

Report No.: SEWA2301000013RG02
 Rev.: 01
 Page: 1 of 792

TEST REPORT

Application No.: SEWA2301000013RG
Applicant: Quectel Wireless Solutions Co., Ltd.
Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer: Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
EUT Description: Wi-Fi & Bluetooth Module
Model No.: FC66E
Trade Mark: Quectel
FCC ID: XMR2023FC66E
Standards: FCC 47 CFR Part 15, Subpart E
Date of Receipt: 2023/03/03 (for original report SEWA2301000012RG01)
Date of Test: 2023/03/29 to 2023/06/07 (for original report SEWA2301000012RG01)
 2023/06/29 to 2023/07/07 (for new report SEWA2301000013RG02)
Date of Issue: 2023/07/20

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Well Wei
 Wireless Laboratory Manager


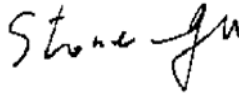


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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/07/20		Original

Prepared By		 <hr/> (Yves Cheng) / Test Engineer
Checked By		 <hr/> (Stone Gu) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Requirements	Test Result	Result
Antenna Requirement	15.203/15.407(a)	--	Clause 4.1	PASS
AC Power Line Conducted Emissions	15.407(b)(8)	< FCC 15.207 limits	Clause 4.2	PASS
Duty Cycle	--	No limit.	Clause 4.3	For Report Purpose
Maximum e.i.r.p.	15.407(a)(8)	< 24dBm over the frequency band of Operation, e.i.r.p.	Clause 4.4	PASS
26dB Emission Bandwidth	15.407(a)(10)	The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.	Clause 4.5	PASS
99% Occupied Bandwidth	2.1049	No limit.	Clause 4.6	For Report Purpose
Maximum Power Spectral Density	15.407(a)(8)	< -1dBm/MHz e.i.r.p.	Clause 4.7	PASS
In-Band Emissions	15.407(b)(6)	EUT must meet the limits detailed in 15.407(b)(6)	Clause 4.8	PASS
Contention Based Protocol	15.407(d)(6)	EUT must detect AWGN signal with 90% (or better) certainty	Clause 4.9	PASS
Radiated Spurious Emissions	15.407(b)(5) 15.205, 15.209	< -27dBm/MHz e.i.r.p. outside of the 5.925 – 7.125GHz band	Clause 4.10	PASS*
Restricted Bands around fundamental frequency	15.407(b)(5) 15.205, 15.209	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Clause 4.11	PASS*
Remark: "PASS*" There is FCC ID XMR2023FC66E (this model) spot check data. "Pass" refers to FCC ID XMR2023FC66EB (parent model) data.				



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Report No.: SEWA2301000013RG02
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Remark:

This test report (Report No.: SEWA2301000013RG02 issue on 2023/07/20) is based on the original test report (Report No.: SEWA2301000012RG01 issue on 2023/06/07).

Introduction section:

Quectel Wireless Solutions Co., Ltd, hereby declares that the test data reuse policy of FCC KDB 484596D01 v01 has been followed and take full responsibility that the test data as referenced form the parent model report FCC ID XMR2023FC66EB represents compliance for the new FCC ID XMR2023FC66E.

Difference section:

Quectel Wireless Solutions Co., Ltd, hereby declares FCC ID XMR2023FC66E (this model) is the variant from FCC ID XMR2023FC66EB (parent model). There is no any other internal difference between them and the change are mounted part of Bluetooth individual antenna which won't affect the WiFi RF portions.

Reference detail section:

Therefore in this report only the items of Power and AC Power Line Conducted Emission were tested, Radiated Spurious Emissions and Restricted bands around fundamental frequency were performed based on the worst case of the original report with report number SEWA2301000012RG01 issue on 2023/06/07 and other test data in this report are based on the previous report with report number SEWA2301000012RG01 issue on 2023/06/07.

Rule part	Equipment class	Reference FCC ID	Type Grant /permissive Change	Reference Report	Variant model FCC ID	Variant model Report
15E	6XD	XMR2023FC66EB	Original Grant	SEWA2301000012RG01	XMR2023FC66E	SEWA2301000013RG02



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Summary of the Spot check:

Radiated Spurious Emissions and Restricted bands around fundamental frequency test against the variant model based on the worst-case condition from the original model was performed in this filing and the verification test results similar to the original FCC ID. All tests meet FCC technical limits. Detail sport check test result can be found in the variant model report.

Test Item	XMR2023FC66E Worst Result	XMR2023FC66EB Worst Result	Difference(dB)
Radiated Spurious Emissions	44.49	47.07	-2.58
Restricted Bands around fundamental frequency	63.02	61.18	-1.84



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3 General Information

3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, King-p Li

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

<ul style="list-style-type: none"> A2LA (Certificate No. 6336.01) SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01. Innovation, Science and Economic Development Canada SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory. CAB identifier: CN0120. IC#: 27594. FCC –Designation Number: CN1312 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory. Designation Number: CN1312. Test Firm Registration Number: 717327
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3.4 General Description of EUT

EUT Description:	Wi-Fi & Bluetooth Module	
Model No.:	FC66E	
Trade Mark:	Quectel	
Hardware Version:	R1.0	
Software Version:	/	
IMEI:	867629050004587	
IEEE 802.11 WLAN Mode Supported:	<input checked="" type="checkbox"/> 802.11a (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11ax (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ax (40 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ax (80 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ax (160 MHz channel bandwidth)	
Operation Frequency:	IEEE 802.11 a/ax(HE20/40/80/160): 5925 MHz ~ 6425 MHz IEEE 802.11 a/ax(HE20/40/80/160): 6425 MHz ~ 6525 MHz IEEE 802.11 a/ax(HE20/40/80/160): 6525 MHz ~ 6875 MHz IEEE 802.11 a/ax(HE20/40/80/160): 6875 MHz ~ 7125 MHz	
Type of Modulation:	OFDM/OFDMA	
FCC Classification:	6GHz Low Power Indoor Client (6XD)	
Antenna Type:	<input checked="" type="checkbox"/> External, <input type="checkbox"/> Integrated	
Smart System:	<input type="checkbox"/> SISO	802.11a/ax
	<input checked="" type="checkbox"/> MIMO	802.11ax: 2Tx & 2Rx
	<input checked="" type="checkbox"/> Diversity	802.11a: 2Tx & 2Rx
Antenna Gain:	5925 MHz to 6425 MHz: 4.62dBi (Ant0); 4.74dBi (Ant1); 6425 MHz to 6525 MHz: 4.32dBi (Ant0); 4.74dBi (Ant1); 6525 MHz to 6875 MHz: 5.35dBi (Ant0); 5.23dBi (Ant1); 6875 MHz to 7125 MHz: 5.84dBi (Ant0); 5.89dBi (Ant1);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1.5dB	
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Antenna Information					
	Brand Name	Model Name	Operation Frequency	Peak Gain	Type
Ant 0	HIGH-TEK HARNESS ENTERPRISE	F7G280	5925MHz to 6425MHz	4.62dBi	PIFA Antenna
			6425MHz to 6525MHz	4.32dBi	
			6525MHz to 6875MHz	5.35dBi	
			6875MHz to 7125MHz	5.84dBi	
Ant 1	HIGH-TEK HARNESS ENTERPRISE	F7G250	5925MHz to 6425MHz	4.74dBi	PIFA Antenna
			6425MHz to 6525MHz	4.74dBi	
			6525MHz to 6875MHz	5.23dBi	
			6875MHz to 7125MHz	5.89dBi	

Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency range over which device operates	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre, 1 near low end

For UNII-5:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/ax 20MHz	The Lowest channel	5955
	The Middle channel	6175
	The Highest channel	6415
IEEE 802.11ax 40MHz	The Lowest channel	5965
	The Middle channel	6165
	The Highest channel	6405
IEEE 802.11ax 80MHz	The Lowest channel	5985
	The Highest channel	6145
IEEE 802.11ax160MHz	The Lowest channel	6025
	The Middle channel	6185
	The Highest channel	6345



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For UNII-6:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/ax 20MHz	The Lowest channel	6435
	The Middle channel	6475
	The Highest channel	6515
IEEE 802.11ax 40MHz	The Lowest channel	6445
	The Middle channel	6485
	The Highest channel	6525
IEEE 802.11ax 80MHz	The Lowest channel	6385
	The Highest channel	6465
IEEE 802.11ax160MHz	The Middle channel	6505

For UNII-7:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/ax 20MHz	The Lowest channel	6535
	The Middle channel	6695
	The Highest channel	6855
IEEE 802.11ax 40MHz	The Lowest channel	6565
	The Middle channel	6685
	The Highest channel	6845
IEEE 802.11ax 80MHz	Straddle	6545
	The Lowest channel	6625
	The Middle channel	6705
	The Highest channel	6785
	Straddle	6865
IEEE 802.11ax160MHz	The Lowest channel	6665
	The Highest channel	6825



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For UNII-8:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/ax 20MHz	The Lowest channel	6895
	The Highest channel	7115
IEEE 802.11ax 40MHz	Straddle	6885
	The Lowest channel	6925
	The Middle channel	6965
	The Highest channel	7085
IEEE 802.11ax 80MHz	The Lowest channel	6945
	The Highest channel	7025
IEEE 802.11ax160MHz	The Middle channel	6985



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3.5 Test Environment and Mode

Environment Parameter	101 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	2.0
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

Description	Manufacturer	Model No.
Mother board	Quectel	5G-EVB Q1-A7138
Adapter	Shenzhen Keyu Power Supply Techology Co.,Ltd	KA1801A-0503000DE
Remark: all above the information of table are provided by client.		

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	CDD/MIMO - Data Rate
802.11a	/	12 Mbps
802.11ax (HE 20)	/	MCS0 (16 Mbps)
802.11ax (HE 40)	/	MCS0 (32 Mbps)
802.11ax (HE 80)	/	MCS0 (68 Mbps)
802.11ax (HE 160)	/	MCS0 (136 Mbps)



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15 Section 15.203
<p>The antenna is External antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 5925 MHz to 6425 MHz: 4.62dBi (Ant0); 4.74dBi (Ant1);* 6425 MHz to 6525 MHz: 4.32dBi (Ant0); 4.74dBi (Ant1);* 6525 MHz to 6875 MHz: 5.35dBi (Ant0); 5.23dBi (Ant1);* 6875 MHz to 7125 MHz: 5.84dBi (Ant0); 5.89dBi (Ant1);*</p> <p><i>*Note:</i> The antenna gain are derived from the gain information report provided by the manufacturer.</p> <p><i>Remark:</i> As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p>	



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Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,
 $Array\ Gain = 10 \log(N_{ANT}/N_{SS} = 1) \text{ dB}$.
- For power measurements on IEEE 802.11 devices:
 $Array\ Gain = 0 \text{ dB}$ (i.e., no array gain) for $N_{ANT} \leq 4$;

For power, the directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

Unequal antenna gain:

Operation Frequency	ANT Gain0 (dBi)	ANT Gain1 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)
5925 MHz to 6425 MHz	4.62	4.74	4.74	7.69
6425 MHz to 6525 MHz	4.32	4.74	4.74	7.54
6525 MHz to 6875 MHz	5.35	5.23	5.35	8.30
6875 MHz to 7125 MHz	5.84	5.89	5.89	8.88



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10-2020 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		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.			
Test Procedure:	<ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10-2020 on conducted measurement. 		



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<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details. Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details</p>
<p>Test Results:</p>	<p>Pass</p>



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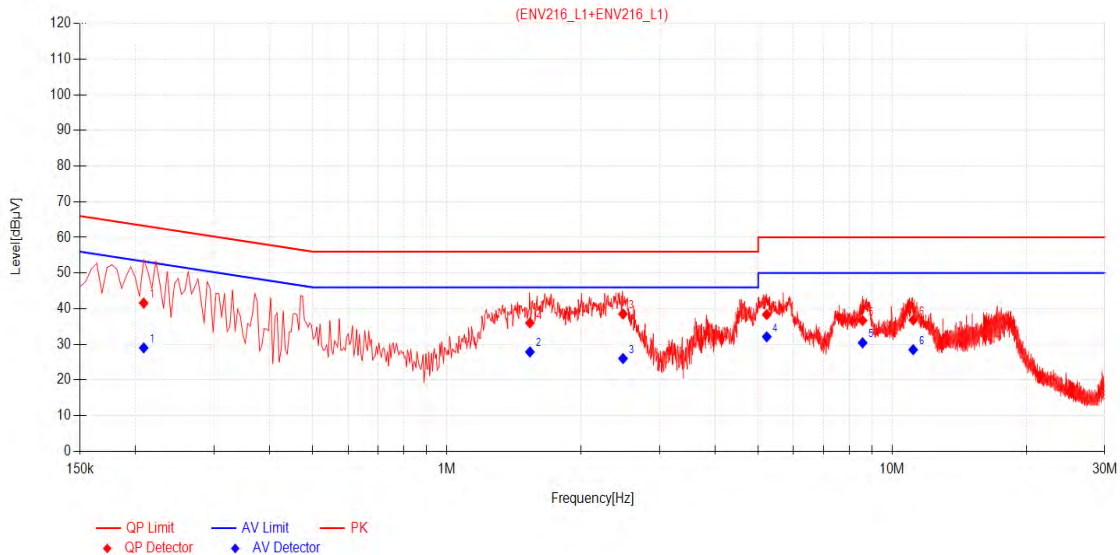
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Phase:	Line
--------	------



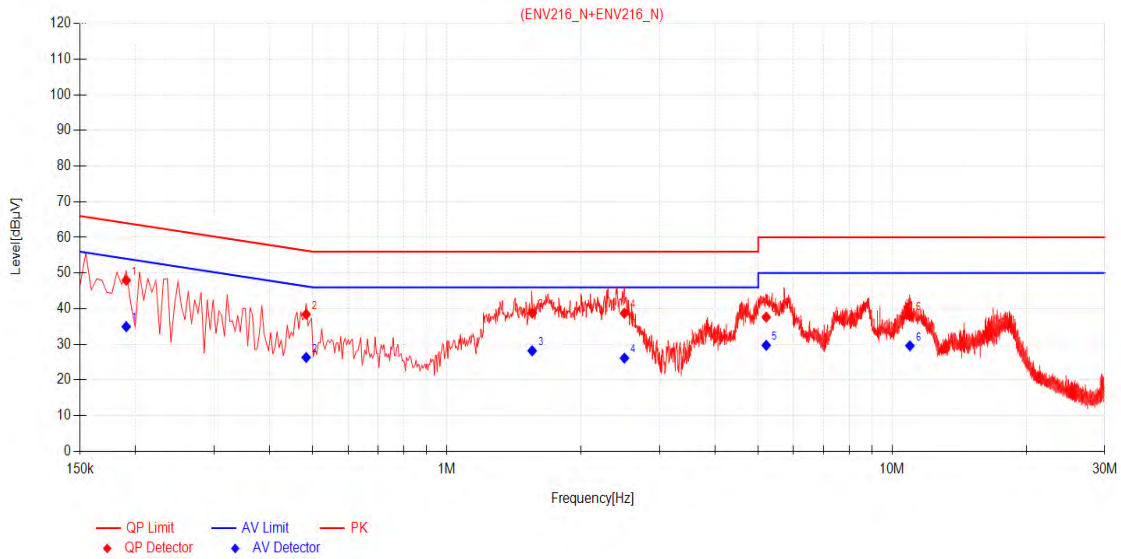
Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2085	10.82	30.76	41.58	63.26	21.68	18.19	29.01	53.26	24.25	PASS
2	1.5360	10.77	25.24	36.01	56.00	19.99	17.10	27.87	46.00	18.13	PASS
3	2.4855	10.66	27.86	38.52	56.00	17.48	15.37	26.03	46.00	19.97	PASS
4	5.2260	10.65	27.70	38.35	60.00	21.65	21.46	32.11	50.00	17.89	PASS
5	8.5785	10.66	26.00	36.66	60.00	23.34	19.78	30.44	50.00	19.56	PASS
6	11.1435	10.61	26.20	36.81	60.00	23.19	17.89	28.50	50.00	21.50	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



Phase: Neutral



Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1905	10.67	37.31	47.98	64.01	16.03	24.30	34.97	54.01	19.04	PASS
2	0.4830	10.81	27.61	38.42	56.29	17.87	15.52	26.33	46.29	19.96	PASS
3	1.5540	10.77	28.00	38.77	56.00	17.23	17.42	28.19	46.00	17.81	PASS
4	2.5035	10.79	27.94	38.73	56.00	17.27	15.36	26.15	46.00	19.85	PASS
5	5.2125	10.63	27.00	37.63	60.00	22.37	19.10	29.73	50.00	20.27	PASS
6	10.9545	10.66	27.28	37.94	60.00	22.06	18.95	29.61	50.00	20.39	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



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4.3 Duty Cycle

The detailed test data see: **Appendix**



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4.4 Maximum e.i.r.p.

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10-2020 Section 12.4.3.2
Test Setup:	<p>* Test with power meter (Detector function: Average)</p>
Test Instruments:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	For client devices operating under the control of an indoor access point in the 5.925-7.125GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.
Test Results:	Pass
The detailed test data see: Appendix	



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4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a), KDB 789033 D02
Test Method:	ANSI C63.10-2020 Section 12.5.2
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.
Test Results:	Pass
The detailed test data see: Appendix	



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4.6 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10-2020 Section 12.5.3
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	NA
Test Results:	For Report Purpose
The detailed test data see: Appendix	



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4.7 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10-2020 Section 12.6 KDB 789033 D02 v02r01, Section F.
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	For client devices operating under the control of an indoor access point in the 5.925-7.125GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band.
Test Results:	Pass
The detailed test data see: Appendix	



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4.8 In-Band Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)(6)
Test Method:	KDB 987594 D02 U-NII 6GHz EMC Measurement v01
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	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.
Test Results:	Pass
The detailed test data see: Appendix	



4.9 Contention Based Protocol

Test Requirement:	47 CFR Part 15 Section 15.407(d)
Test Method:	KDB 987594 D02 U-NII 6GHz EMC Measurement v01
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Test Procedure:	<ol style="list-style-type: none"> 1) Configure the EUT to transmit with a constant duty cycle. 2) Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth. 3) Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver. 4) Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two. 5) Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10MHz AWGN signal relative to the EUT's channel bandwidth and center frequency. 6) Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2. 7) Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1. 8) Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting. 9) (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty. 10) Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.



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Report No.: SEWA2301000013RG02

Rev.: 01

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Limit:	<p>Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.</p>
Test Results:	Pass
The detailed test data see: Appendix	



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4.10 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205/15.209/15.407(b)(5)
Test Method:	ANSI C63.10-2020 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

Test Setup:

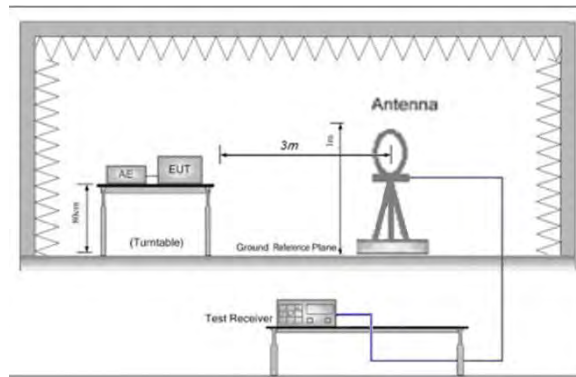


Figure 1. 9kHz to 30MHz

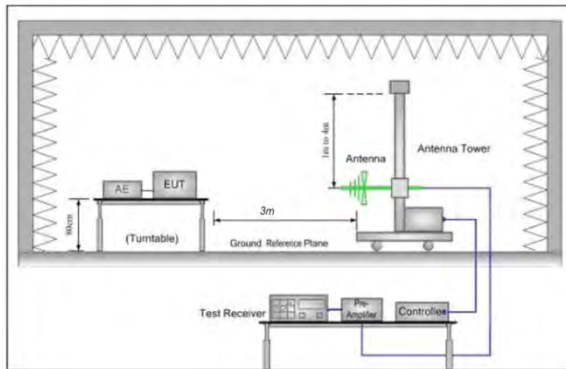


Figure 1. 30MHz to 1GHz

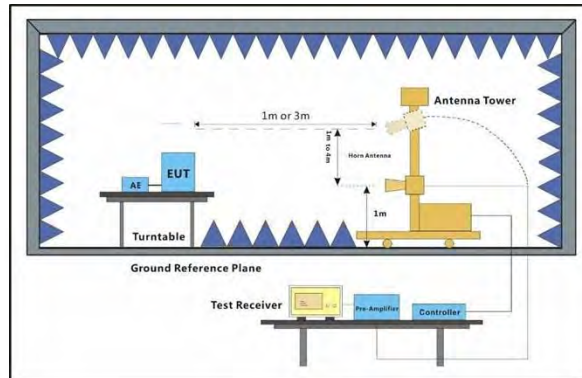


Figure 2. Above 1 GHz

Test Procedure:

- For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and



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	<p>then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the outermost channels.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. 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</p> <p>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54$ dB.</p>
<p>Test Configuration:</p>	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW \geq 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.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details</p>
<p>Test Results:</p>	<p>Pass</p>
<p>The detailed test data see: Appendix</p>	



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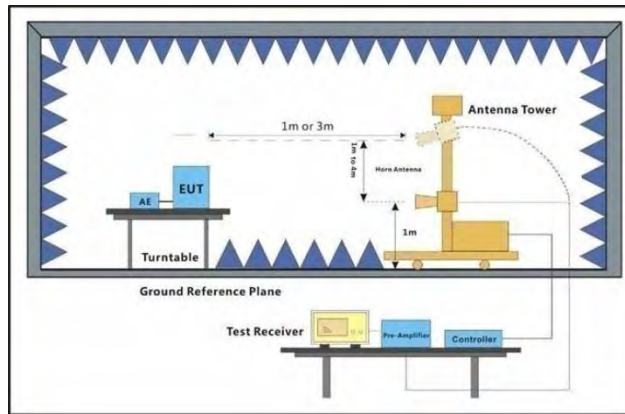
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4.11 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.205/15.209/15.407(b)(5)		
Test Method:	ANSI C63.10-2020 Section 12.7		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:



Test Procedure:

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel



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	<p>g. Test the EUT in the outermost channels.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10Hz, 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.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k to 30MHz)
		± 4.8dB (30M to 1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
				2023/05/11	2024/05/10
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05
Signal Generator	ROHDE&SCHWARZ	SMM100A	SN:101716	2023/02/22	2024/02/21

Conduction Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR



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RE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
				2023/05/11	2024/05/10
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
				2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
				2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
				2023/05/12	2024/05/11
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
				2023/05/13	2024/05/12
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR



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7 Photographs - Setup Photos

Refer to Appendix A.3 6E WIFI Setup Photos.



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Appendix



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**Emission Bandwidth
Test Result**

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a-CDD	Ant0	5955	18.72	5945.56	5964.28	≤320	For Report Purpose
	Ant1	5955	18.60	5945.68	5964.28	≤320	
	Ant0	6175	18.60	6165.56	6184.16	≤320	
	Ant1	6175	18.68	6165.56	6184.24	≤320	
	Ant0	6415	18.64	6405.64	6424.28	≤320	
	Ant1	6415	18.92	6405.44	6424.36	≤320	
	Ant0	6435	18.88	6425.36	6444.24	≤320	
	Ant1	6435	19.00	6425.36	6444.36	≤320	
	Ant0	6475	18.88	6465.36	6484.24	≤320	
	Ant1	6475	18.96	6465.40	6484.36	≤320	
	Ant0	6515	18.88	6505.52	6524.40	≤320	
	Ant1	6515	18.80	6505.60	6524.40	≤320	
	Ant0	6535	18.92	6525.56	6544.48	≤320	
	Ant1	6535	18.72	6525.64	6544.36	≤320	
	Ant0	6695	18.84	6685.52	6704.36	≤320	
	Ant1	6695	18.88	6685.52	6704.40	≤320	
	Ant0	6855	18.88	6845.52	6864.40	≤320	
	Ant1	6855	18.88	6845.52	6864.40	≤320	
	Ant0	6875	19.16	6865.28	6884.44	≤320	
	Ant1	6875	18.92	6865.48	6884.40	≤320	
	Ant0	6895	18.92	6885.48	6904.40	≤320	
	Ant1	6895	18.88	6885.52	6904.40	≤320	
	Ant0	6995	18.92	6985.52	7004.44	≤320	
	Ant1	6995	19.16	6985.28	7004.44	≤320	
Ant0	7115	18.92	7105.48	7124.40	≤320		
Ant1	7115	18.96	7105.48	7124.44	≤320		
11ax20MIMO	Ant0	5955	21.60	5944.24	5965.84	≤320	For Report Purpose
	Ant1	5955	21.04	5944.44	5965.48	≤320	
	Ant0	6175	21.08	6164.44	6185.52	≤320	
	Ant1	6175	21.28	6164.24	6185.52	≤320	
	Ant0	6415	20.84	6404.52	6425.36	≤320	
	Ant1	6415	21.00	6404.48	6425.48	≤320	
	Ant0	6435	21.08	6424.52	6445.60	≤320	
	Ant1	6435	21.20	6424.28	6445.48	≤320	
	Ant0	6475	21.04	6464.44	6485.48	≤320	
	Ant1	6475	21.00	6464.48	6485.48	≤320	
	Ant0	6515	21.16	6504.36	6525.52	≤320	
	Ant1	6515	21.08	6504.44	6525.52	≤320	
	Ant0	6535	20.88	6524.48	6545.36	≤320	
	Ant1	6535	21.12	6524.36	6545.48	≤320	
	Ant0	6695	21.44	6684.40	6705.84	≤320	
	Ant1	6695	21.24	6684.32	6705.56	≤320	
	Ant0	6855	20.96	6844.52	6865.48	≤320	
	Ant1	6855	21.08	6844.44	6865.52	≤320	
	Ant0	6875	21.36	6864.28	6885.64	≤320	
	Ant1	6875	21.04	6864.44	6885.48	≤320	
	Ant0	6895	21.12	6884.36	6905.48	≤320	
	Ant1	6895	20.80	6884.60	6905.40	≤320	
	Ant0	6995	20.92	6984.68	7005.60	≤320	
	Ant1	6995	20.92	6984.48	7005.40	≤320	



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	Ant0	7115	21.16	7104.48	7125.64	≤320
	Ant1	7115	21.16	7104.44	7125.60	≤320
11ax40MIMO	Ant0	5965	40.40	5944.76	5985.16	≤320
	Ant1	5965	40.80	5944.60	5985.40	≤320
	Ant0	6165	40.32	6144.76	6185.08	≤320
	Ant1	6165	40.32	6144.76	6185.08	≤320
	Ant0	6405	40.40	6384.76	6425.16	≤320
	Ant1	6405	40.32	6384.84	6425.16	≤320
	Ant0	6445	40.48	6424.76	6465.24	≤320
	Ant1	6445	40.48	6424.68	6465.16	≤320
	Ant0	6485	40.48	6464.76	6505.24	≤320
	Ant1	6485	40.88	6464.60	6505.48	≤320
	Ant0	6525	40.56	6504.68	6545.24	≤320
	Ant1	6525	40.16	6504.84	6545.00	≤320
	Ant0	6565	40.56	6544.60	6585.16	≤320
	Ant1	6565	40.40	6544.76	6585.16	≤320
	Ant0	6685	40.40	6664.60	6705.00	≤320
	Ant1	6685	40.48	6664.68	6705.16	≤320
	Ant0	6845	40.24	6824.76	6865.00	≤320
	Ant1	6845	40.64	6824.52	6865.16	≤320
	Ant0	6885	40.64	6864.52	6905.16	≤320
	Ant1	6885	40.64	6864.60	6905.24	≤320
Ant0	6925	40.08	6904.84	6944.92	≤320	
Ant1	6925	40.40	6904.60	6945.00	≤320	
Ant0	6965	40.24	6944.84	6985.08	≤320	
Ant1	6965	40.24	6944.84	6985.08	≤320	
Ant0	7085	40.24	7064.84	7105.08	≤320	
Ant1	7085	40.48	7064.68	7105.16	≤320	
11ax80MIMO	Ant0	5985	82.24	5943.88	6026.12	≤320
	Ant1	5985	82.08	5943.72	6025.80	≤320
	Ant0	6145	84.80	6101.48	6186.28	≤320
	Ant1	6145	82.40	6103.72	6186.12	≤320
	Ant0	6385	82.08	6344.04	6426.12	≤320
	Ant1	6385	81.60	6344.20	6425.80	≤320
	Ant0	6465	82.24	6423.88	6506.12	≤320
	Ant1	6465	82.08	6424.04	6506.12	≤320
	Ant0	6545	82.08	6503.72	6585.80	≤320
	Ant1	6545	81.92	6504.04	6585.96	≤320
	Ant0	6625	82.08	6584.04	6666.12	≤320
	Ant1	6625	81.60	6584.04	6665.64	≤320
	Ant0	6705	82.40	6663.56	6745.96	≤320
	Ant1	6705	81.92	6663.88	6745.80	≤320
	Ant0	6785	82.56	6743.72	6826.28	≤320
	Ant1	6785	82.40	6743.56	6825.96	≤320
	Ant0	6865	82.24	6823.72	6905.96	≤320
	Ant1	6865	82.40	6823.56	6905.96	≤320
	Ant0	6945	82.08	6903.72	6985.80	≤320
	Ant1	6945	82.08	6903.72	6985.80	≤320
Ant0	7025	82.40	6983.40	7065.80	≤320	
Ant1	7025	82.08	6983.72	7065.80	≤320	
11ax160MIMO	Ant0	6025	165.76	5941.80	6107.56	≤320
	Ant1	6025	165.12	5942.12	6107.24	≤320
	Ant0	6185	165.12	6102.12	6267.24	≤320
	Ant1	6185	164.80	6102.44	6267.24	≤320
	Ant0	6345	164.80	6262.44	6427.24	≤320
	Ant1	6345	164.48	6262.44	6426.92	≤320



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Ant0	6505	165.44	6421.80	6587.24	≤320
Ant1	6505	165.12	6422.12	6587.24	≤320
Ant0	6665	165.44	6581.80	6747.24	≤320
Ant1	6665	164.80	6582.44	6747.24	≤320
Ant0	6825	165.44	6741.80	6907.24	≤320
Ant1	6825	165.76	6742.12	6907.88	≤320
Ant0	6985	164.80	6902.44	7067.24	≤320
Ant1	6985	165.12	6902.12	7067.24	≤320

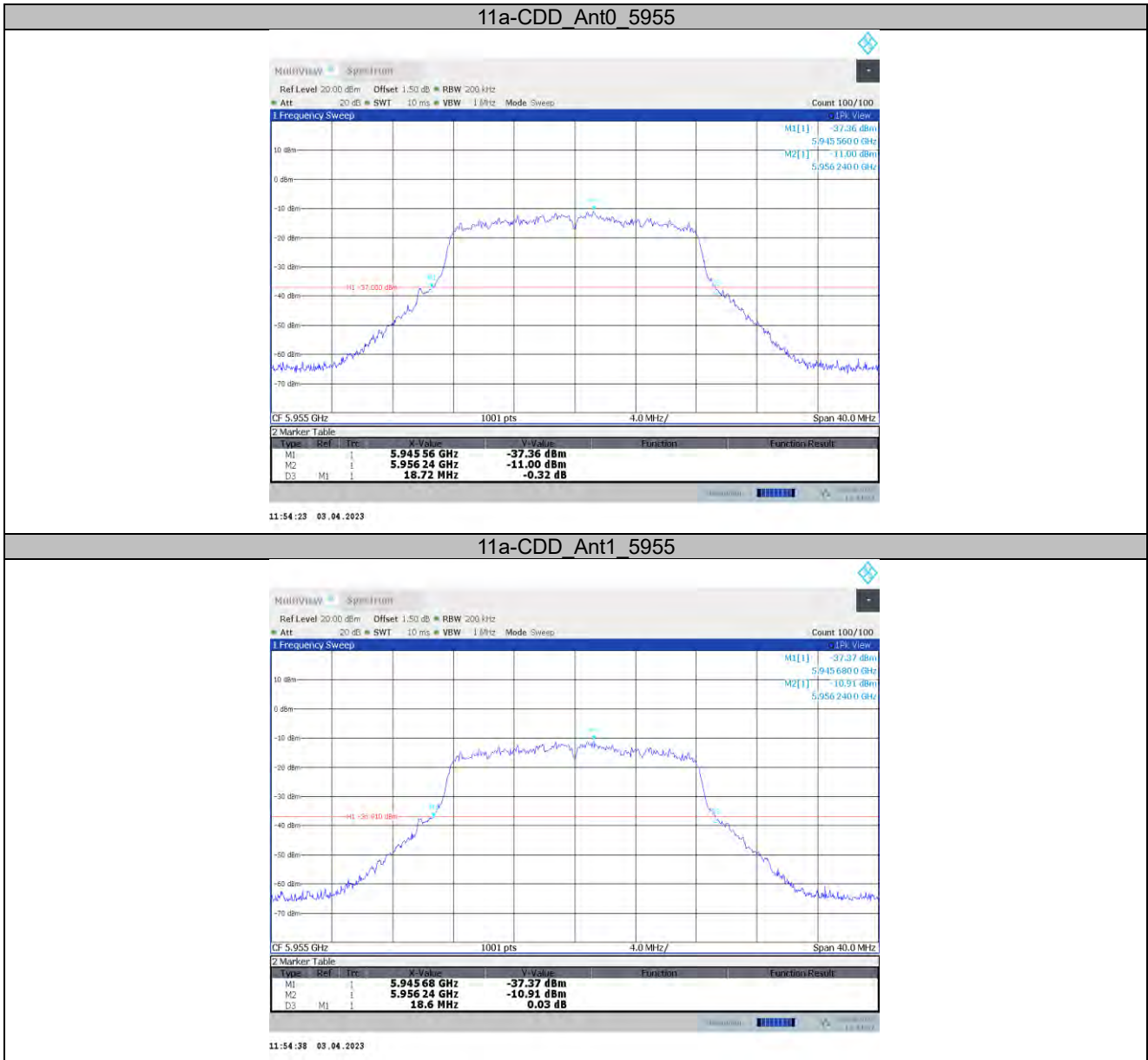


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Test Graphs

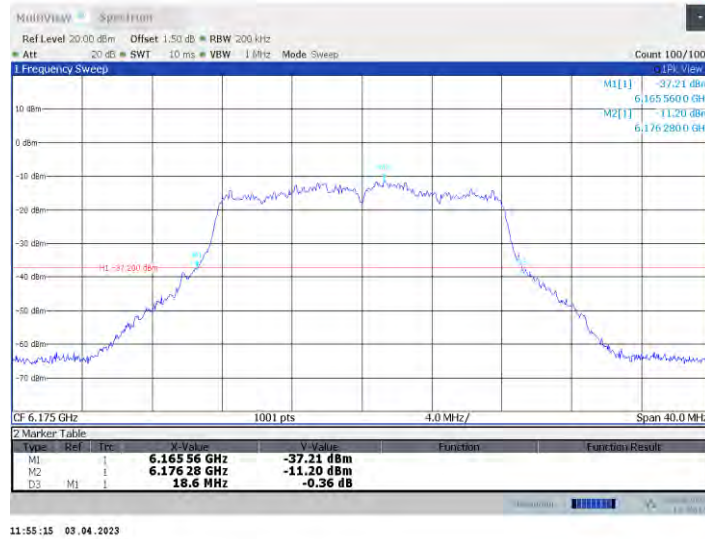


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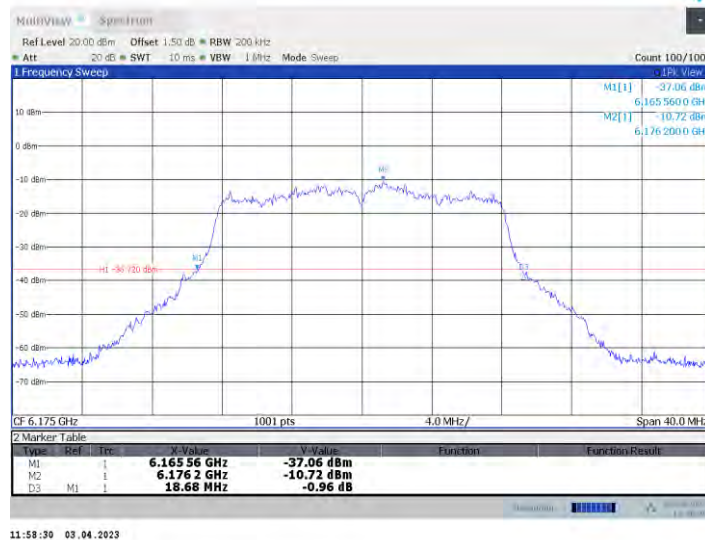
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11a-CDD Ant0 6175



11a-CDD Ant1 6175

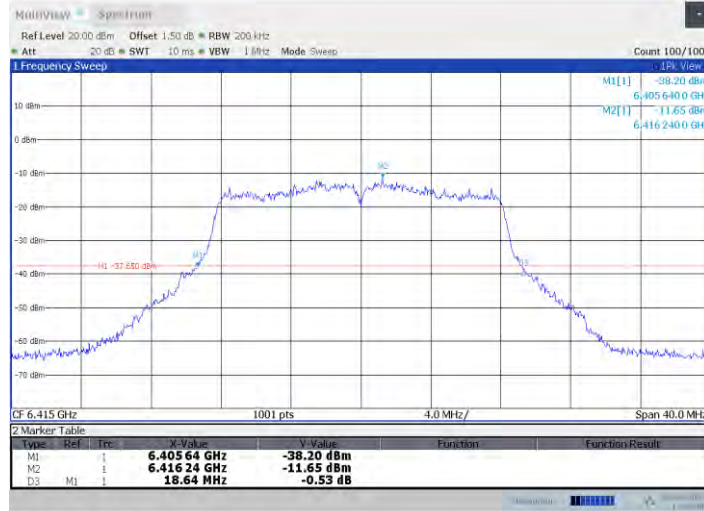


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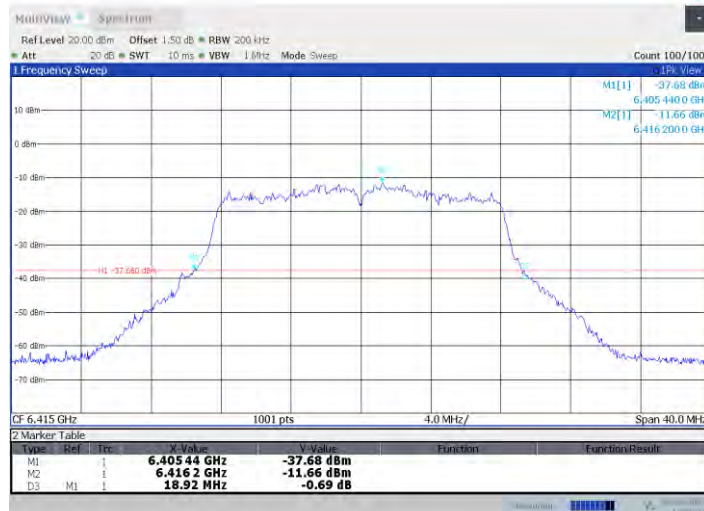
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11a-CDD Ant0 6415



12:02:09 03.04.2023

11a-CDD Ant1 6415



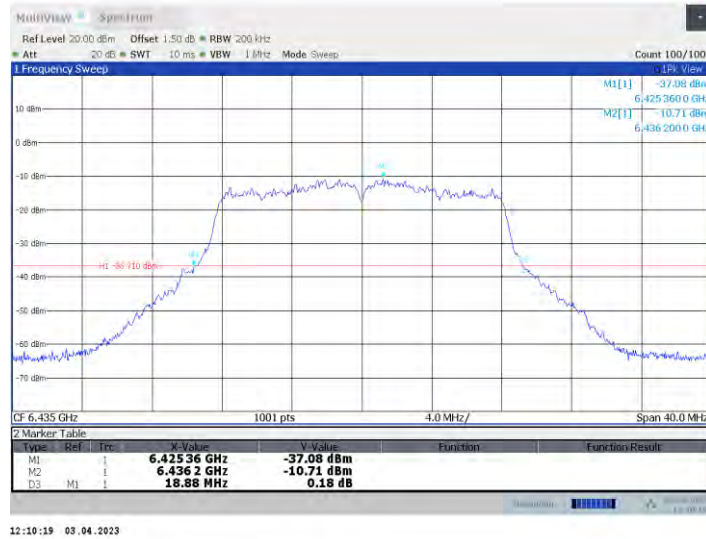
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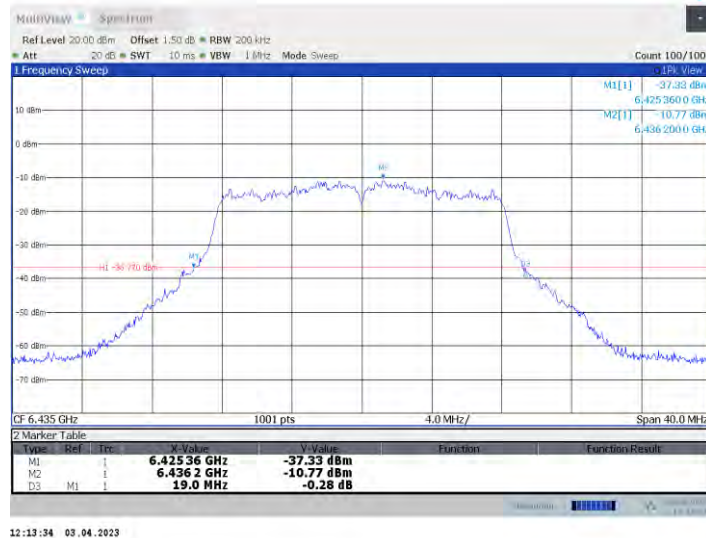
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11a-CDD Ant0 6435



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11a-CDD Ant1 6435



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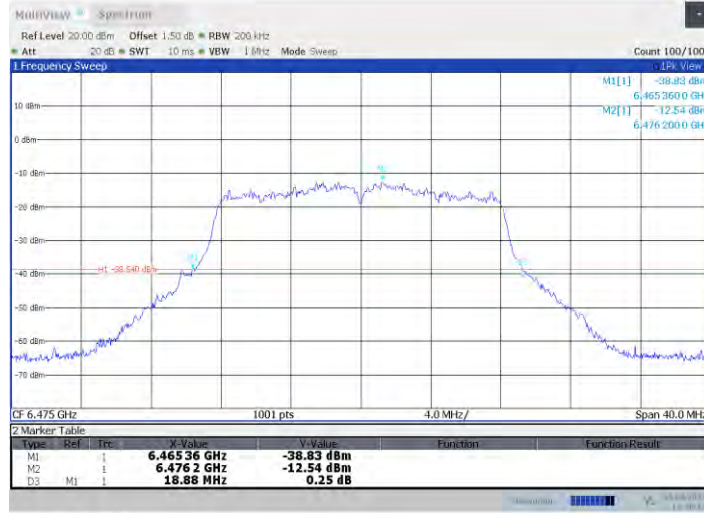


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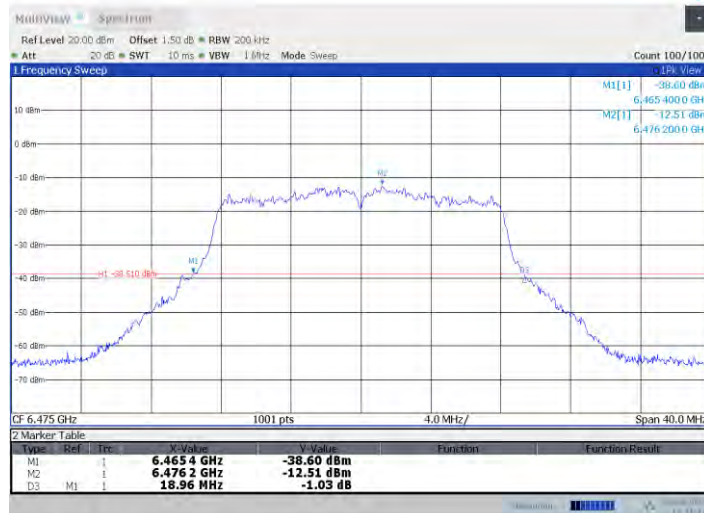
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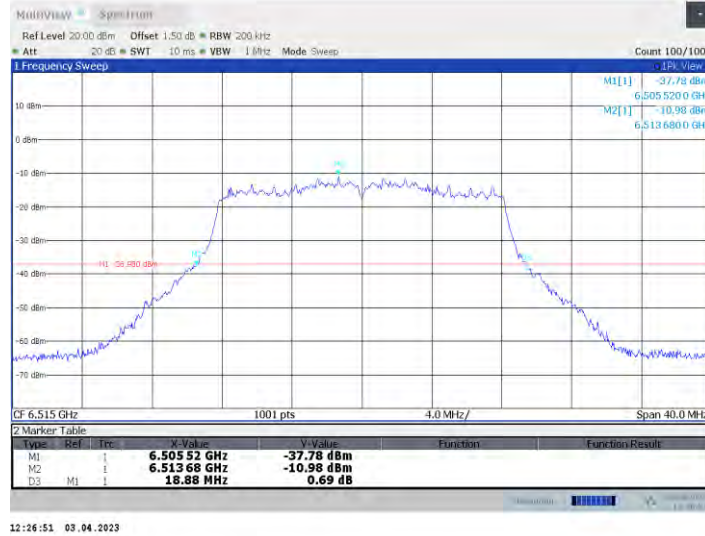


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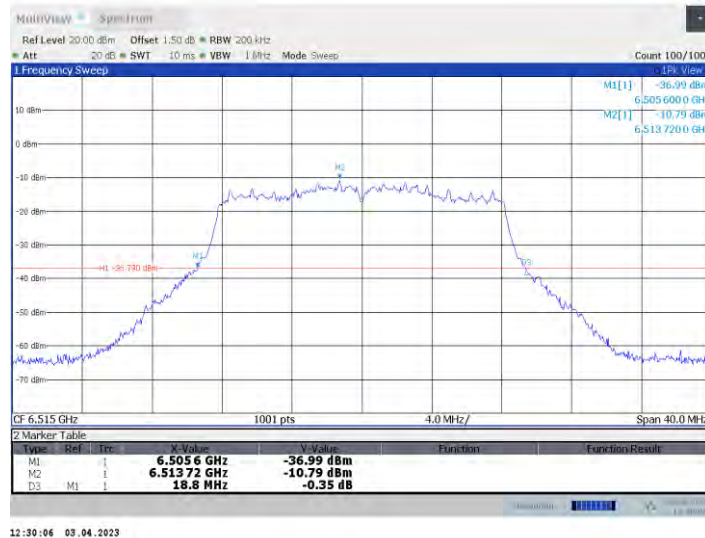
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11a-CDD Ant0 6515



11a-CDD Ant1 6515

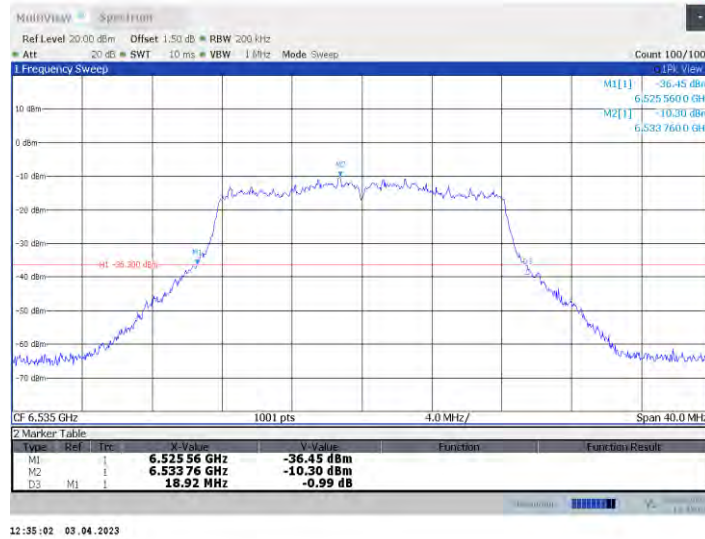


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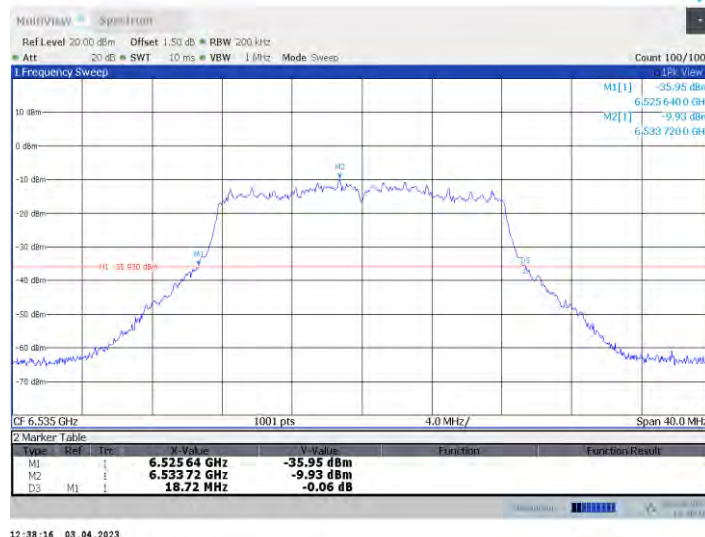
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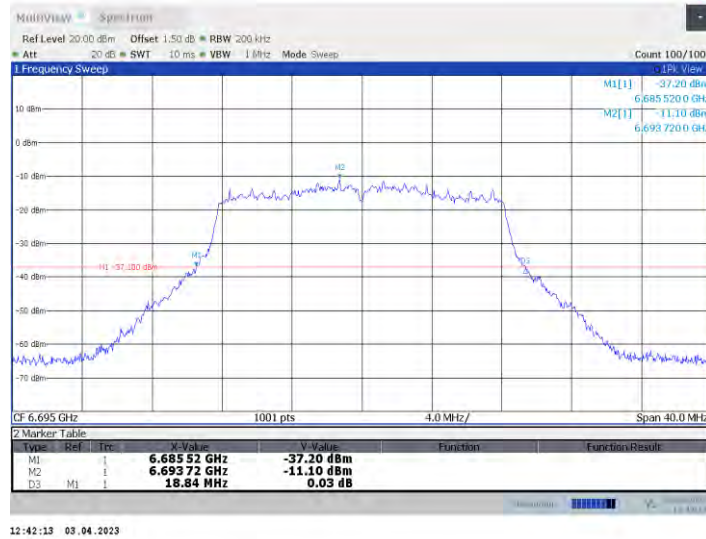


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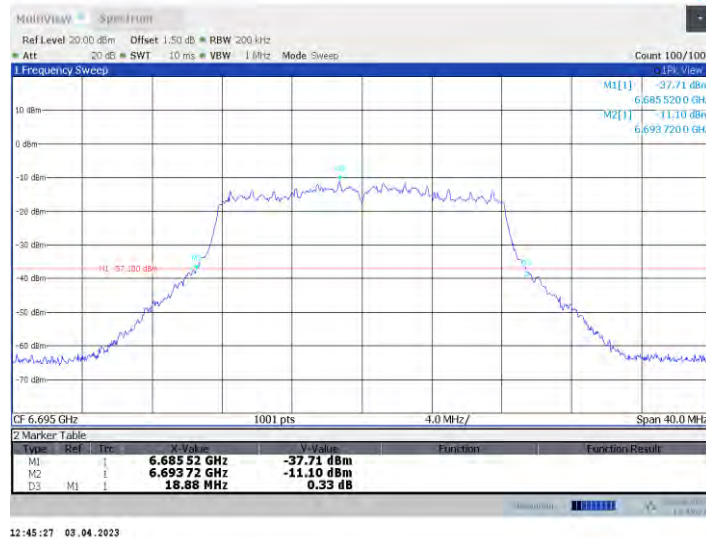
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11a-CDD Ant1 6695



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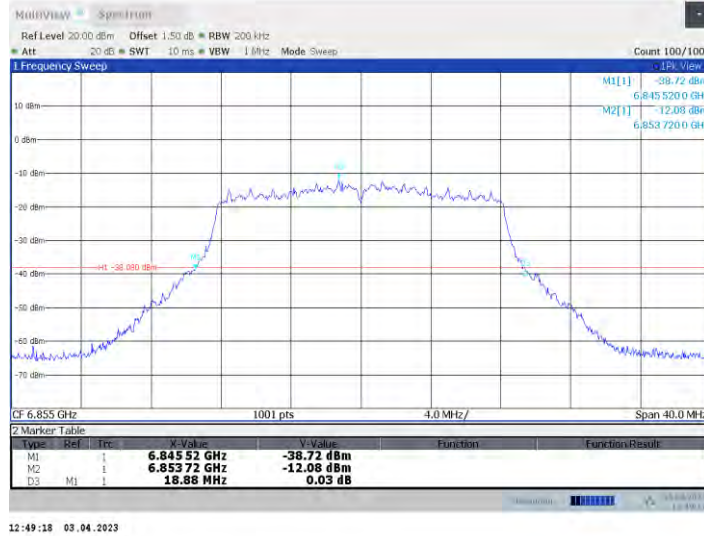


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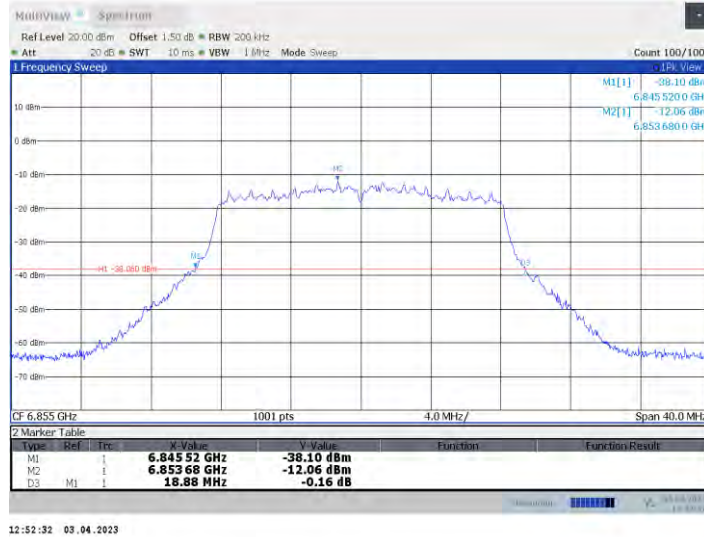
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11a-CDD Ant0 6855



11a-CDD Ant1 6855

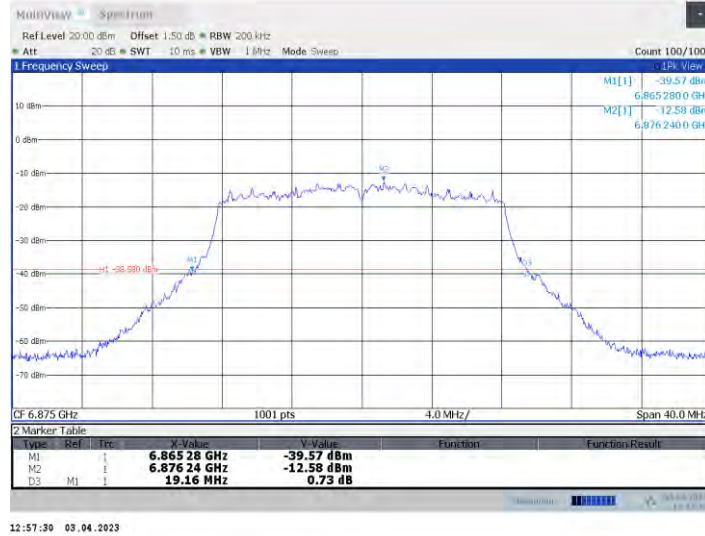


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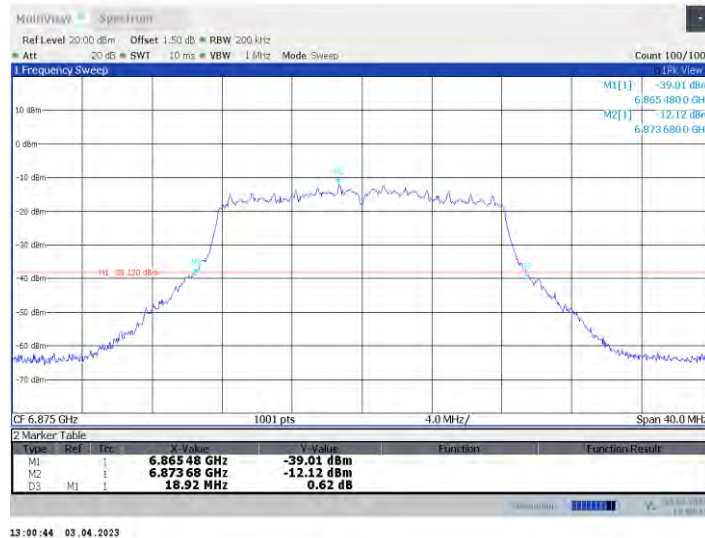
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11a-CDD Ant0 6875



11a-CDD Ant1 6875

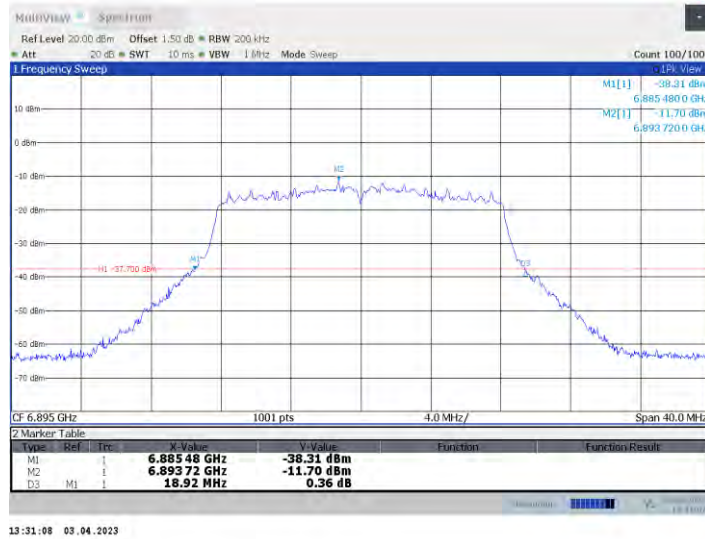


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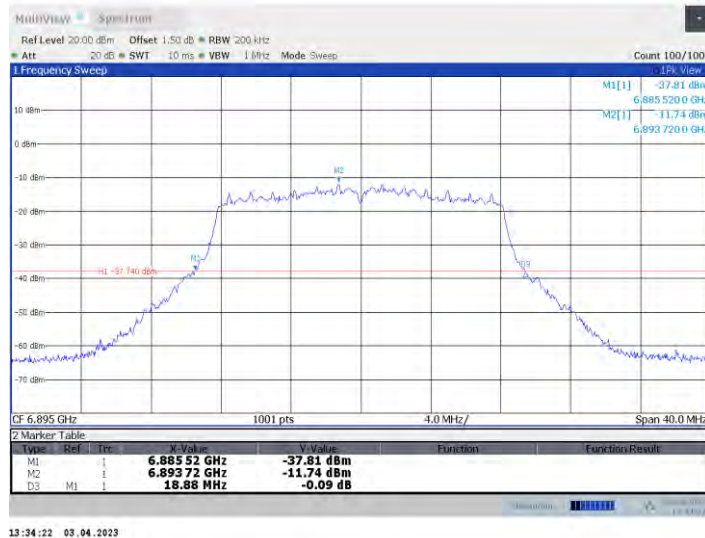
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11a-CDD Ant0 6895



11a-CDD Ant1 6895

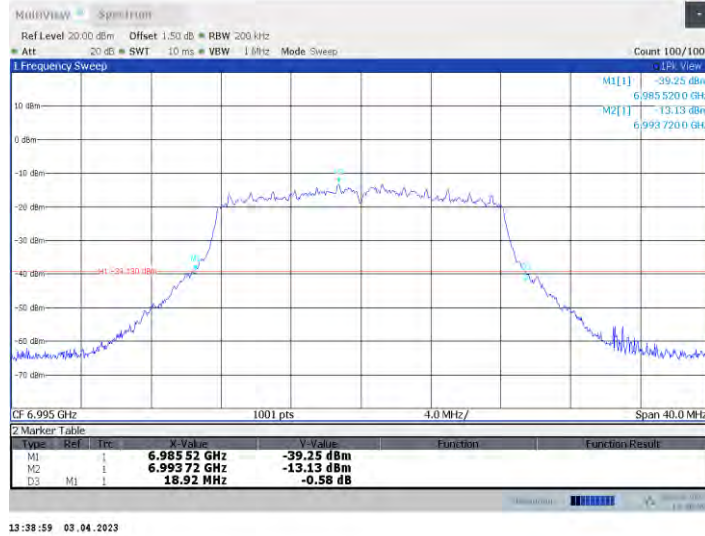


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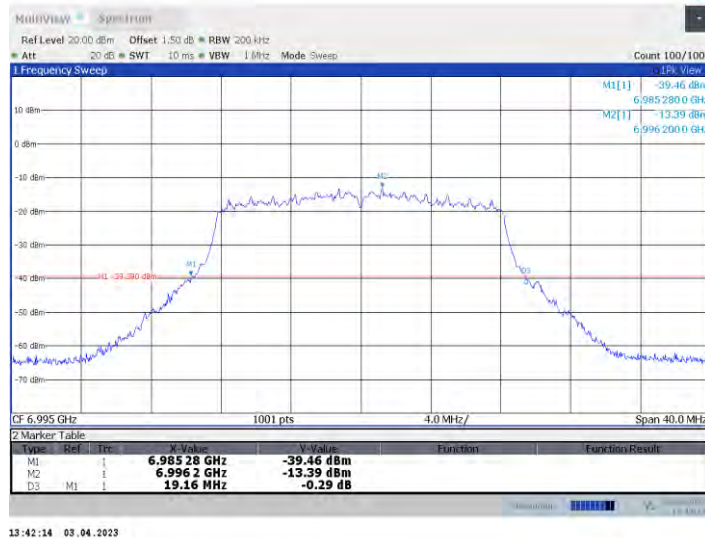
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11a-CDD Ant0 6995



11a-CDD Ant1 6995

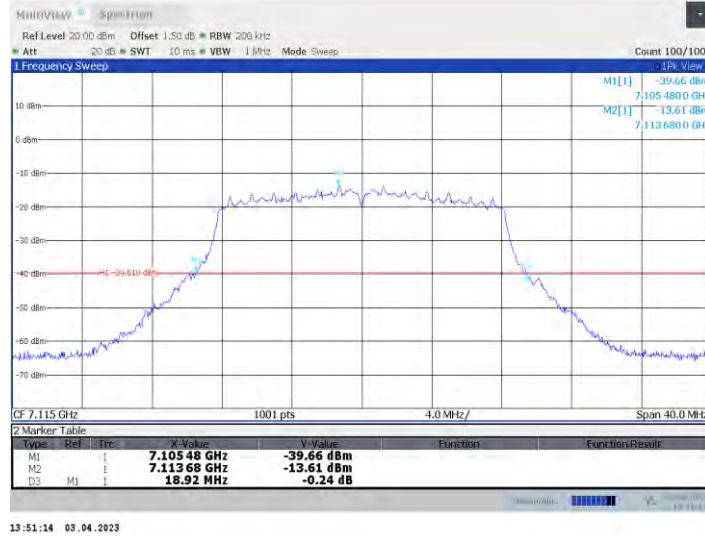


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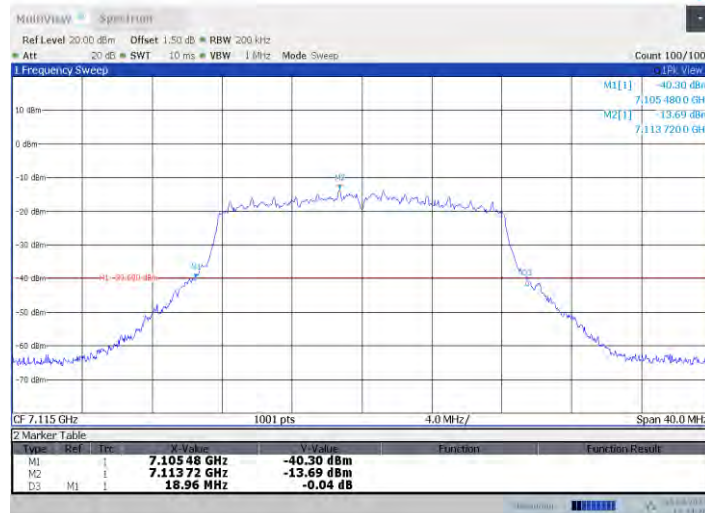
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11a-CDD Ant0 7115



13:51:14 03.04.2023

11a-CDD Ant1 7115



13:54:29 03.04.2023

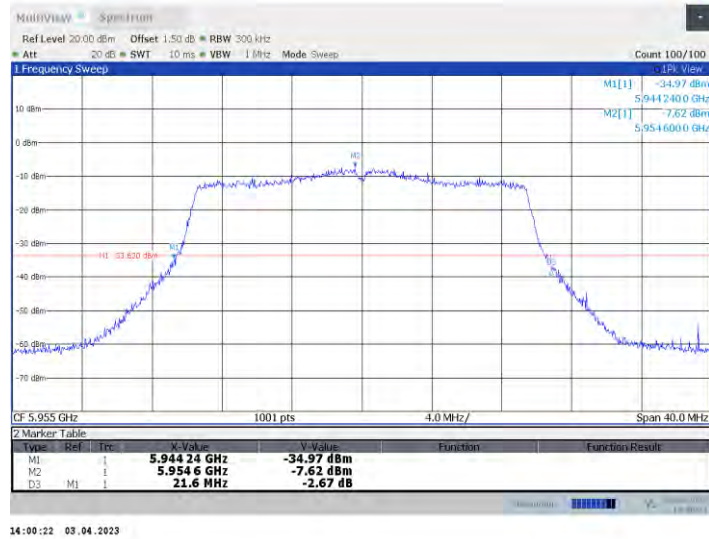


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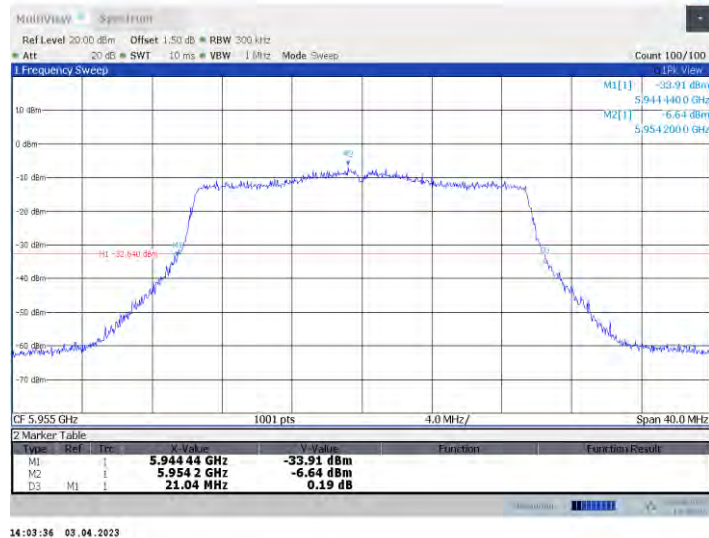
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14:00:22 03.04.2023

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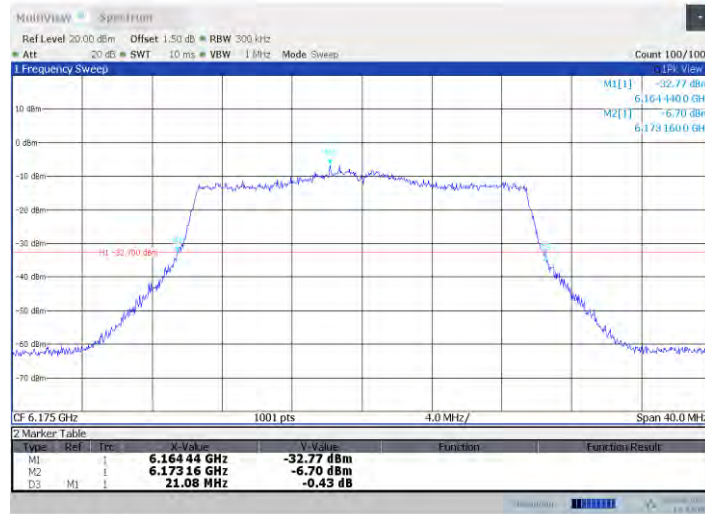


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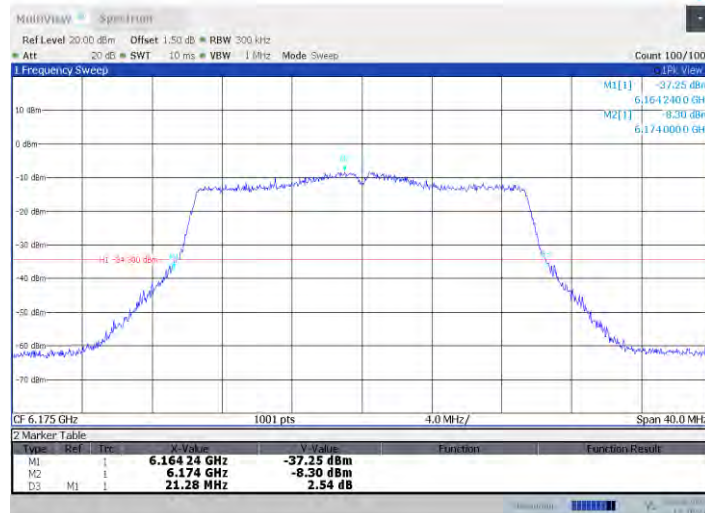
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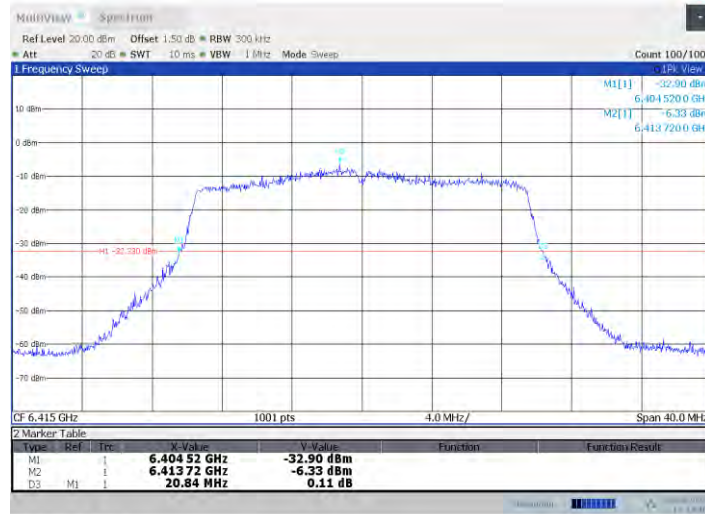


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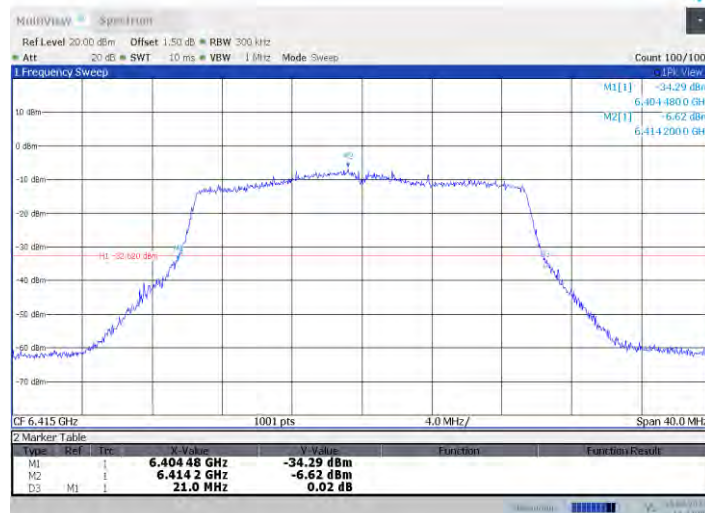
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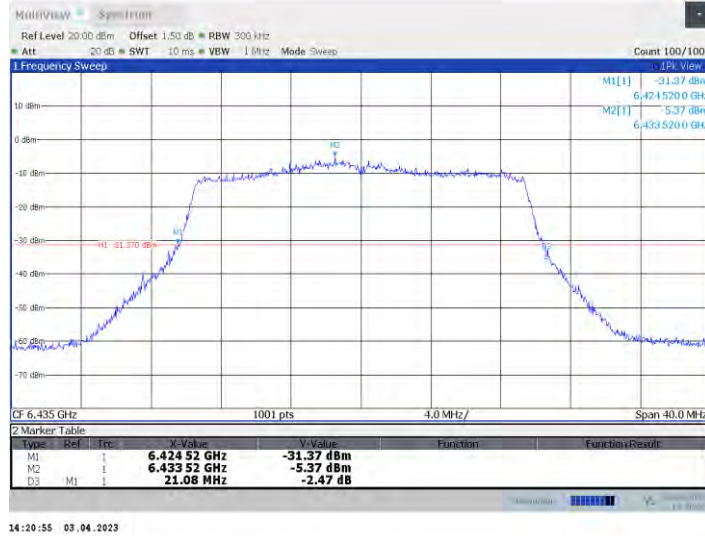


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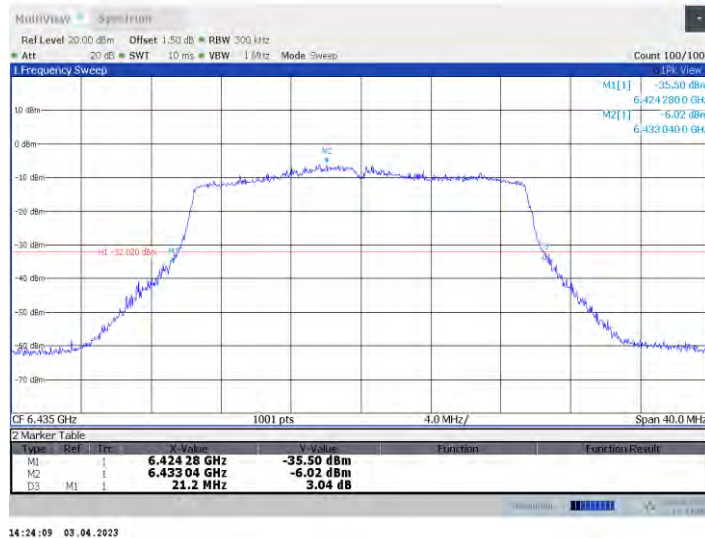
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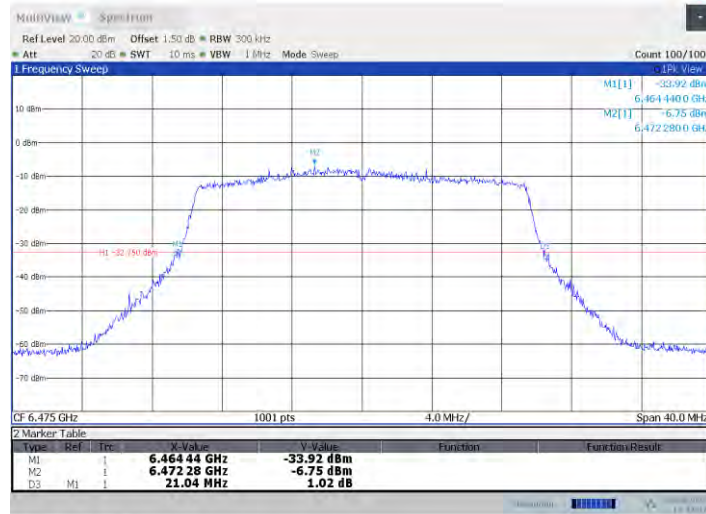


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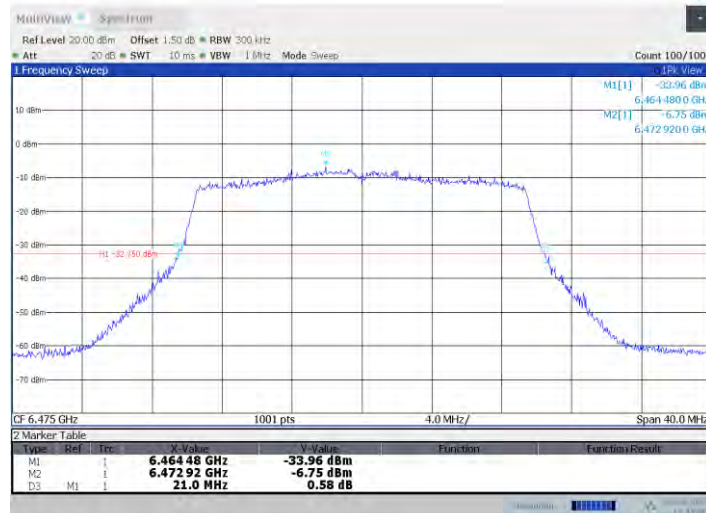
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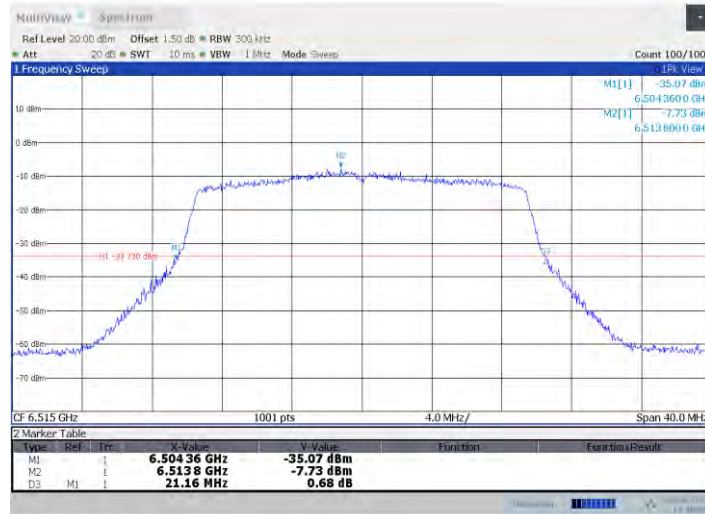


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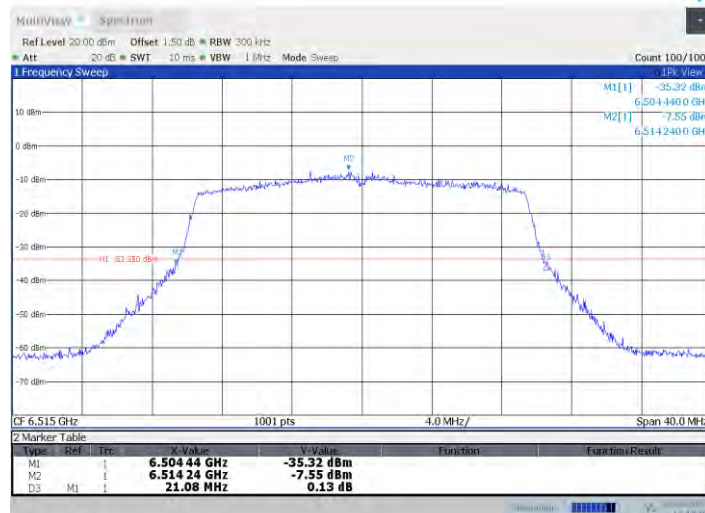
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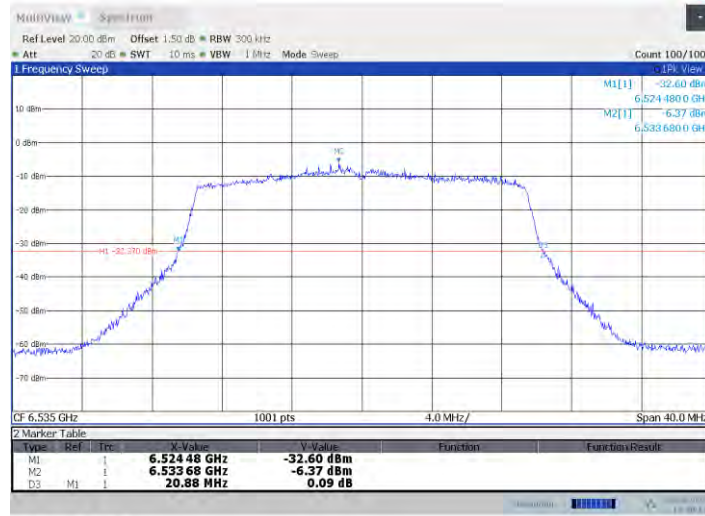


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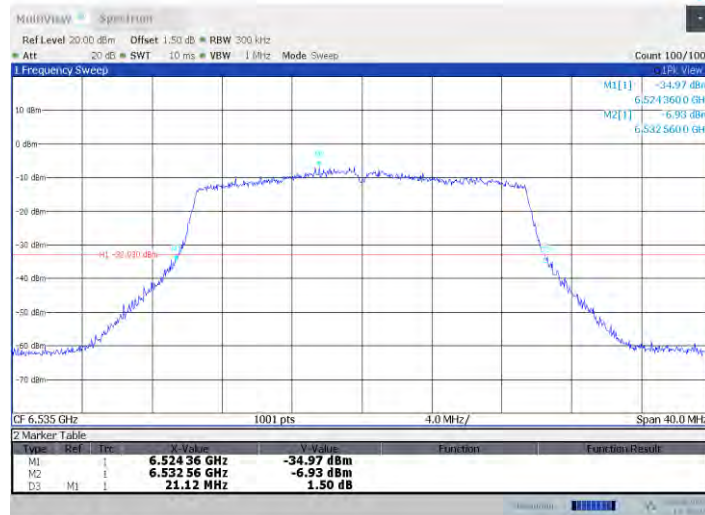
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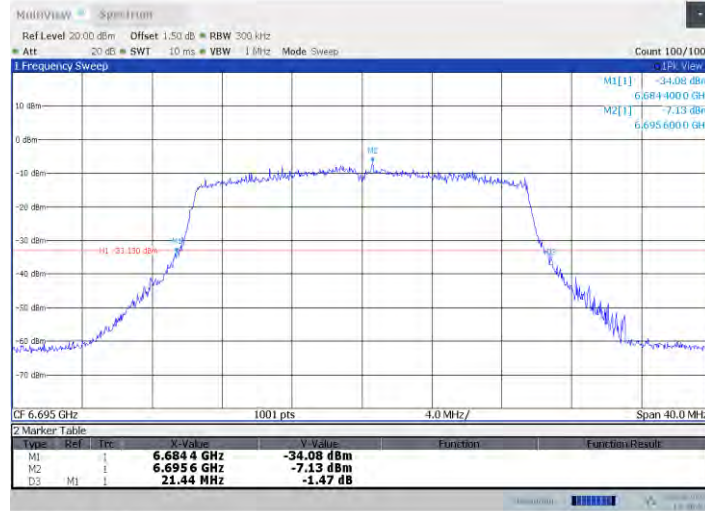


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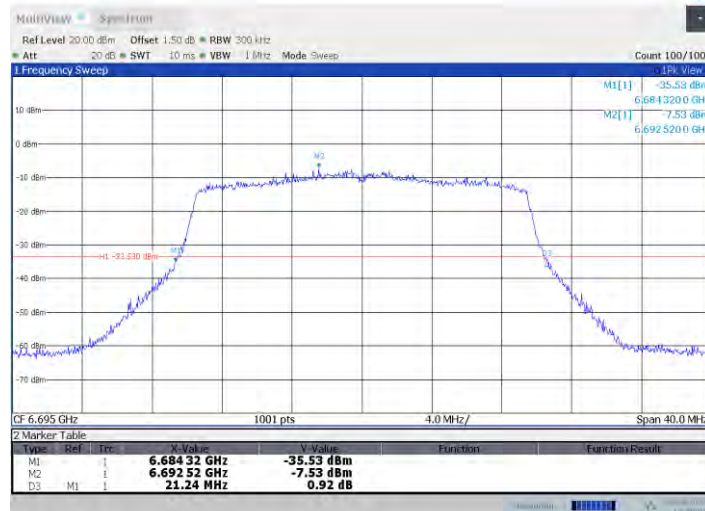
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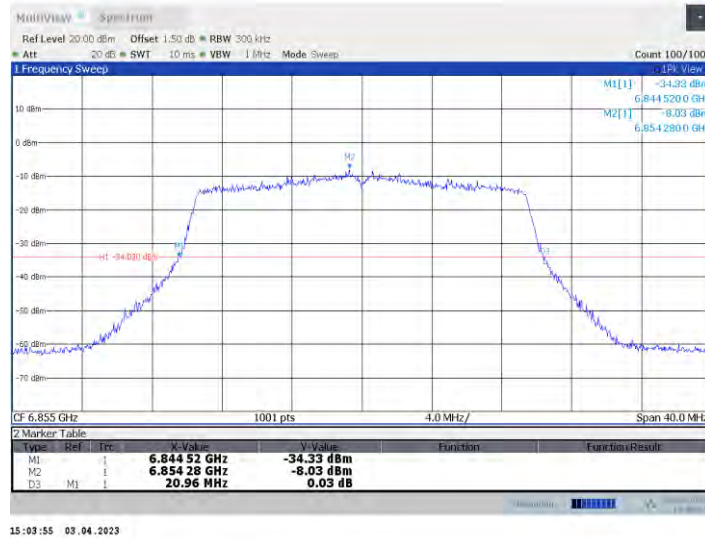


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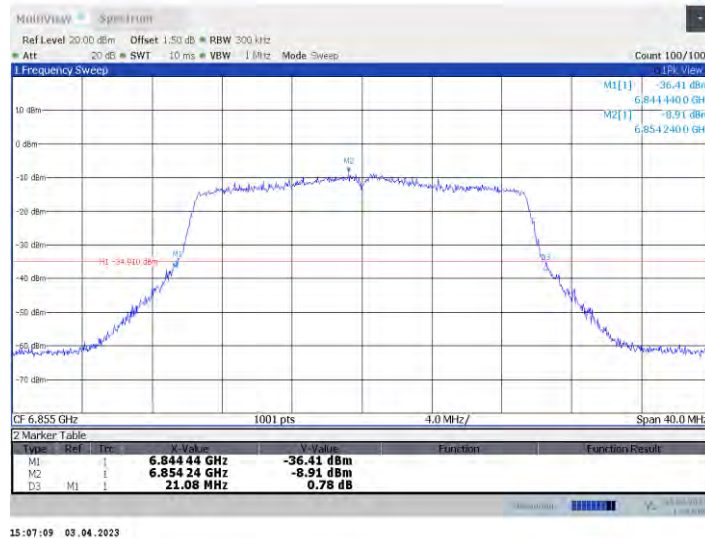
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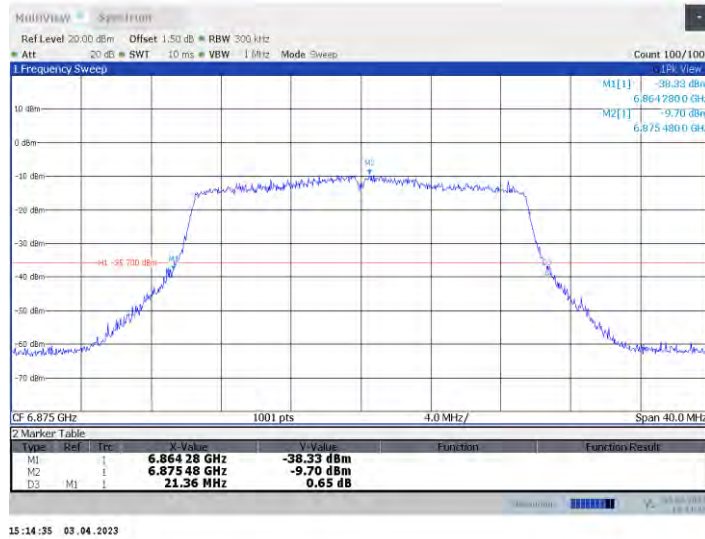


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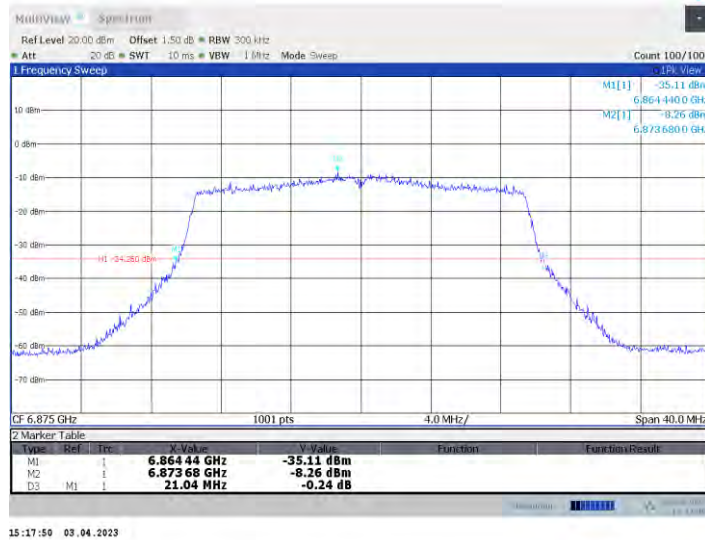
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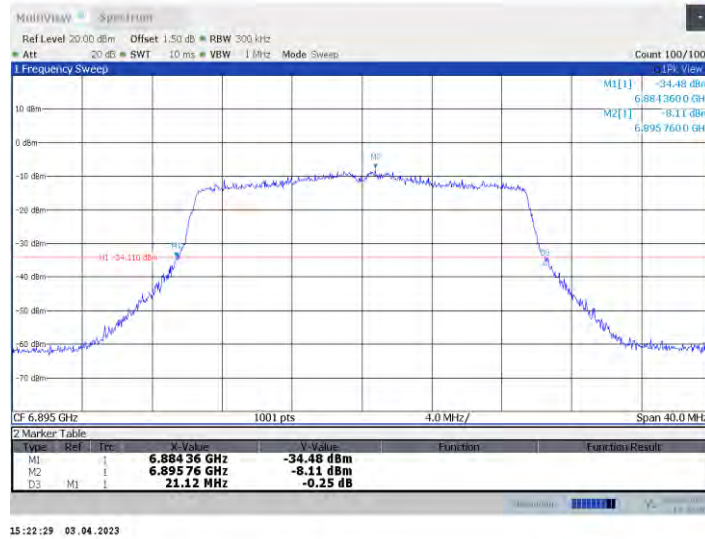


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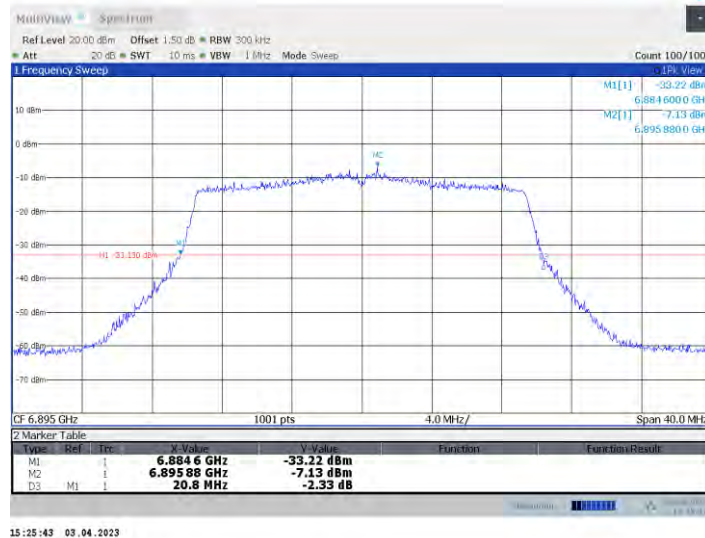
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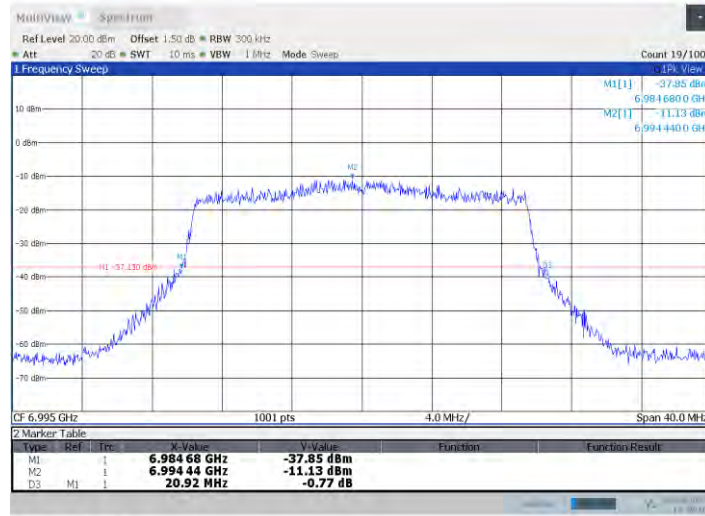


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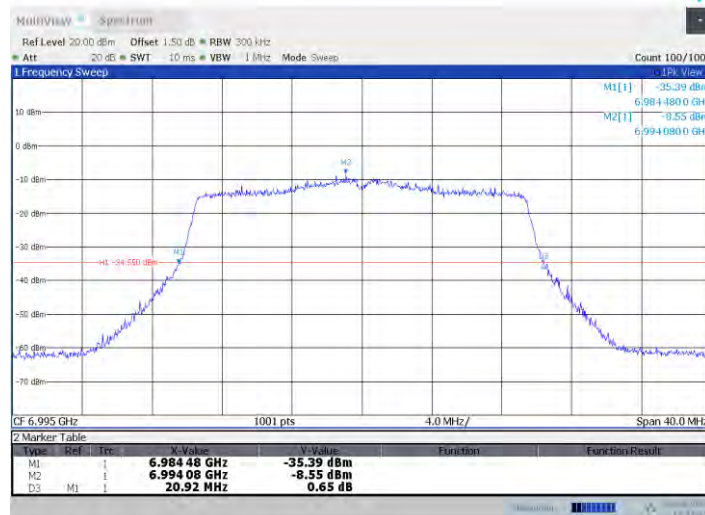
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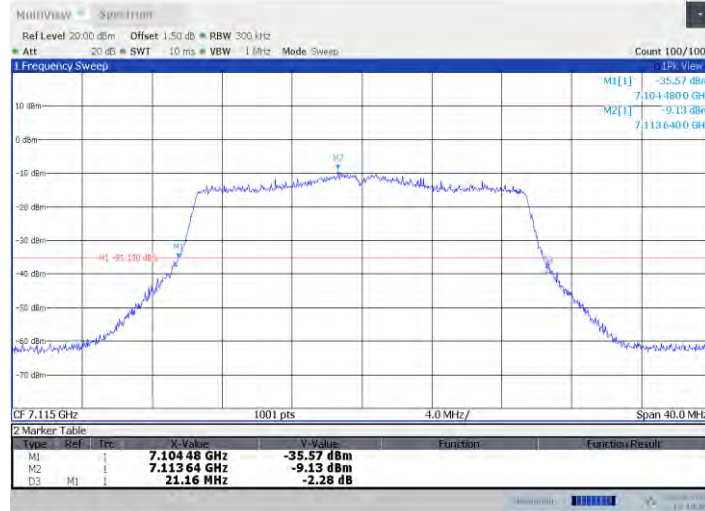


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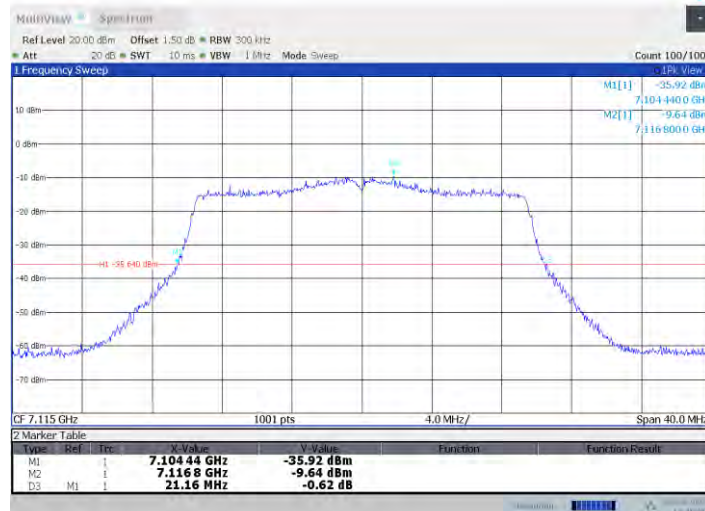
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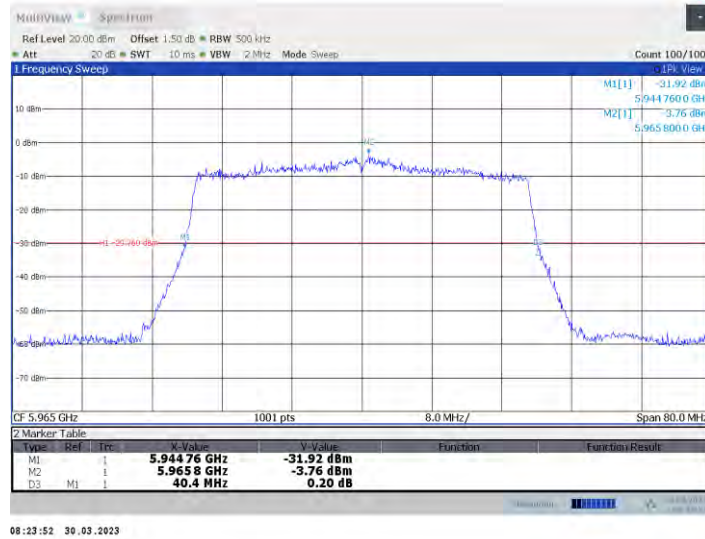


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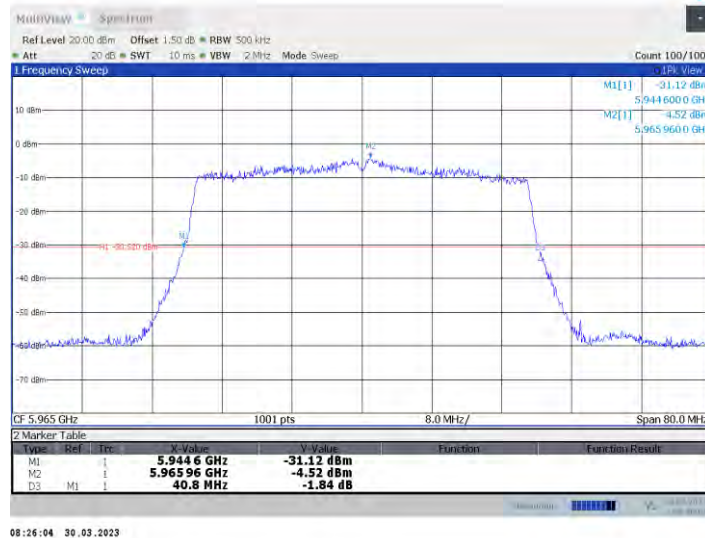
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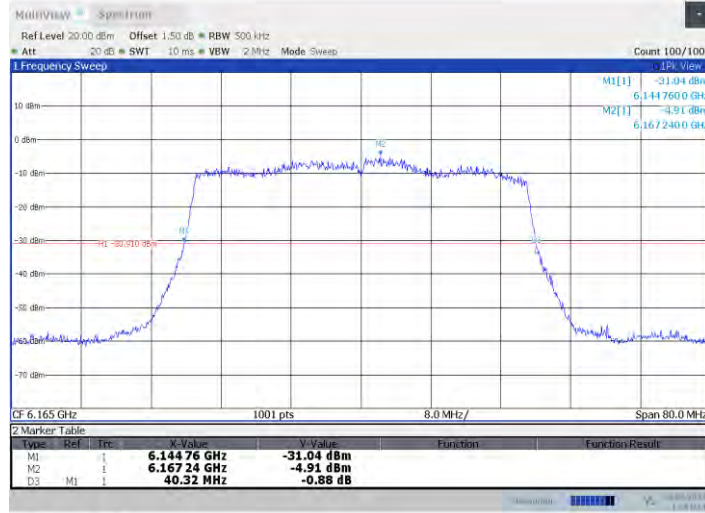


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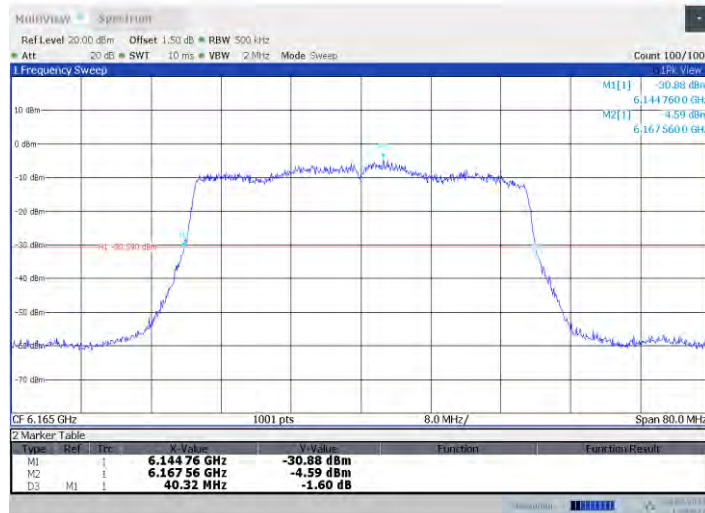
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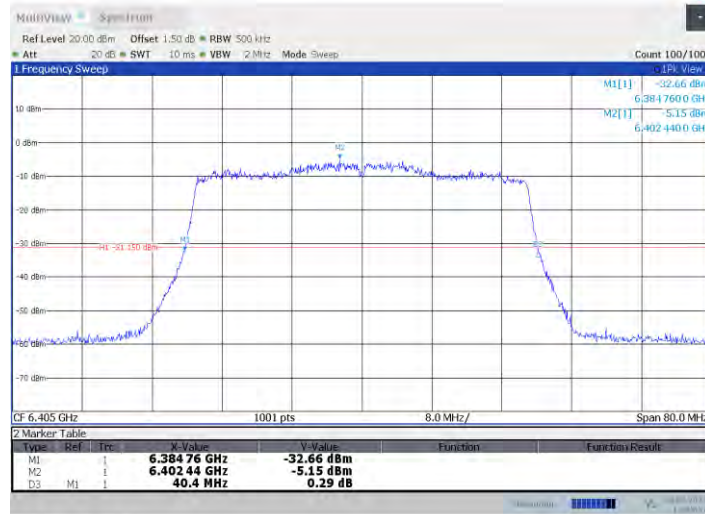


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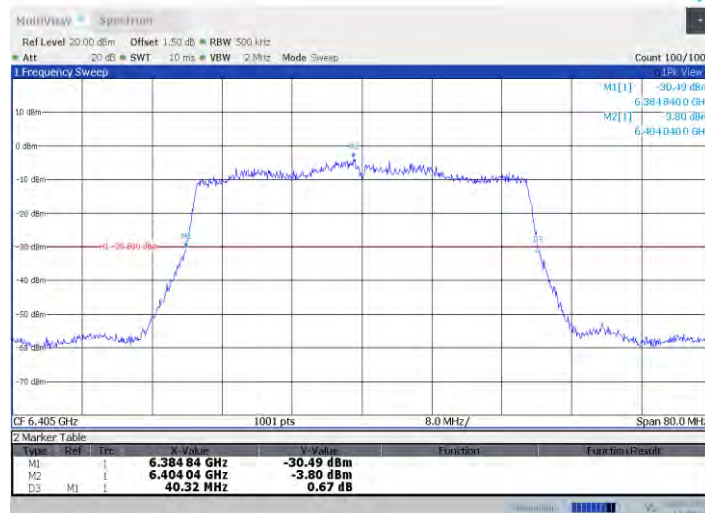
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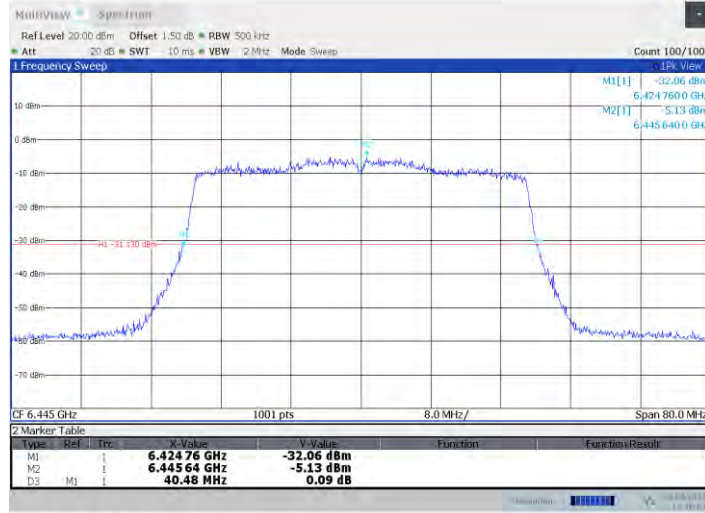


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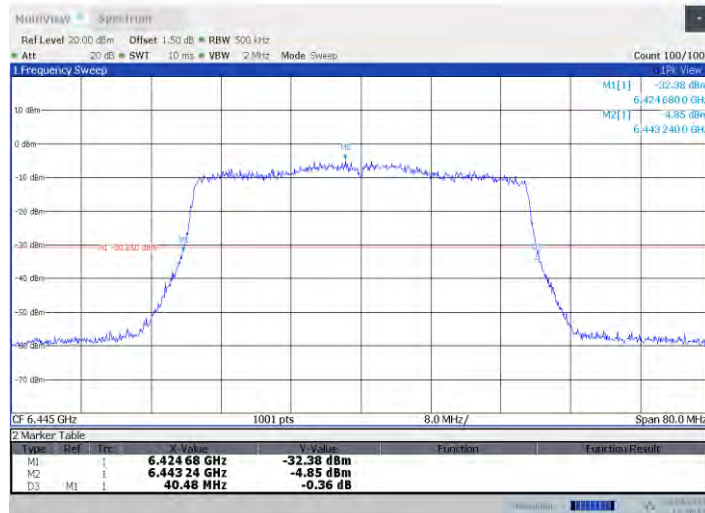
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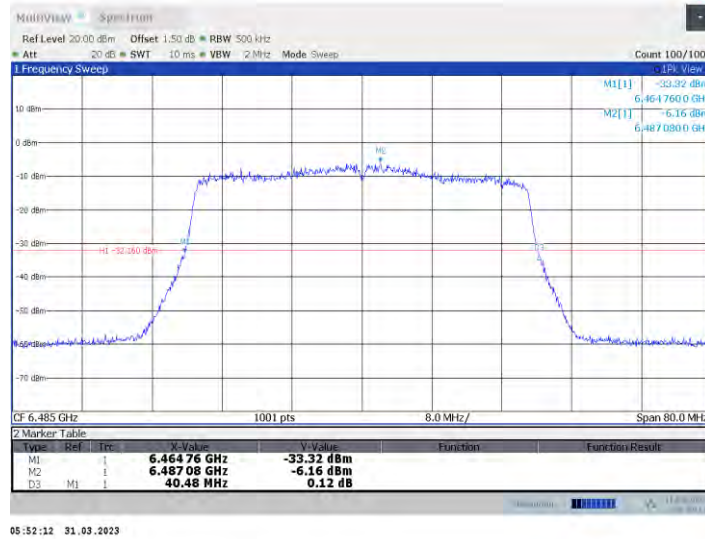


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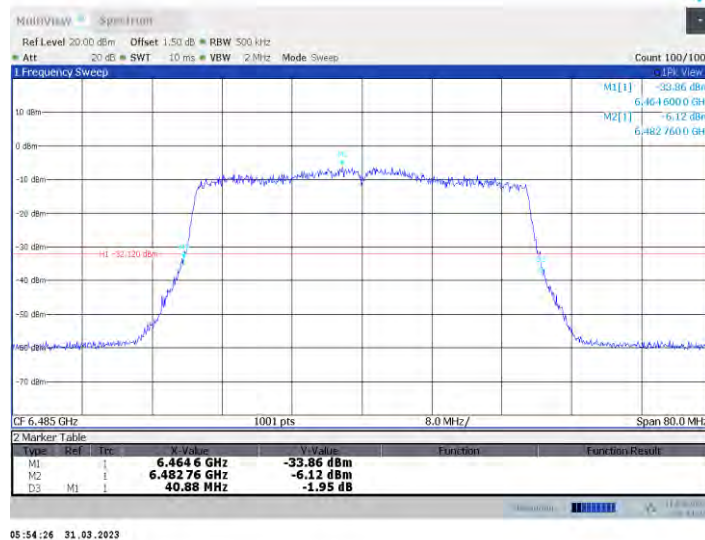
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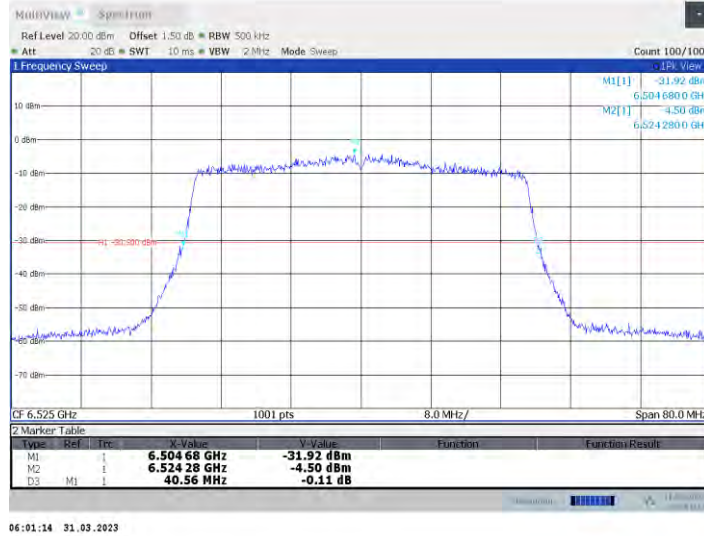


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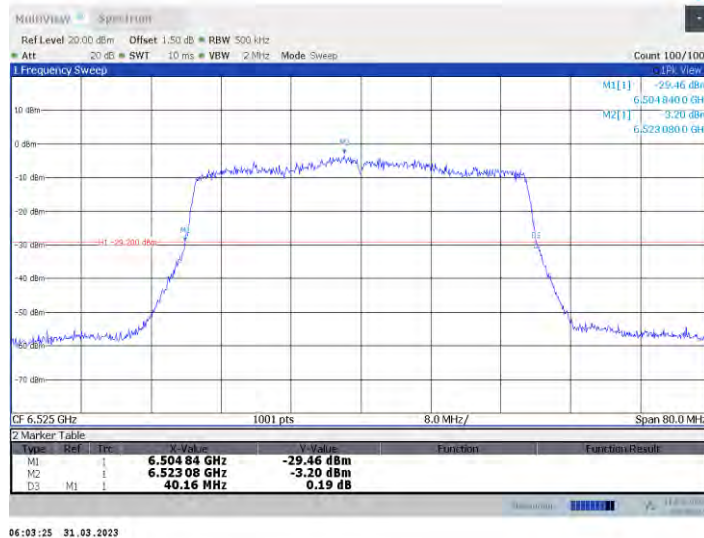
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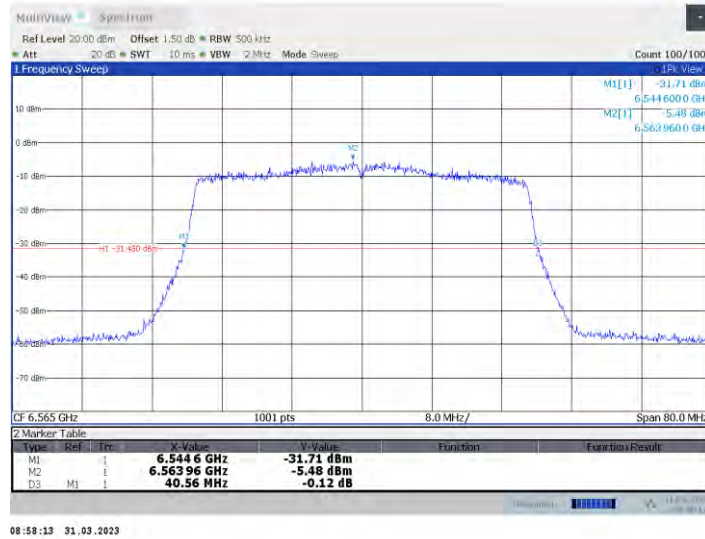


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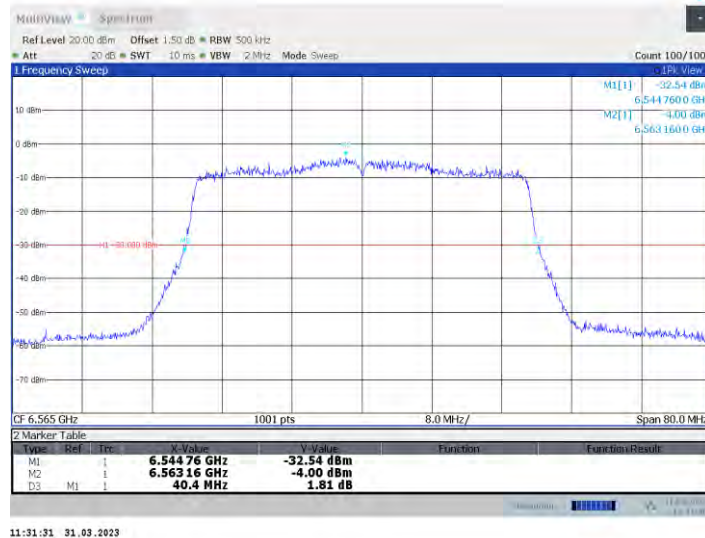
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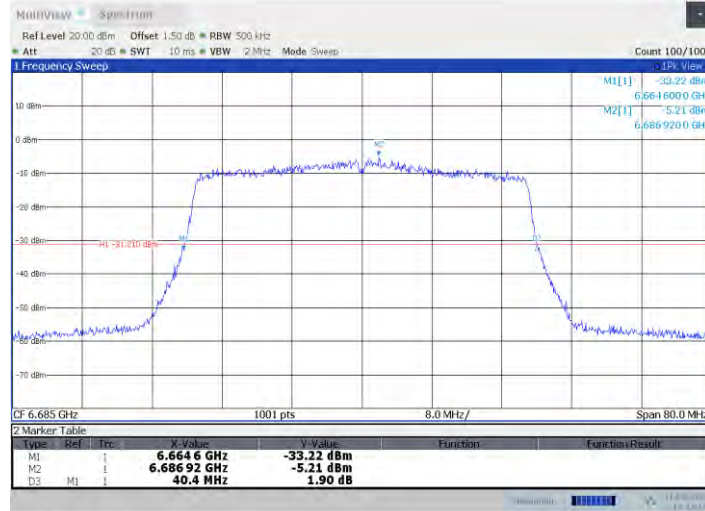


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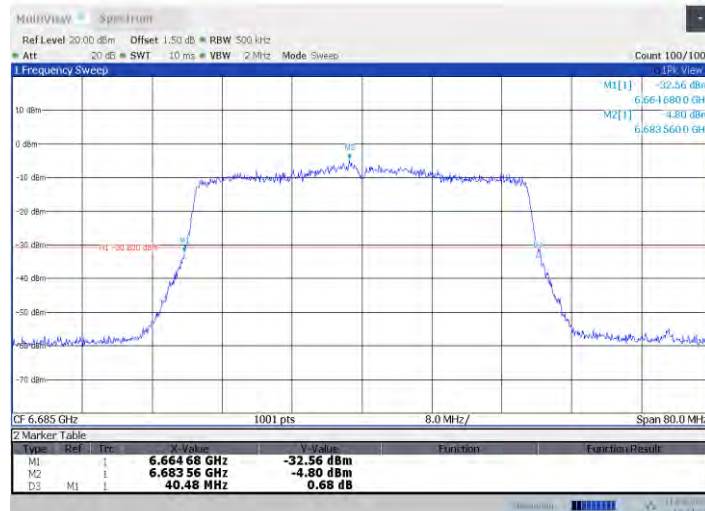
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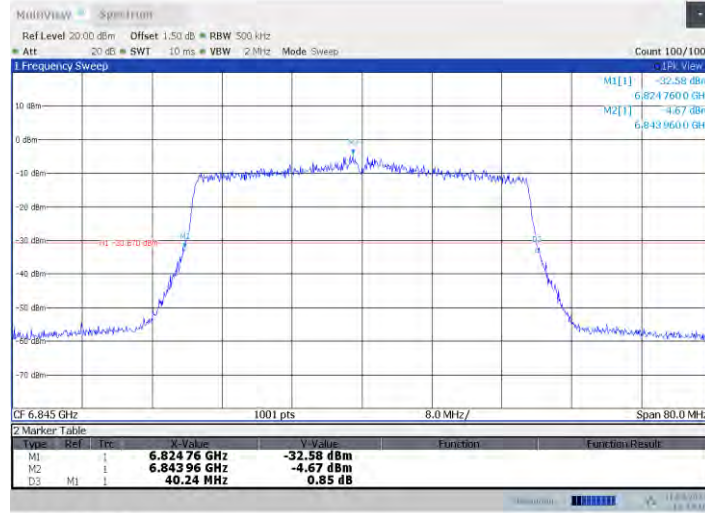


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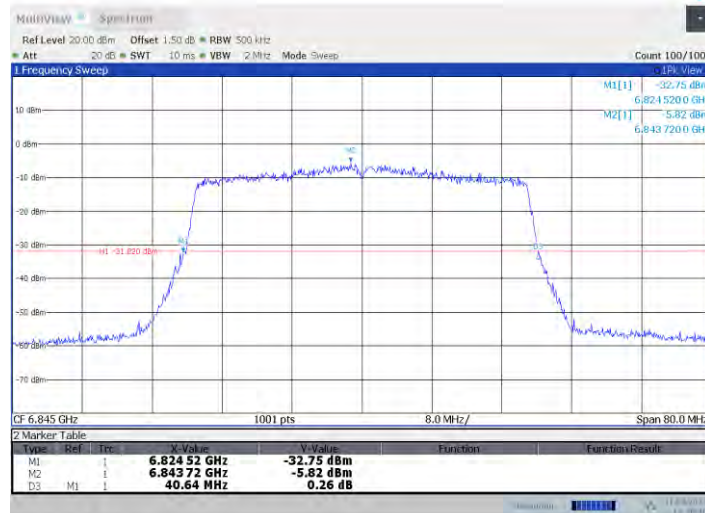
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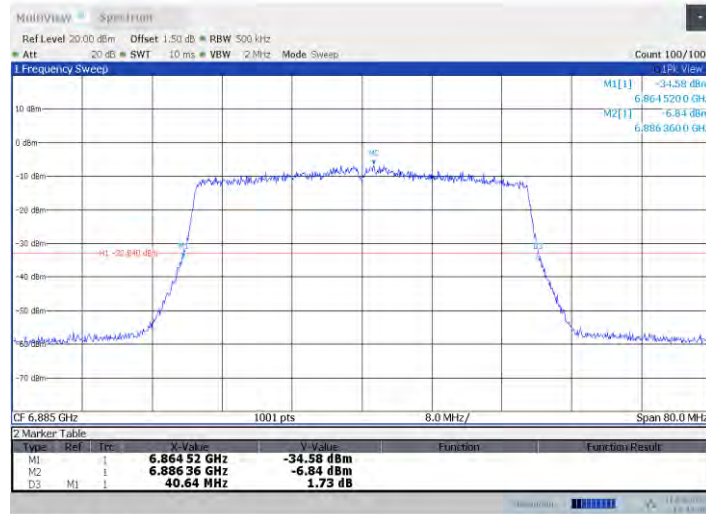


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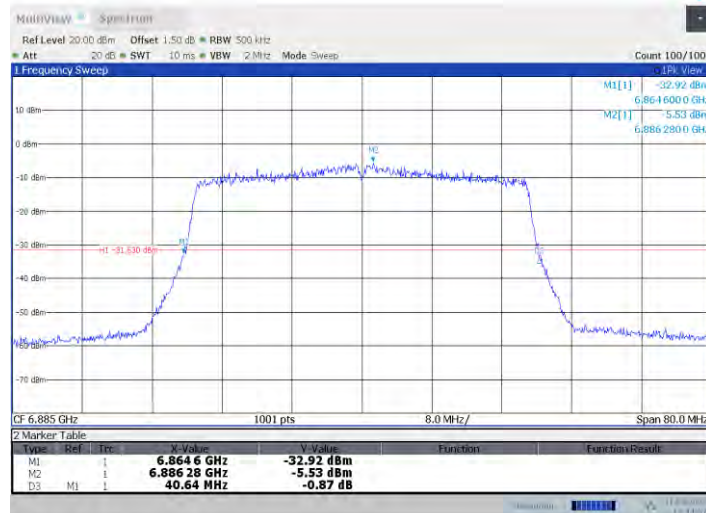
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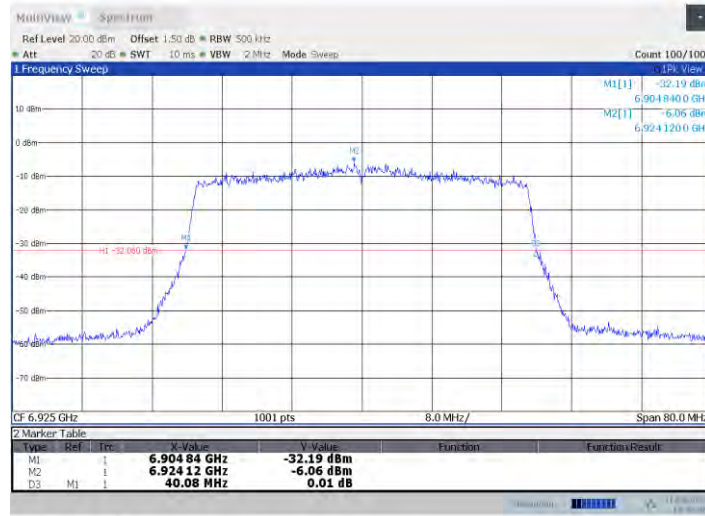


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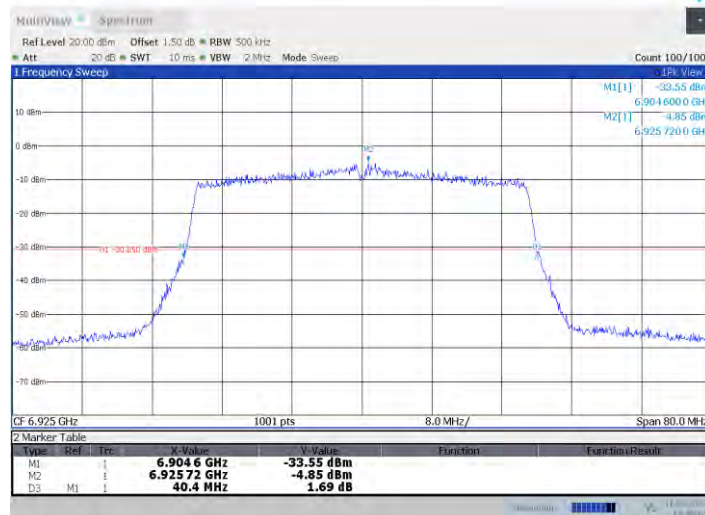
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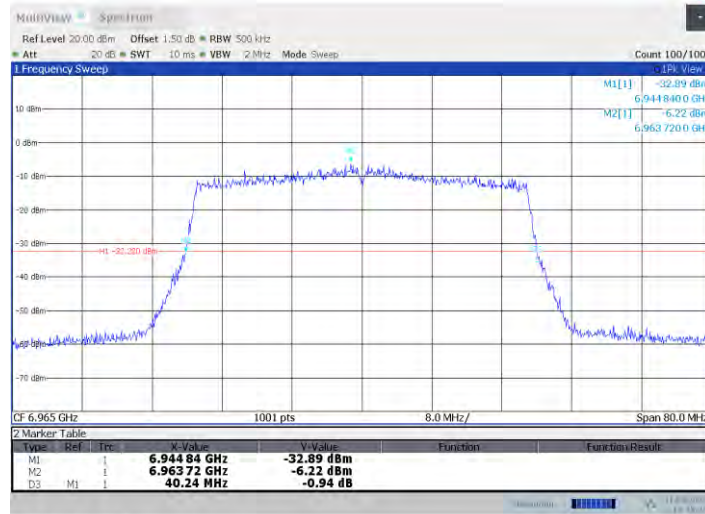


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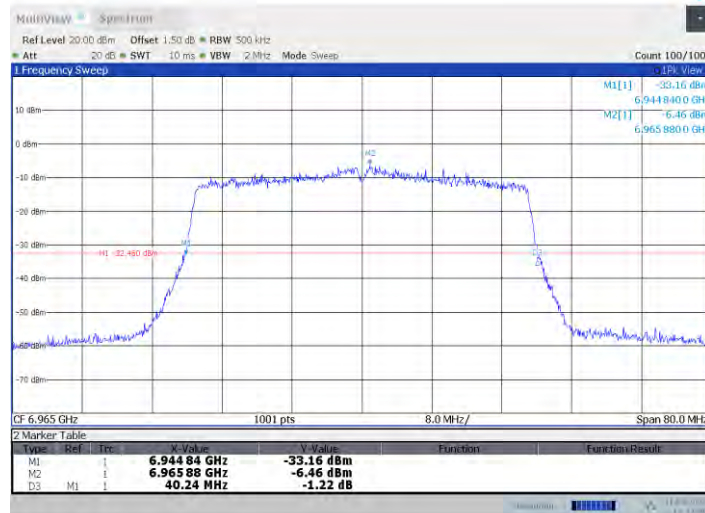
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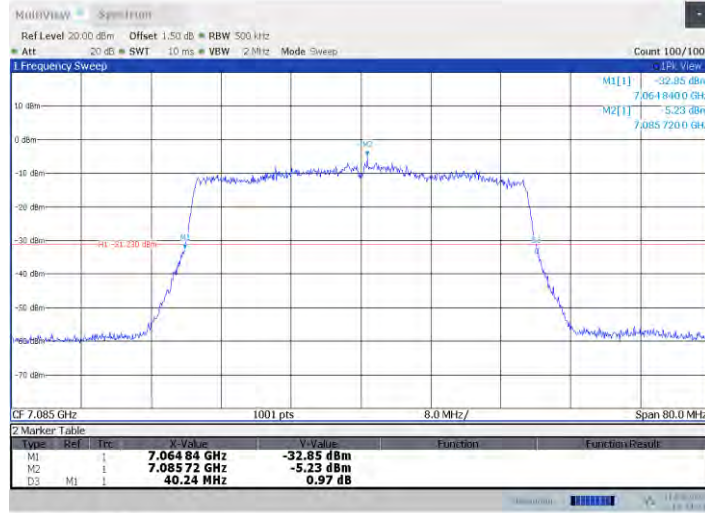


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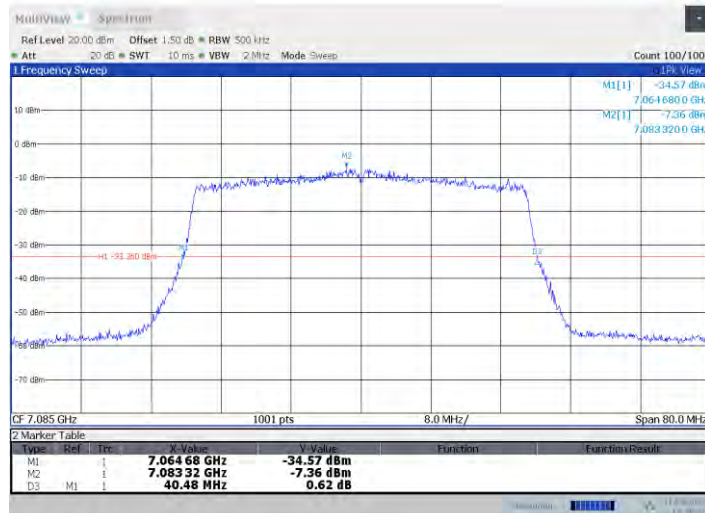
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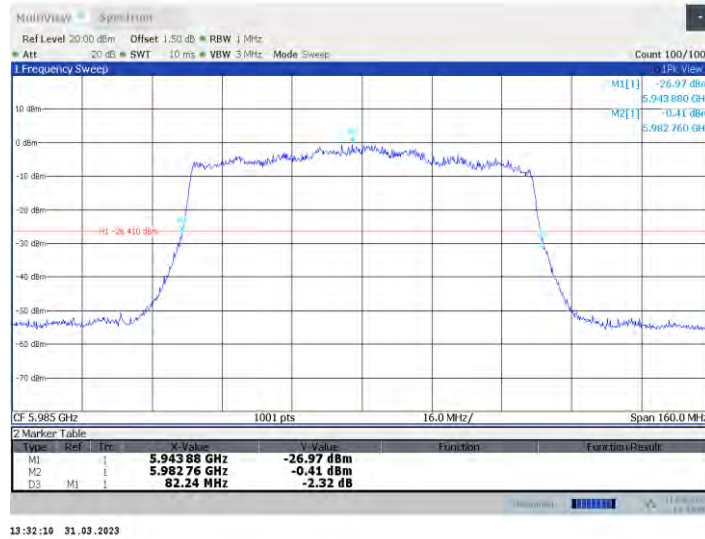


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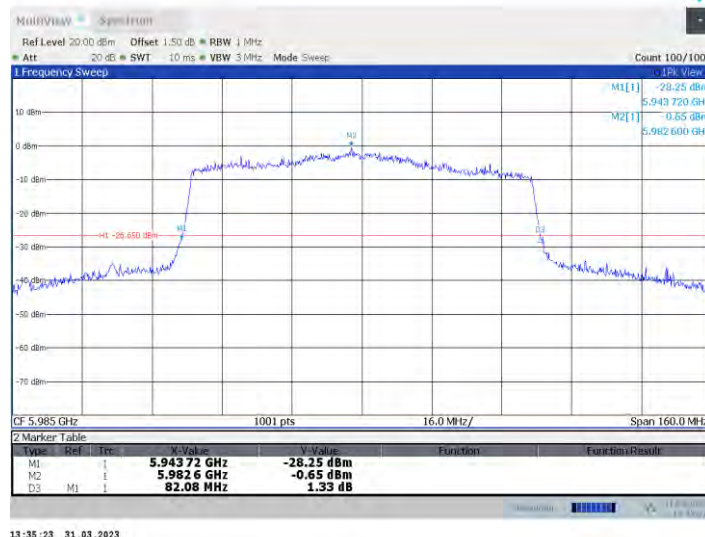
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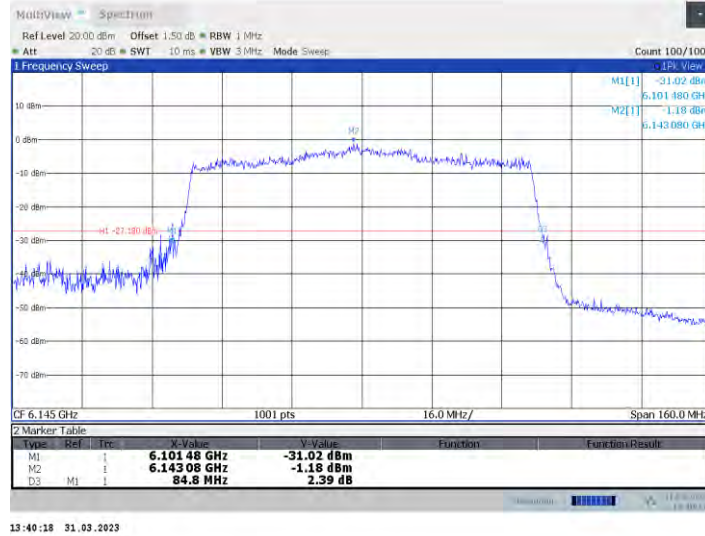


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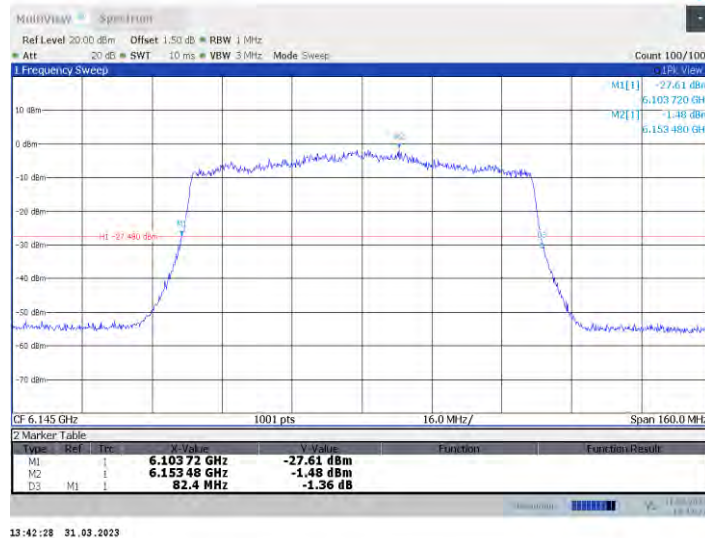
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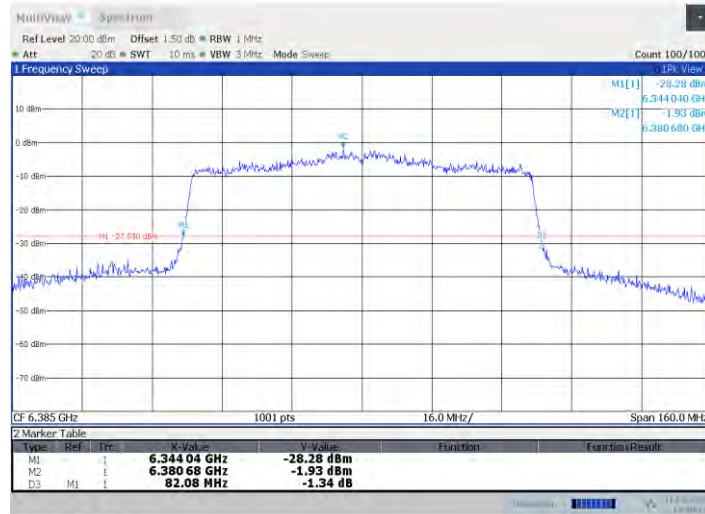


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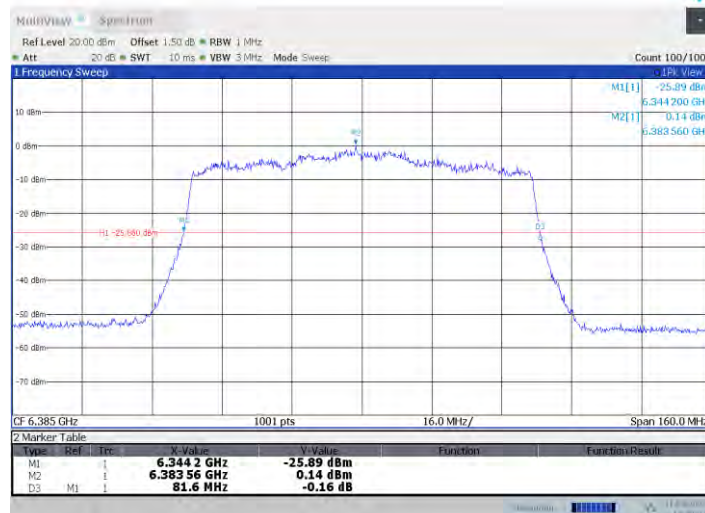
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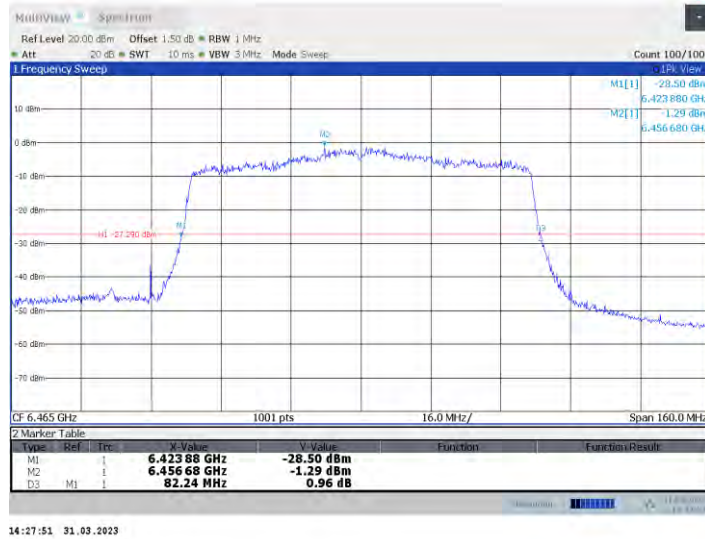


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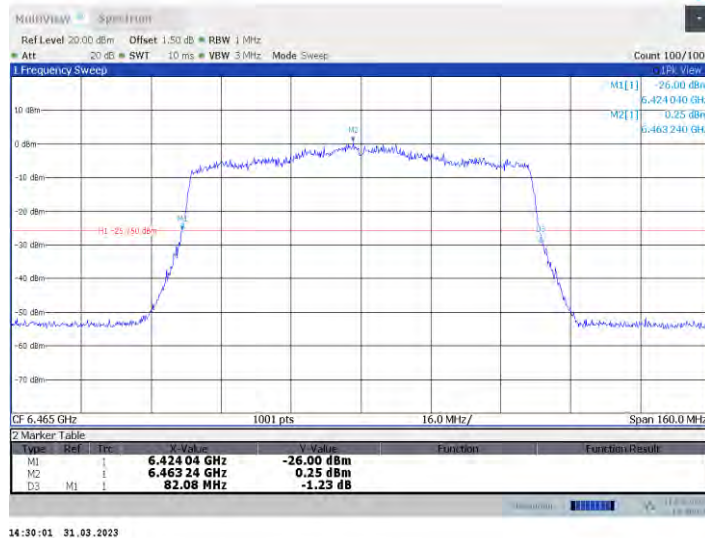
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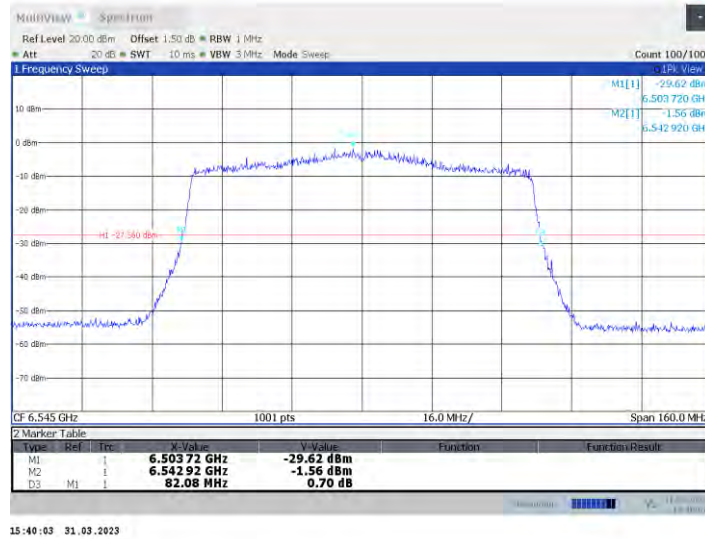


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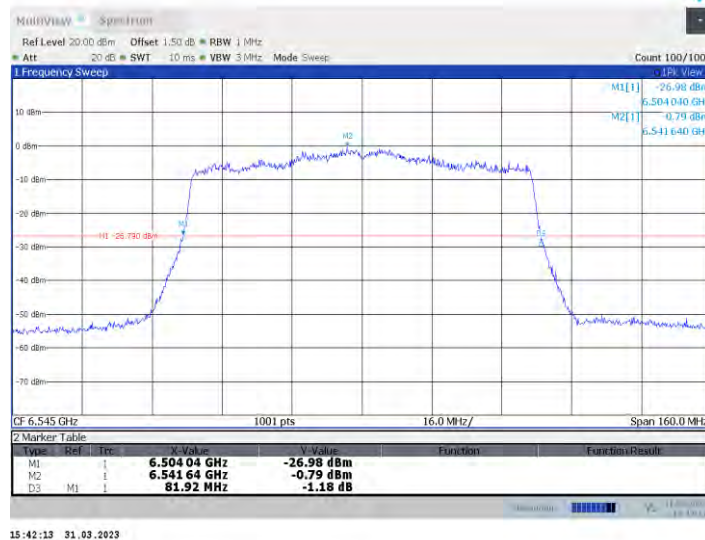
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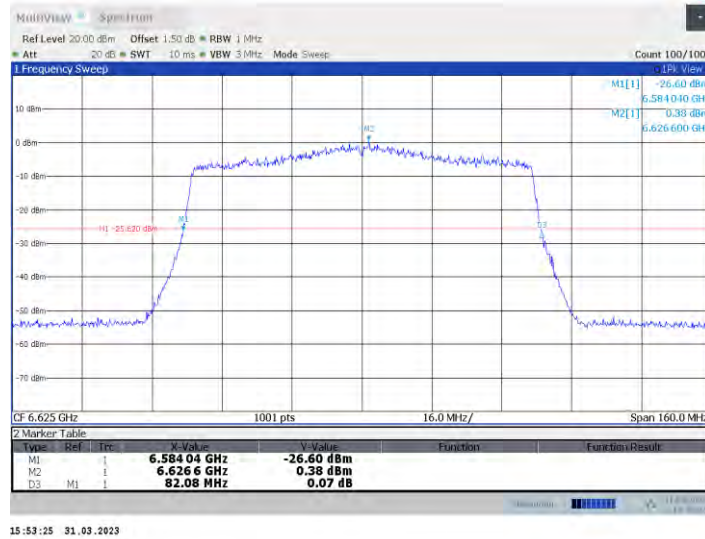


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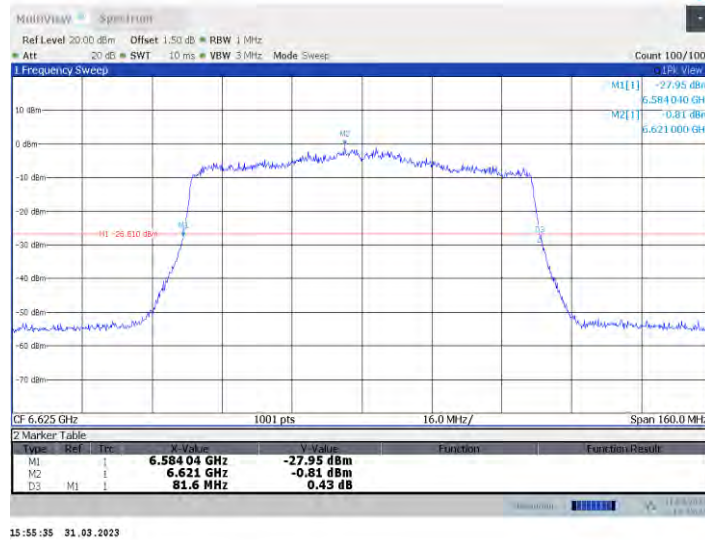
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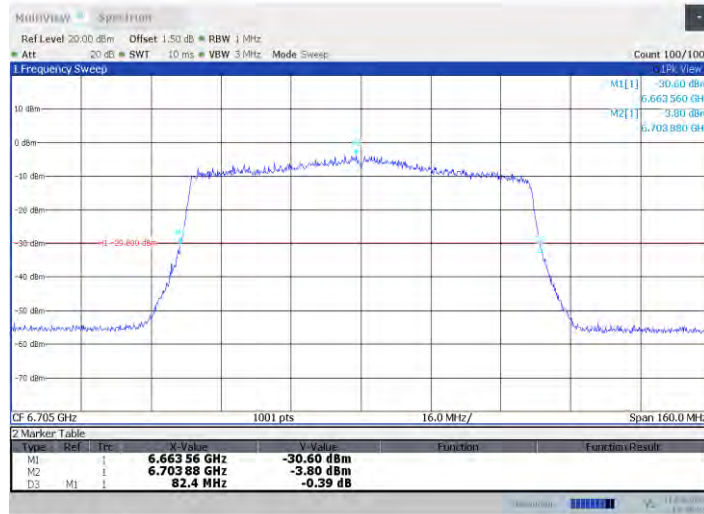


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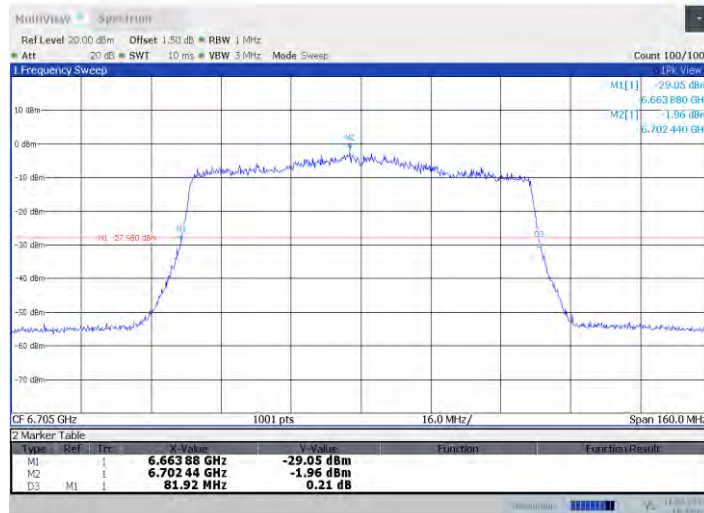
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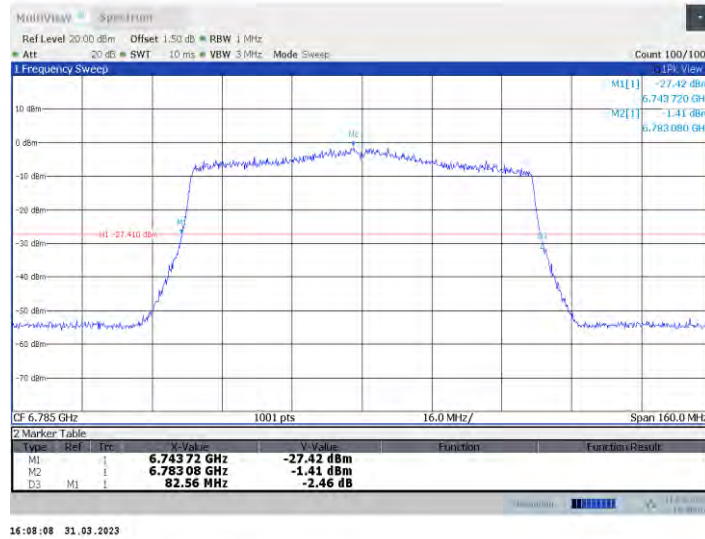


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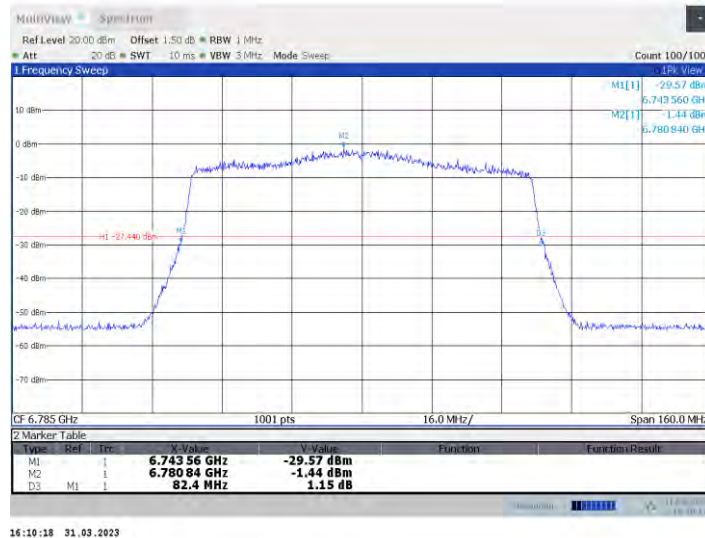
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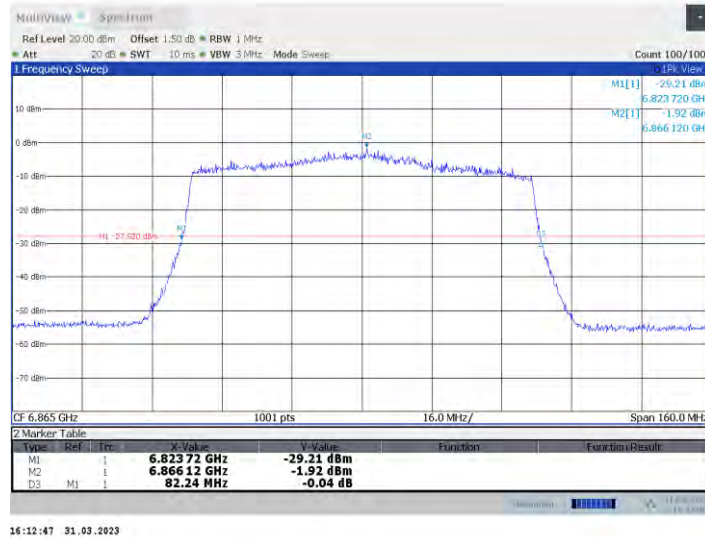


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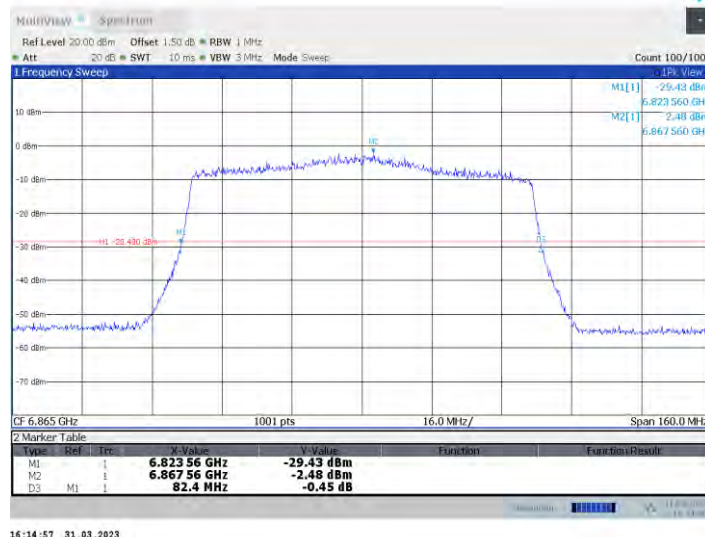
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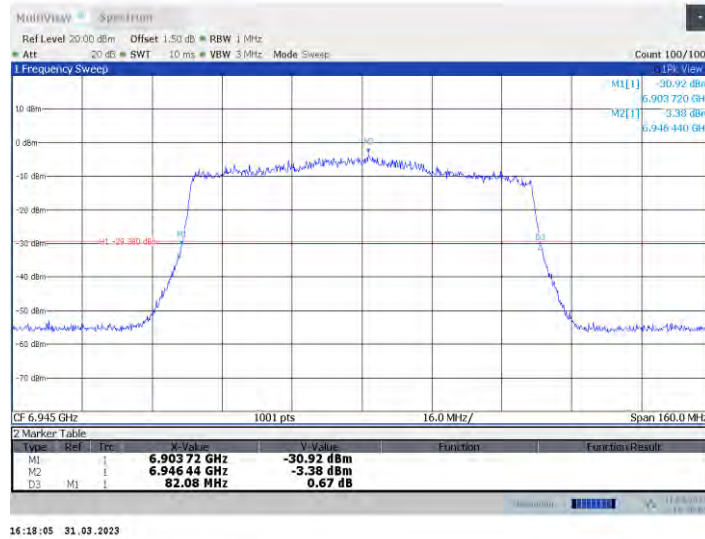


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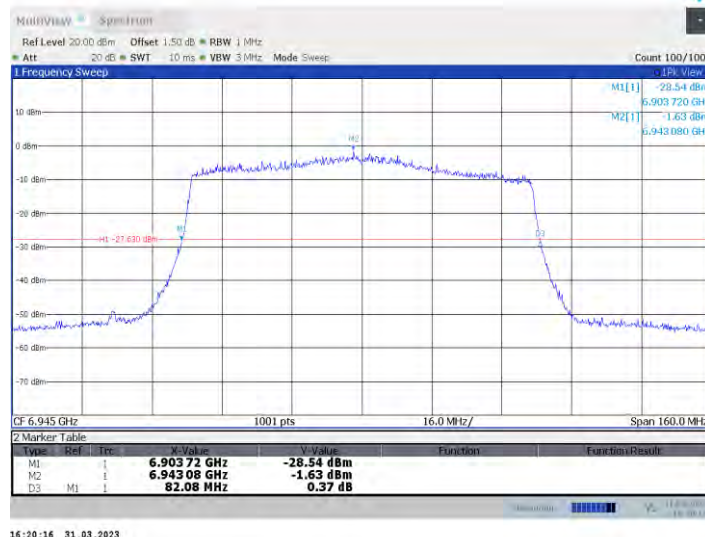
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16:20:16 31.03.2023

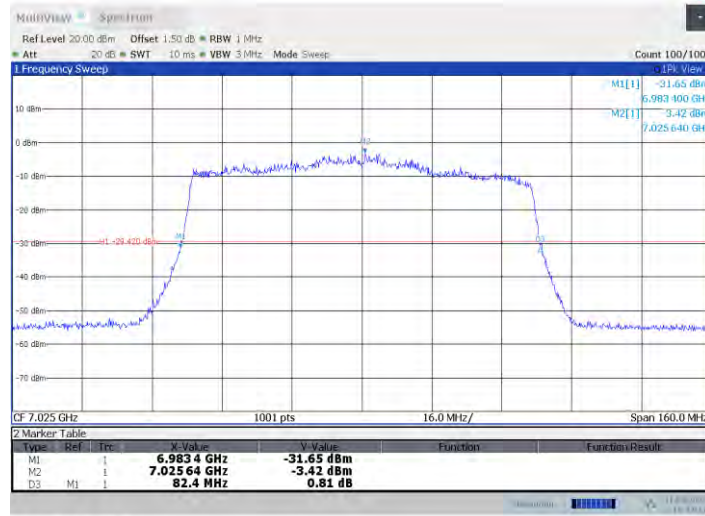


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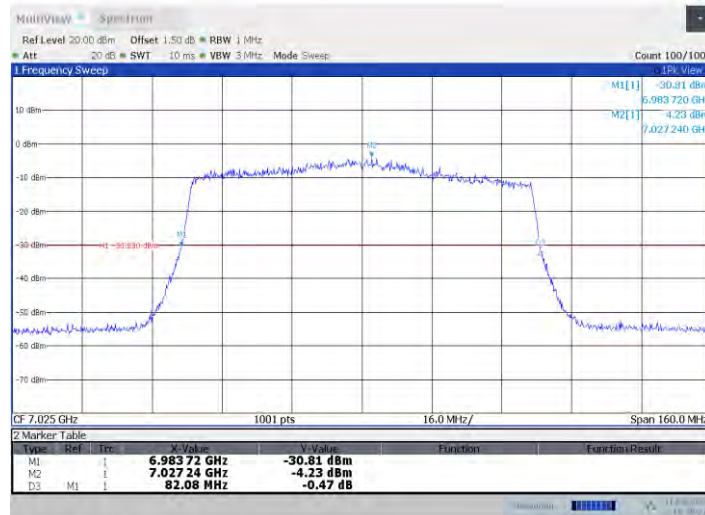
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11ax80MIMO_Ant0_7025



16:27:12 31.03.2023

11ax80MIMO_Ant1_7025



16:29:22 31.03.2023



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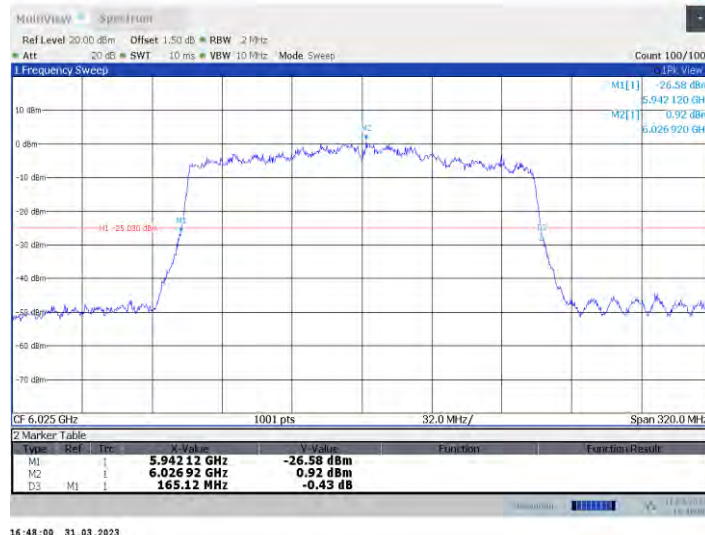
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11ax160MIMO_Ant0_6025



16:44:26 31.03.2023

11ax160MIMO_Ant1_6025



16:48:00 31.03.2023

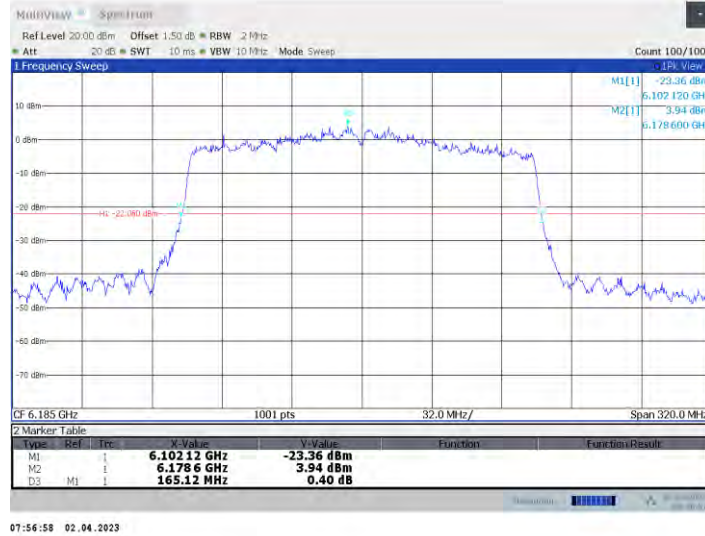


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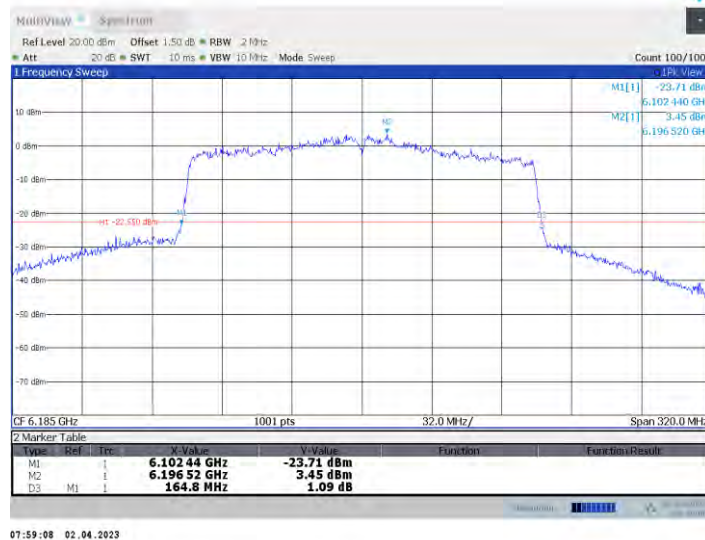
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11ax160MIMO_Ant0_6185



11ax160MIMO_Ant1_6185

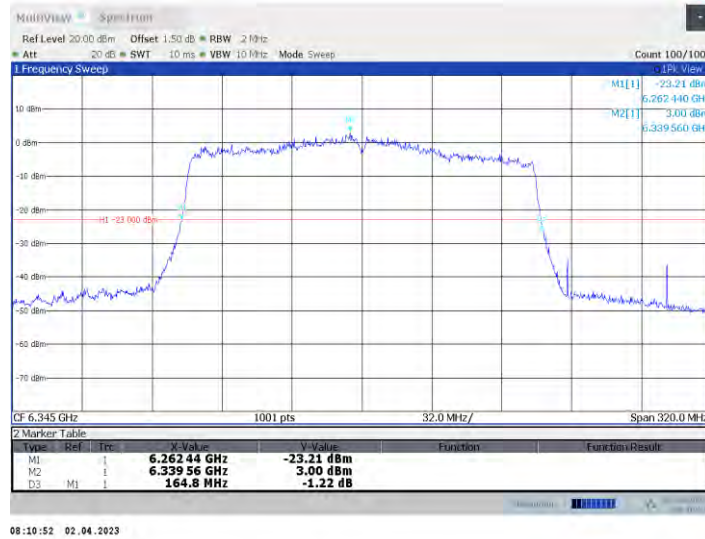


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11ax160MIMO_Ant0_6345



11ax160MIMO_Ant1_6345

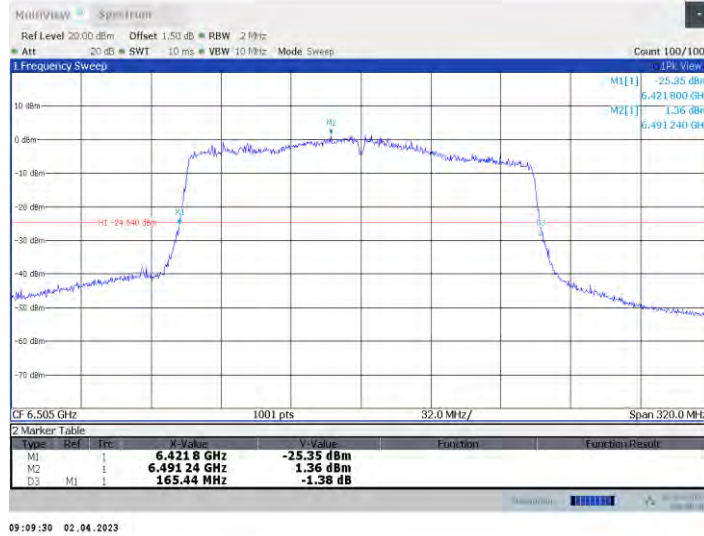


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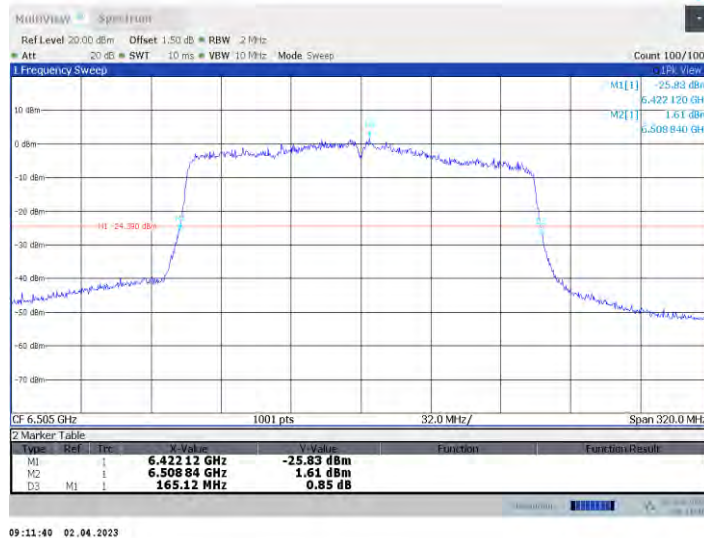
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11ax160MIMO_Ant0_6505



11ax160MIMO_Ant1_6505

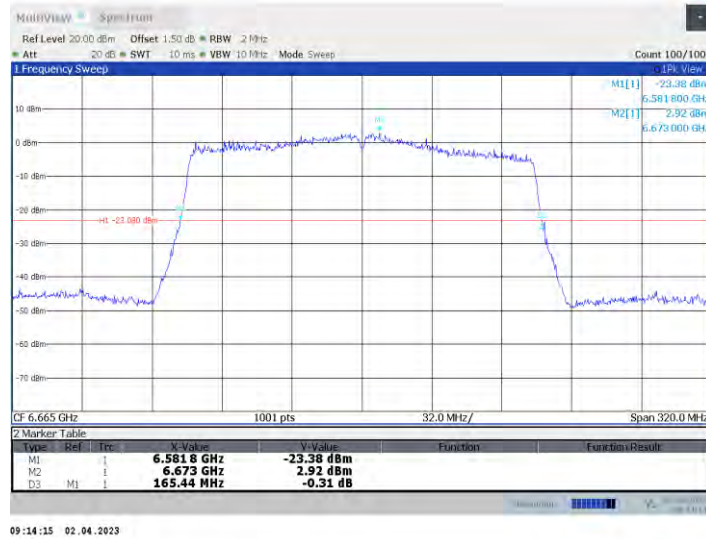


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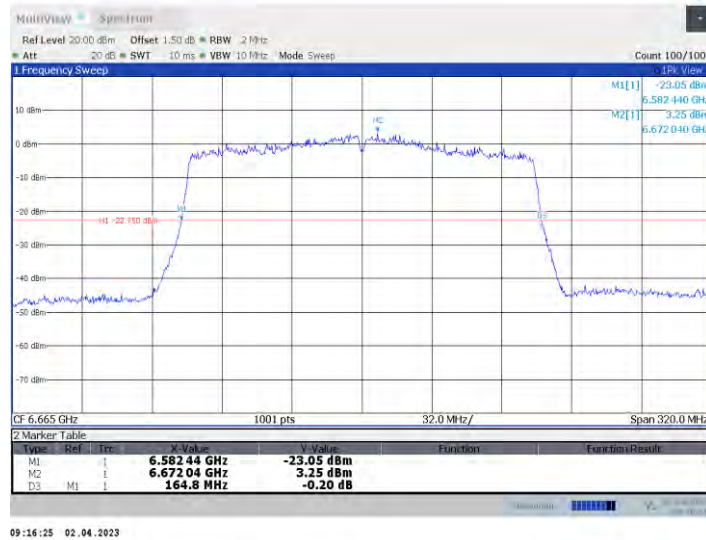
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11ax160MIMO_Ant0_6665



11ax160MIMO_Ant1_6665



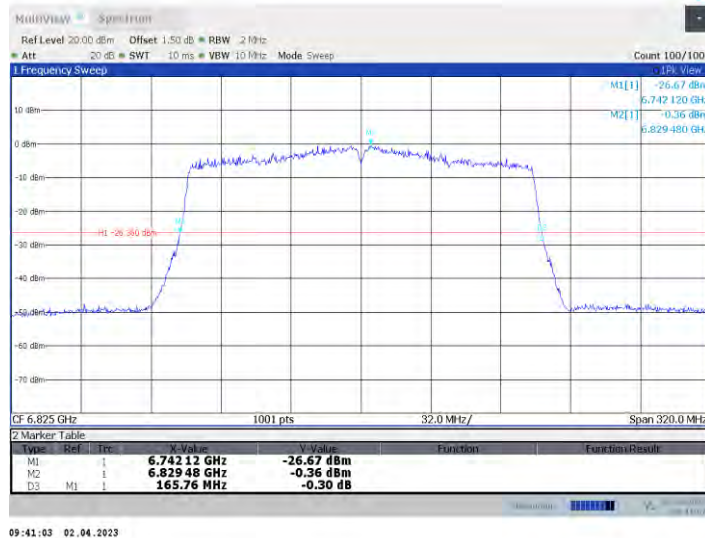
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11ax160MIMO_Ant0_6825



11ax160MIMO_Ant1_6825

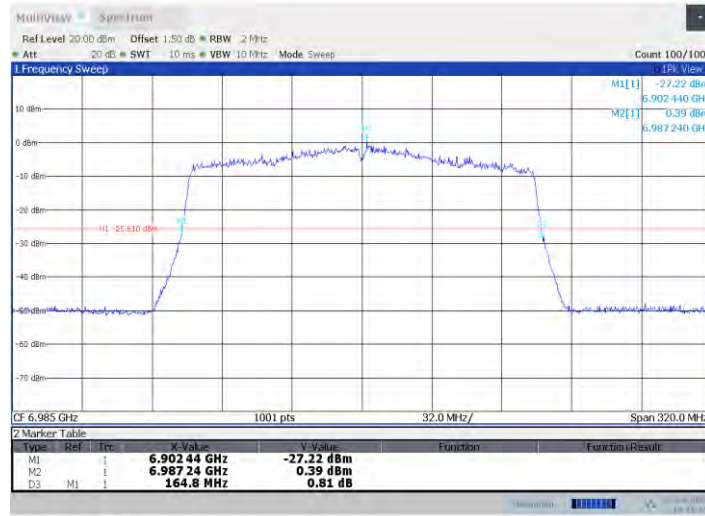


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11ax160MIMO_Ant0_6985



10:11:24 02.04.2023

11ax160MIMO_Ant1_6985



10:13:35 02.04.2023



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**Occupied channel bandwidth
Test Result**

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11a-CDD	Ant0	5955	16.466	5946.7003	5963.1665	For Report Purpose
	Ant1	5955	16.513	5946.6947	5963.2076	
	Ant0	6175	16.573	6166.6361	6183.2093	
	Ant1	6175	16.582	6166.6245	6183.2065	
	Ant0	6415	16.52	6406.7108	6423.2312	
	Ant1	6415	16.521	6406.7127	6423.2338	
	Ant0	6435	16.574	6426.6371	6443.2111	
	Ant1	6435	16.564	6426.6460	6443.2102	
	Ant0	6475	16.567	6466.6395	6483.2070	
	Ant1	6475	16.538	6466.6922	6483.2298	
	Ant0	6515	16.563	6506.6350	6523.1980	
	Ant1	6515	16.539	6506.6948	6523.2339	
	Ant0	6535	16.572	6526.6563	6543.2287	
	Ant1	6535	16.548	6526.6984	6543.2467	
	Ant0	6695	16.547	6686.6546	6703.2017	
	Ant1	6695	16.534	6686.7162	6703.2499	
	Ant0	6855	16.528	6846.6941	6863.2219	
	Ant1	6855	16.534	6846.6892	6863.2236	
	Ant0	6875	16.516	6866.7028	6883.2184	
	Ant1	6875	16.52	6866.7312	6883.2514	
	Ant0	6895	16.505	6886.7016	6903.2062	
	Ant1	6895	16.533	6886.6792	6903.2120	
	Ant0	6995	16.495	6986.7080	7003.2032	
	Ant1	6995	16.504	6986.7330	7003.2365	
Ant0	7115	16.51	7106.6955	7123.2050		
Ant1	7115	16.493	7106.7426	7123.2358		
11ax20MIMO	Ant0	5955	18.987	5945.4799	5964.4670	For Report Purpose
	Ant1	5955	18.972	5945.4981	5964.4698	
	Ant0	6175	18.86	6165.5083	6184.3686	
	Ant1	6175	18.973	6165.4743	6184.4477	
	Ant0	6415	18.856	6405.5269	6424.3833	
	Ant1	6415	18.923	6405.5431	6424.4658	
	Ant0	6435	18.874	6425.5508	6444.4252	
	Ant1	6435	18.875	6425.5623	6444.4376	
	Ant0	6475	18.885	6465.5088	6484.3942	
	Ant1	6475	18.909	6465.5403	6484.4489	
	Ant0	6515	18.913	6505.5112	6524.4246	
	Ant1	6515	18.892	6505.5502	6524.4423	
	Ant0	6535	18.906	6525.5286	6544.4345	
	Ant1	6535	18.877	6525.5643	6544.4411	
	Ant0	6695	18.927	6685.5126	6704.4401	
	Ant1	6695	18.866	6685.5490	6704.4150	
	Ant0	6855	18.937	6845.5122	6864.4496	
	Ant1	6855	18.898	6845.5401	6864.4379	
	Ant0	6875	18.931	6865.5163	6884.4473	
	Ant1	6875	18.921	6865.5271	6884.4480	
	Ant0	6895	18.934	6885.5170	6904.4512	
	Ant1	6895	18.921	6885.5309	6904.4514	
	Ant0	6995	18.944	6985.4928	7004.4371	



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	Ant1	6995	18.92	6985.5206	7004.4408	
	Ant0	7115	18.927	7105.5009	7124.4278	
	Ant1	7115	18.977	7105.4837	7124.4610	
11ax40MIMO	Ant0	5965	37.76	5946.0827	5983.8426	
	Ant1	5965	37.774	5946.0798	5983.8533	
	Ant0	6165	37.619	6146.0990	6183.7181	
	Ant1	6165	37.548	6146.1272	6183.6748	
	Ant0	6405	37.567	6386.1391	6423.7061	
	Ant1	6405	37.71	6386.1539	6423.8638	
	Ant0	6445	37.609	6426.1124	6463.7214	
	Ant1	6445	37.6	6426.1136	6463.7132	
	Ant0	6485	37.631	6466.1207	6503.7518	
	Ant1	6485	37.626	6466.1772	6503.8034	
	Ant0	6525	37.622	6506.1121	6543.7337	
	Ant1	6525	37.595	6506.2350	6543.8298	
	Ant0	6565	37.68	6546.0814	6583.7616	
	Ant1	6565	37.651	6546.1658	6583.8170	
	Ant0	6685	37.685	6666.0759	6703.7606	
	Ant1	6685	37.668	6666.1596	6703.8274	
	Ant0	6845	37.696	6826.0902	6863.7866	
	Ant1	6845	37.731	6826.1101	6863.8413	
	Ant0	6885	37.759	6866.0682	6903.8274	
	Ant1	6885	37.677	6866.1396	6903.8162	
	Ant0	6925	37.722	6906.0727	6943.7951	
	Ant1	6925	37.703	6906.1325	6943.8354	
	Ant0	6965	37.744	6946.0572	6983.8015	
	Ant1	6965	37.747	6946.0980	6983.8452	
	Ant0	7085	37.699	7066.0294	7103.7285	
	Ant1	7085	37.771	7066.0643	7103.8350	
11ax80MIMO	Ant0	5985	76.853	5946.3239	6023.1766	
	Ant1	5985	76.969	5946.2518	6023.2208	
	Ant0	6145	76.685	6106.1890	6182.8742	
	Ant1	6145	77.017	6106.4291	6183.4462	
	Ant0	6385	77.1	6346.4064	6423.5067	
	Ant1	6385	76.953	6346.5876	6423.5409	
	Ant0	6465	76.765	6426.7091	6503.4745	
	Ant1	6465	76.663	6426.8129	6503.4755	
	Ant0	6545	76.904	6506.3684	6583.2721	
	Ant1	6545	76.725	6506.6847	6583.4096	
	Ant0	6625	76.759	6586.7263	6663.4851	
	Ant1	6625	76.711	6586.5663	6663.2774	
	Ant0	6705	76.858	6666.3767	6743.2350	
	Ant1	6705	76.831	6666.3535	6743.1850	
	Ant0	6785	76.764	6746.4137	6823.1779	
	Ant1	6785	76.88	6746.3956	6823.2752	
	Ant0	6865	76.905	6826.2929	6903.1981	
	Ant1	6865	76.891	6826.3104	6903.2015	
	Ant0	6945	76.889	6906.2285	6983.1177	
	Ant1	6945	76.682	6906.3301	6983.0125	
	Ant0	7025	76.894	6986.1341	7063.0278	
	Ant1	7025	76.847	6986.2956	7063.1426	
	11ax160MIMO	Ant0	6025	155.547	5946.7044	6102.2513
		Ant1	6025	155.353	5946.6851	6102.0379
		Ant0	6185	155.124	6107.2692	6262.3930
		Ant1	6185	155.653	6106.2137	6261.8664
Ant0		6345	155.476	6266.6688	6422.1444	



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Report No.: SEWA2301000013RG02

Rev.: 01

Page: 98 of 792

	Ant1	6345	154.993	6266.5638	6421.5568
	Ant0	6505	155.359	6426.3831	6581.7424
	Ant1	6505	156.263	6426.1745	6582.4373
	Ant0	6665	155.736	6586.5352	6742.2714
	Ant1	6665	155.985	6586.5924	6742.5779
	Ant0	6825	155.662	6746.7614	6902.4232
	Ant1	6825	155.918	6746.9077	6902.8261
	Ant0	6985	155.403	6907.1827	7062.5858
	Ant1	6985	155.568	6907.0677	7062.6361

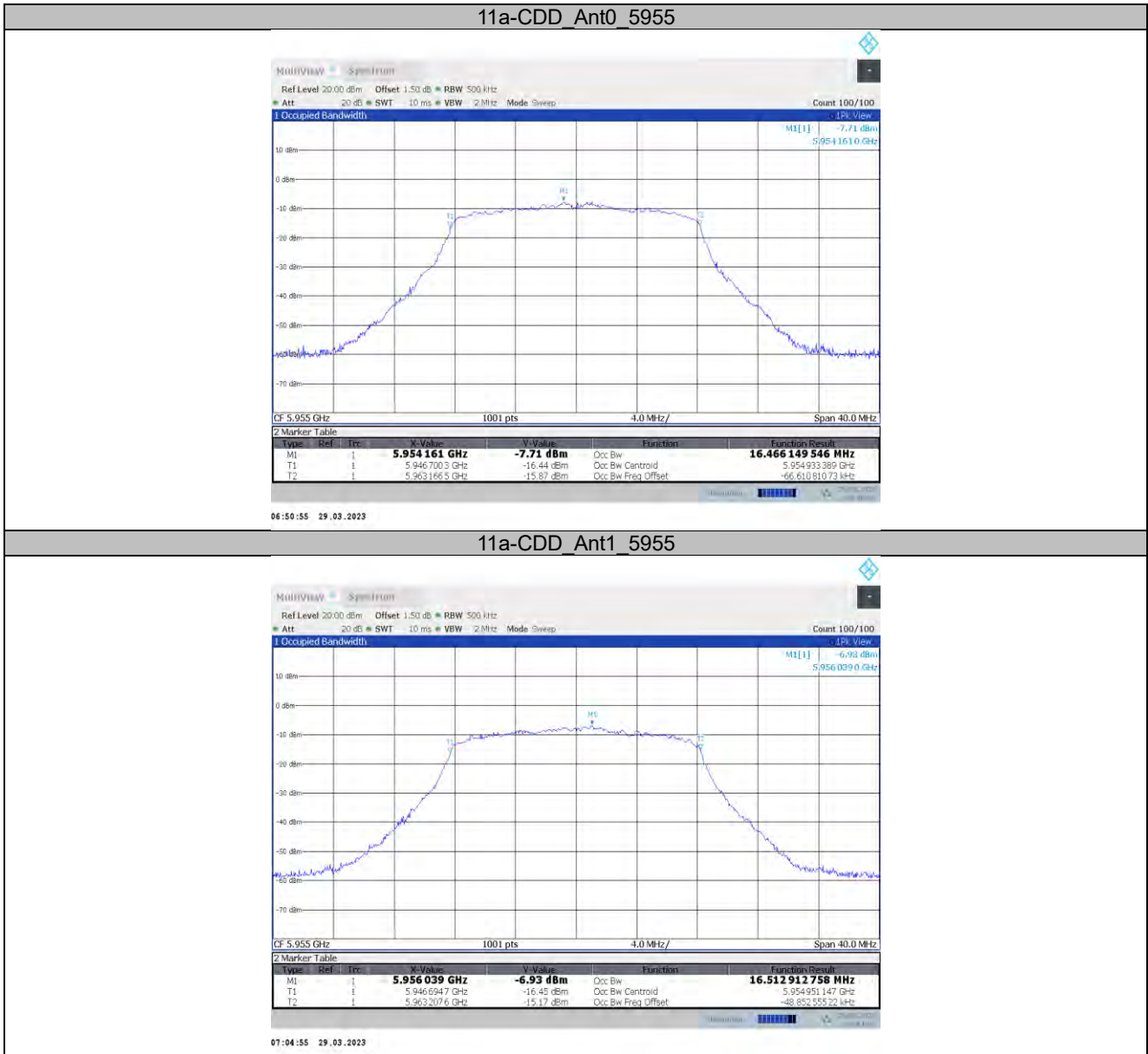


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Test Graphs

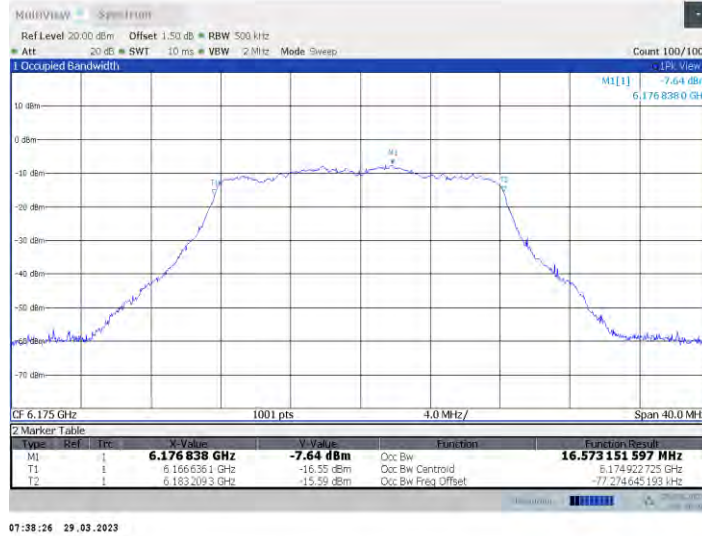


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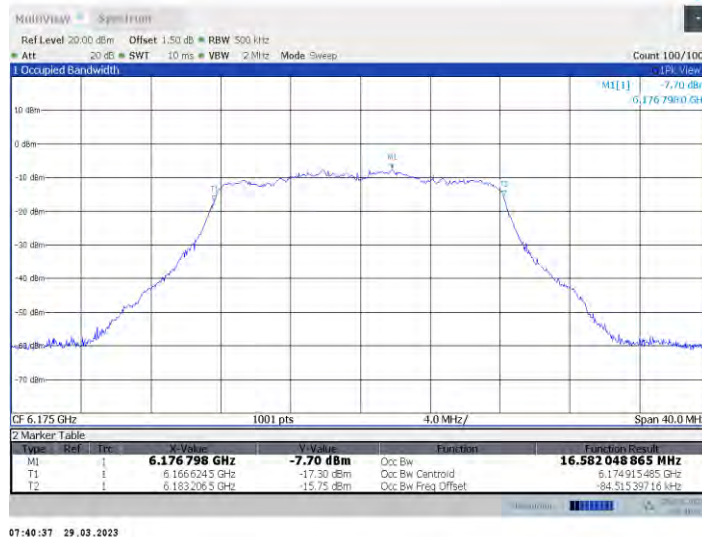
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11a-CDD Ant0 6175



11a-CDD Ant1 6175

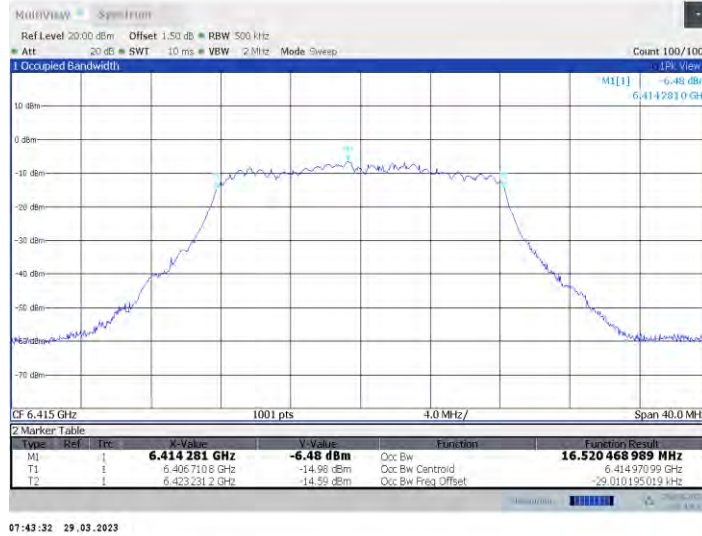


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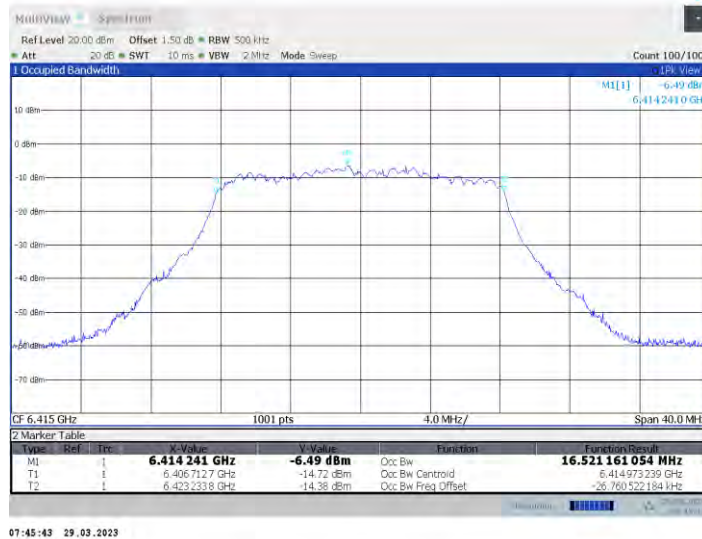
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11a-CDD Ant0 6415



11a-CDD Ant1 6415

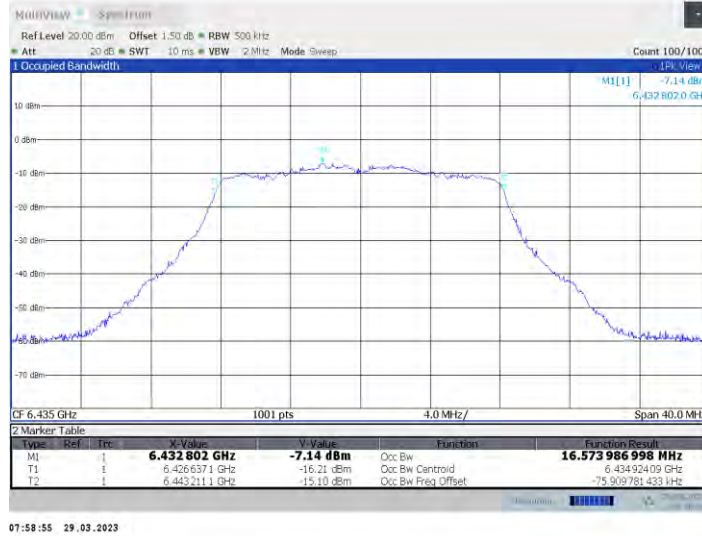


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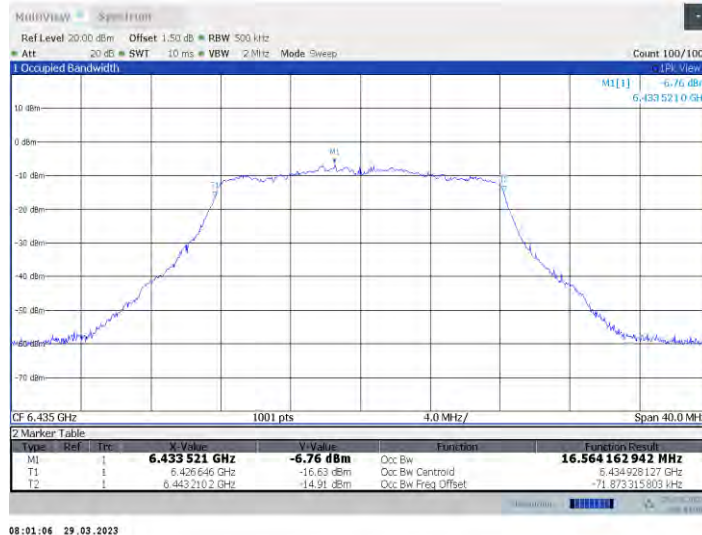
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11a-CDD Ant0 6435



07:58:55 29.03.2023

11a-CDD Ant1 6435



08:01:06 29.03.2023

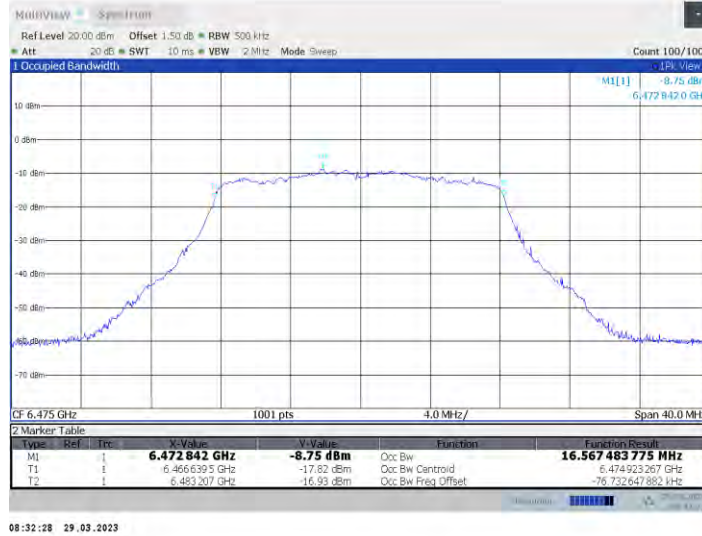


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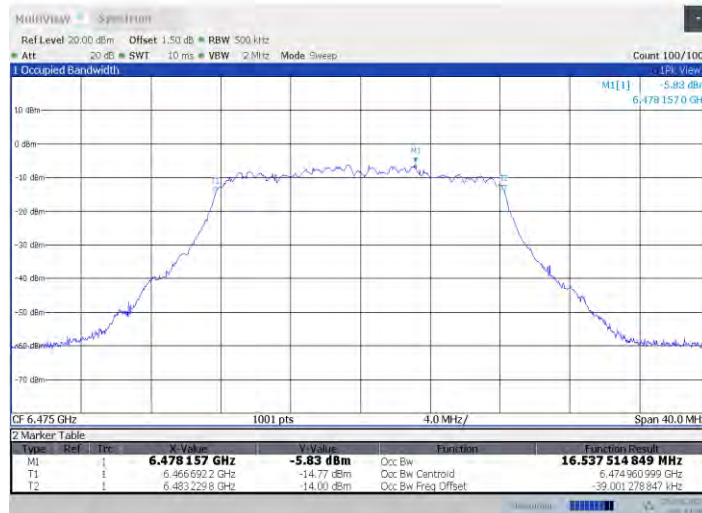
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11a-CDD Ant0 6475



08:32:28 29.03.2023

11a-CDD Ant1 6475



08:34:38 29.03.2023

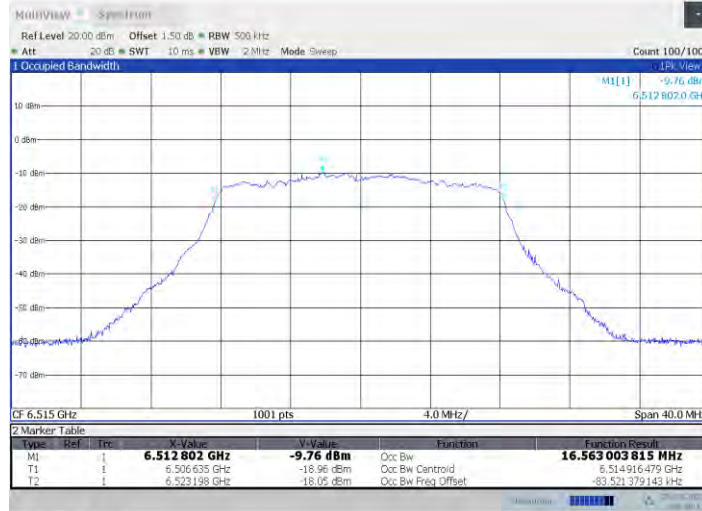


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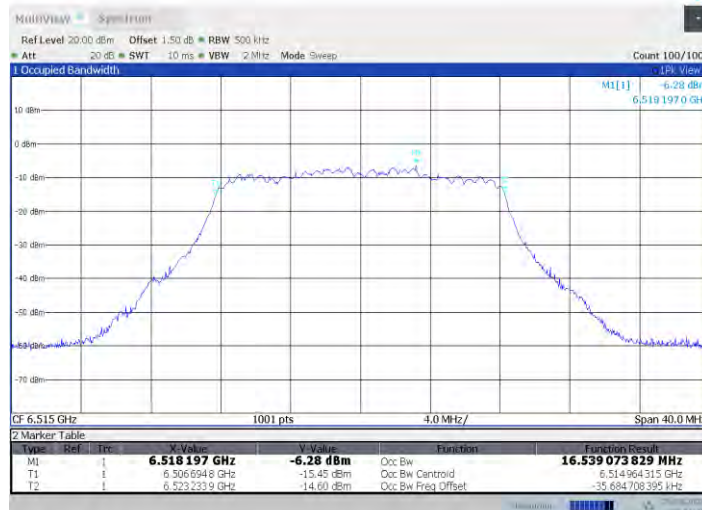
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11a-CDD Ant0 6515



08:59:17 29.03.2023

11a-CDD Ant1 6515



09:01:29 29.03.2023

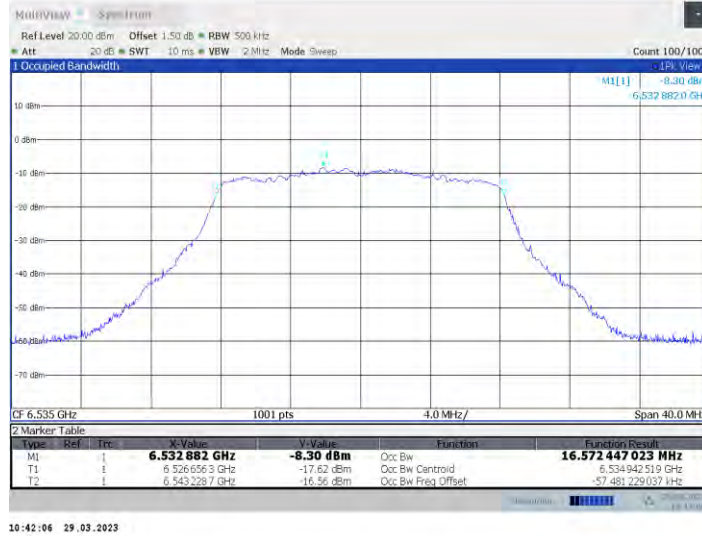


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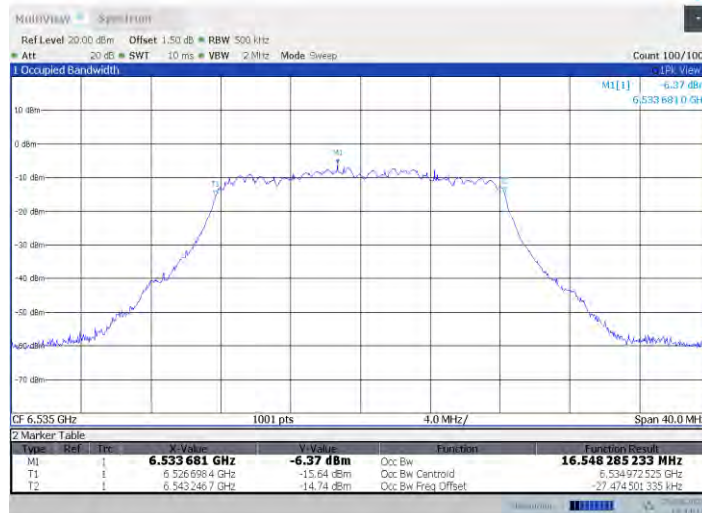
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11a-CDD Ant0 6535



10:42:06 29.03.2023

11a-CDD Ant1 6535



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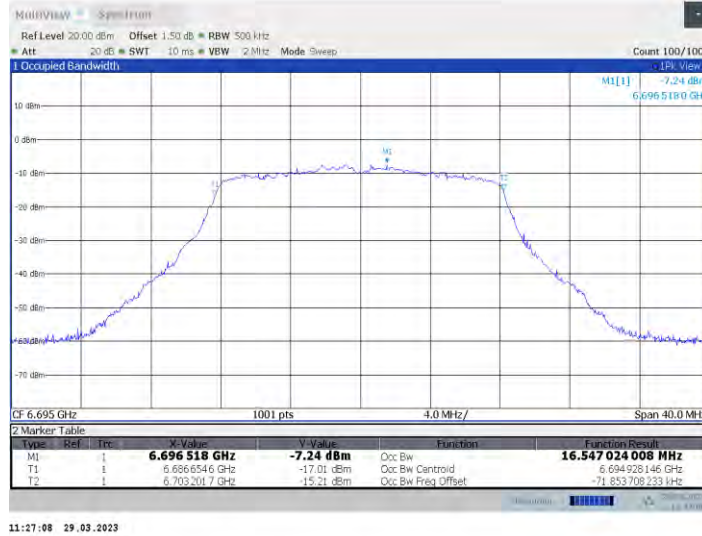


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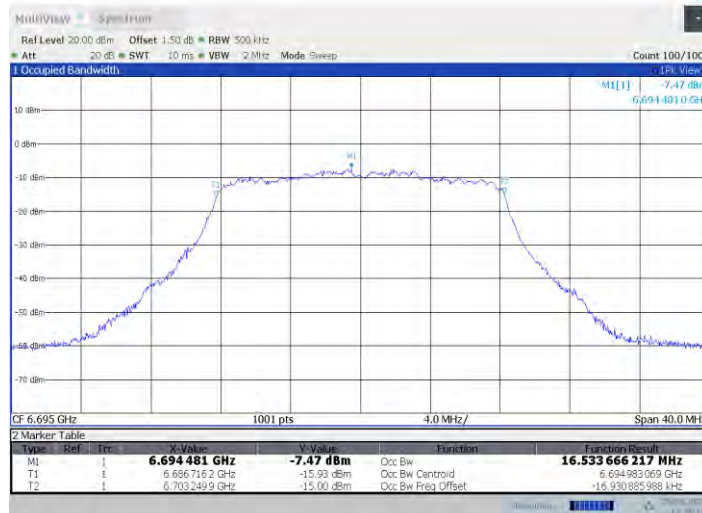
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11:27:08 29.03.2023

11a-CDD Ant1 6695



11:29:19 29.03.2023



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