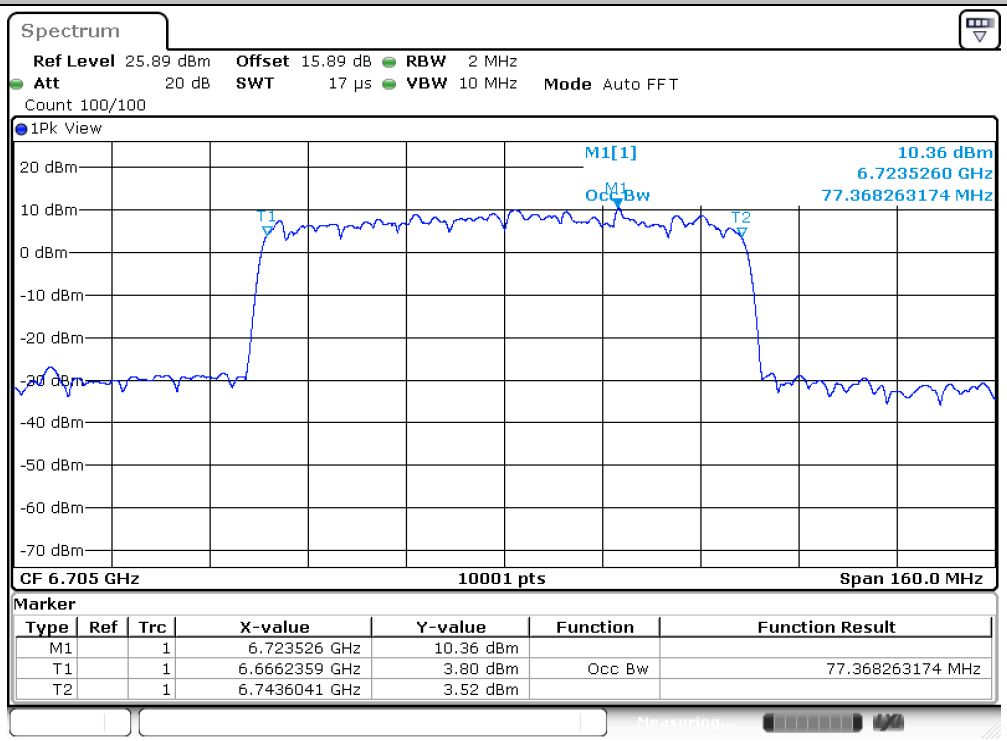

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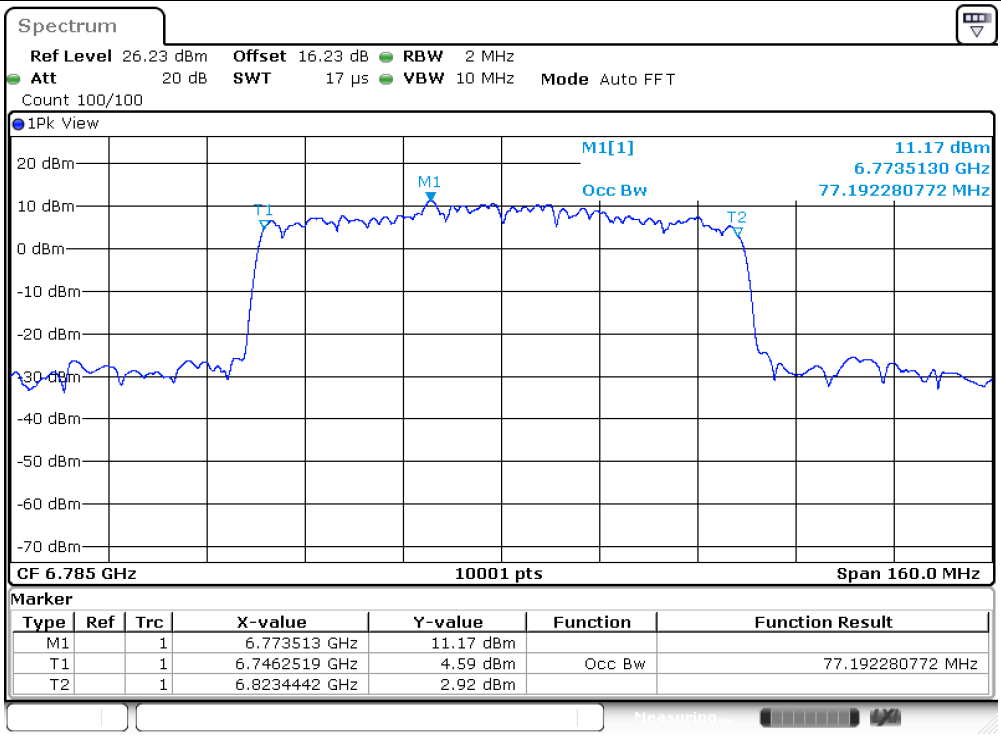

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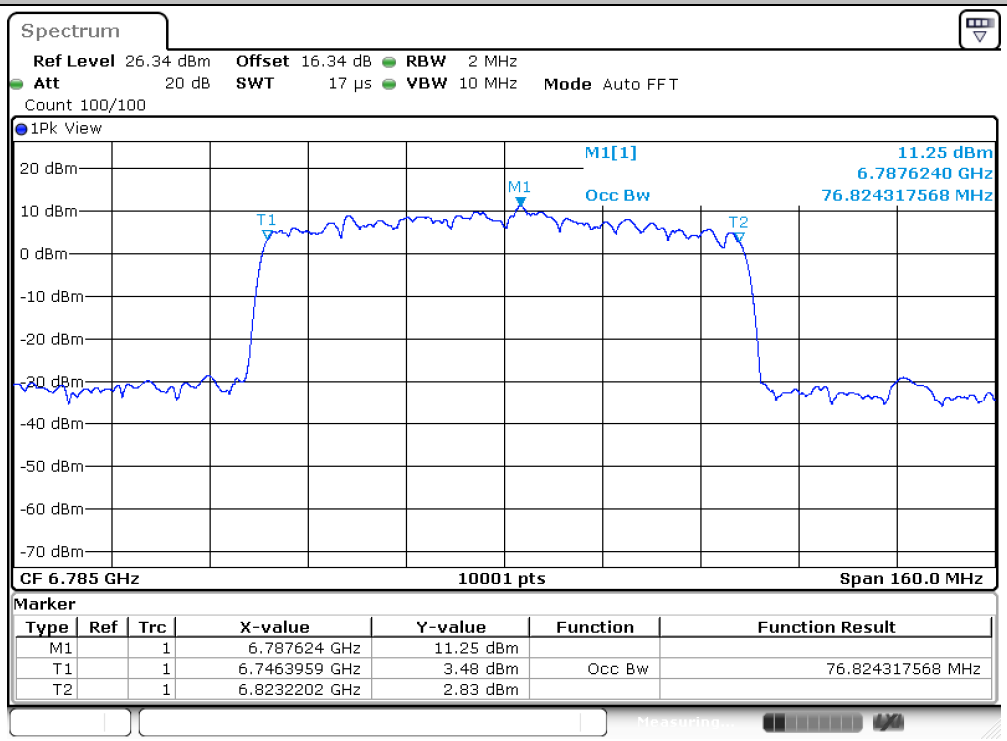

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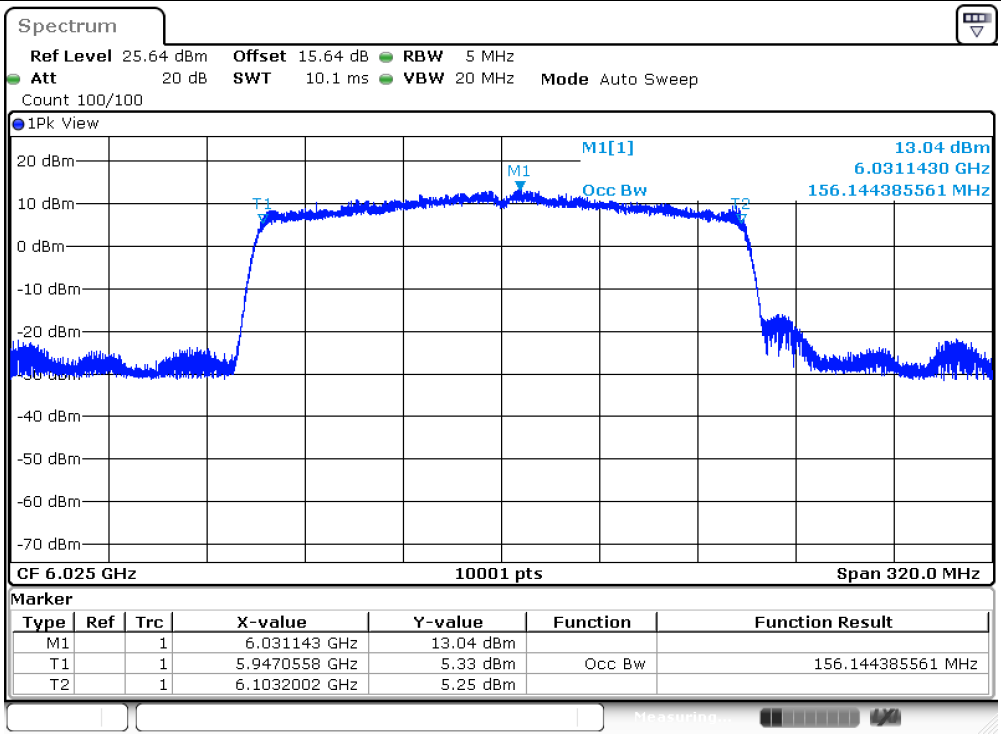

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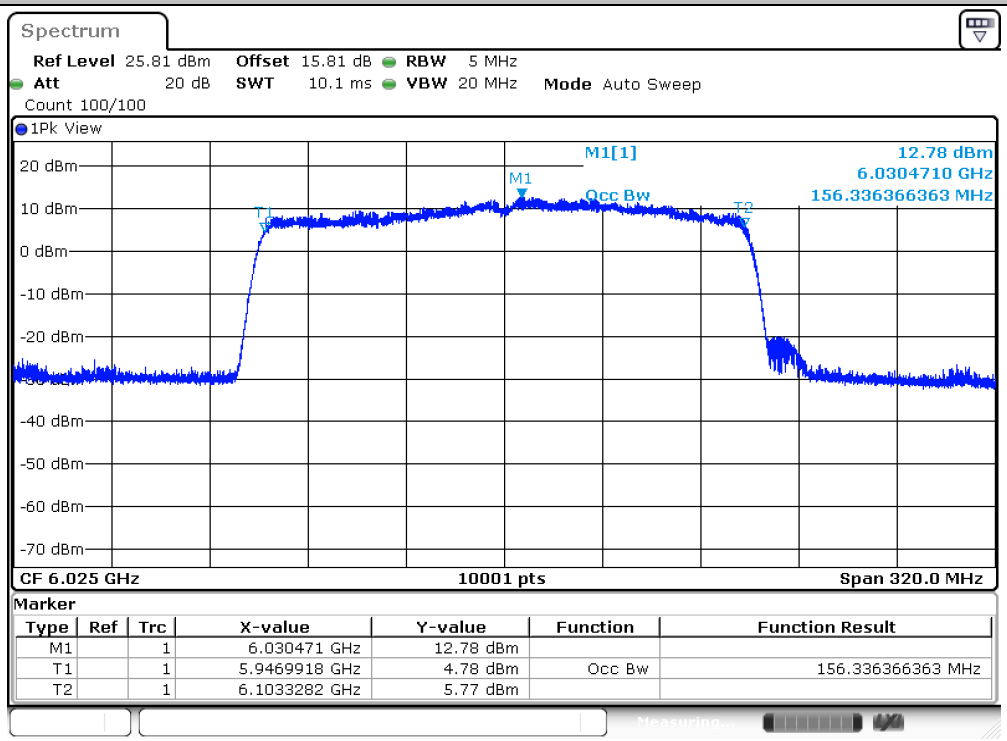

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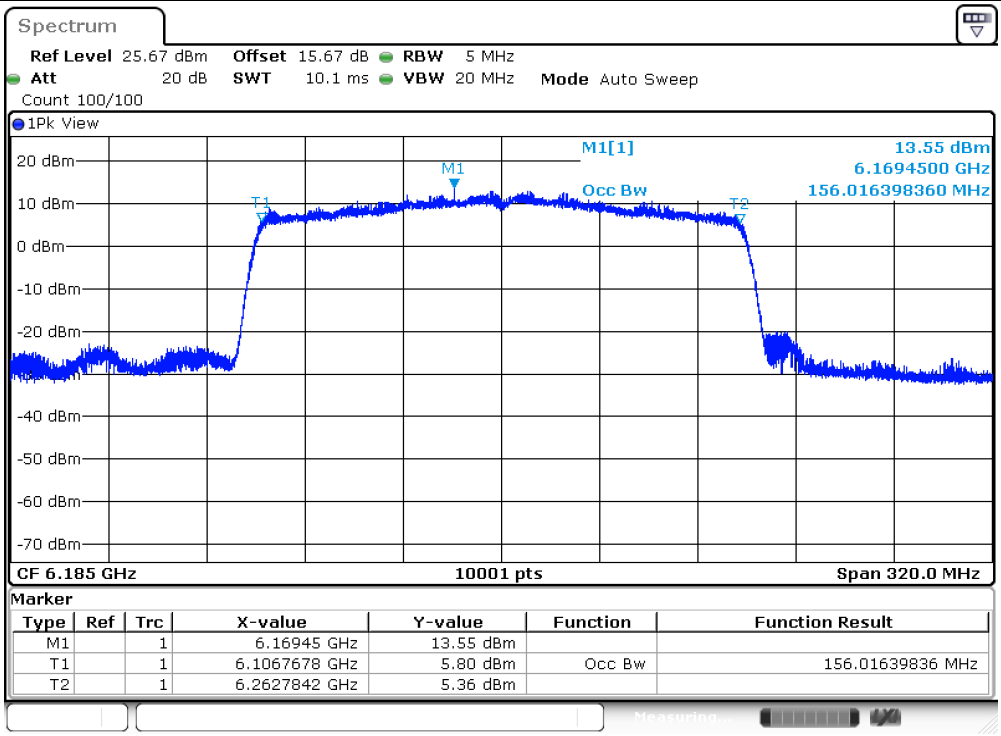

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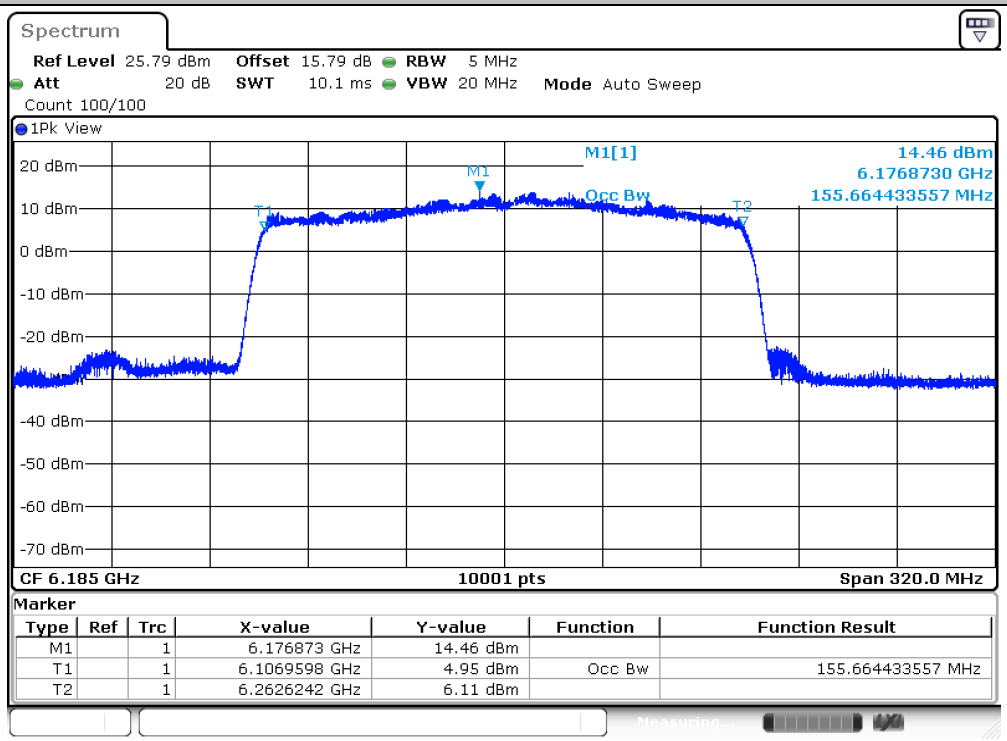

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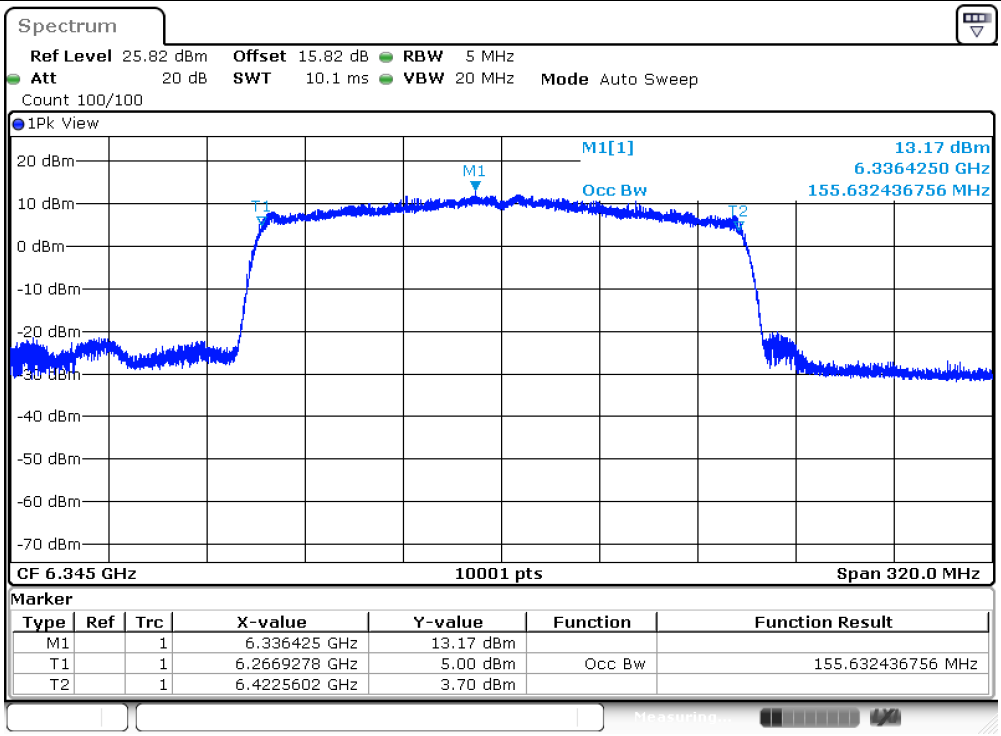

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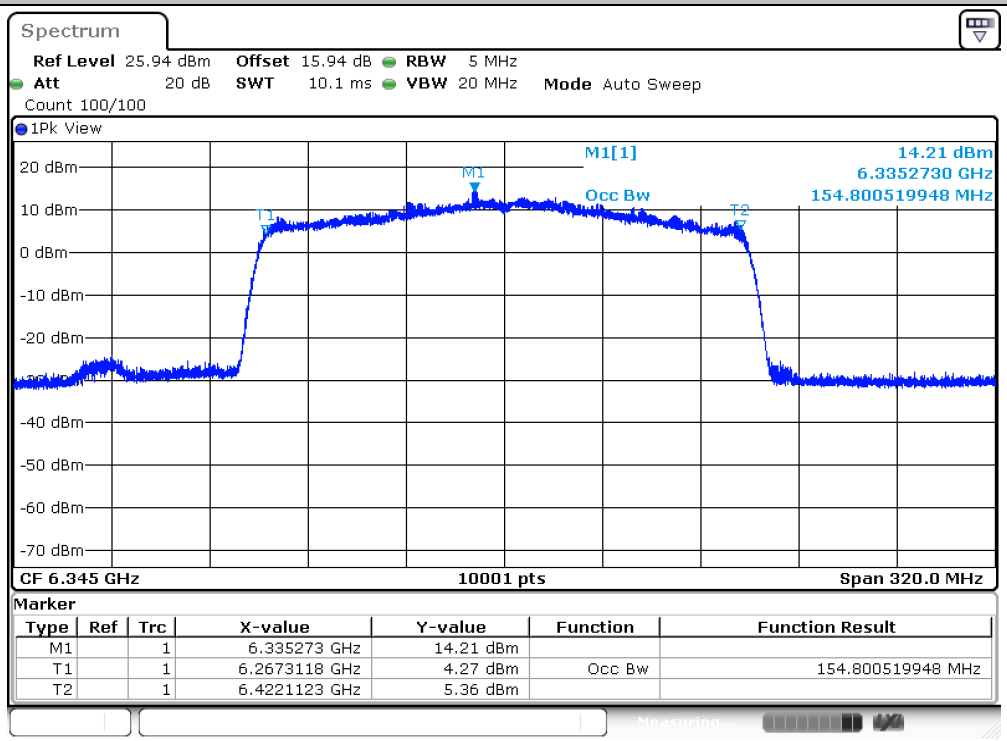

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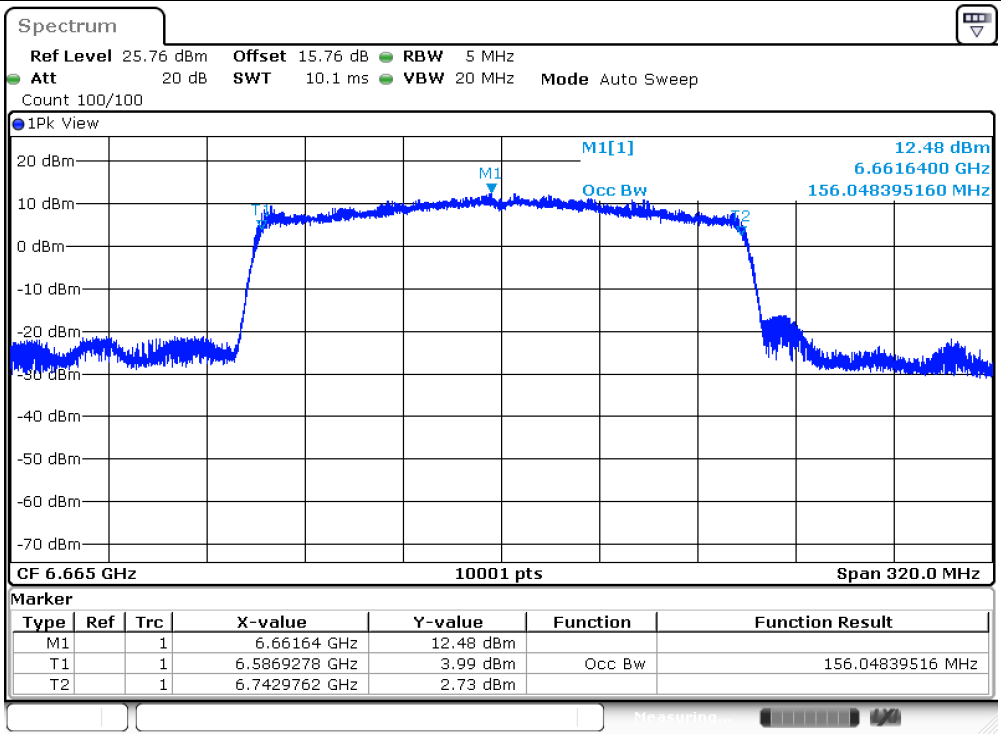

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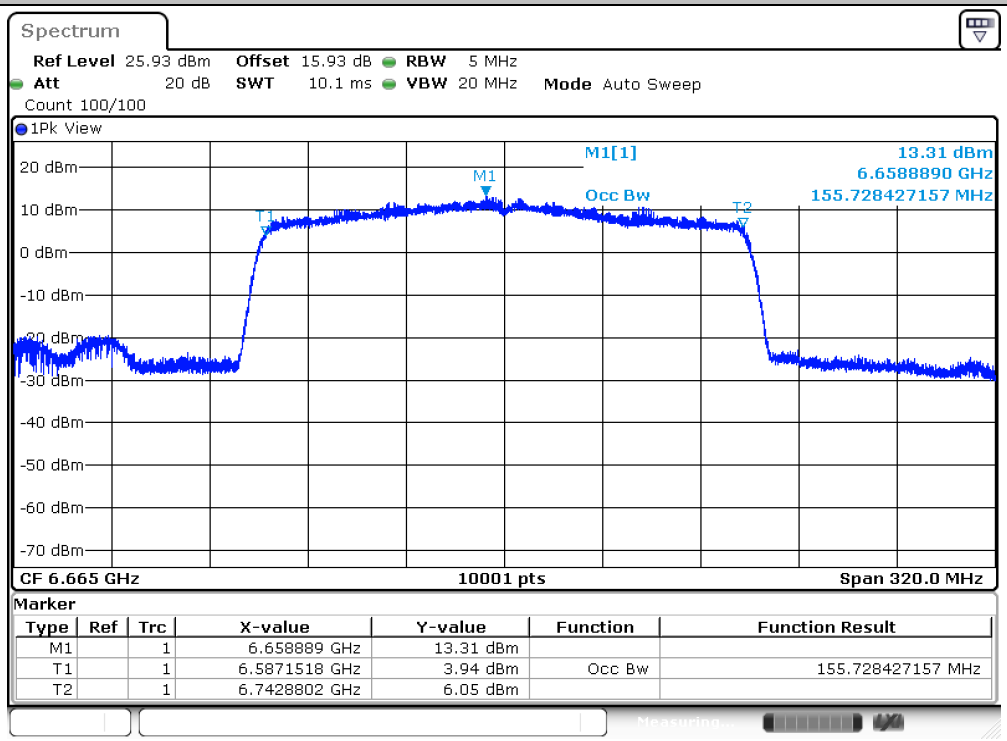

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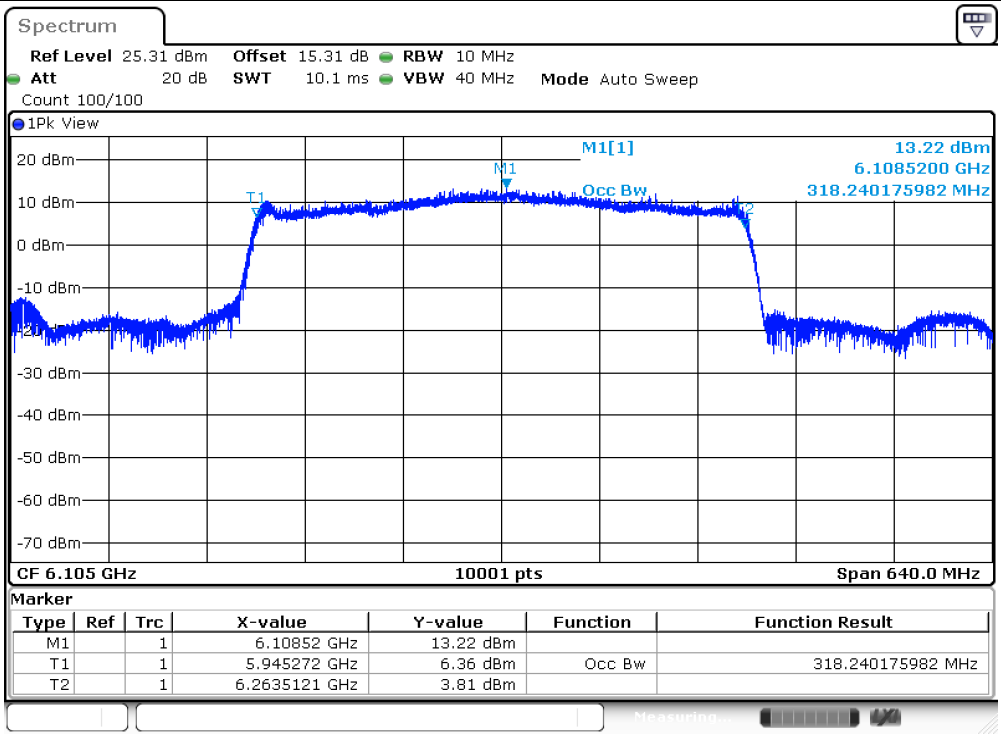

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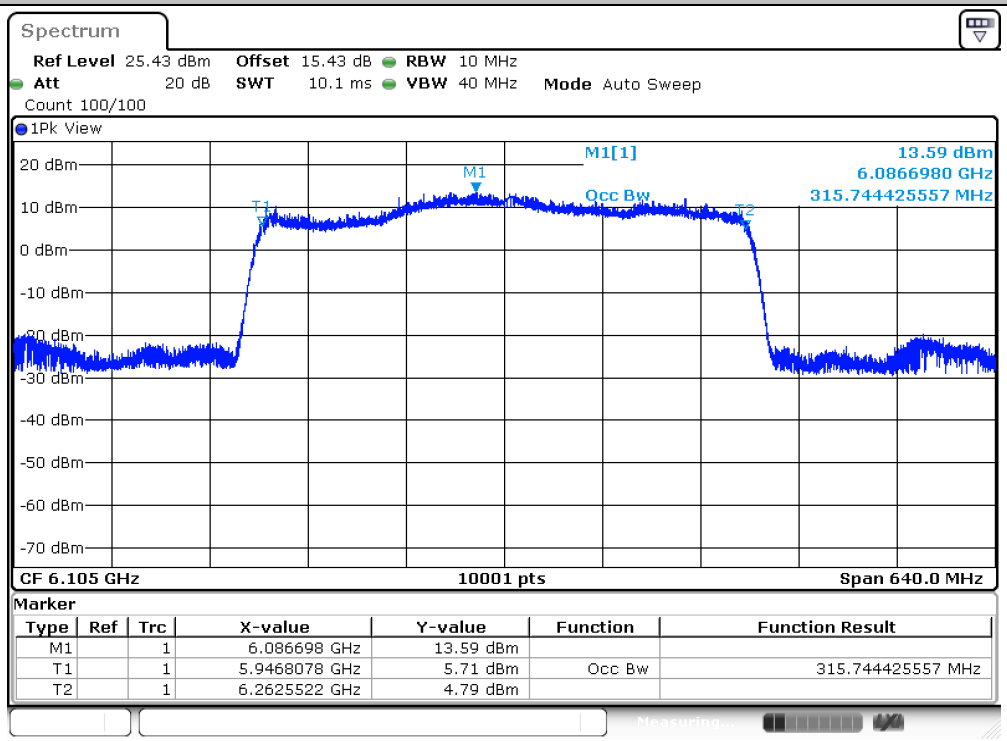

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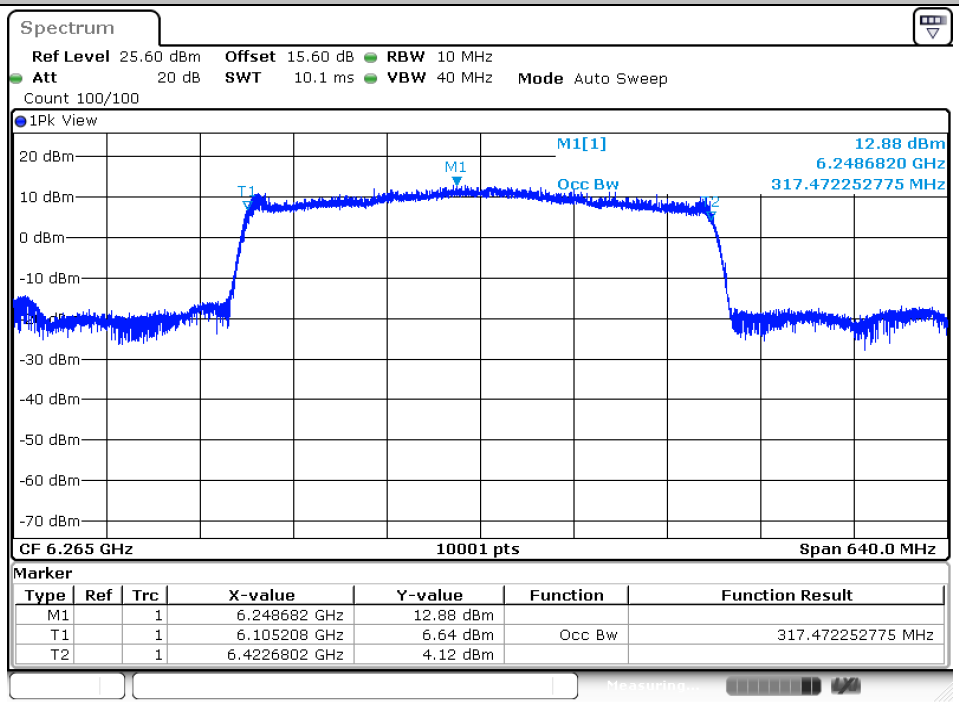

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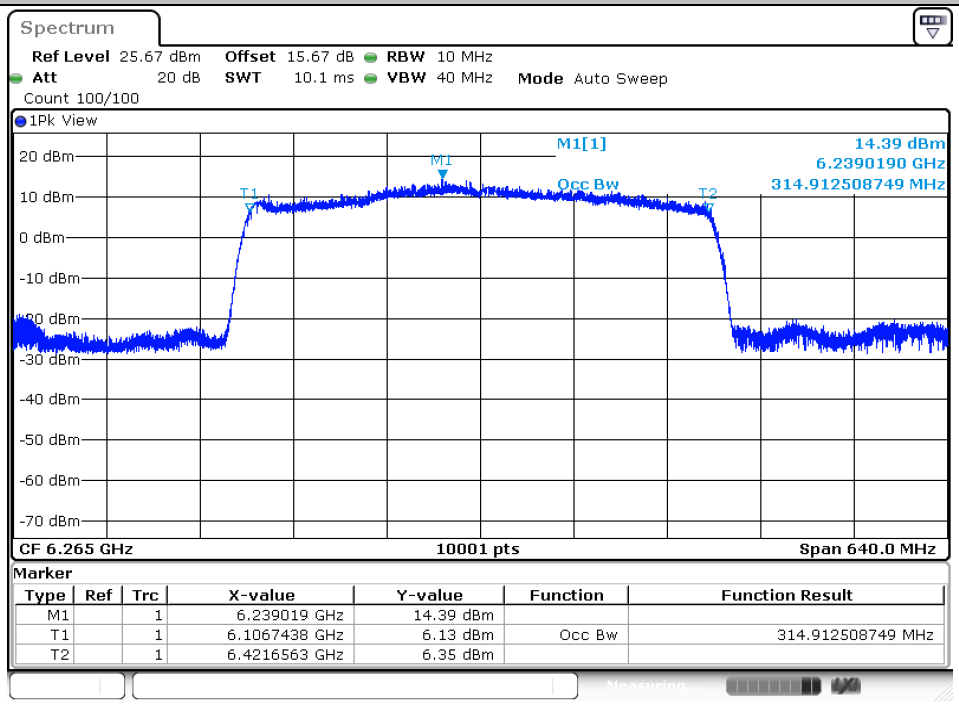


Date: 27.MAY.2025 19:16:11

Maximum power spectral density

Test Result

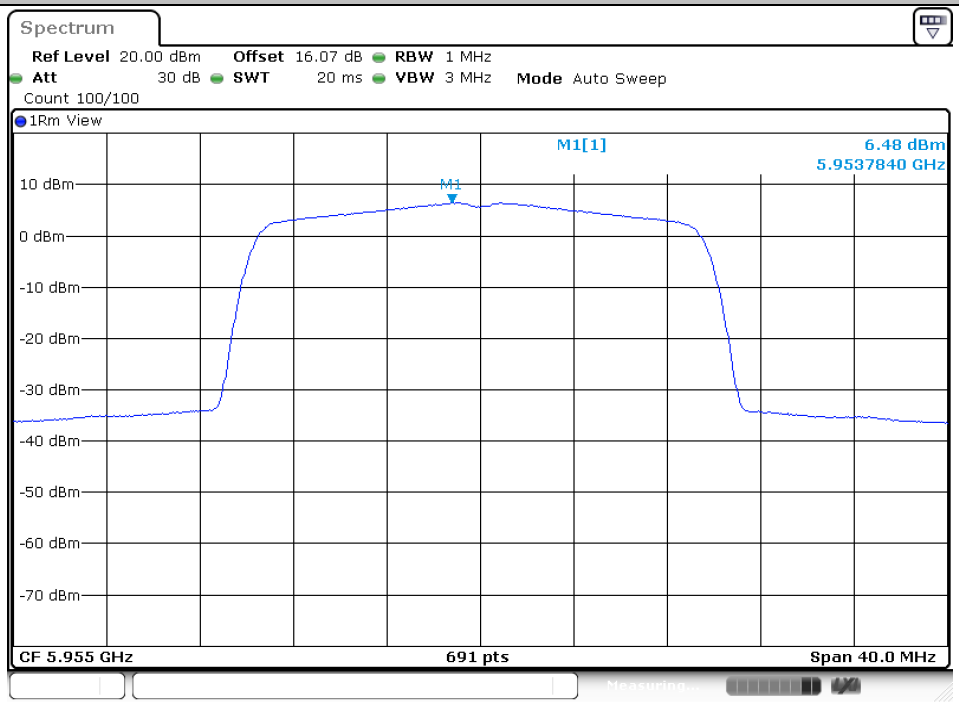
TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Gain [dBi]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11BE20MIMO	Ant6	5955	6.48	-0.50	5.98	≤17.00	PASS
	Ant17	5955	6.70	-0.50	6.20	≤17.00	PASS
	total	5955	9.60	2.51	12.11	≤17.00	PASS
	Ant6	6175	6.65	-0.50	6.15	≤17.00	PASS
	Ant17	6175	6.89	-0.50	6.39	≤17.00	PASS
	total	6175	9.78	2.51	12.29	≤17.00	PASS
	Ant6	6415	6.19	-0.50	5.69	≤17.00	PASS
	Ant17	6415	7.05	-0.50	6.55	≤17.00	PASS
	total	6415	9.65	2.51	12.16	≤17.00	PASS
	Ant6	6535	6.25	-0.70	5.55	≤17.00	PASS
	Ant17	6535	6.99	-0.70	6.29	≤17.00	PASS
	total	6535	9.65	2.31	11.96	≤17.00	PASS
	Ant6	6695	6.55	-0.70	5.85	≤17.00	PASS
	Ant17	6695	6.93	-0.70	6.23	≤17.00	PASS
	total	6695	9.75	2.31	12.06	≤17.00	PASS
	Ant6	6855	6.62	-0.70	5.92	≤17.00	PASS
	Ant17	6855	6.61	-0.70	5.91	≤17.00	PASS
	total	6855	9.63	2.31	11.94	≤17.00	PASS
11BE40MIMO	Ant6	5965	3.05	-0.50	2.55	≤17.00	PASS
	Ant17	5965	2.80	-0.50	2.30	≤17.00	PASS
	total	5965	5.94	2.51	8.45	≤17.00	PASS
	Ant6	6165	3.00	-0.50	2.50	≤17.00	PASS
	Ant17	6165	2.99	-0.50	2.49	≤17.00	PASS
	total	6165	6.01	2.51	8.52	≤17.00	PASS
	Ant6	6405	2.62	-0.50	2.12	≤17.00	PASS
	Ant17	6405	2.98	-0.50	2.48	≤17.00	PASS
	total	6405	5.81	2.51	8.32	≤17.00	PASS
	Ant6	6565	2.97	-0.70	2.27	≤17.00	PASS
	Ant17	6565	2.43	-0.70	1.73	≤17.00	PASS
	total	6565	5.72	2.31	8.03	≤17.00	PASS
	Ant6	6685	2.93	-0.70	2.23	≤17.00	PASS
	Ant17	6685	3.44	-0.70	2.74	≤17.00	PASS
	total	6685	6.20	2.31	8.51	≤17.00	PASS
	Ant6	6845	3.05	-0.70	2.35	≤17.00	PASS
	Ant17	6845	2.79	-0.70	2.09	≤17.00	PASS
	total	6845	5.93	2.31	8.24	≤17.00	PASS
11BE80MIMO	Ant6	5985	-0.67	-0.50	-1.17	≤17.00	PASS
	Ant17	5985	-1.60	-0.50	-2.10	≤17.00	PASS
	total	5985	1.90	2.51	4.41	≤17.00	PASS
	Ant6	6145	-0.74	-0.50	-1.24	≤17.00	PASS
	Ant17	6145	-0.92	-0.50	-1.42	≤17.00	PASS
	total	6145	2.18	2.51	4.69	≤17.00	PASS
	Ant6	6385	-1.20	-0.50	-1.70	≤17.00	PASS

	Ant17	6385	-0.73	-0.50	-1.23	≤17.00	PASS
	total	6385	2.05	2.51	4.56	≤17.00	PASS
	Ant6	6625	-1.25	-0.70	-1.95	≤17.00	PASS
	Ant17	6625	-1.35	-0.70	-2.05	≤17.00	PASS
	total	6625	1.71	2.31	4.02	≤17.00	PASS
	Ant6	6705	-0.94	-0.70	-1.64	≤17.00	PASS
	Ant17	6705	-1.78	-0.70	-2.48	≤17.00	PASS
	total	6705	1.67	2.31	3.98	≤17.00	PASS
	Ant6	6785	-1.31	-0.70	-2.01	≤17.00	PASS
	Ant17	6785	-1.52	-0.70	-2.22	≤17.00	PASS
	total	6785	1.60	2.31	3.91	≤17.00	PASS
11BE160MIMO	Ant6	6025	-4.71	-0.50	-5.21	≤17.00	PASS
	Ant17	6025	-5.31	-0.50	-5.81	≤17.00	PASS
	total	6025	-1.99	2.51	0.52	≤17.00	PASS
	Ant6	6185	-5.10	-0.50	-5.60	≤17.00	PASS
	Ant17	6185	-4.21	-0.50	-4.71	≤17.00	PASS
	total	6185	-1.62	2.51	0.89	≤17.00	PASS
	Ant6	6345	-5.20	-0.50	-5.70	≤17.00	PASS
	Ant17	6345	-4.49	-0.50	-4.99	≤17.00	PASS
	total	6345	-1.82	2.51	0.69	≤17.00	PASS
	Ant6	6665	-5.48	-0.70	-6.18	≤17.00	PASS
	Ant17	6665	-5.17	-0.70	-5.87	≤17.00	PASS
	total	6665	-2.31	2.31	0.00	≤17.00	PASS
11BE320MIMO	Ant6	6105	-8.09	-0.50	-8.59	≤17.00	PASS
	Ant17	6105	-7.95	-0.50	-8.45	≤17.00	PASS
	total	6105	-5.01	2.51	-2.50	≤17.00	PASS
	Ant6	6265	-8.42	-0.50	-8.92	≤17.00	PASS
	Ant17	6265	-7.98	-0.50	-8.48	≤17.00	PASS
	total	6265	-5.18	2.51	-2.67	≤17.00	PASS

Note：The Duty Cycle Factor and is compensated in the graph.

Test Graphs

11BE20MIMO_Ant6_5955



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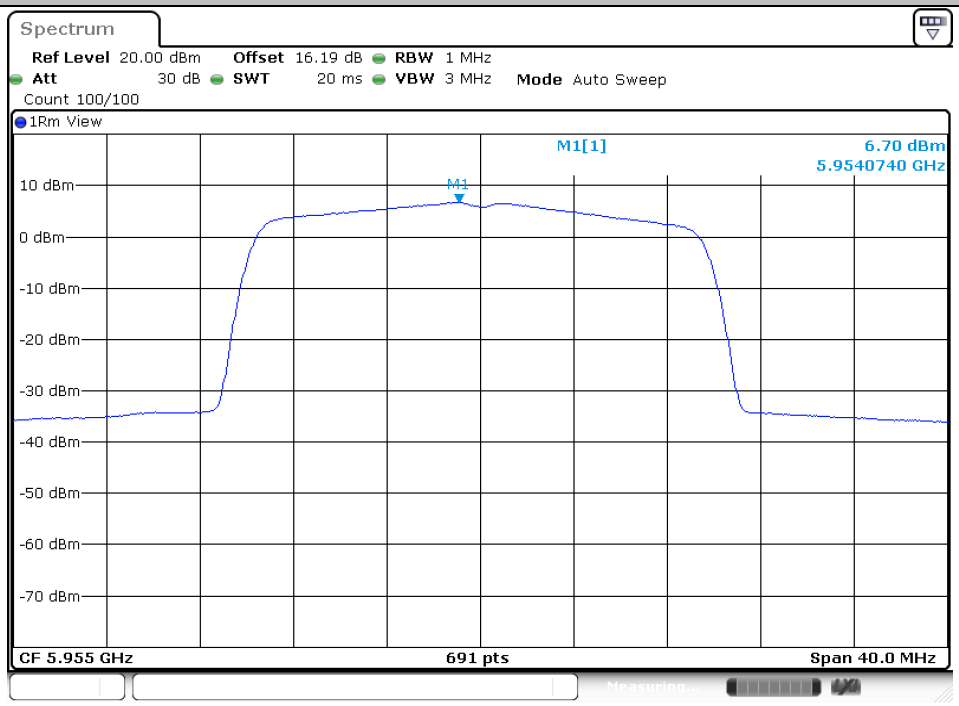
11BE20MIMO_Ant17_5955



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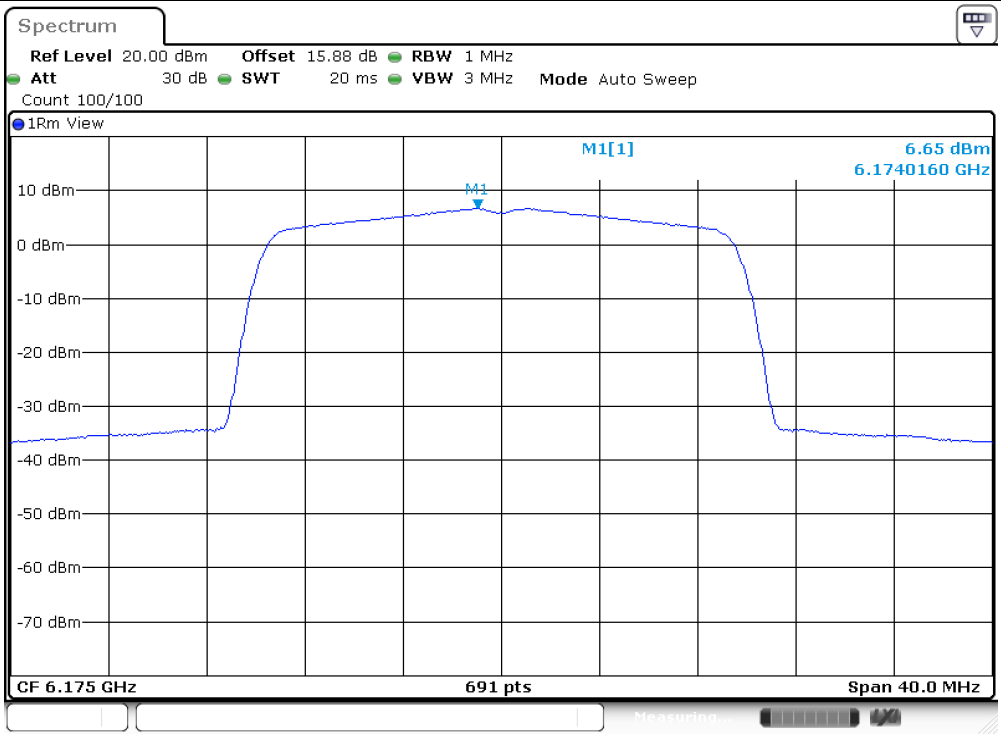

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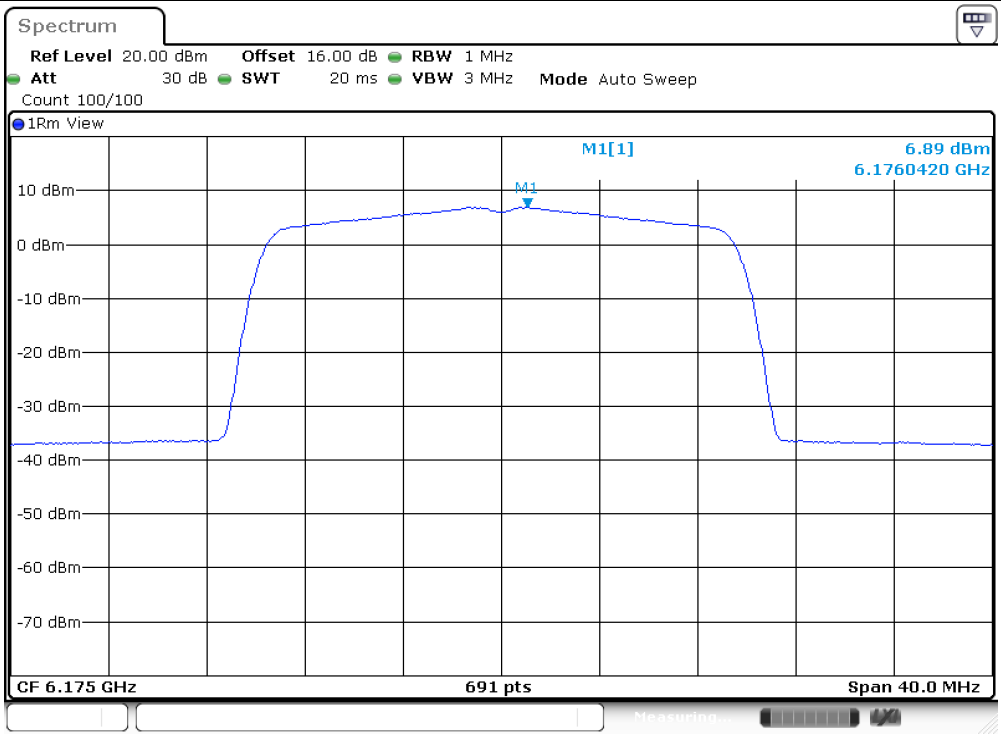

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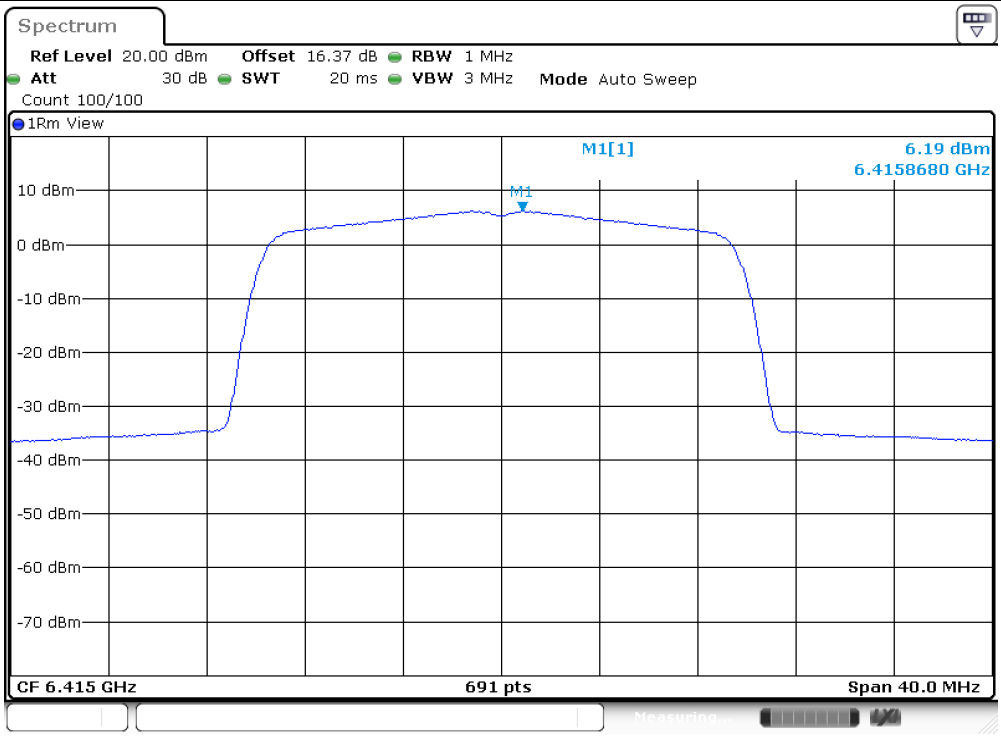

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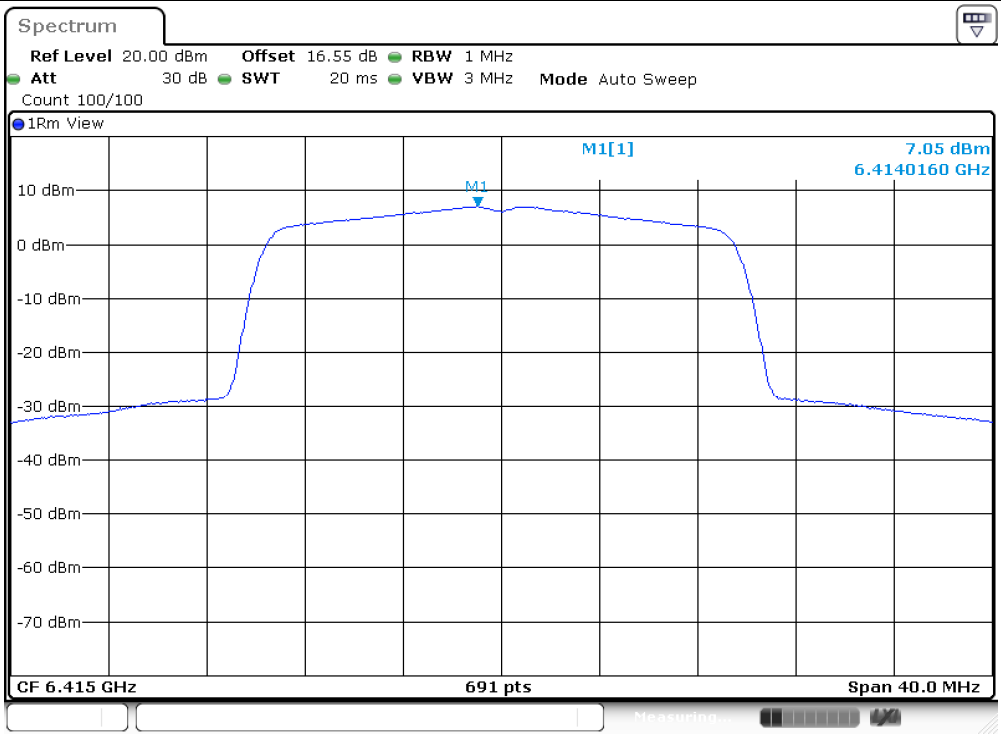

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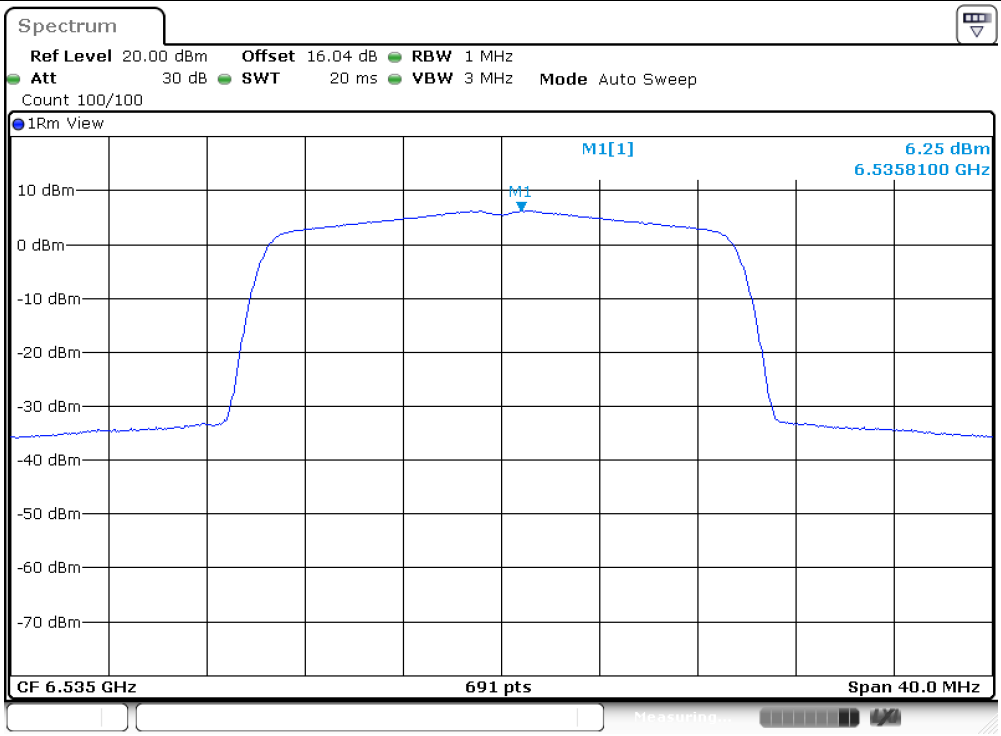

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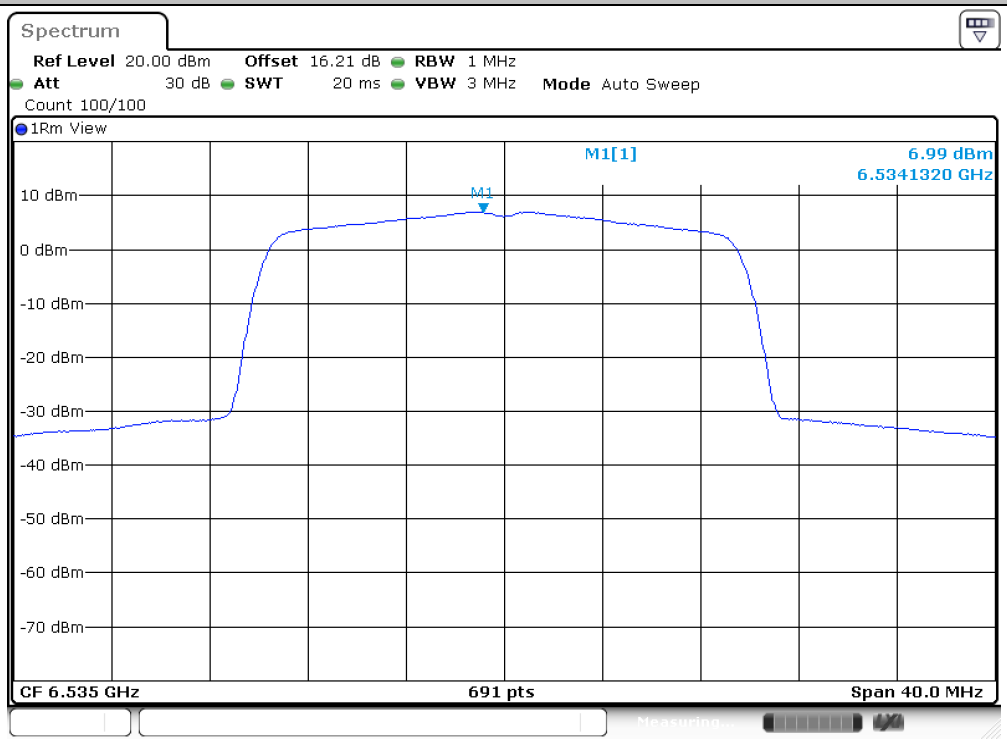

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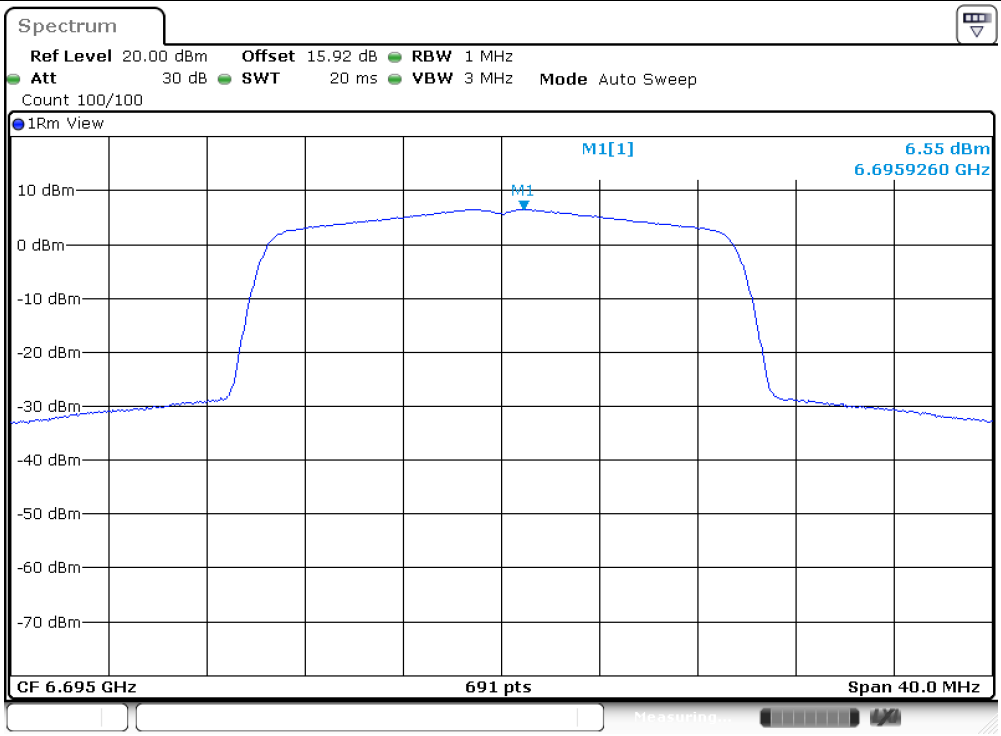

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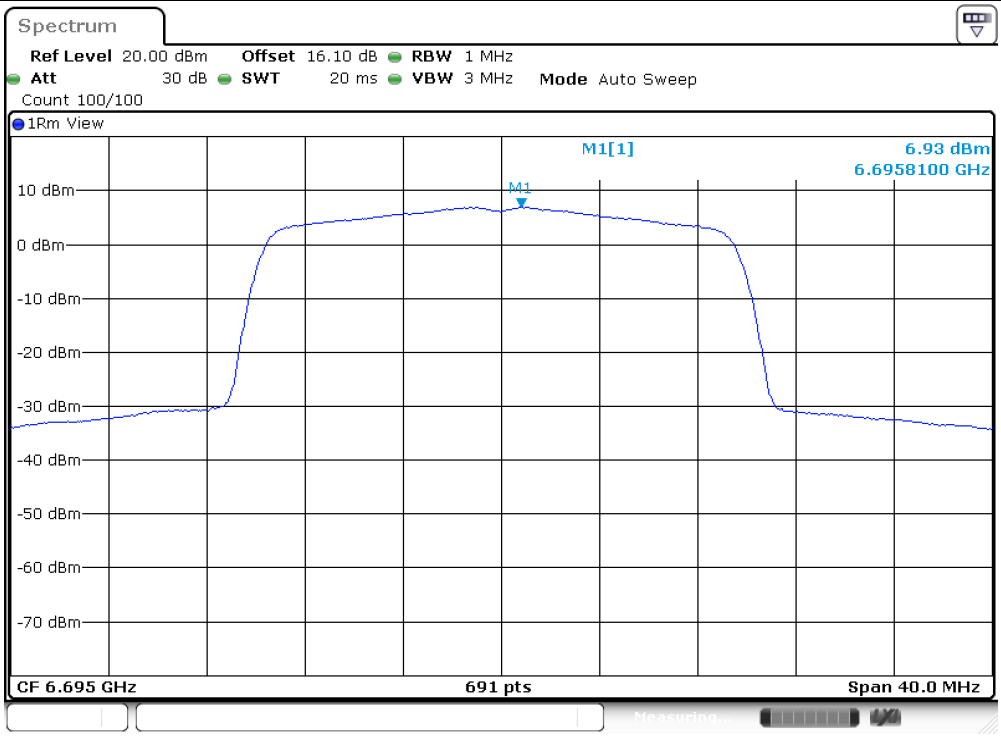
11BE20MIMO_Ant17_6695



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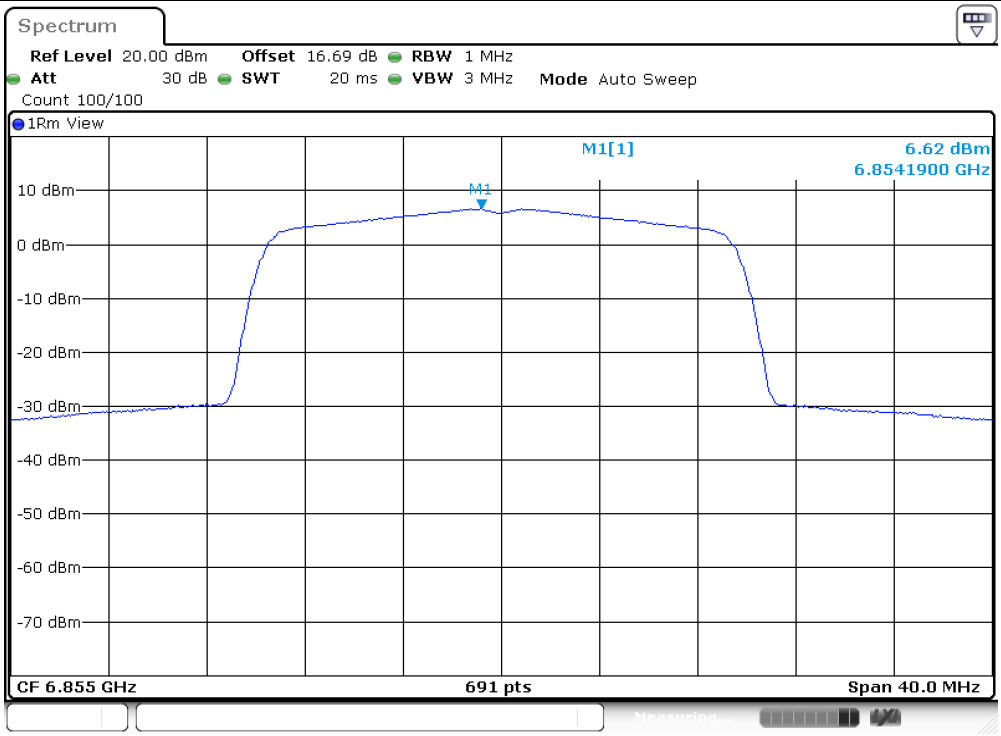

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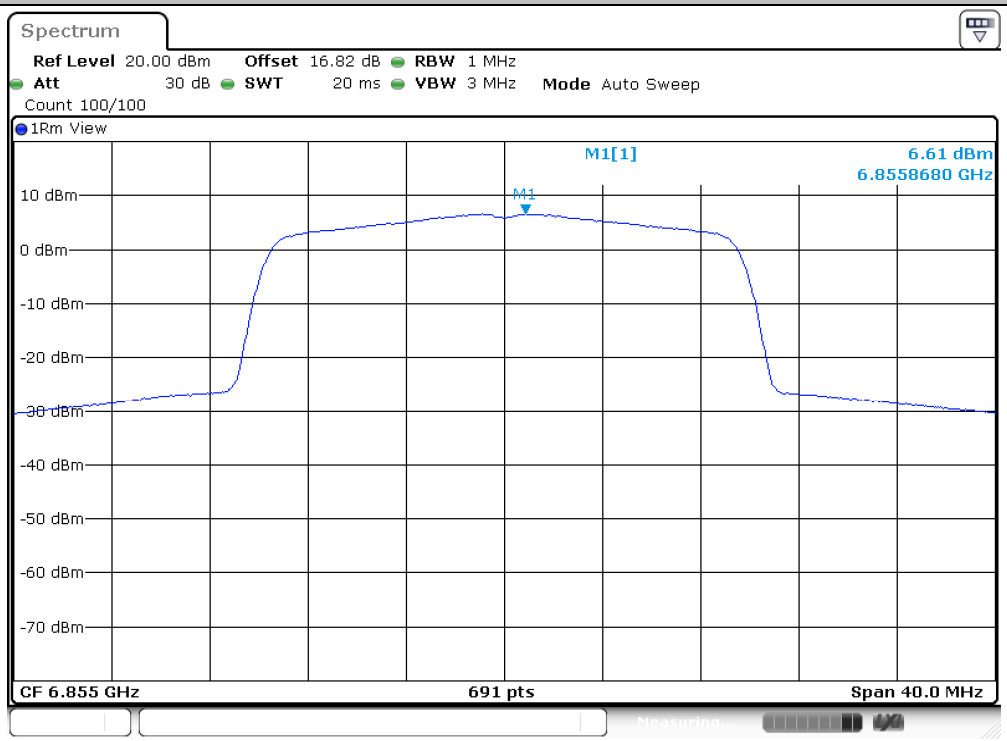

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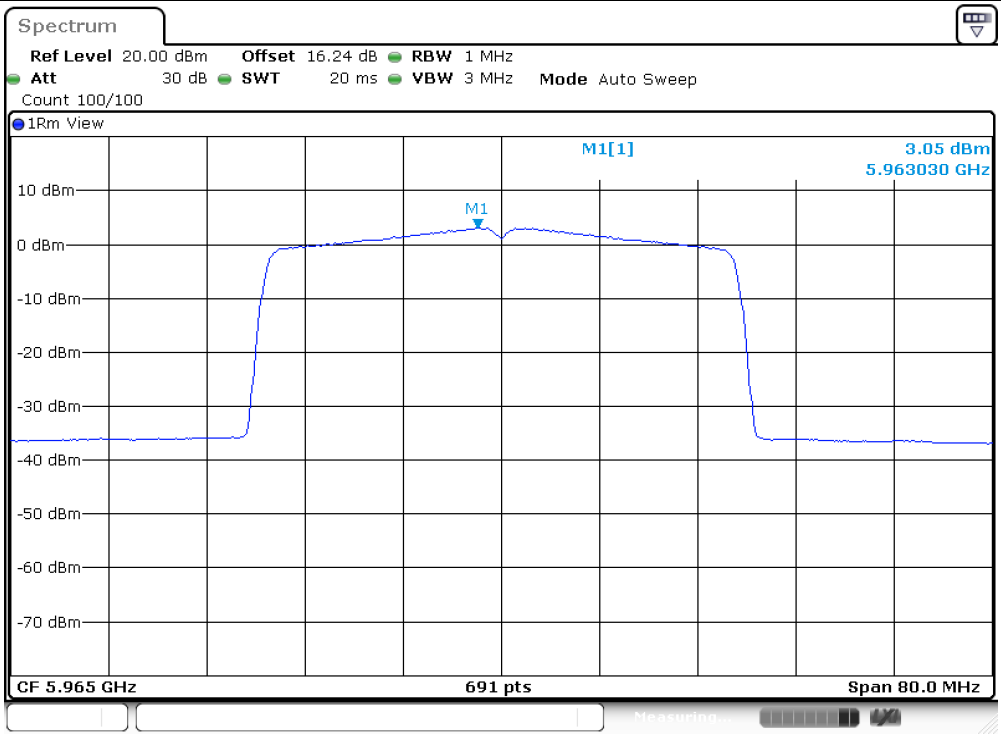

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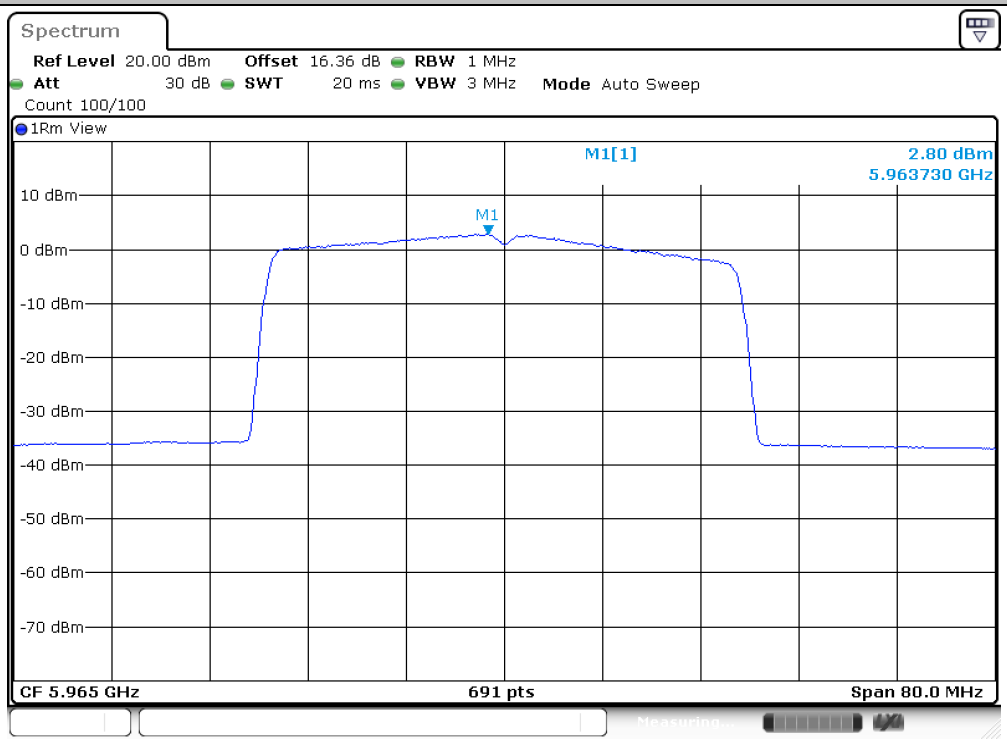

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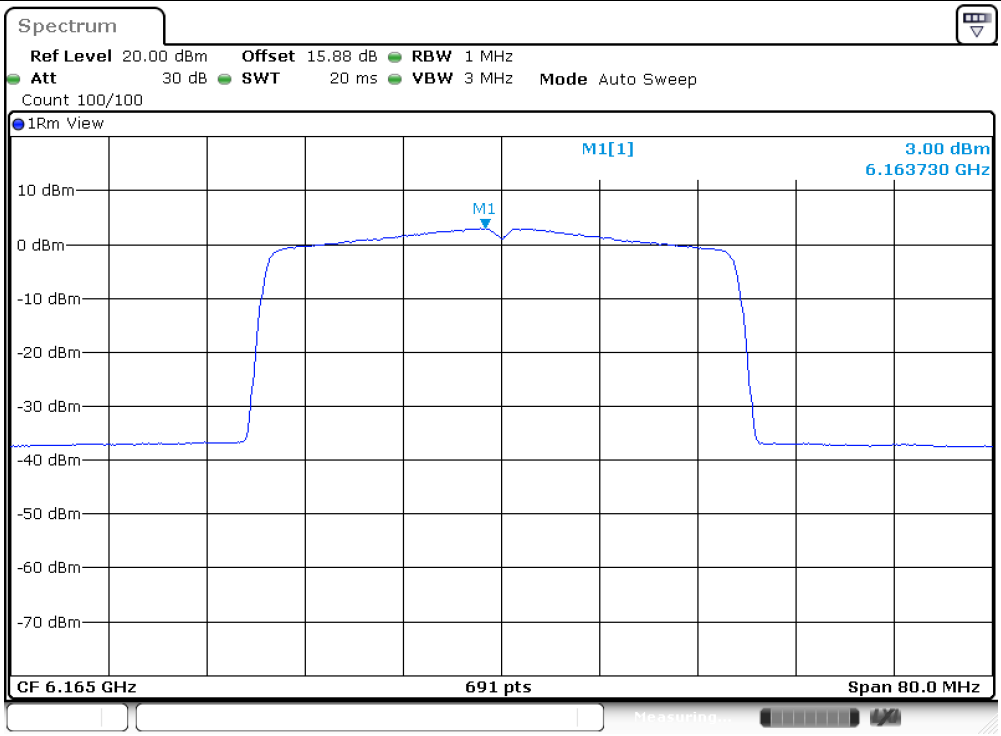

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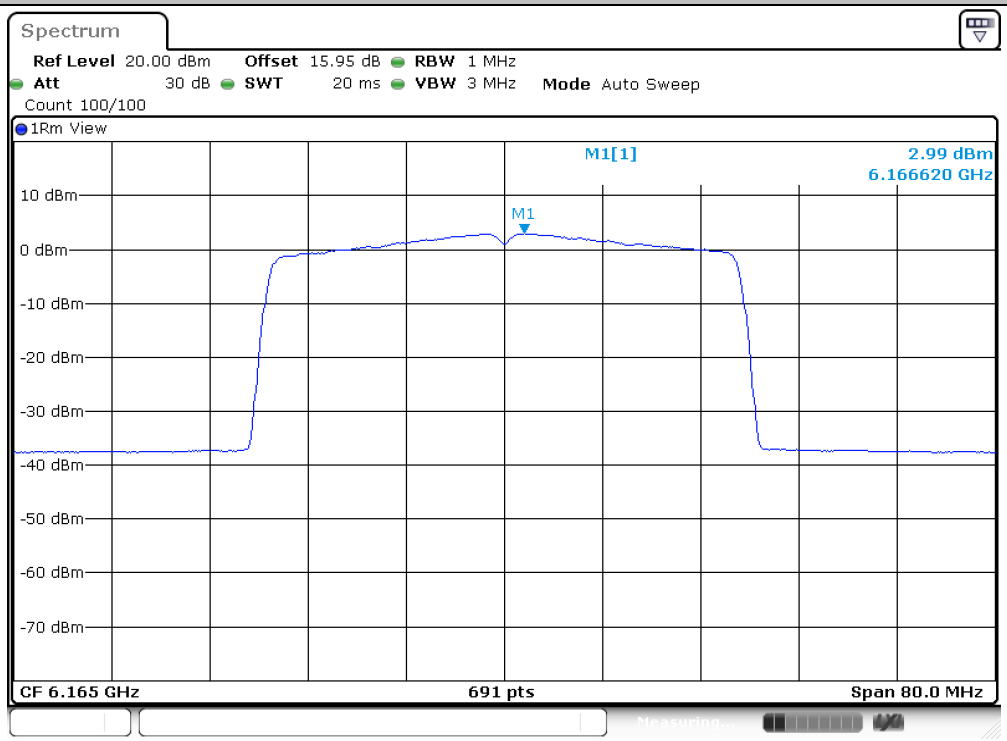

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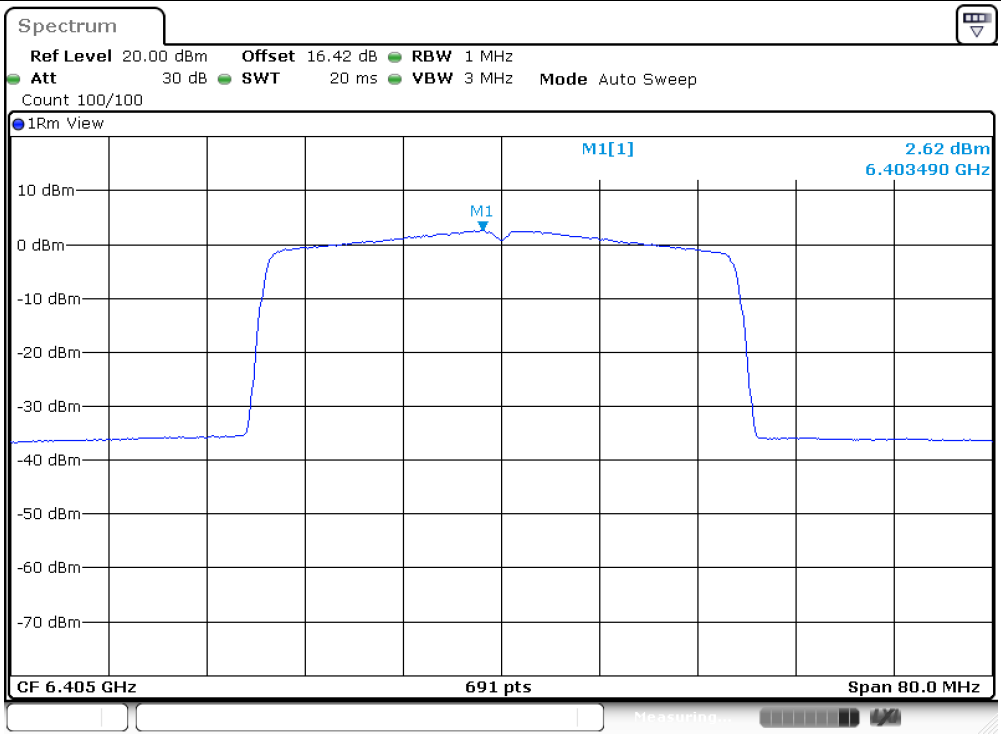
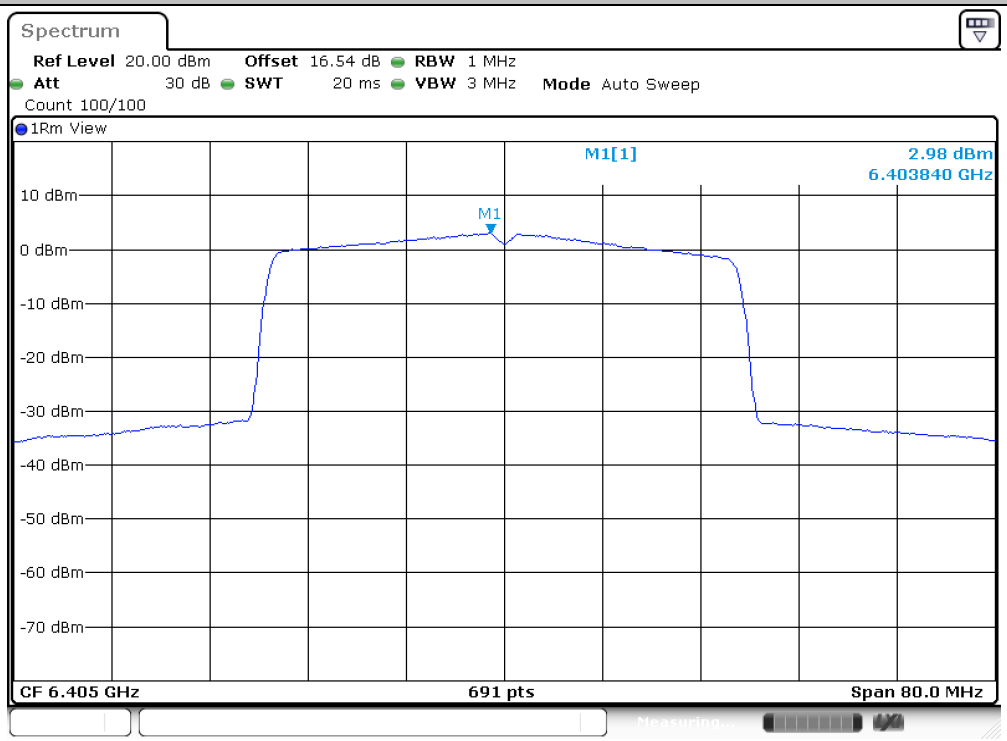
11BE40MIMO_Ant6_6405



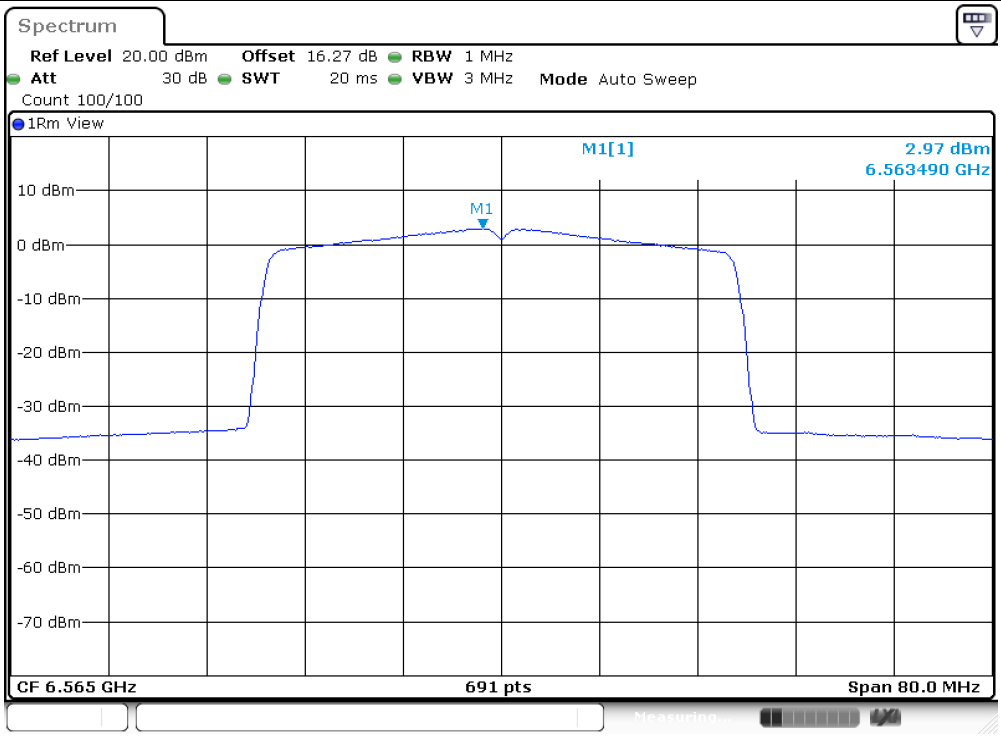
Date: 27.MAY.2025 17:23:25

11BE40MIMO_Ant17_6405



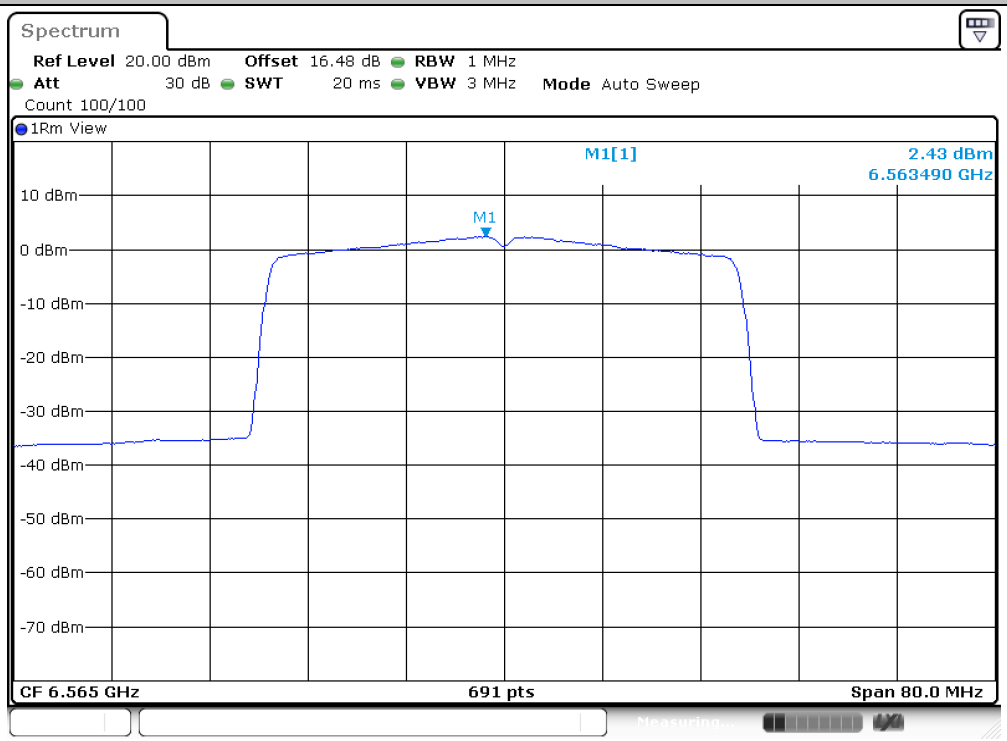
Date: 27.MAY.2025 17:24:56

11BE40MIMO_Ant6_6565



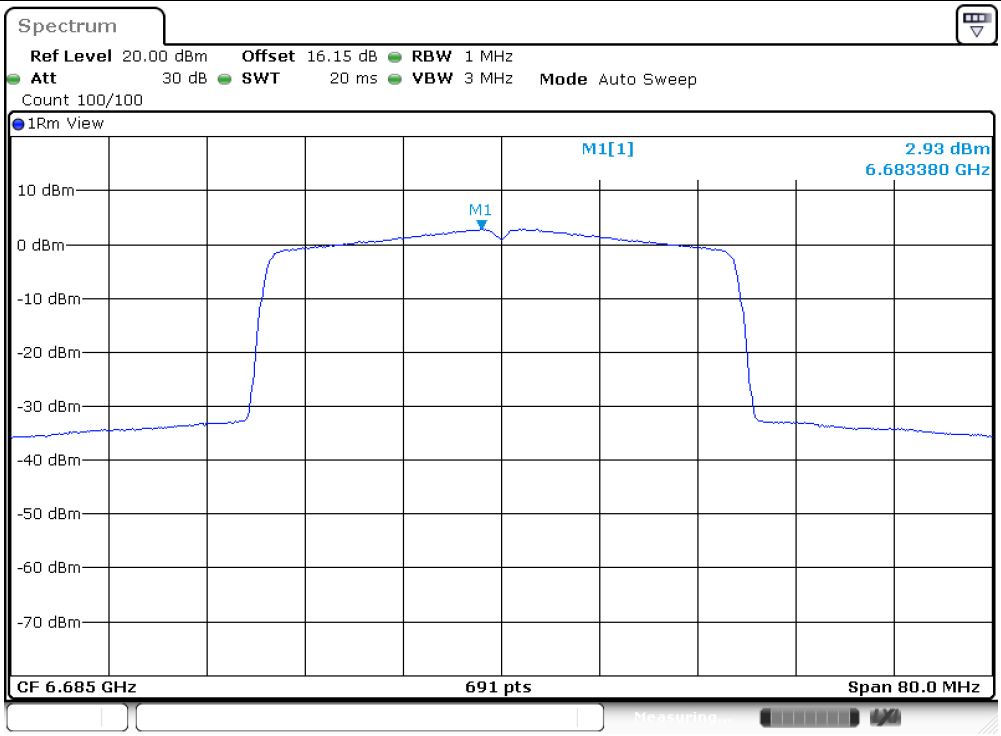
Date: 27.MAY.2025 17:27:57

11BE40MIMO_Ant17_6565



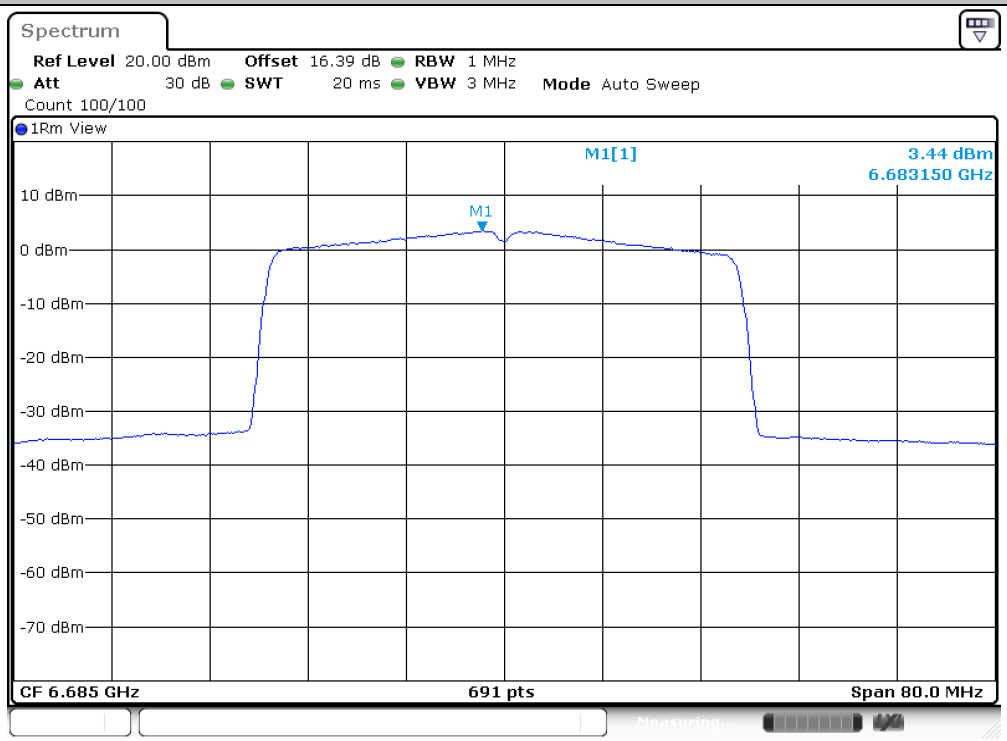
Date: 27.MAY.2025 17:30:30

11BE40MIMO_Ant6_6685



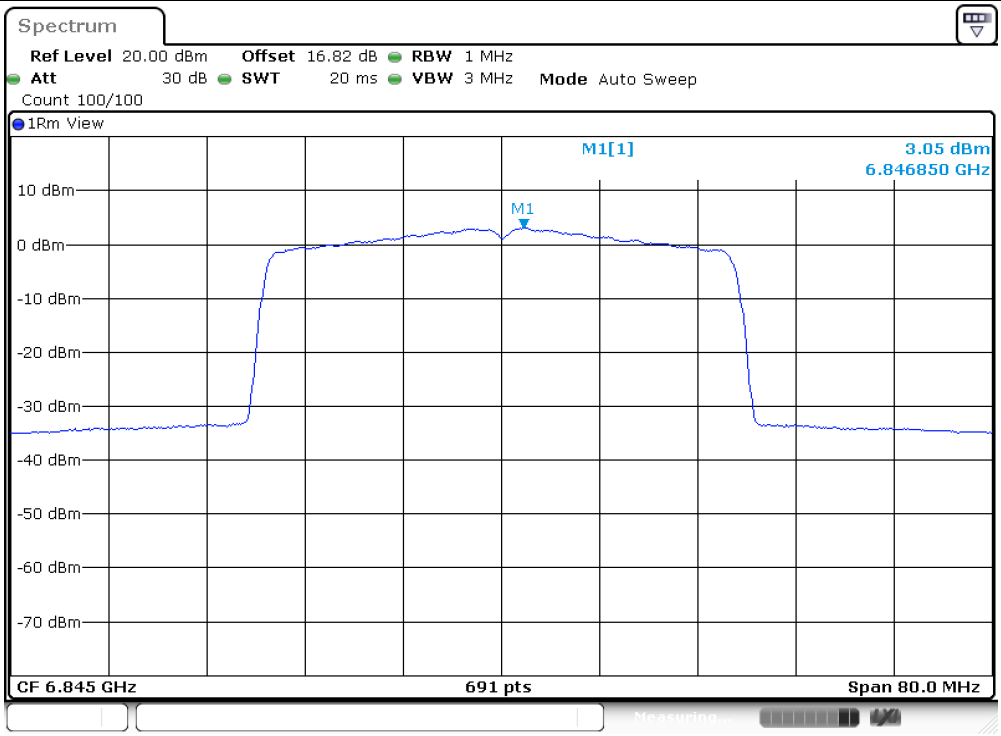
Date: 27.MAY.2025 17:43:48

11BE40MIMO_Ant17_6685



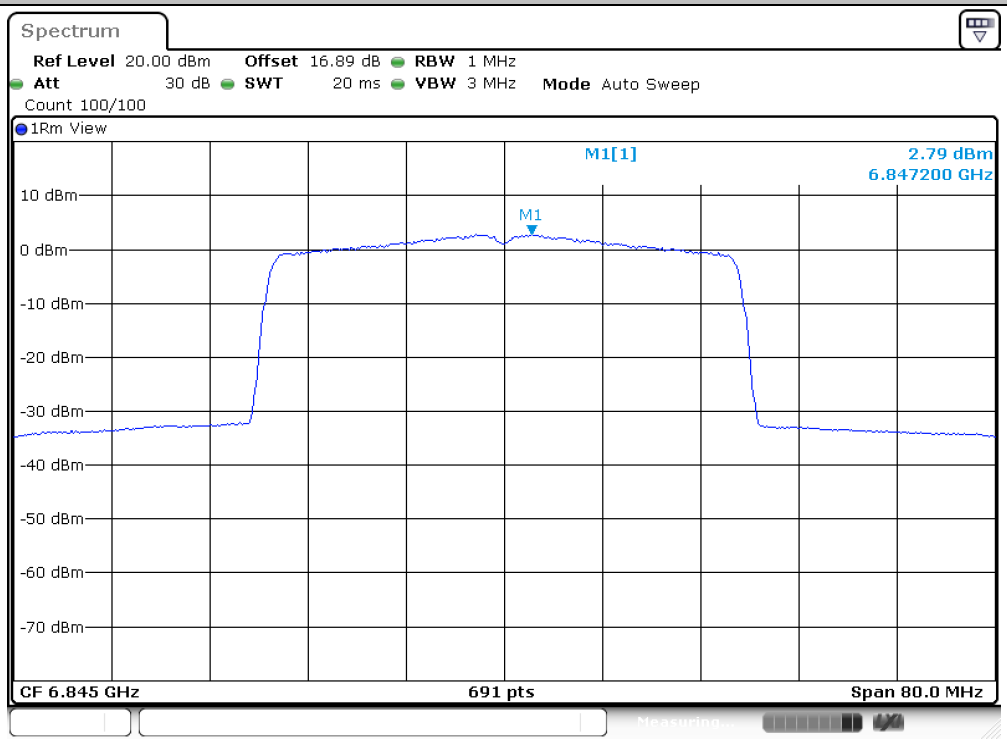
Date: 27.MAY.2025 17:45:43

11BE40MIMO_Ant6_6845



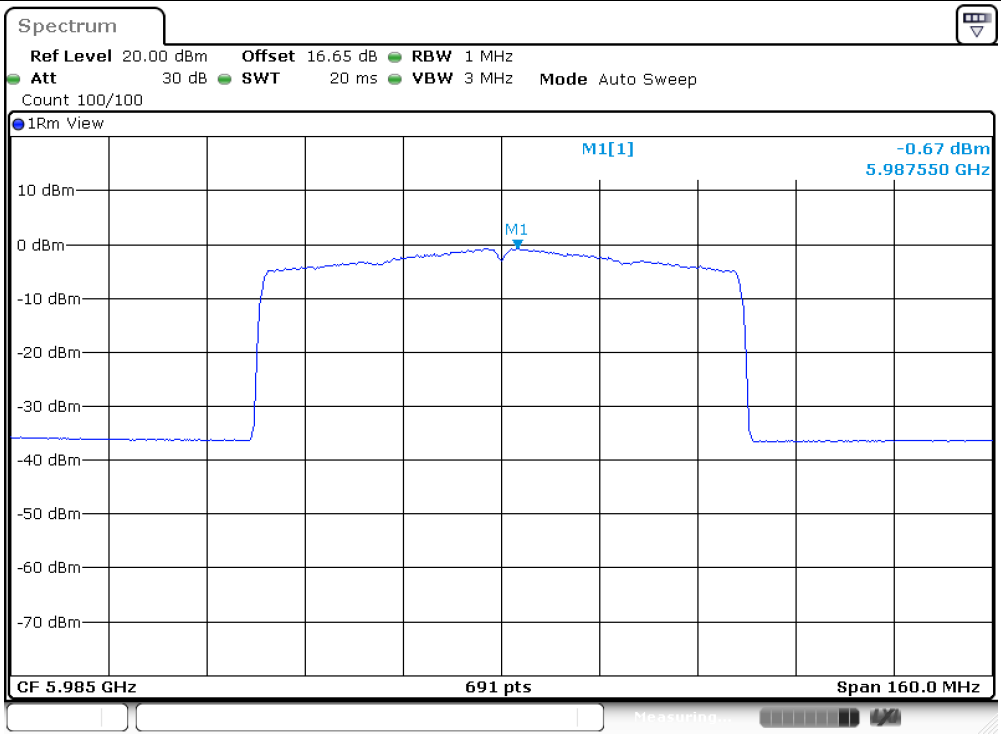
Date: 27.MAY.2025 17:47:38

11BE40MIMO_Ant17_6845



Date: 27.MAY.2025 17:49:07

11BE80MIMO_Ant6_5985



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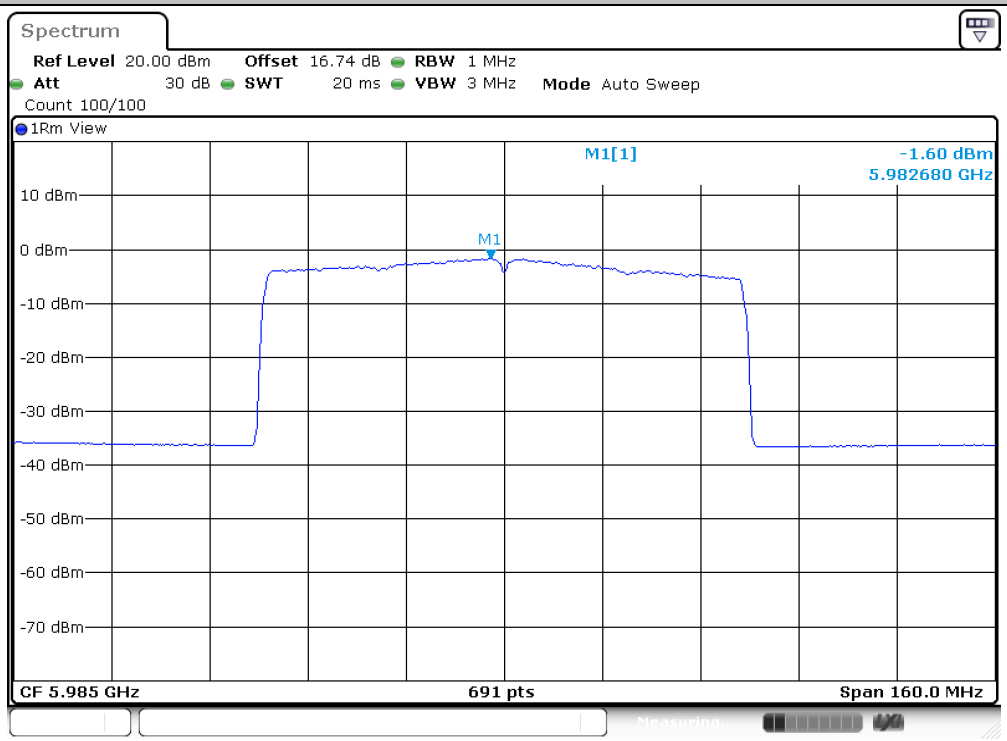

Date: 27.MAY.2025 17:52:58

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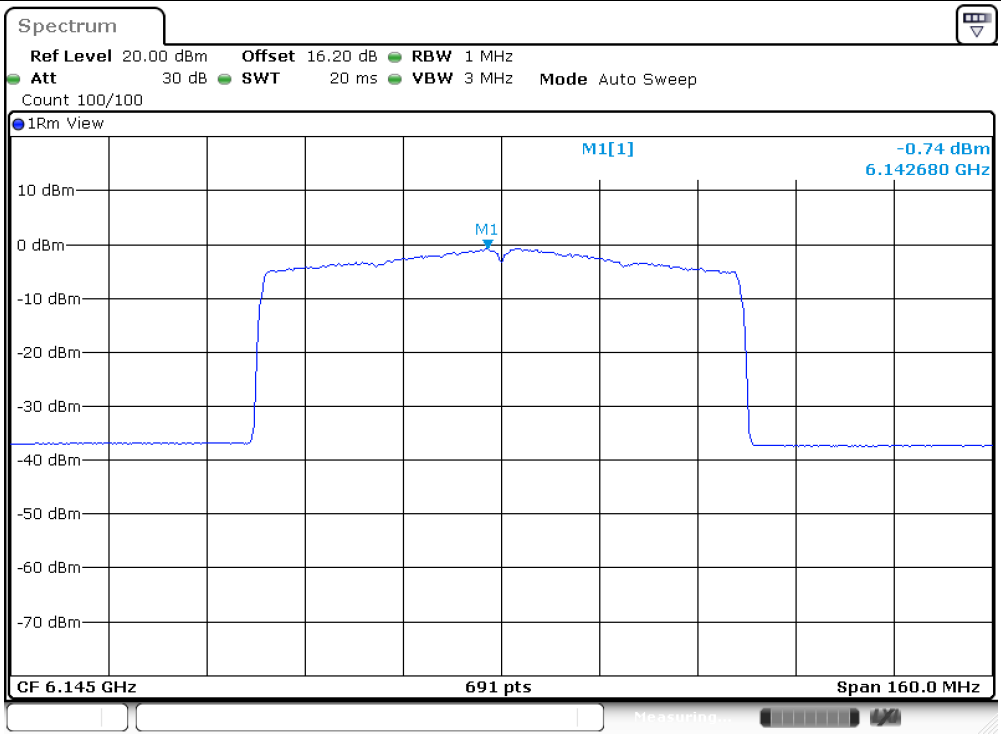

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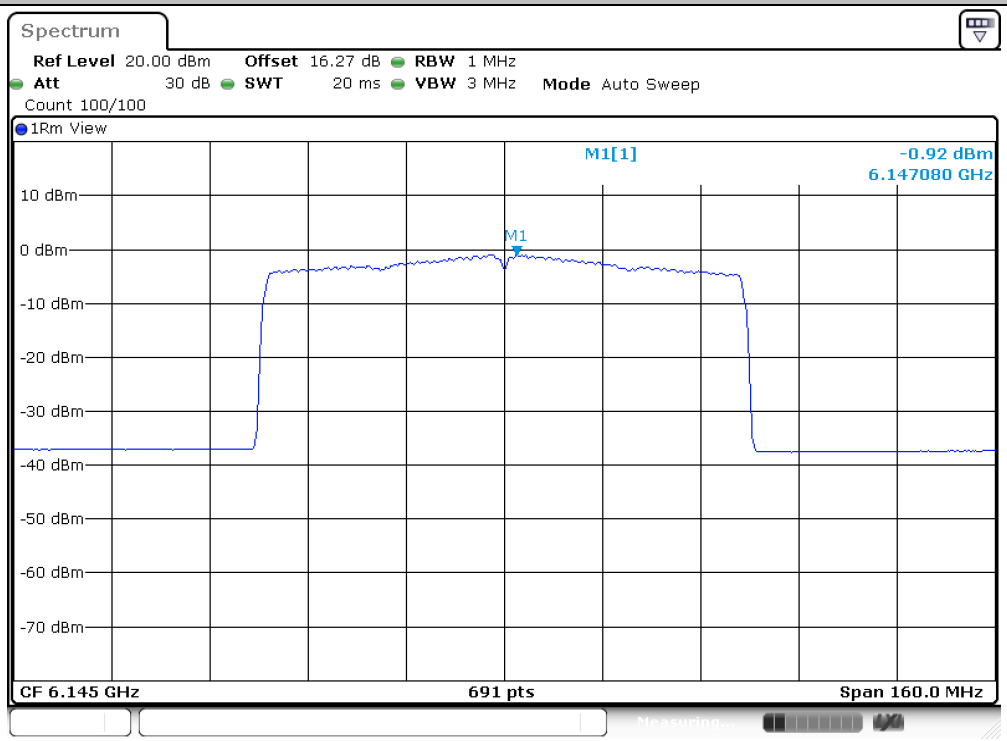

Date: 27.MAY.2025 18:02:09

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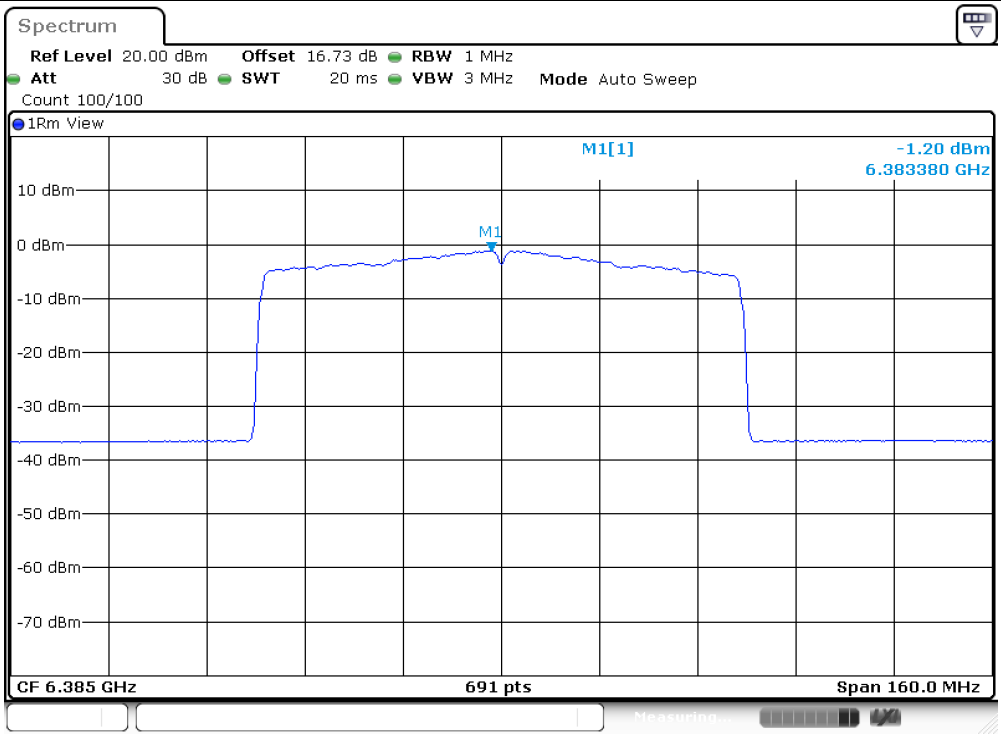

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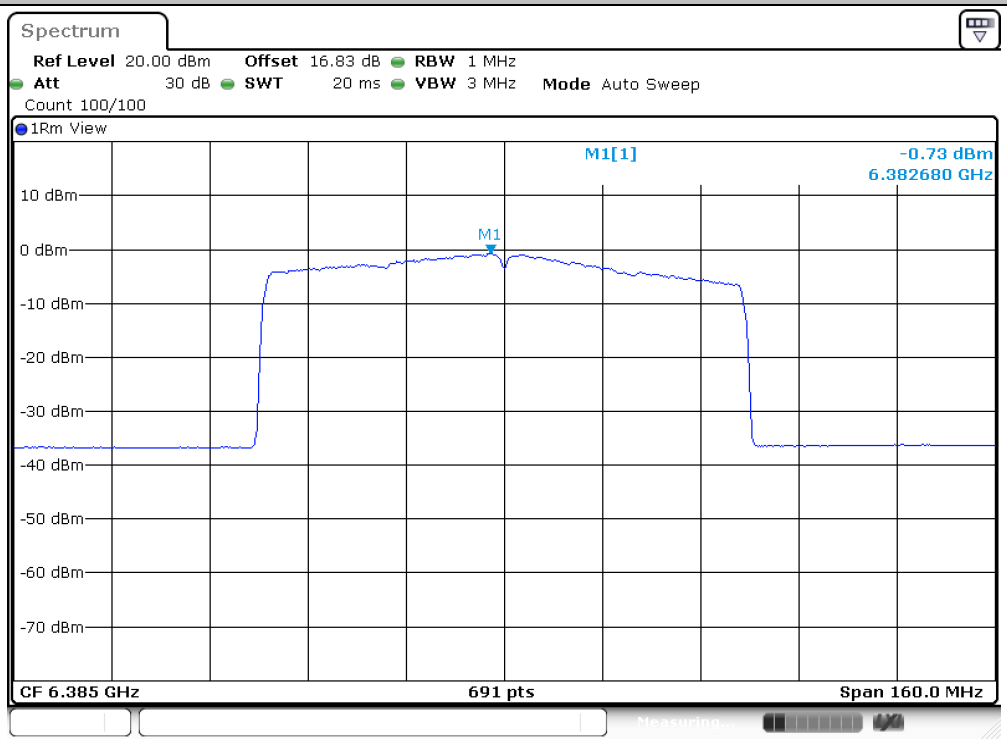

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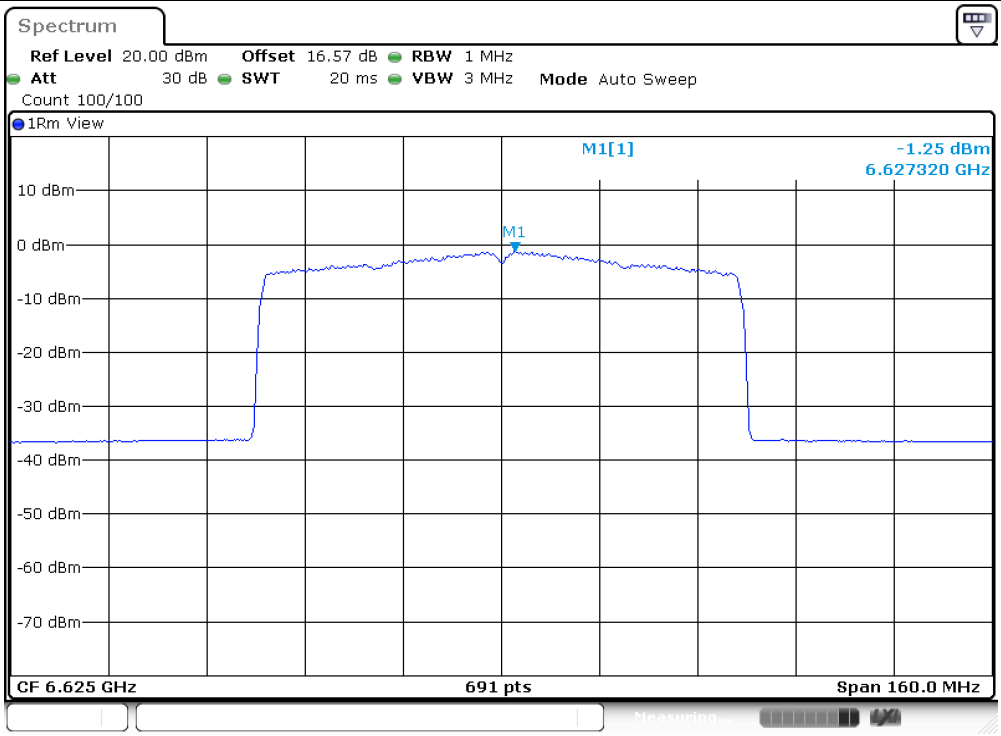

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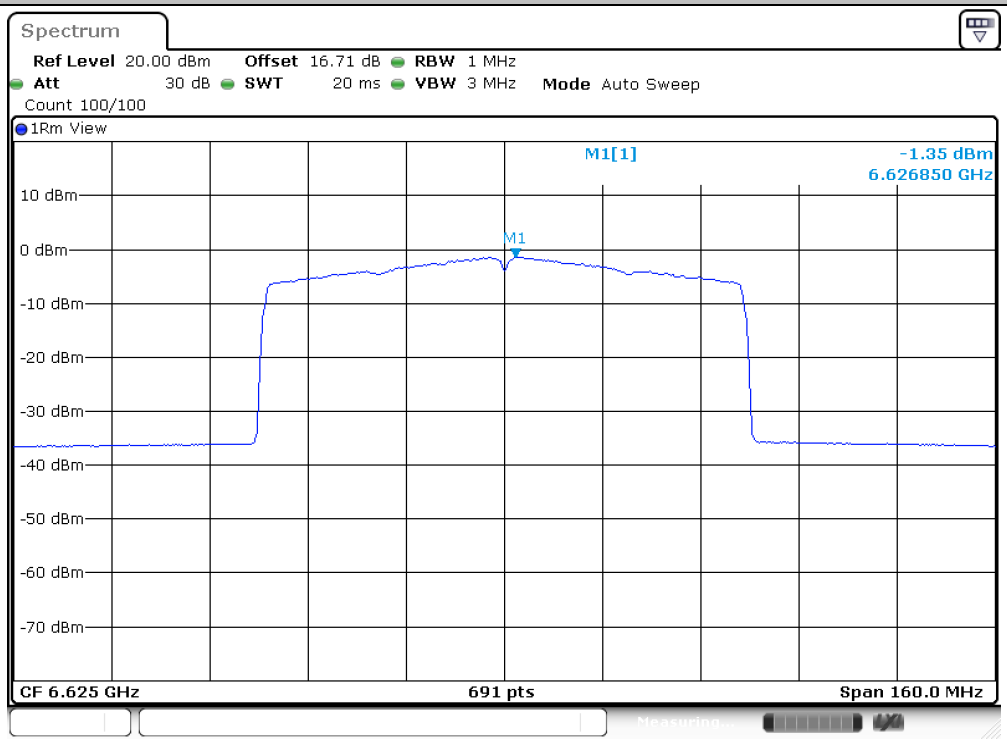

Date: 27.MAY.2025 18:43:55

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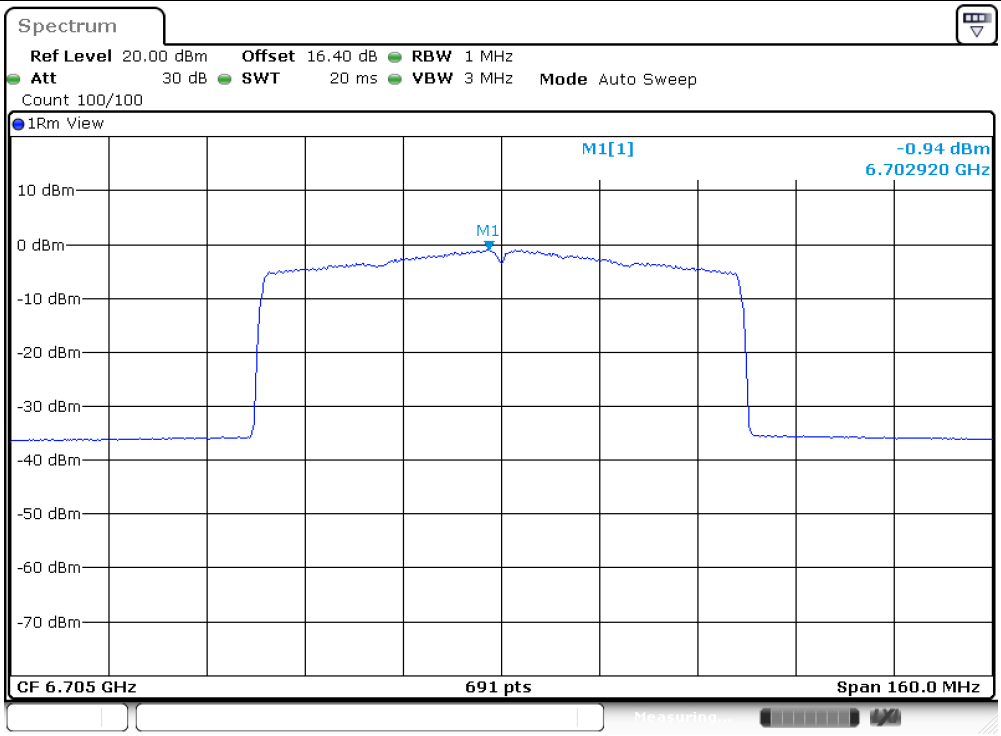

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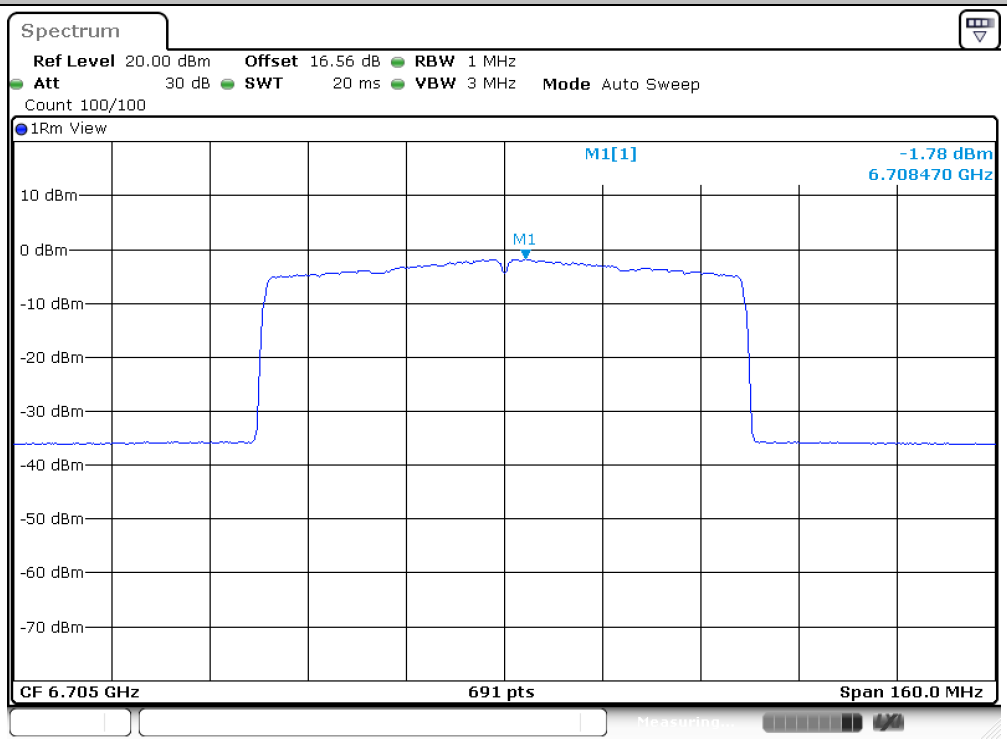

Date: 27.MAY.2025 18:47:52

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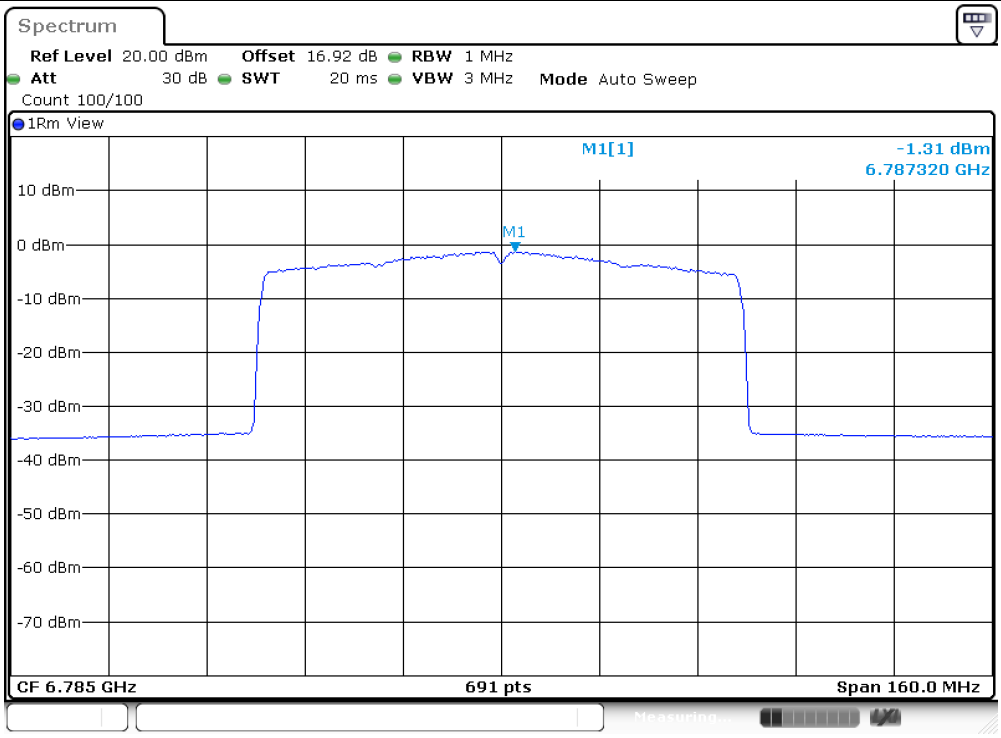

Date: 27.MAY.2025 18:49:54

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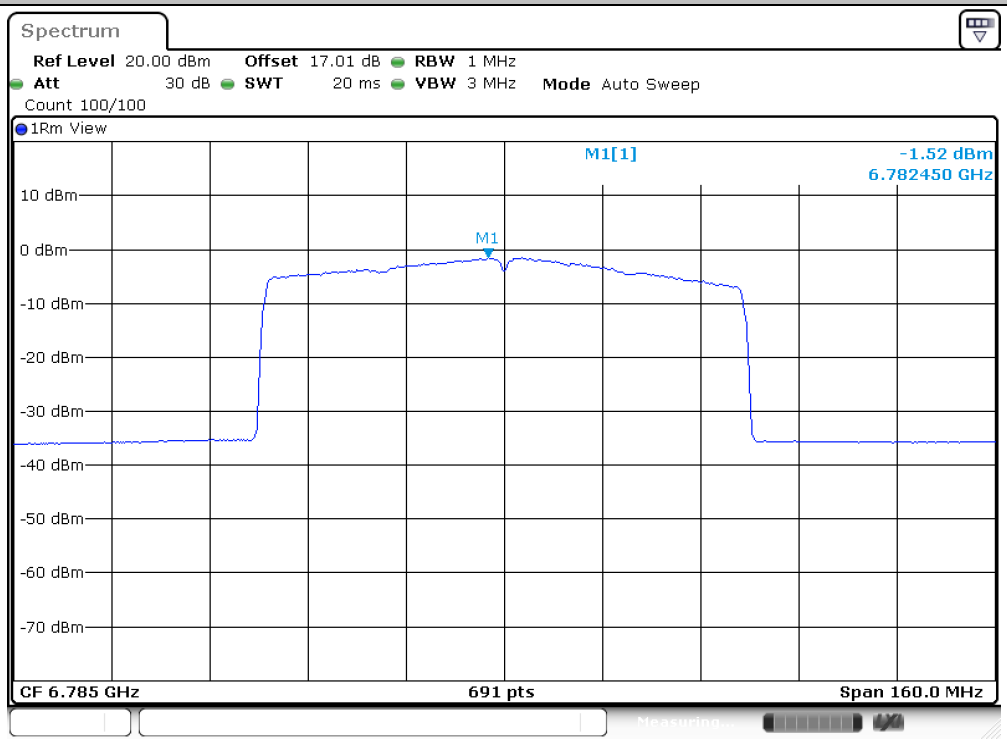

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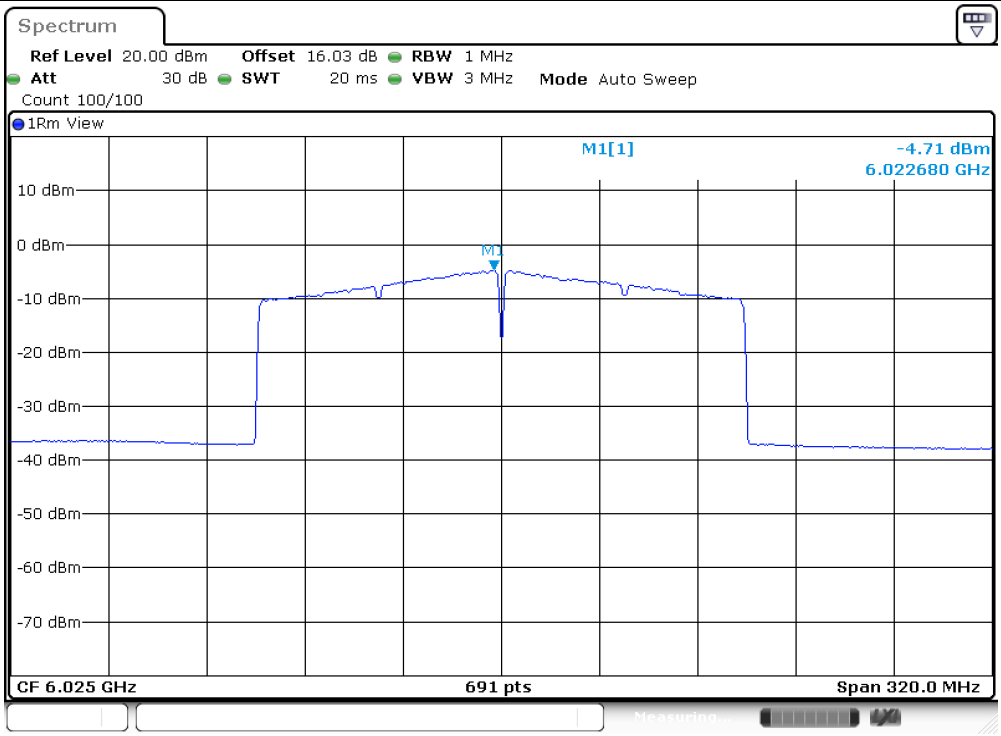
11BE160MIMO_Ant6_6025



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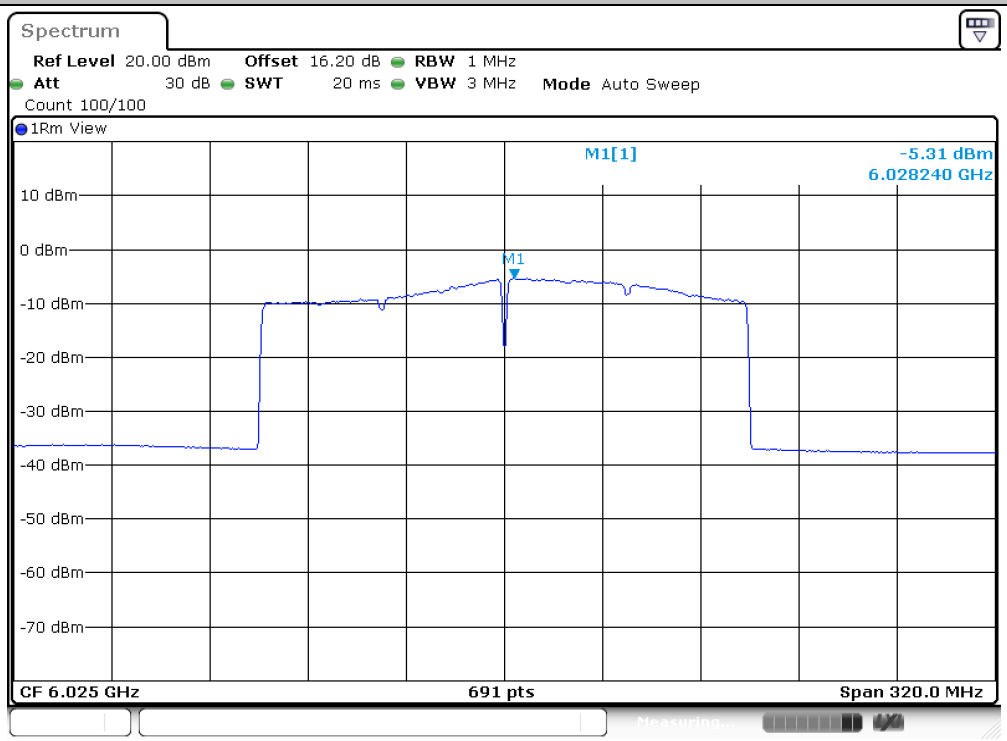

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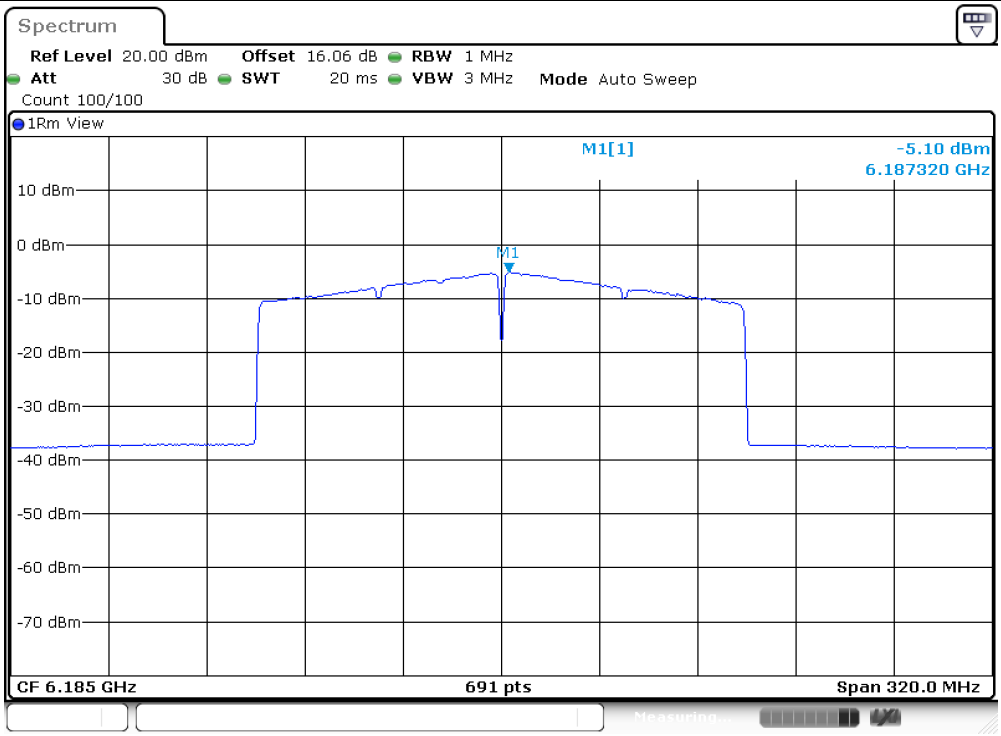

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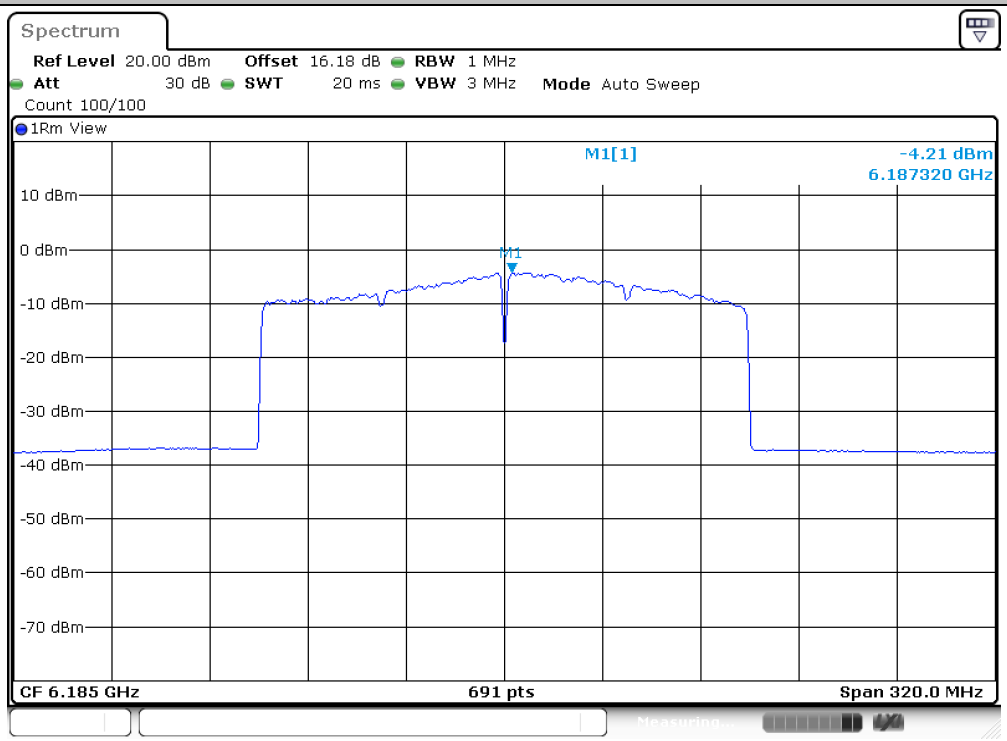

Date: 27.MAY.2025 19:01:01

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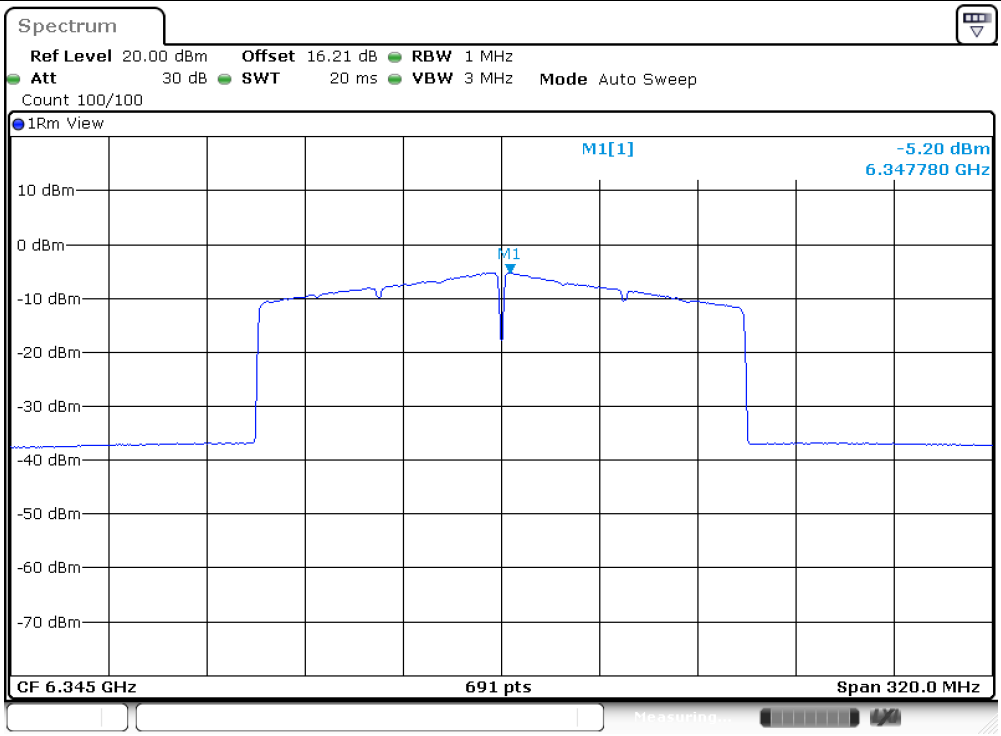

Date: 27.MAY.2025 19:02:44

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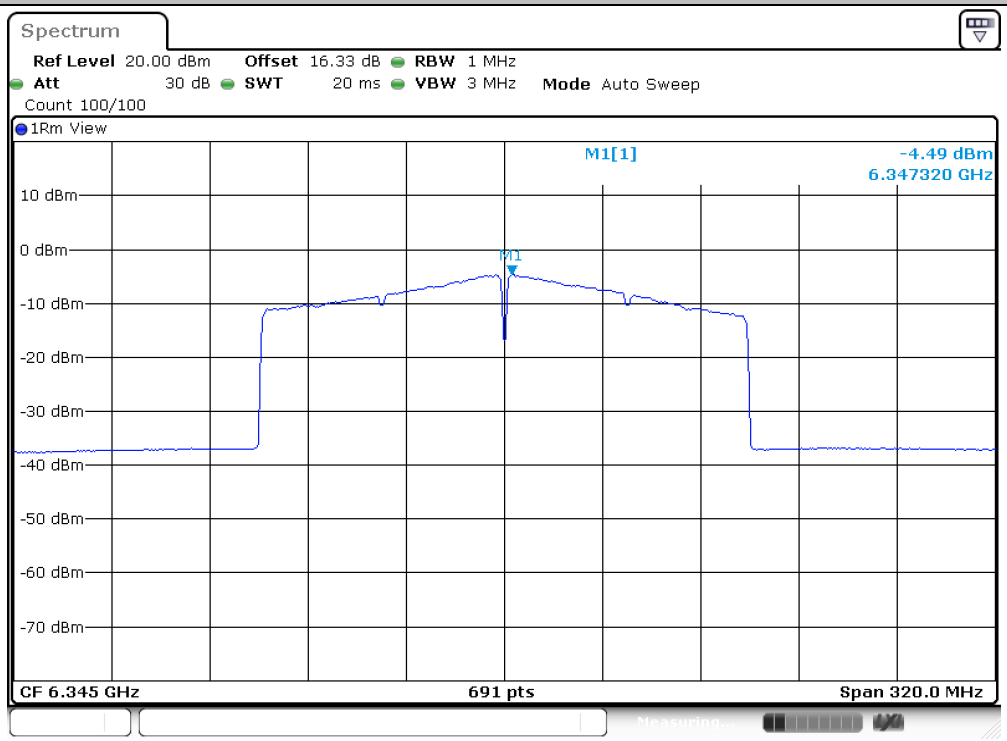
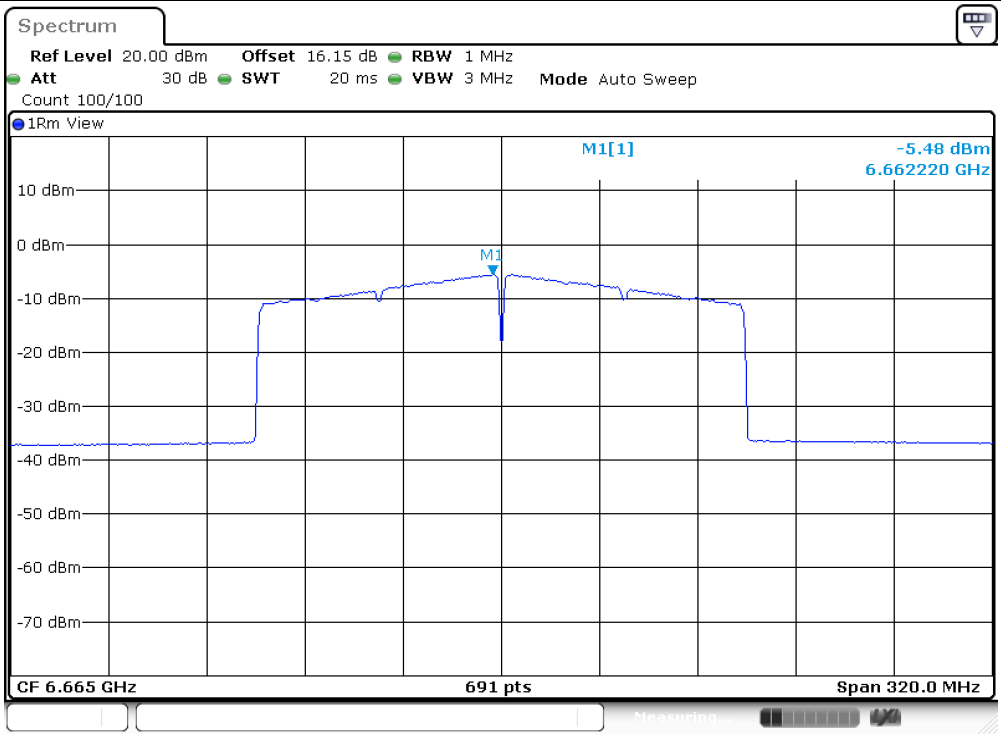


Date: 27.MAY.2025 19:04:11

11BE160MIMO_Ant6_6665



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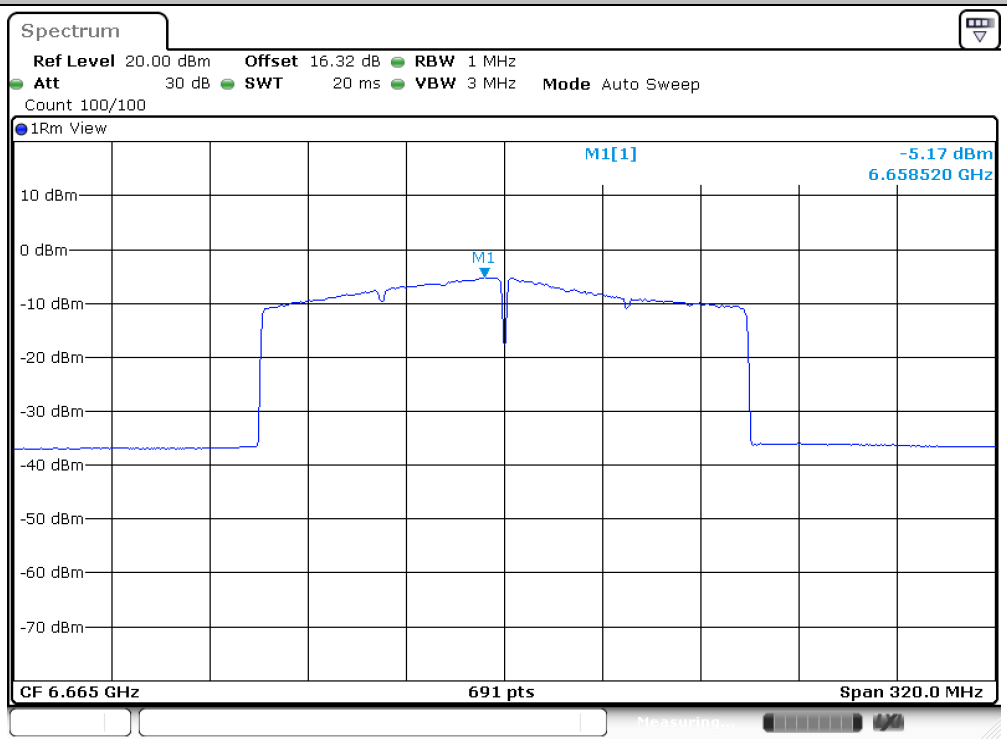

Date: 27.MAY.2025 19:07:55

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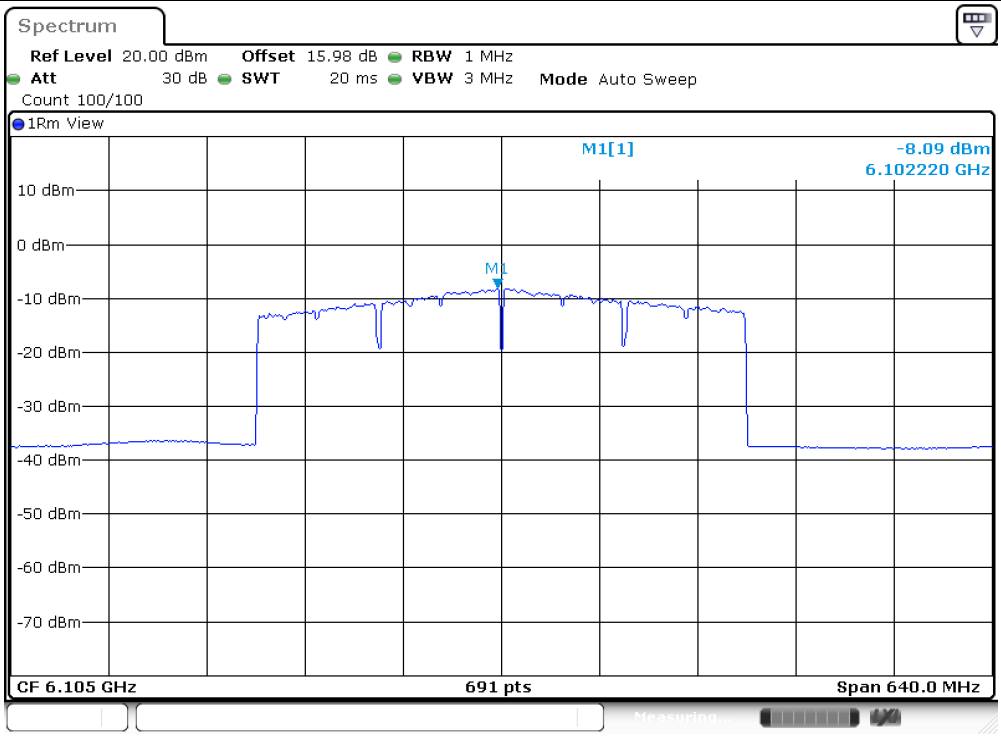

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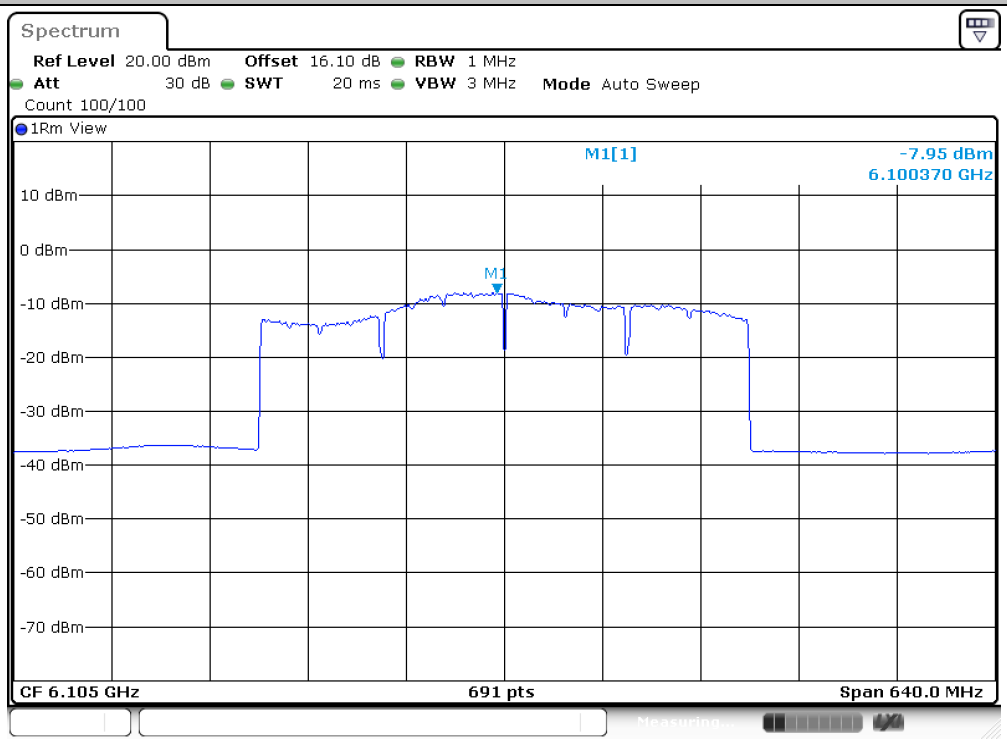

Date: 27.MAY.2025 19:13:51

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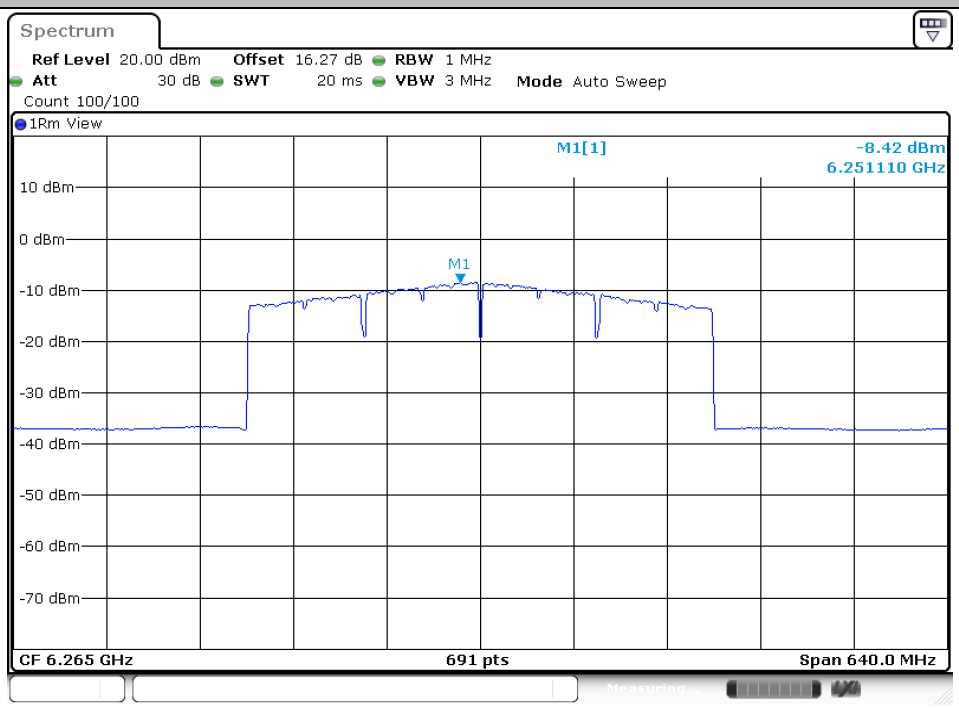

Date: 27.MAY.2025 19:15:22

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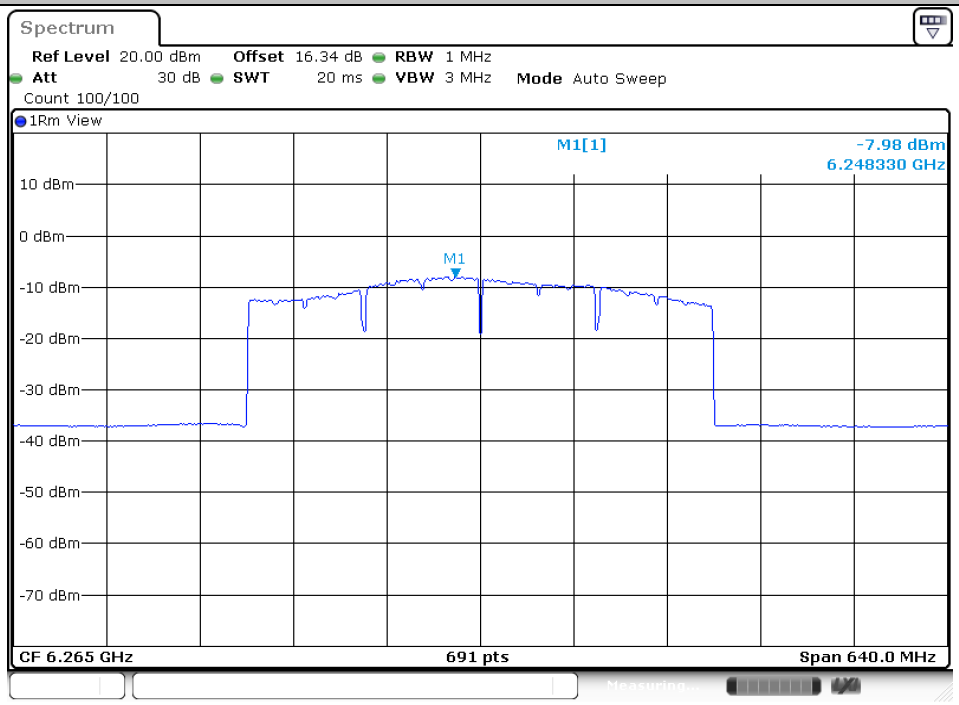


Date: 27.MAY.2025 19:16:49

In-Band Emissions

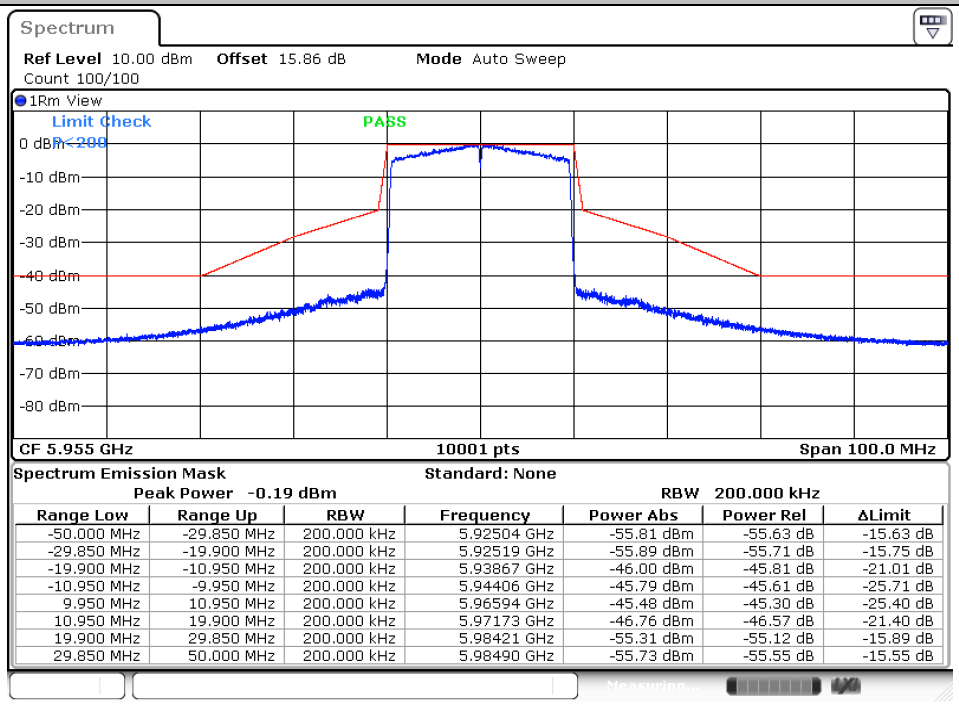
Test Result

TestMode	Antenna	Freq(MHz)	Result	Limit	Verdict
11BE20MIMO	Ant6	5955	See test graph	See test graph	PASS
	Ant17	5955	See test graph	See test graph	PASS
	Ant6	6175	See test graph	See test graph	PASS
	Ant17	6175	See test graph	See test graph	PASS
	Ant6	6415	See test graph	See test graph	PASS
	Ant17	6415	See test graph	See test graph	PASS
	Ant6	6535	See test graph	See test graph	PASS
	Ant17	6535	See test graph	See test graph	PASS
	Ant6	6695	See test graph	See test graph	PASS
	Ant17	6695	See test graph	See test graph	PASS
	Ant6	6855	See test graph	See test graph	PASS
	Ant17	6855	See test graph	See test graph	PASS
11BE40MIMO	Ant6	5965	See test graph	See test graph	PASS
	Ant17	5965	See test graph	See test graph	PASS
	Ant6	6165	See test graph	See test graph	PASS
	Ant17	6165	See test graph	See test graph	PASS
	Ant6	6405	See test graph	See test graph	PASS
	Ant17	6405	See test graph	See test graph	PASS
	Ant6	6565	See test graph	See test graph	PASS
	Ant17	6565	See test graph	See test graph	PASS
	Ant6	6685	See test graph	See test graph	PASS
	Ant17	6685	See test graph	See test graph	PASS
	Ant6	6845	See test graph	See test graph	PASS
	Ant17	6845	See test graph	See test graph	PASS
11BE80MIMO	Ant6	5985	See test graph	See test graph	PASS
	Ant17	5985	See test graph	See test graph	PASS
	Ant6	6145	See test graph	See test graph	PASS
	Ant17	6145	See test graph	See test graph	PASS
	Ant6	6385	See test graph	See test graph	PASS
	Ant17	6385	See test graph	See test graph	PASS
	Ant6	6625	See test graph	See test graph	PASS
	Ant17	6625	See test graph	See test graph	PASS
	Ant6	6705	See test graph	See test graph	PASS
	Ant17	6705	See test graph	See test graph	PASS
	Ant6	6785	See test graph	See test graph	PASS
	Ant17	6785	See test graph	See test graph	PASS
11BE160MIMO	Ant6	6025	See test graph	See test graph	PASS

	Ant17	6025	See test graph	See test graph	PASS
	Ant6	6185	See test graph	See test graph	PASS
	Ant17	6185	See test graph	See test graph	PASS
	Ant6	6345	See test graph	See test graph	PASS
	Ant17	6345	See test graph	See test graph	PASS
	Ant6	6665	See test graph	See test graph	PASS
	Ant17	6665	See test graph	See test graph	PASS
11BE320MIMO	Ant6	6105	See test graph	See test graph	PASS
	Ant17	6105	See test graph	See test graph	PASS
	Ant6	6265	See test graph	See test graph	PASS
	Ant17	6265	See test graph	See test graph	PASS

Test Graphs

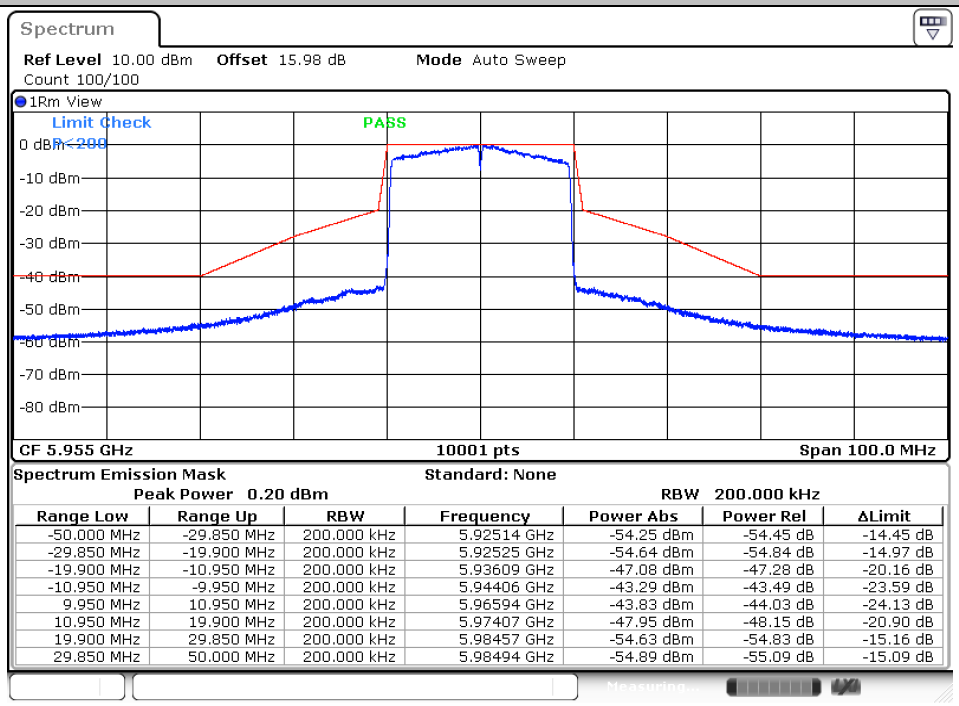
11BE20MIMO_Ant6_5955



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-50.000 MHz	-29.850 MHz	200.000 kHz	5.92504 GHz	-55.81 dBm	-55.63 dB	-15.63 dB
-29.850 MHz	-19.900 MHz	200.000 kHz	5.92519 GHz	-55.89 dBm	-55.71 dB	-15.75 dB
-19.900 MHz	-10.950 MHz	200.000 kHz	5.93867 GHz	-46.00 dBm	-45.81 dB	-21.01 dB
-10.950 MHz	-9.950 MHz	200.000 kHz	5.94406 GHz	-45.79 dBm	-45.61 dB	-25.71 dB
9.950 MHz	10.950 MHz	200.000 kHz	5.96594 GHz	-45.48 dBm	-45.30 dB	-25.40 dB
10.950 MHz	19.900 MHz	200.000 kHz	5.97173 GHz	-46.76 dBm	-46.57 dB	-21.40 dB
19.900 MHz	29.850 MHz	200.000 kHz	5.98421 GHz	-55.31 dBm	-55.12 dB	-15.89 dB
29.850 MHz	50.000 MHz	200.000 kHz	5.98490 GHz	-55.73 dBm	-55.55 dB	-15.55 dB

Date: 27.MAY.2025 16:28:54

11BE20MIMO_Ant17_5955



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-50.000 MHz	-29.850 MHz	200.000 kHz	5.92514 GHz	-54.25 dBm	-54.45 dB	-14.45 dB
-29.850 MHz	-19.900 MHz	200.000 kHz	5.92525 GHz	-54.64 dBm	-54.84 dB	-14.97 dB
-19.900 MHz	-10.950 MHz	200.000 kHz	5.93609 GHz	-47.08 dBm	-47.28 dB	-20.16 dB
-10.950 MHz	-9.950 MHz	200.000 kHz	5.94406 GHz	-43.29 dBm	-43.49 dB	-23.59 dB
9.950 MHz	10.950 MHz	200.000 kHz	5.96594 GHz	-43.83 dBm	-44.03 dB	-24.13 dB
10.950 MHz	19.900 MHz	200.000 kHz	5.97407 GHz	-47.95 dBm	-48.15 dB	-20.90 dB
19.900 MHz	29.850 MHz	200.000 kHz	5.98457 GHz	-54.63 dBm	-54.83 dB	-15.16 dB
29.850 MHz	50.000 MHz	200.000 kHz	5.98494 GHz	-54.89 dBm	-55.09 dB	-15.09 dB

Date: 27.MAY.2025 16:29:15