

FCC AND ISED CERTIFICATION TEST REPORT

FOR

Applicant	:	Mercku Inc.
Address	:	3600 Steeles Avenue East, Suite C108B, Markham, Ontario, L3R 9Z7, Canada
Equipment under Test	:	M6a Plus Mesh Wi-Fi Router
Model No.	:	M6a Plus
Trade Mark	:	MERCKU
FCC ID	:	2APR4-M6P
IC	:	23877-M6P
Manufacturer	:	Mercku Technology (China), Inc.
Address	:	Block B1, Southern Software Park No.1 Software Road, Tangjia Zhuhai, Guangdong, China

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park,
Dongguan City, Guangdong Province, China, 523808

Tel.: +86-0769-38826678, **E-mail:** ddt@dgddt.com, <http://www.dgddt.com>

REPORT

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Test Report Declare

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Model No	:	M6a Plus
Trade Mark	:	MERCKU
Manufacturer	:	Mercku Technology (China), Inc.
Address	:	Block B1, Southern Software Park No.1 Software Road, Tangjia Zhuhai, Guangdong, China

Test Standard Used: FCC Rules and Regulations Part 15 Subpart C, RSS-247 Issue 2 February 2017.

Test procedure used: ANSI C63.10:2013, 558074 D01 15.247 Meas Guidance v05r02, RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021)

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC&ISED standards.

Report No:	DDT-R22100908-2E01		
Date of Receipt:	Oct. 13, 2022	Date of Test:	Oct. 13, 2022 ~ Nov. 22, 2022

Prepared By:

Johnny Wang

Johnny Wang/Engineer

Approved By:



Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Nov. 22, 2022	

1. Summary of Test Results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	Standard	Results
6 dB Bandwidth and 99% Bandwidth	FCC 15.247 (a) (2) RSS-247 Clause 5.2 (a)	Pass
Conducted Output Power	FCC 15.247 (b) (3) RSS-247 Clause 5.4 (e)	Pass
Power Spectral Density	FCC 15.247 (e) RSS-247 Clause 5.2 (b)	Pass
Band-edge and Spurious Emissions (Conducted)	FCC 15.247 (d) RSS-247 Clause 5.5	Pass
Radiated Spurious Emissions	FCC 15.247 (d) FCC 15.209 FCC 15.205 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Pass
Radiated Band Edge Compliance	FCC 15.247 (d) FCC 15.209 FCC 15.205 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Pass
Power Line Conducted Emission	FCC 15.207 RSS-GEN Clause 8.8	Pass
Antenna requirement	FCC 15.203 RSS-GEN Clause 6.8	Pass

2. General Test Information

2.1. Description of EUT

EUT* Name	: M6a Plus Mesh Wi-Fi Router
Model Number	: M6a Plus
EUT function description	: Please reference user manual of this device
Power Supply	: DC 12V 1.5A from external AC/DC Adapter
Radio Technology	: IEEE 802.11b/g/n/ax
Operation frequency	: IEEE 802.11b: 2412 MHz - 2462 MHz IEEE 802.11g: 2412 MHz - 2462 MHz IEEE 802.11n HT20: 2412 MHz - 2462 MHz IEEE 802.11n HT40: 2422 MHz - 2452 MHz IEEE 802.11ax HE20: 2412 MHz - 2462 MHz IEEE 802.11ax HE40: 2422 MHz - 2452 MHz
Modulation	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM, OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Transmitter rate	: IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20: up to 144.4 Mbps IEEE 802.11n HT40: up to 300 Mbps IEEE 802.11ax HE20: up to 286.8 Mbps IEEE 802.11ax HE40: up to 573.6 Mbps
Antenna Gain	: Ant1: 3.9 dBi Ant2: 3.9 dBi
Sample Type	: Series production
Sample Number	: S22100908-01

Note: EUT is the abbreviation of equipment under test.

Note 2: This product only supports the SU mode.

Channel information					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

Antenna information			
	Ant1 gain	Ant2 gain	MIMO
IEEE 802.11b	3.9	3.9	/
IEEE 802.11g	3.9	3.9	/
IEEE 802.11n HT20	3.9	3.9	6.91
IEEE 802.11n HT40	3.9	3.9	6.91
IEEE 802.11ax HE20	3.9	3.9	6.91
IEEE 802.11ax HE40	3.9	3.9	6.91

2.2. Accessories of EUT

Assistant equipment	Manufacturer	Model number	Other
AC/DC ADAPTER	Keyu Power	KA1801A-1201500US	Length: 1.20m
Internet cable	N/A	N/A	Length: 1.00m

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
N/A	N/A	N/A	N/A	N/A

2.4. Block diagram of EUT configuration for test



Test software: QA_TOOL

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

The pathloss of external cable: 0.5dB (According to the manufacturer's claims)

Tested mode, channel, setting Tx power and rand data rate information				
Mode	Setting Tx Power	data rate (Mbps) (see Note)	Channel	Frequency (MHz)
IEEE 802.11b	12	1	LCH: CH1	2412
	12	1	MCH: CH6	2437
	12	1	HCH: CH11	2462
IEEE 802.11g	16	6	LCH: CH1	2412
	16	6	MCH: CH6	2437
	16	6	HCH: CH11	2462
IEEE 802.11n HT20	12	MCS0	LCH: CH1	2412
	12	MCS0	MCH: CH6	2437
	12	MCS0	HCH: CH11	2462
IEEE 802.11n HT40	12	MCS0	LCH: CH3	2422
	12	MCS0	MCH: CH6	2437
	12	MCS0	HCH: CH9	2452
IEEE 802.11ax HE20	12	MCS0	LCH: CH1	2412
	12	MCS0	MCH: CH6	2437
	12	MCS0	HCH: CH11	2462
IEEE 802.11ax HE40	11	MCS0	LCH: CH3	2422
	11	MCS0	MCH: CH6	2437
	11	MCS0	HCH: CH9	2452
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.				

2.5. Deviations of test standard

No deviation

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 °C
Humidity range:	40-75%
Pressure range:	86-106 kPa

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2.8. Measurement uncertainty

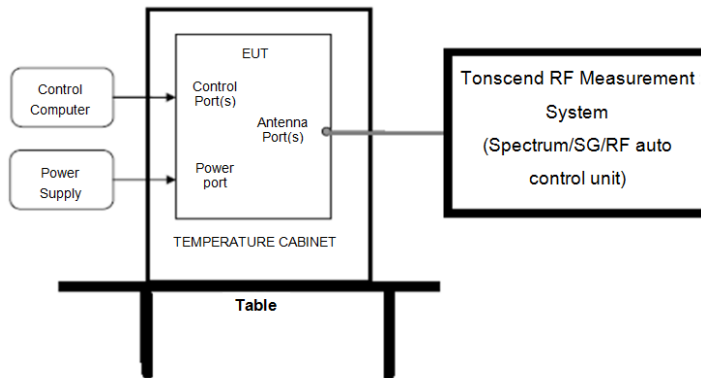
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum Analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	5.5×10^{-8} (Conducted method)
Conducted Spurious Emissions	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.40 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
	1.66 dB ($8 \text{ GHz} \leq f < 22 \text{ GHz}$)
Uncertainty for Radio Frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission Test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission Test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission Test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz)
	4.40 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power Line Conduction Emission Test	3.32 dB (150 kHz - 30 MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☑RF Connected Test (Tonscend RF Measurement System 3#)					
SPECTRUM ANALYZER	R&S	FSV40	101407	Jul. 21, 2022	1 Year
Wideband Radio Communication tester	R&S	CMW500	117491	May 18, 2022	1 Year
Vector Signal Generator	Agilent	N5182A	MY19060405	May 18, 2022	1 Year
Vector Signal Generator	Agilent	N5182A	MY48180912	May 18, 2022	1 Year
RF Control Unit	Tonsend	JS0806-2	DDT-ZC01449	May 18, 2022	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDS-150L	ZX170110-A	May 26, 2022	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.2.6.77.0518	N/A	N/A
☑Radiation 3#chamber					
EMI Test Receiver	R&S	ESU	100472	May 18, 2022	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	May 18, 2022	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Sep. 29, 2022	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	Jul. 22, 2022	1 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA 9120 D	02468	Nov. 29, 2021	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	May 06, 2022	1 Year
Pre-amplifier	COM-POWER	PAM-118A	18040084	Aug. 17, 2022	1 Year
Pre-amplifier	COM-POWER	PAM-840A	461369	Apr. 11, 2022	1 Year
RE Cable	N/A	W23.02 CP1-X2 + W23.09 AP1-X8+ JCT26S-NJ-NJ-1.5M+ JCT26S-NJ-NJ-1.5M	4.5M+8M+1.5M+1.5M	Aug.17, 2022	1 Year
RF Cable	Yuhu Technology	JCTB810-NJ-NJ-9M	21123964	May. 19,2022	1 Year
Test software	Tonscend	JS32-RE	V 5.0.0.1	N/A	N/A
☑Power Line Conducted Emissions Test 1#					
Test Receiver	R&S	ESCI	100551	Aug. 26, 2022	1 Year
LISN 1	R&S	ENV216	101109	Aug. 26, 2022	1 Year
LISN 2	R&S	ESH2-Z5	100309	Aug. 26, 2022	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Aug. 26, 2022	1 Year
CE Cable 1	HUBSER	N/A	W10.01	Aug. 26, 2022	1 Year
Test software	Tonscend	JS32-RE	V 5.0.0.1	N/A	N/A

4. 6 dB Bandwidth and 99% Bandwidth

4.1. Block diagram of test setup



4.2. Limits

For direct sequence systems, the minimum 6 dB bandwidth shall be at least 500 kHz

4.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) 99% Bandwidth set the spectrum analyzer as follows:

RBW: 1% to 5% of the OBW

VBW: $\geq 3\text{RBW}$

Detector Mode: Peak

Sweep time: auto

Trace mode Max hold

(3) 6 dB Bandwidth set the spectrum analyzer as follows:

RBW: 100 kHz

VBW: 300 kHz

Detector Mode: Peak

Sweep time: auto

Trace mode Max hold

(4) Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

4.4. Test result

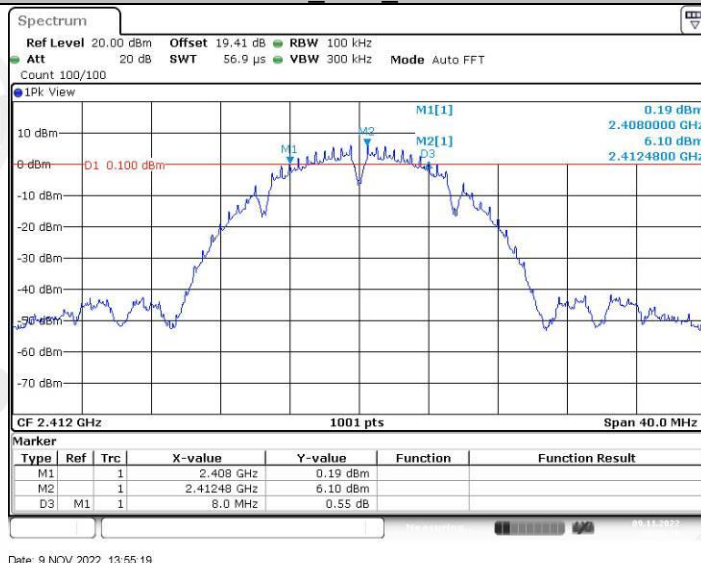
Test Mode	Test	Ant	6 dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	2412	Ant1	8.00	0.5	Pass
11B	2412	Ant2	8.08	0.5	Pass
11B	2437	Ant1	8.04	0.5	Pass
11B	2437	Ant2	8.04	0.5	Pass
11B	2462	Ant1	8.08	0.5	Pass
11B	2462	Ant2	8.04	0.5	Pass
11G	2412	Ant1	15.08	0.5	Pass
11G	2412	Ant2	16.08	0.5	Pass
11G	2437	Ant1	15.08	0.5	Pass
11G	2437	Ant2	15.08	0.5	Pass
11G	2462	Ant1	15.32	0.5	Pass
11G	2462	Ant2	15.28	0.5	Pass
11N20MIMO	2412	Ant1	15.12	0.5	Pass
11N20MIMO	2412	Ant2	16.32	0.5	Pass
11N20MIMO	2437	Ant1	15.96	0.5	Pass
11N20MIMO	2437	Ant2	15.96	0.5	Pass
11N20MIMO	2462	Ant1	15.92	0.5	Pass
11N20MIMO	2462	Ant2	15.68	0.5	Pass
11N40MIMO	2422	Ant1	35.04	0.5	Pass
11N40MIMO	2422	Ant2	33.84	0.5	Pass
11N40MIMO	2437	Ant1	35.12	0.5	Pass
11N40MIMO	2437	Ant2	35.12	0.5	Pass
11N40MIMO	2452	Ant1	35.20	0.5	Pass
11N40MIMO	2452	Ant2	35.04	0.5	Pass
11AX20MIMO	2412	Ant1	17.68	0.5	Pass
11AX20MIMO	2412	Ant2	17.72	0.5	Pass
11AX20MIMO	2437	Ant1	18.24	0.5	Pass
11AX20MIMO	2437	Ant2	18.40	0.5	Pass
11AX20MIMO	2462	Ant1	18.68	0.5	Pass
11AX20MIMO	2462	Ant2	18.32	0.5	Pass
11AX40MIMO	2422	Ant1	35.12	0.5	Pass
11AX40MIMO	2422	Ant2	35.04	0.5	Pass
11AX40MIMO	2437	Ant1	37.20	0.5	Pass
11AX40MIMO	2437	Ant2	36.32	0.5	Pass
11AX40MIMO	2452	Ant1	37.44	0.5	Pass
11AX40MIMO	2452	Ant2	36.56	0.5	Pass

Test Mode	Test	Ant	99% OBW [MHz]	Limit [MHz]	Verdict
11B	2412	Ant1	12.787	---	Pass
11B	2412	Ant2	12.787	---	Pass
11B	2437	Ant1	12.907	---	Pass
11B	2437	Ant2	12.907	---	Pass
11B	2462	Ant1	12.787	---	Pass
11B	2462	Ant2	12.787	---	Pass
11G	2412	Ant1	16.903	---	Pass
11G	2412	Ant2	16.783	---	Pass
11G	2437	Ant1	17.023	---	Pass
11G	2437	Ant2	16.823	---	Pass
11G	2462	Ant1	17.023	---	Pass
11G	2462	Ant2	17.023	---	Pass
11N20MIMO	2412	Ant1	17.822	---	Pass
11N20MIMO	2412	Ant2	17.662	---	Pass
11N20MIMO	2437	Ant1	17.902	---	Pass
11N20MIMO	2437	Ant2	17.782	---	Pass
11N20MIMO	2462	Ant1	17.782	---	Pass
11N20MIMO	2462	Ant2	17.662	---	Pass
11N40MIMO	2422	Ant1	35.884	---	Pass
11N40MIMO	2422	Ant2	35.964	---	Pass
11N40MIMO	2437	Ant1	36.603	---	Pass
11N40MIMO	2437	Ant2	36.124	---	Pass
11N40MIMO	2452	Ant1	36.124	---	Pass
11N40MIMO	2452	Ant2	36.124	---	Pass
11AX20MIMO	2412	Ant1	18.821	---	Pass
11AX20MIMO	2412	Ant2	18.941	---	Pass
11AX20MIMO	2437	Ant1	19.58	---	Pass
11AX20MIMO	2437	Ant2	19.301	---	Pass
11AX20MIMO	2462	Ant1	19.341	---	Pass
11AX20MIMO	2462	Ant2	19.221	---	Pass
11AX40MIMO	2422	Ant1	37.403	---	Pass
11AX40MIMO	2422	Ant2	37.483	---	Pass
11AX40MIMO	2437	Ant1	37.962	---	Pass
11AX40MIMO	2437	Ant2	37.802	---	Pass
11AX40MIMO	2452	Ant1	37.722	---	Pass
11AX40MIMO	2452	Ant2	37.562	---	Pass

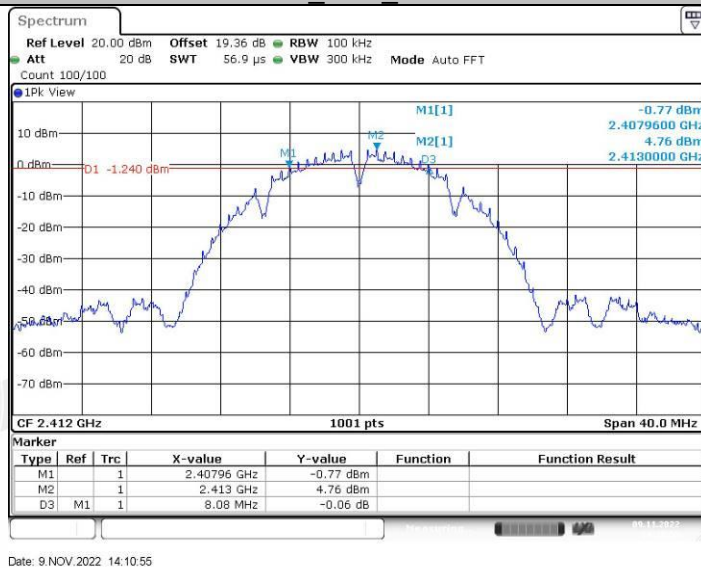
4.5. Original test data

6 dB Bandwidth:

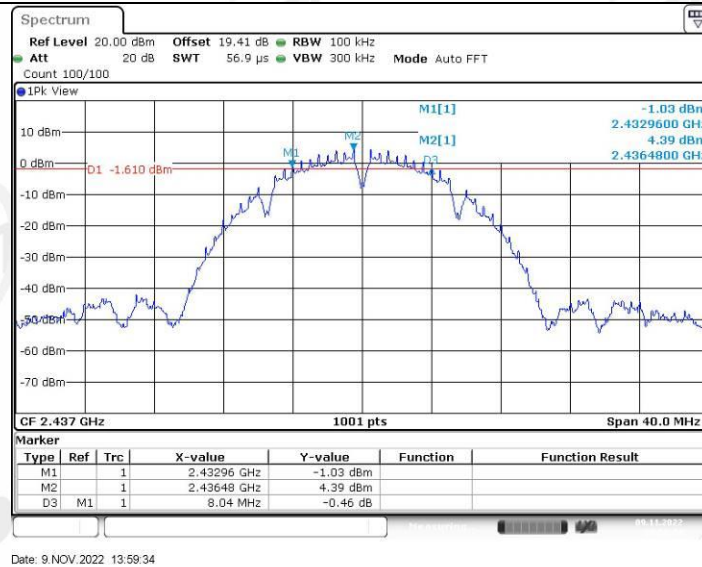
11B_Ant1_2412



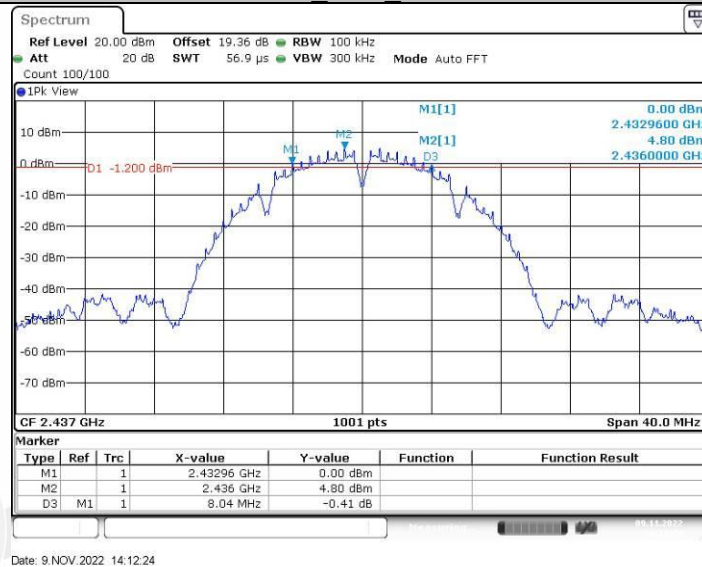
11B_Ant2_2412



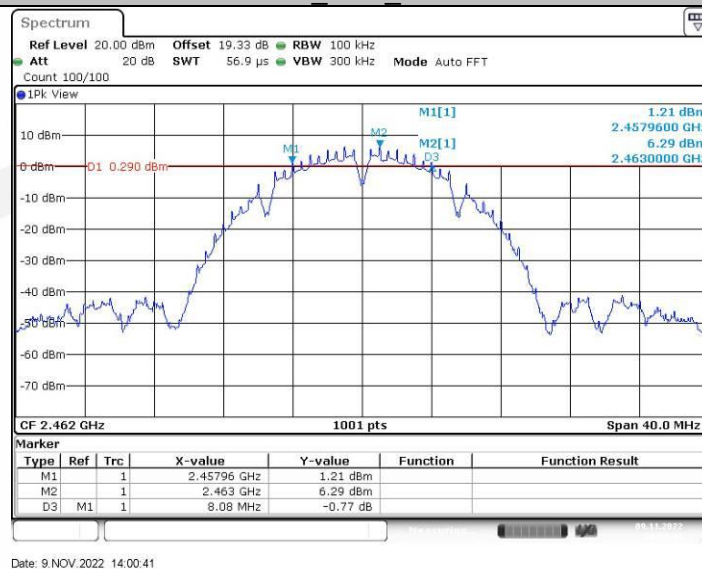
11B_Ant1_2437



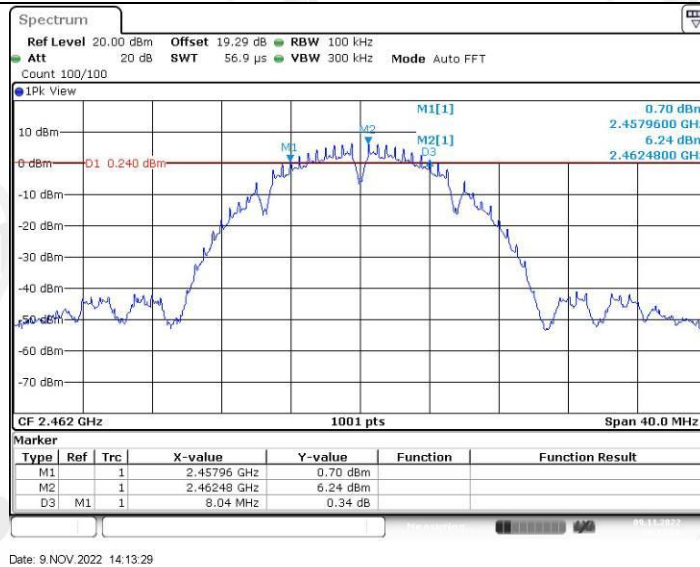
11B_Ant2_2437



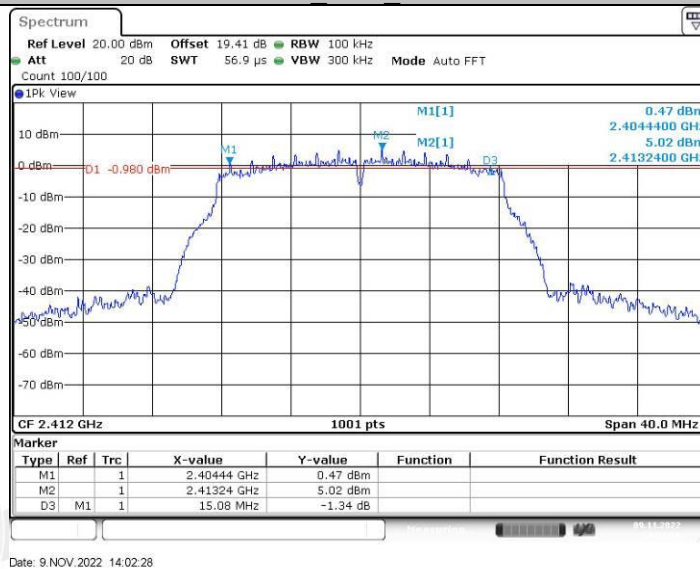
11B_Ant1_2462



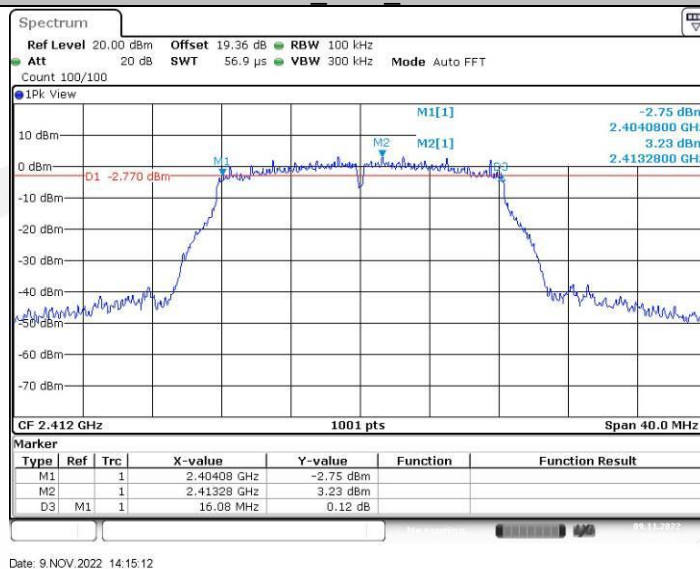
11B_Ant2_2462



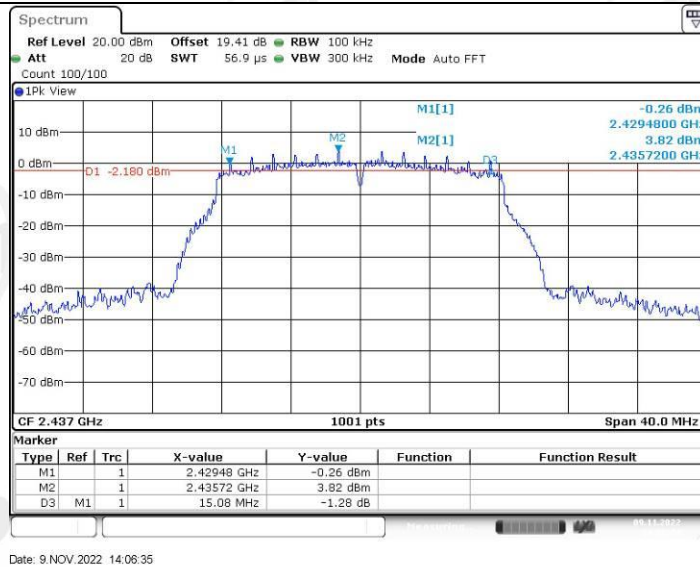
11G_Ant1_2412



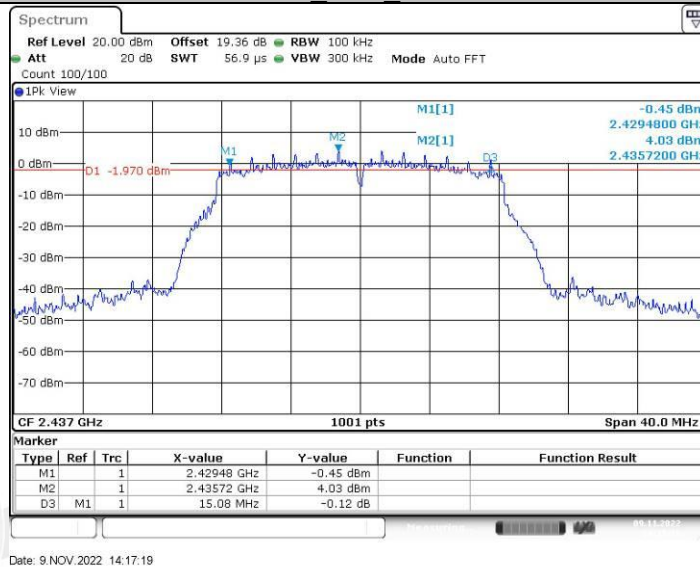
11G_Ant2_2412



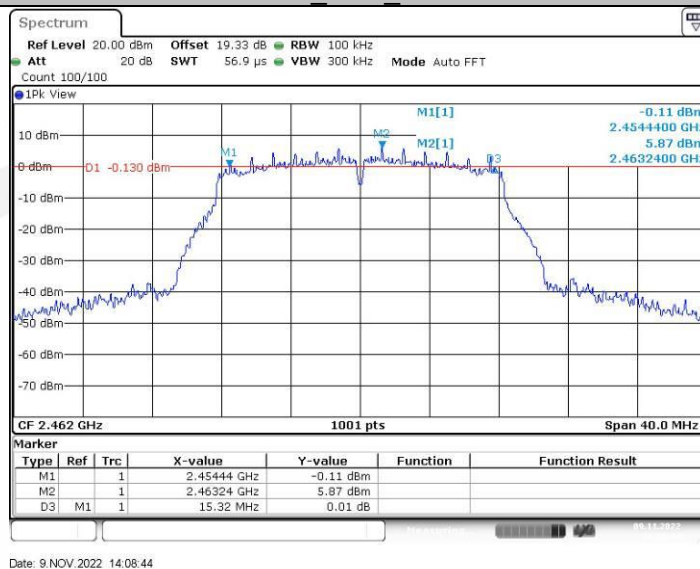
11G_Ant1_2437



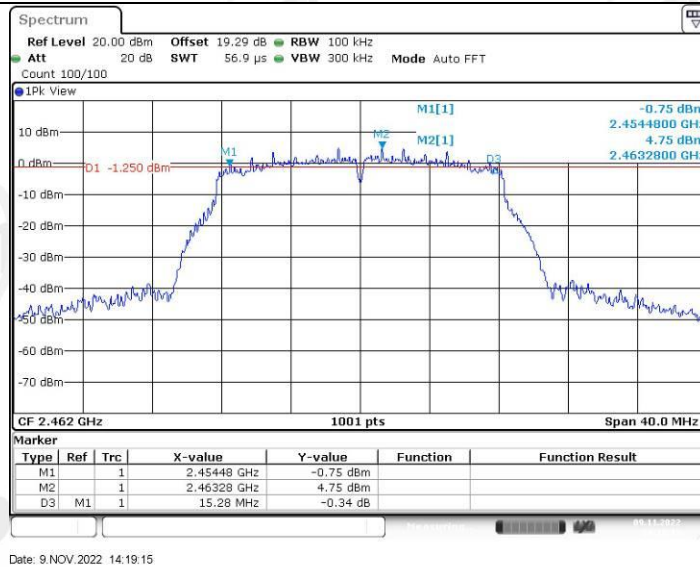
11G_Ant2_2437



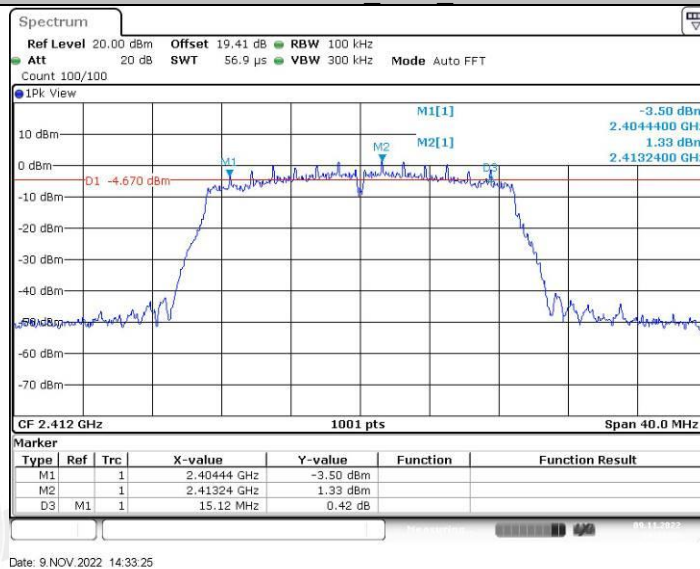
11G_Ant1_2462



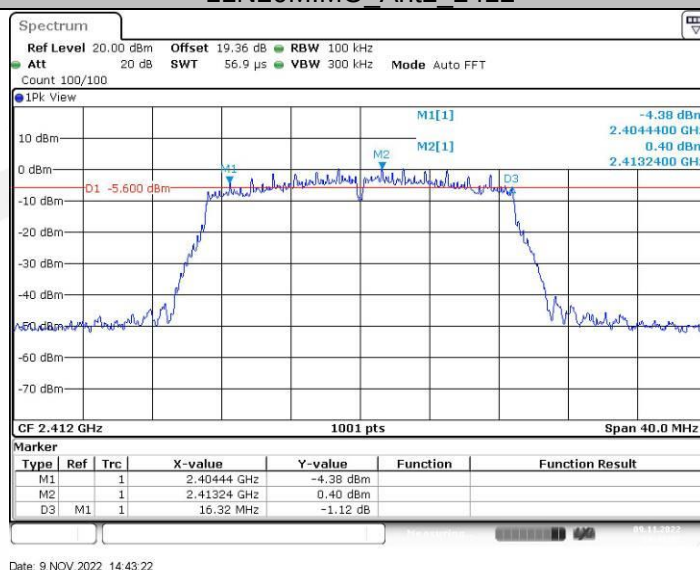
11G_Ant2_2462



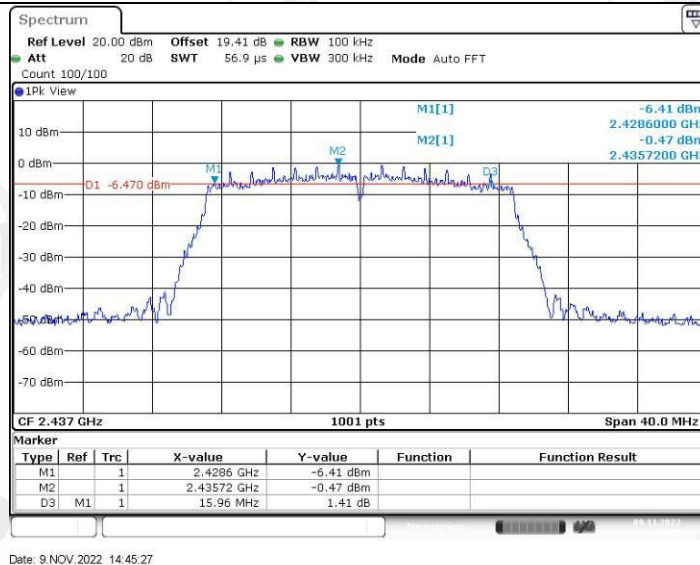
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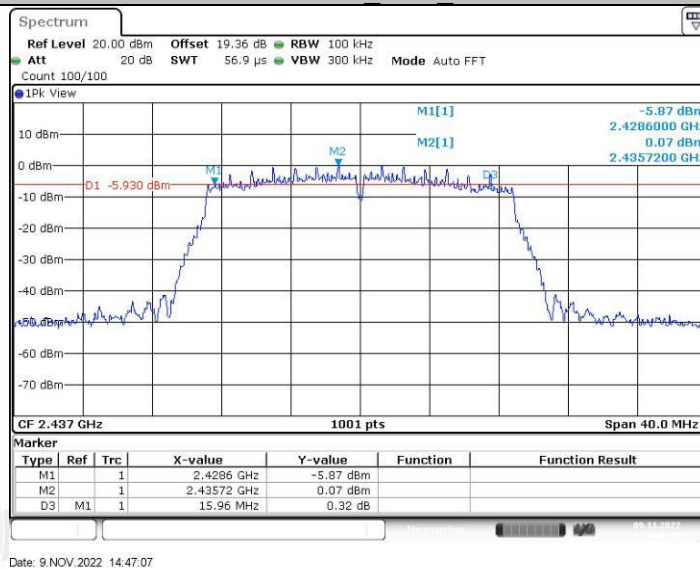
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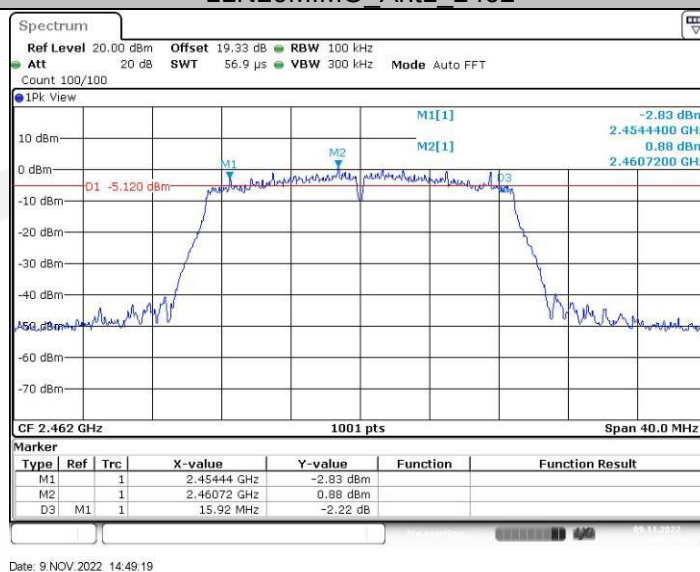
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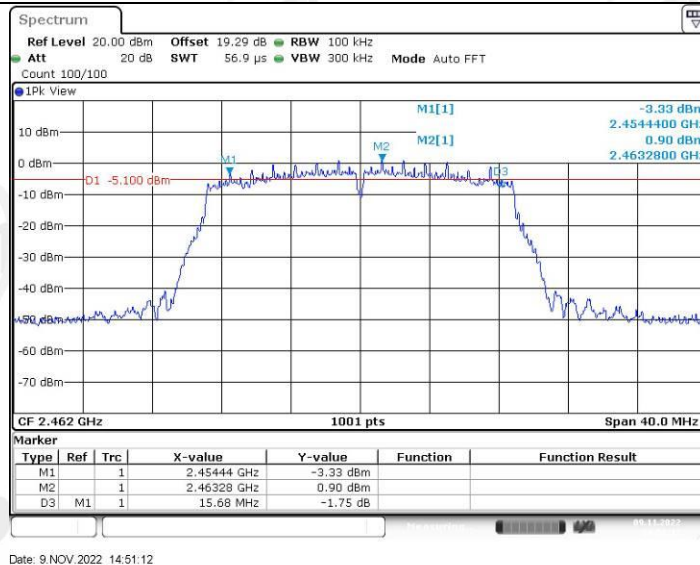
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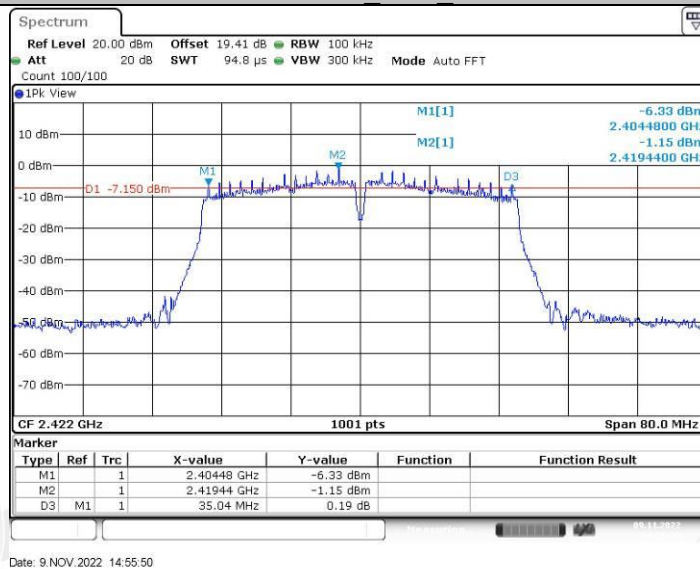
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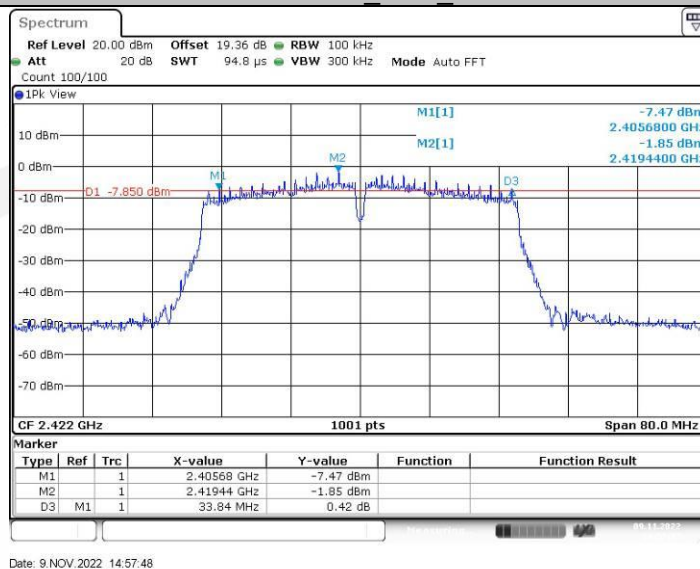
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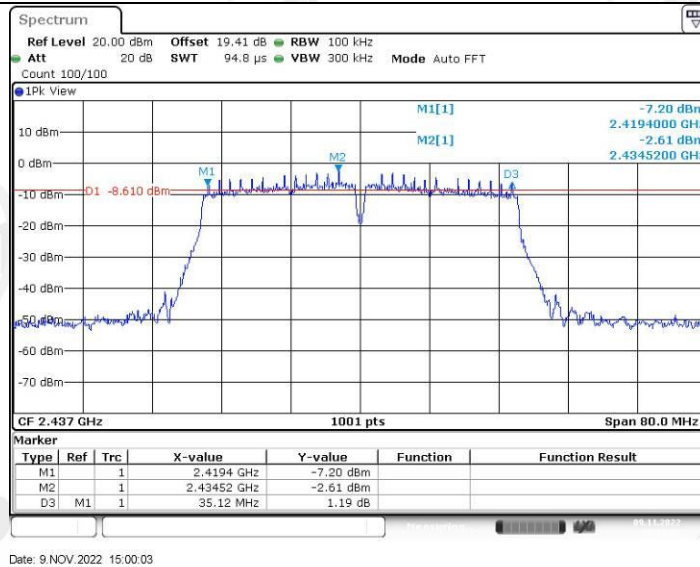
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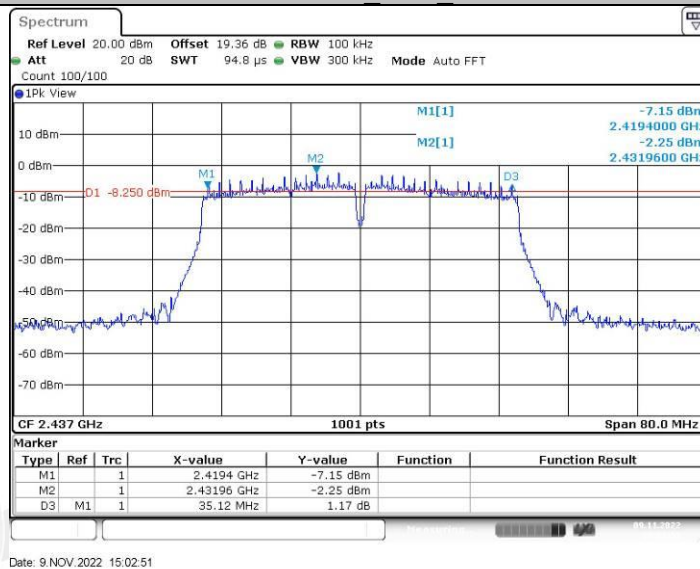
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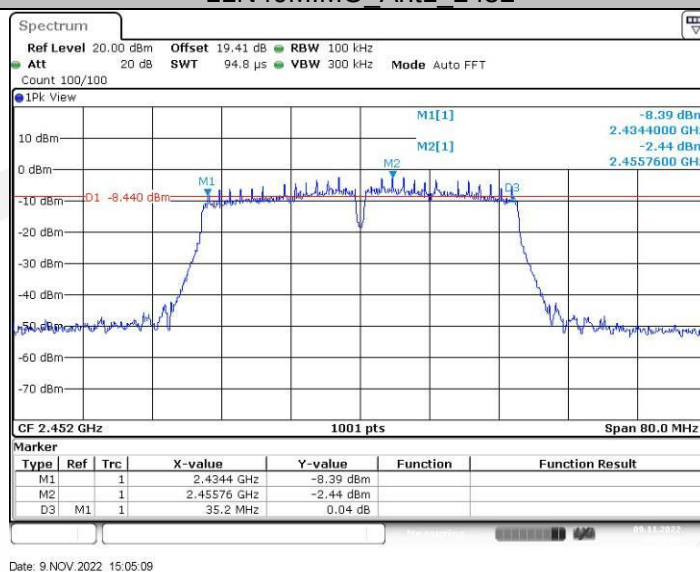
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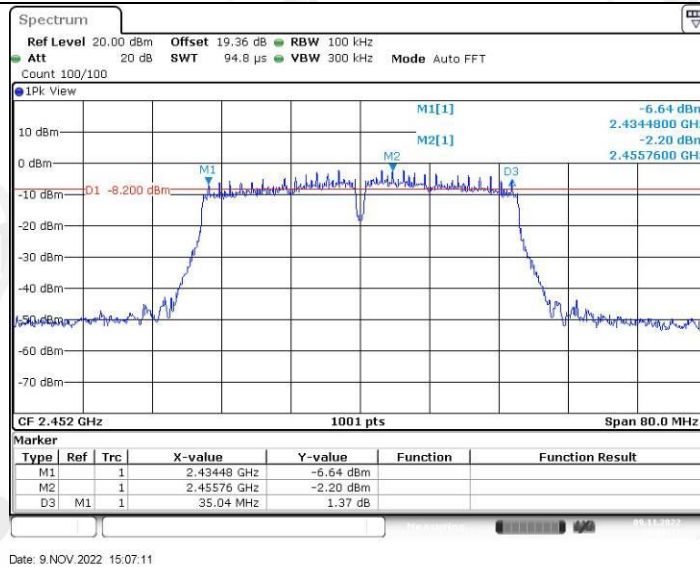
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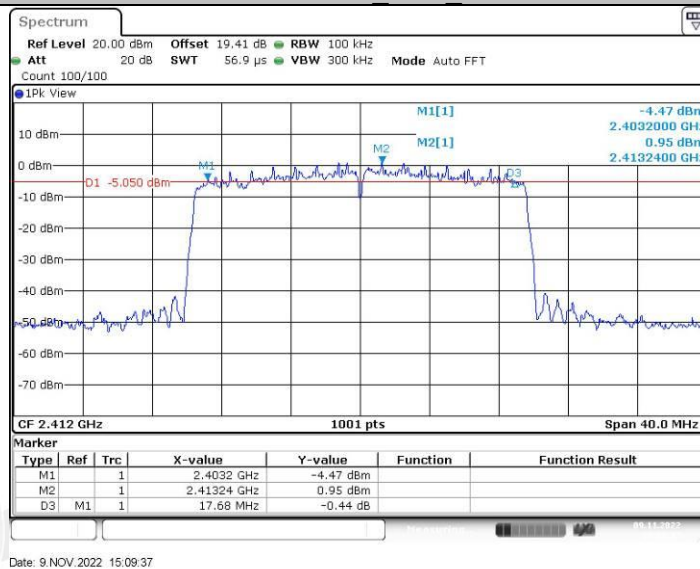
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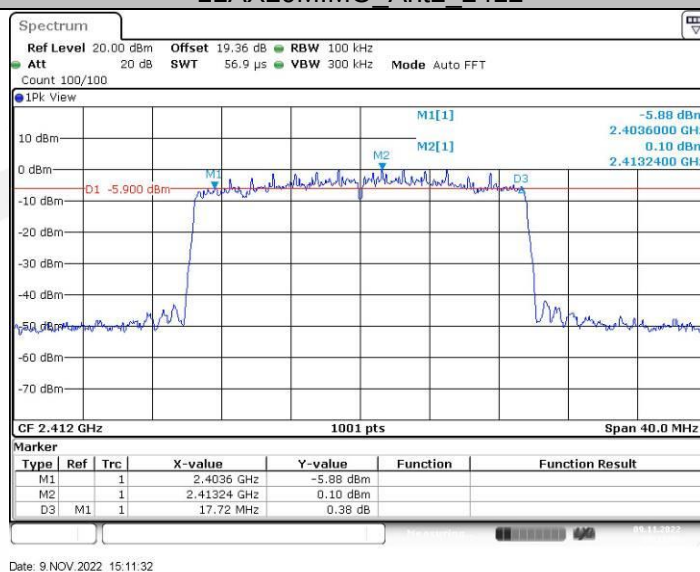
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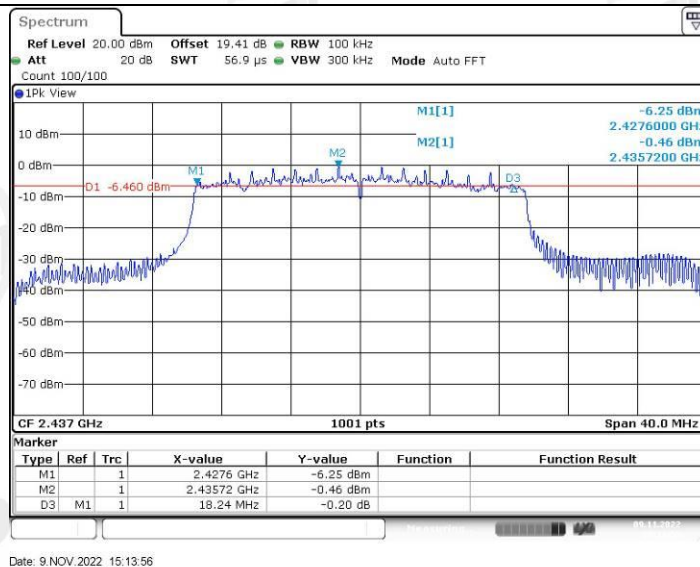
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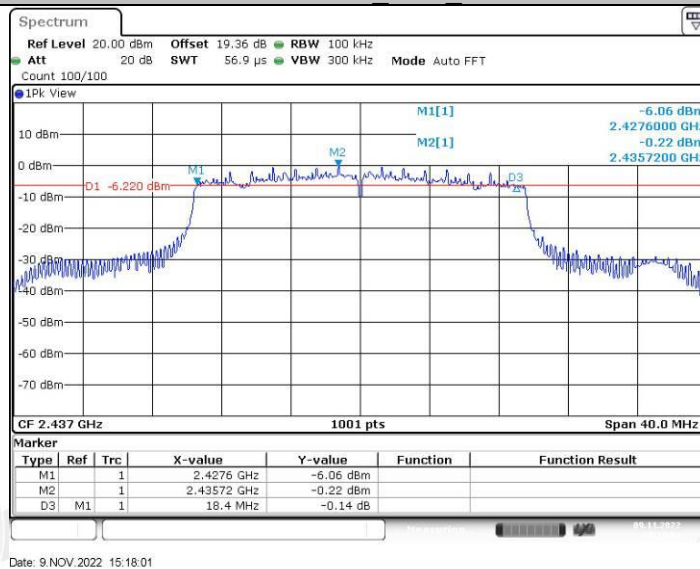
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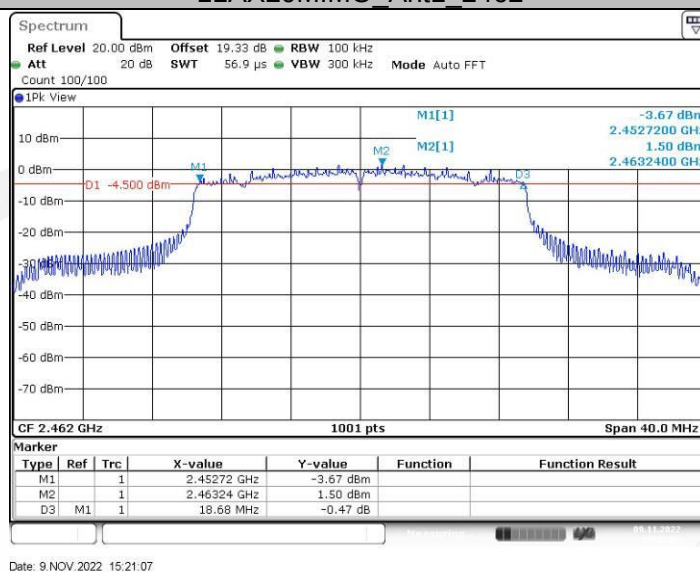
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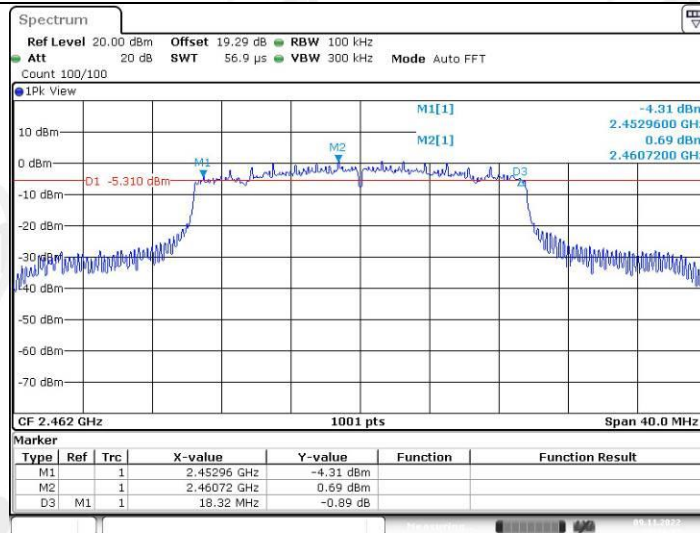
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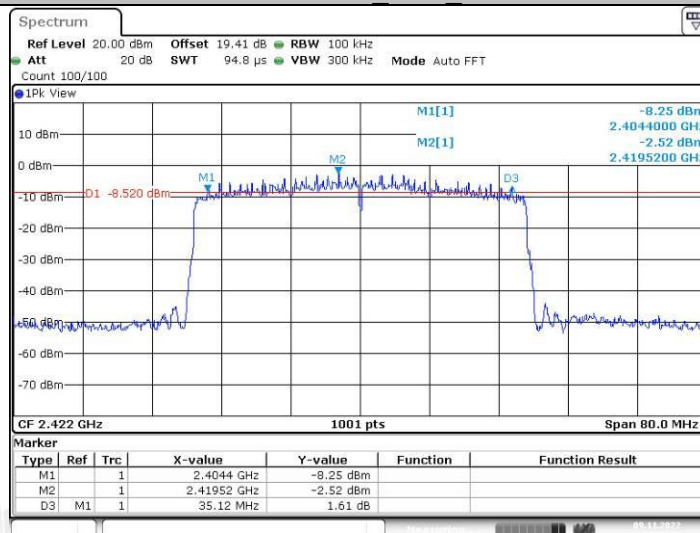


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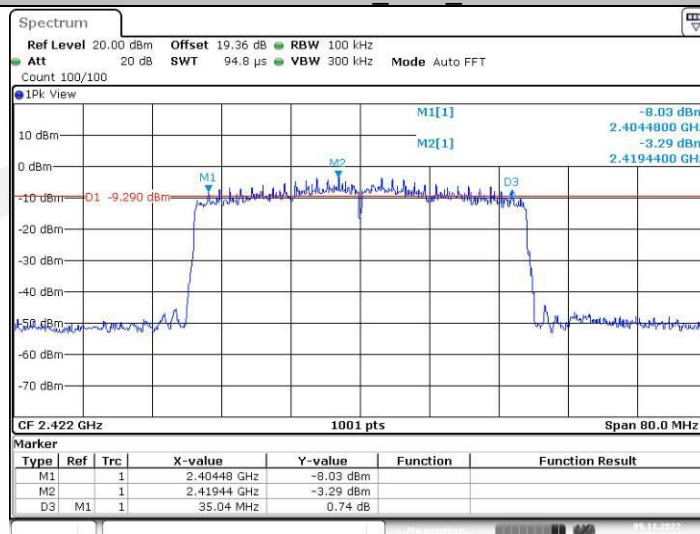
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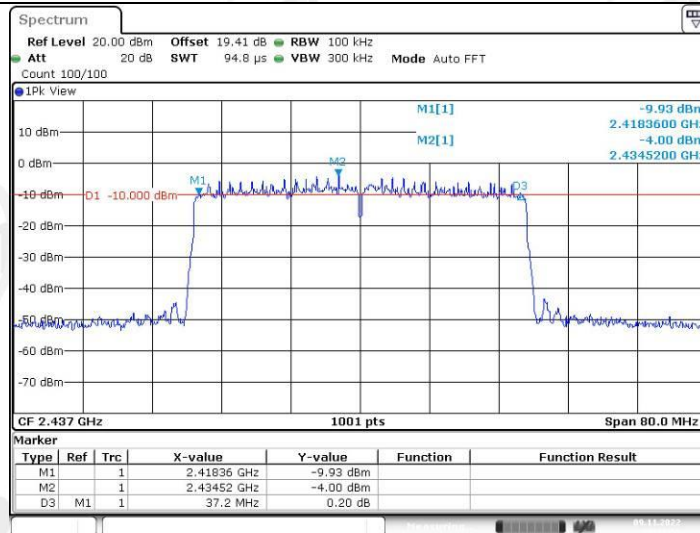
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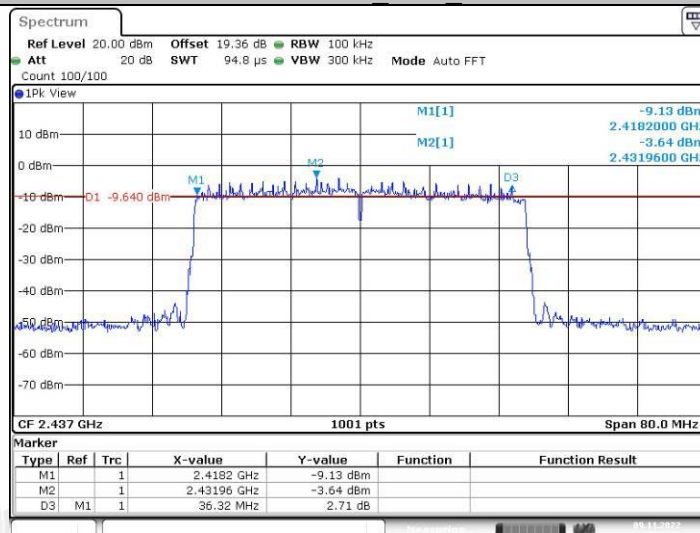
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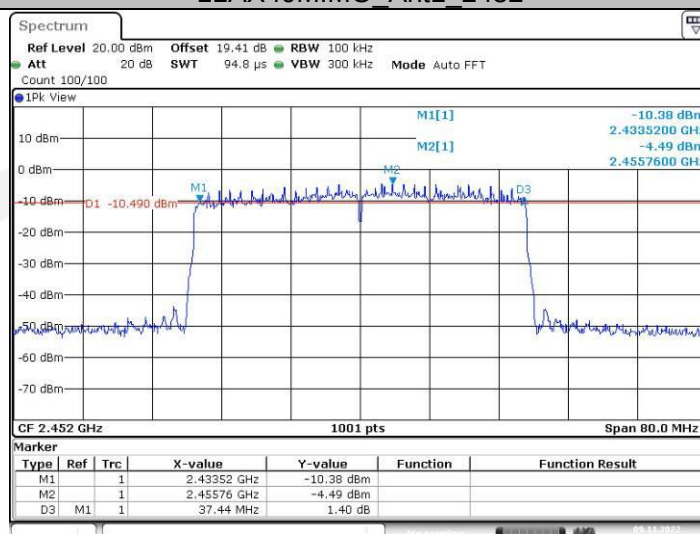
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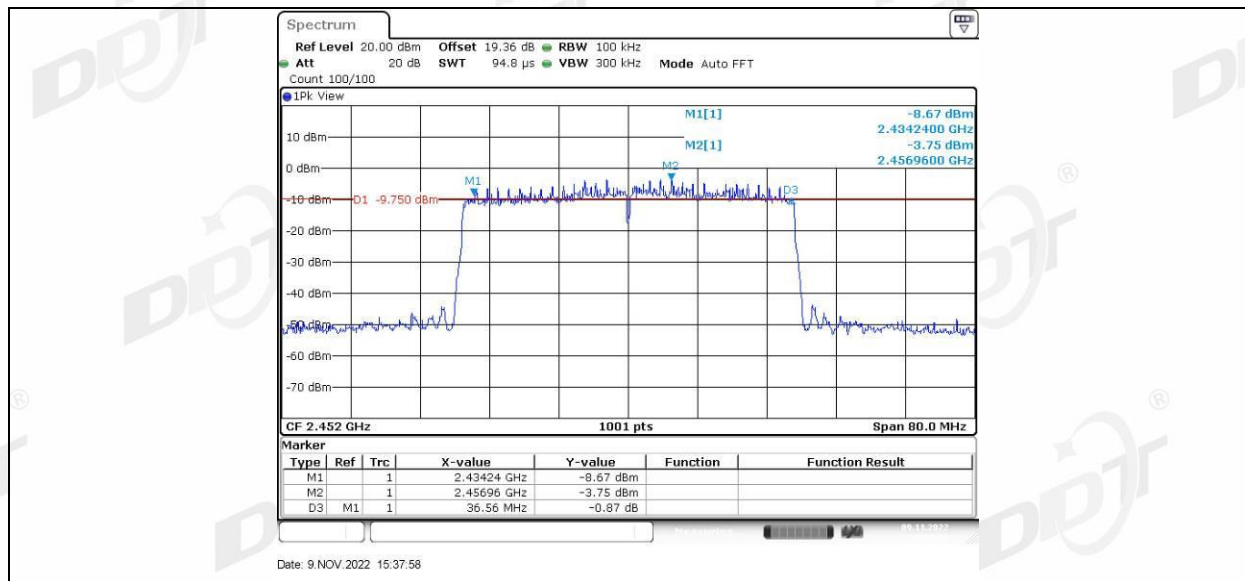
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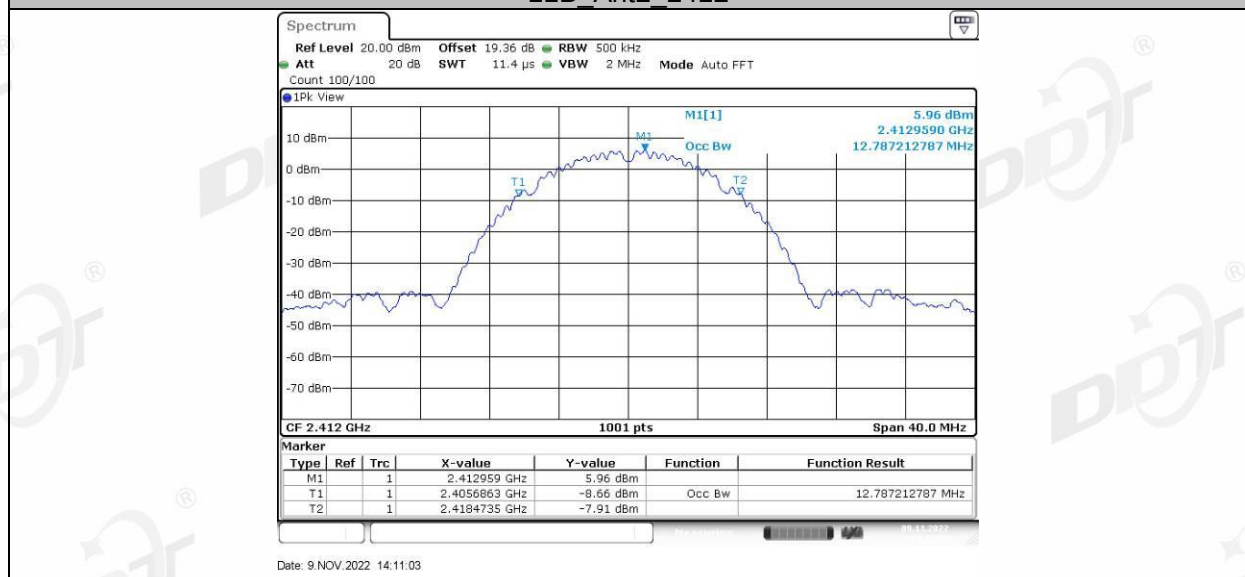


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11B_Ant2_2412

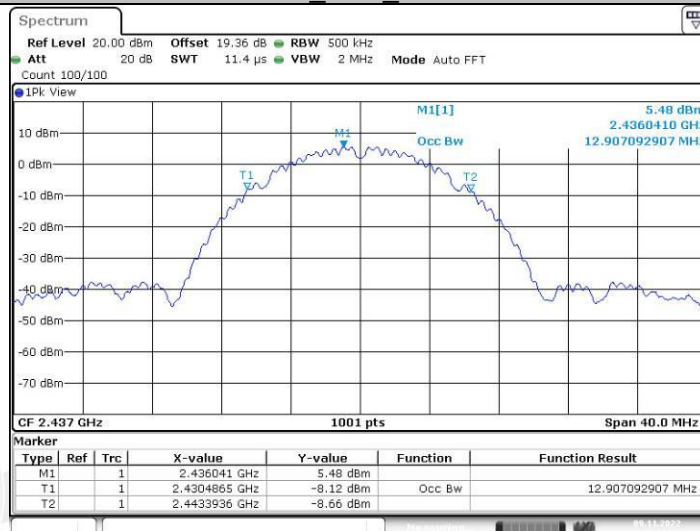


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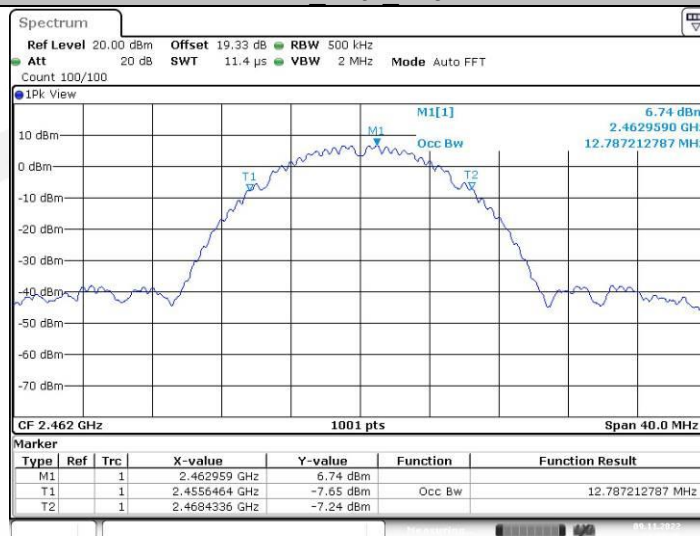
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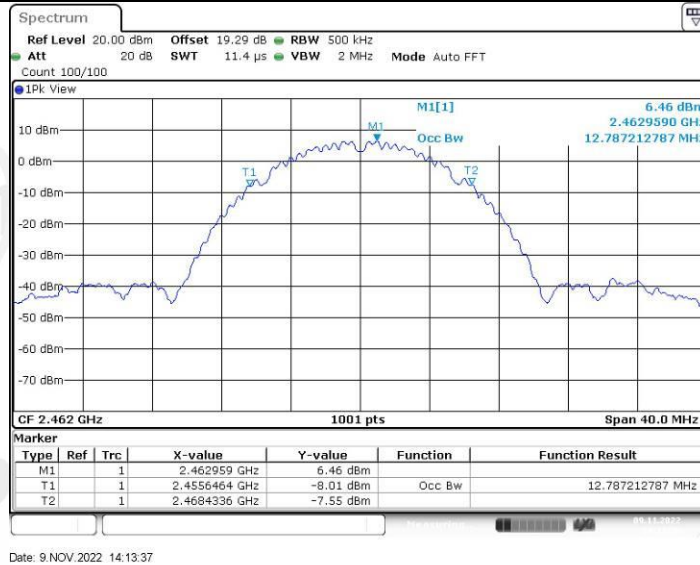
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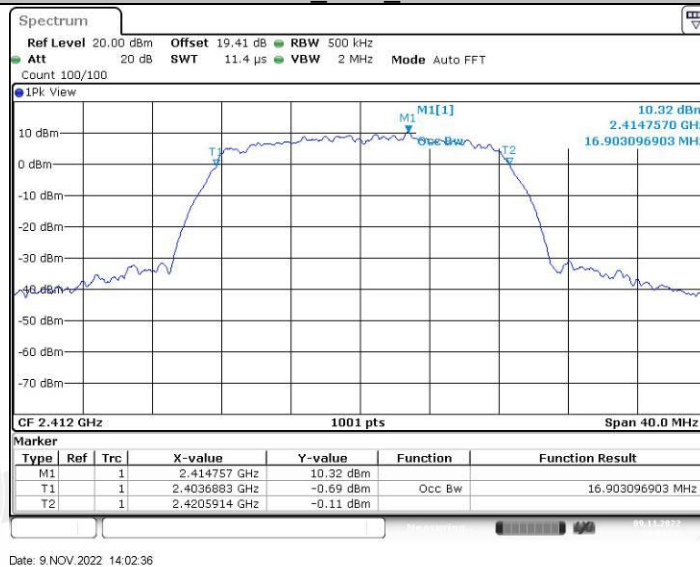


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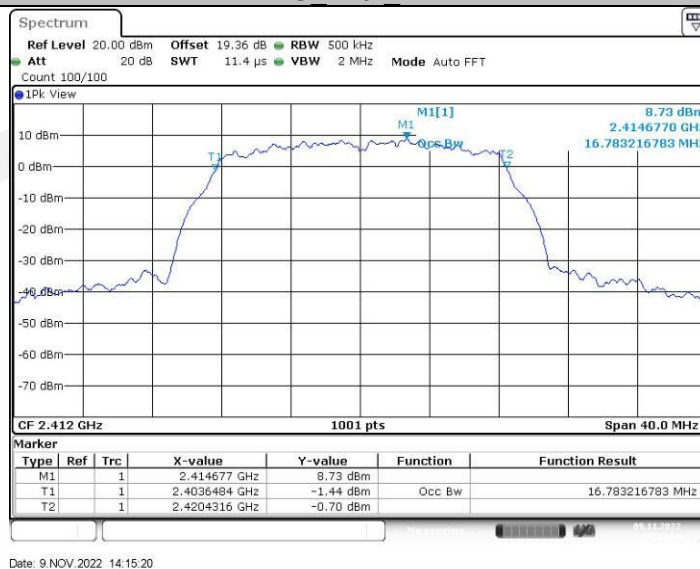
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11G_Ant1_2412



11G_Ant2_2412



11G_Ant1_2437



Date: 9.NOV.2022 14:06:43

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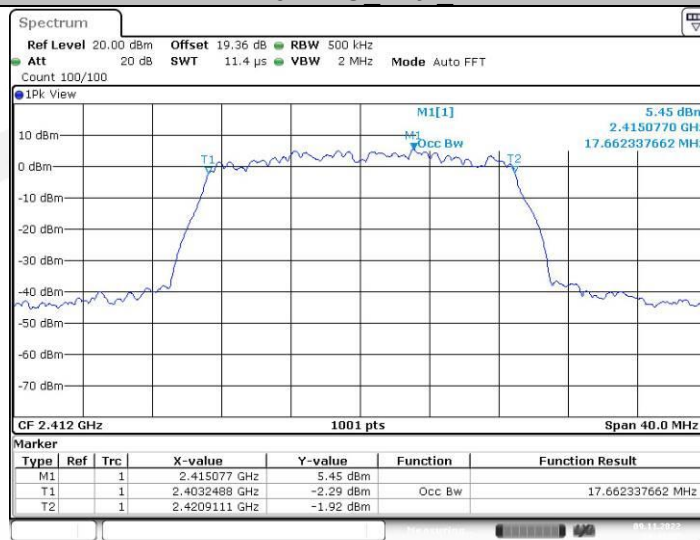
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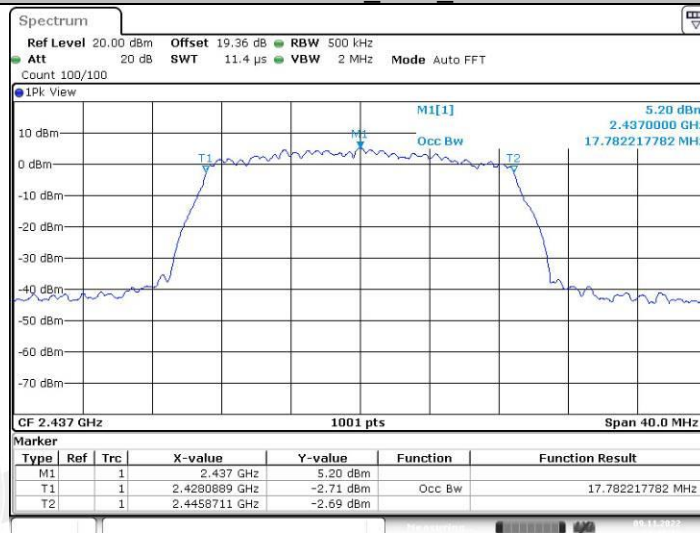


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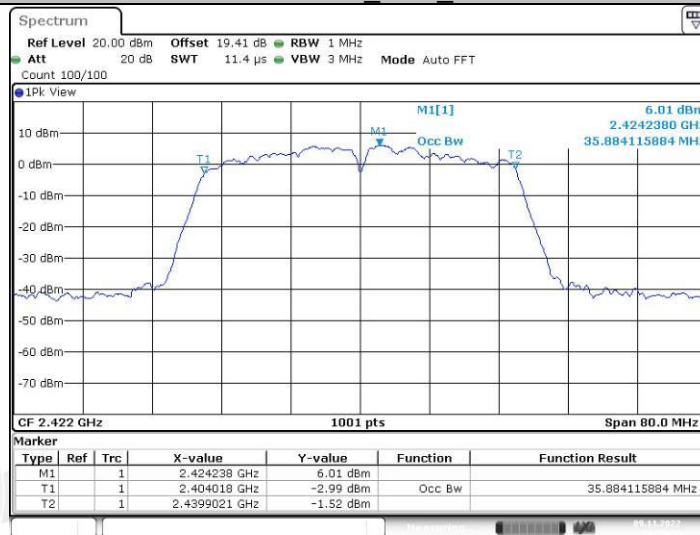


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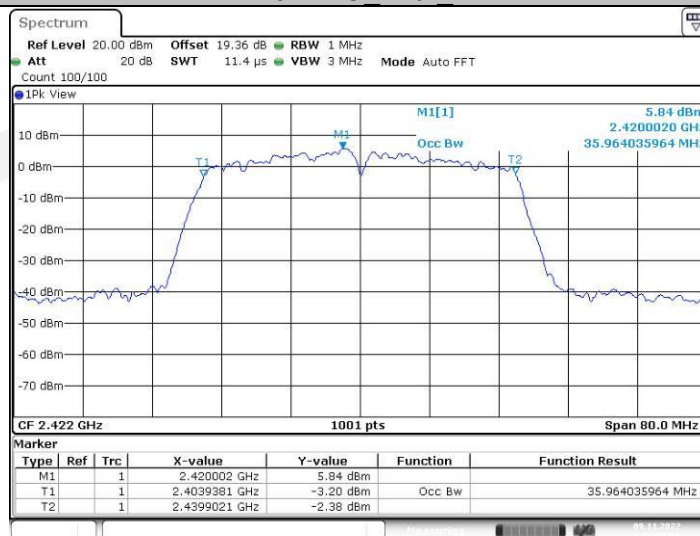
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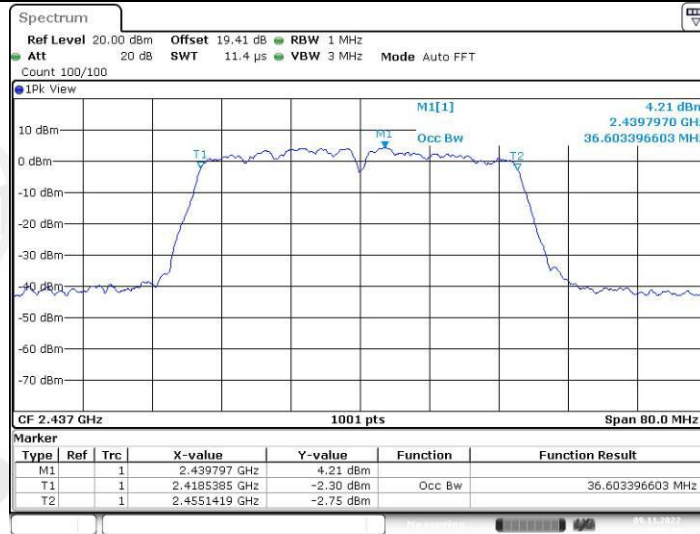
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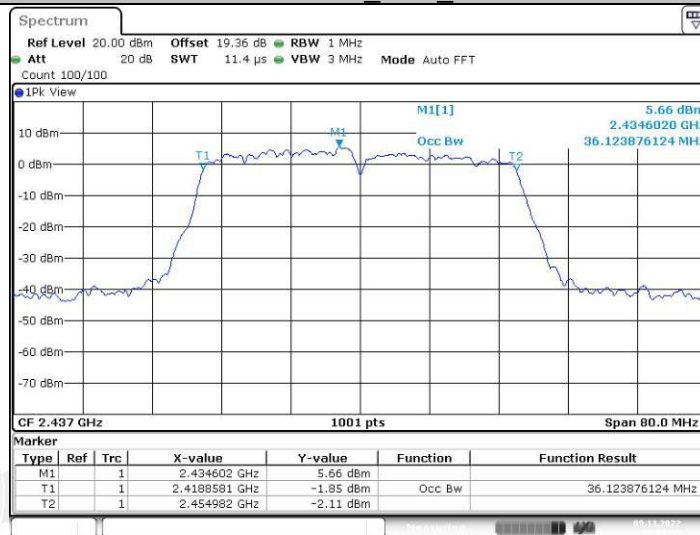
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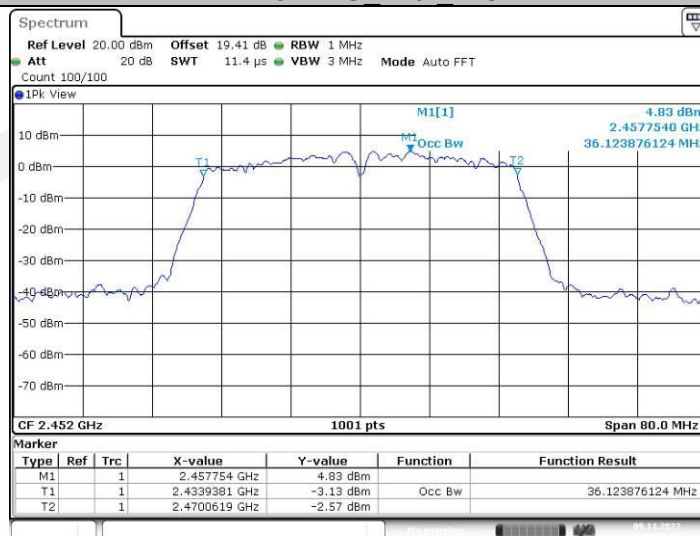
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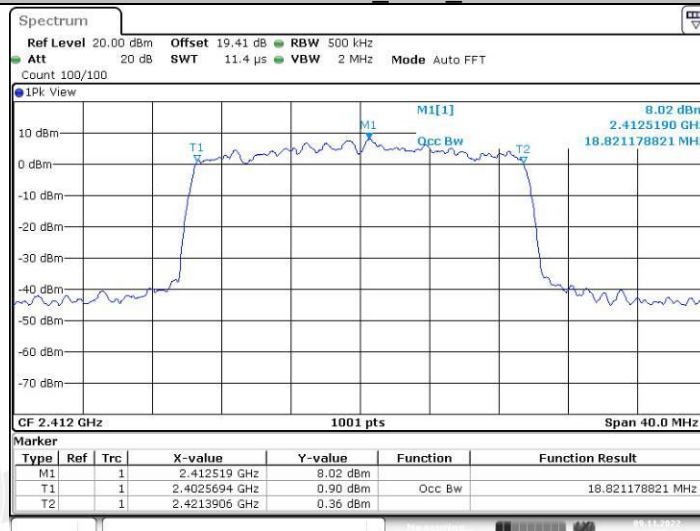
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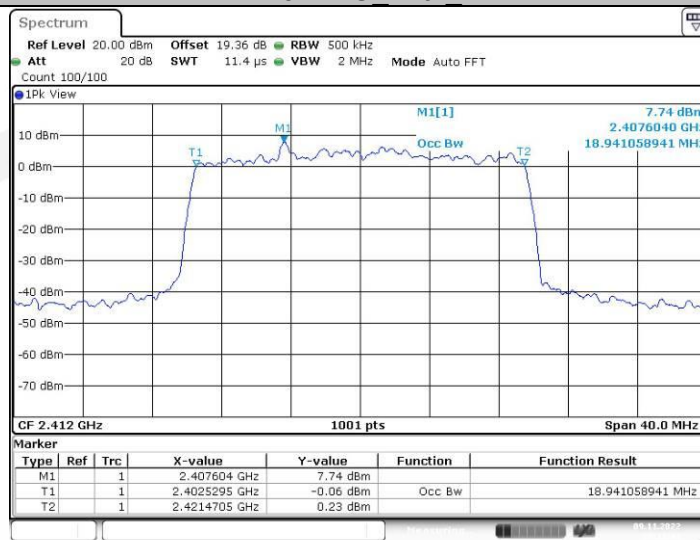
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11AX20MIMO_Ant2_2412



11AX20MIMO_Ant1_2437



Date: 9.NOV.2022 15:16:15

11AX20MIMO_Ant2_2437



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