

FCC CERTIFICATION TEST REPORT

FOR

Applicant	:	MOTREX CO., LTD.
Address	:	Seoyoung Bldg. 25, Hwangsaеul-ro 258beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea
Equipment under Test	:	Equipo de Audio y Video para Vehiculo
Model No.	:	MTXMO440LBL7m, MTXMO410LNQ5a
Trade Mark	:	HYUNDAI/KIA
FCC ID	:	BP9-MO440LBL7M
Manufacturer	:	Skypine Electronics(Shenzhen) Co.,Ltd
Address	:	3rd Floor of Building B, Jingang Technology Park, Qiaotou Village, Fuhai Sub-District, Baoan, Shenzhen, 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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Address	:	3rd Floor of Building B, Jingang Technology Park, Qiaotou Village, Fuhai Sub-District, Baoan, Shenzhen, China

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart E

Test procedure used:

ANSI C63.10:2013, 789033 D02 General U-NII Test Procedures New Rules v02r01

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 standards.

Report No:	DDT-R22092815-2E03		
Date of Receipt:	Oct. 28, 2022	Date of Test:	Oct. 28, 2022 ~ Nov. 25, 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. 25, 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
6/26db Bandwidth and 99% Bandwidth	FCC 15.407 (e)	Pass
Maximum Conducted Output Power	FCC 15.407 (a)	Pass
Power Spectral Density	FCC 15.407 (a)	Pass
Frequency Stability Measurement	FCC 15.407 (g)	Pass
Emissions in restricted frequency bands	FCC 15.407 (a) FCC 15.209 FCC 15.205	Pass
Band Edge Compliance	FCC 15.407 (a) FCC 15.209 FCC 15.205	Pass
Power Line Conducted Emission	FCC 15.207	N/A
Antenna requirement	FCC 15.203	Pass
Dynamic Frequency Selection	FCC 15.407 (h)	N/A
Note: N/A is an abbreviation for Not Applicable		

2. General test information

2.1. Description of EUT

EUT* Name	: Equipo de Audio y Video para Vehiculo
Model Number	: MTXMO440LBL7m, MTXMO410LNQ5a
Difference of models	: Their head unit electrical circuit design, layout, components used and internal wiring are identical, the shape and the material are also identical. Only the frontpanel and the packaging material size are different, but the frontpanel circuit design and principle are the same. Therefore the test performed on the model MTXMO440LBL7m and record in this report.
EUT function description	: Please reference user manual of this device
Power supply	: DC 12V
Radio Technology	: IEEE 802.11a/n/ac
FCC Operation frequency	: IEEE 802.11a: 5180MHz-5240MHz, 5745MHz-5825MHz IEEE 802.11n HT20: 5180MHz-5240MHz, 5745MHz-5825MHz IEEE 802.11n HT40: 5190MHz-5230MHz, 5755MHz-5755MHz IEEE 802.11ac HT20: 5180MHz-5240MHz, 5745MHz-5825MHz IEEE 802.11ac HT40: 5190MHz-5230MHz, 5755MHz-5755MHz IEEE 802.11ac HT80: 5210 MHz, 5775 MHz
Modulation	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Transmitter rate	: IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20: 7.2, 21.7, 43.3, 72.2 Mbps IEEE 802.11n HT40: 15, 45, 90, 150 Mbps IEEE 802.11ac HT20: up to 86.6 Mbps IEEE 802.11ac HT40: up to 200 Mbps IEEE 802.11ac HT80: up to 433.3 Mbps
Antenna Gain	: 3.62 dBi
Sample Type	: Series production
Sample Number	: S22092815-05

Note: EUT is the ab. of equipment under test.

2.2. Accessories of EUT

Assistant equipment	Manufacturer	Model number	Other
N/A	N/A	N/A	N/A

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: Xshell.exe

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 802.11a	Default	6	CH36	5180
	Default	6	CH40	5200
	Default	6	CH48	5240
	Default	6	CH149	5745
	Default	6	CH157	5785
	Default	6	CH165	5825
IEEE 802.11n HT20	Default	MCS0	CH36	5180
	Default	MCS0	CH40	5200
	Default	MCS0	CH48	5240
	Default	MCS0	CH149	5745
	Default	MCS0	CH157	5785
	Default	MCS0	CH165	5825
IEEE 802.11n HT40	Default	MCS0	CH38	5190
	Default	MCS0	CH46	5230
	Default	MCS0	CH151	5755
	Default	MCS0	CH159	5795
IEEE 802.11ac VHT20	Default	MCS0	CH36	5180
	Default	MCS0	CH40	5200
	Default	MCS0	CH48	5240
	Default	MCS0	CH149	5745
	Default	MCS0	CH157	5785
	Default	MCS0	CH165	5825
IEEE 802.11ac VHT40	Default	MCS0	CH38	5190
	Default	MCS0	CH46	5230
	Default	MCS0	CH151	5755
	Default	MCS0	CH159	5795
IEEE 802.11ac VHT80	Default	MCS0	CH42	5210
	Default	MCS0	CH155	5775

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 °C to +25 °C
Humidity range:	40% to 75%
Pressure range:	86 kPa to 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

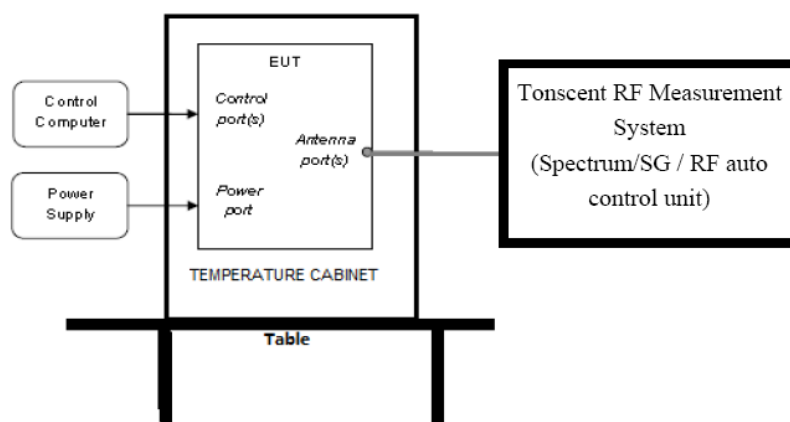
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 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 ($8 \text{ GHz} \leq f < 26.5 \text{ GHz}$)
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	3.34dB (150KHz-30MHz) 3.72dB (9KHz-150KHz)
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	ZXGDJS-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	Sep. 29, 2022	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. 26dB Bandwidth, 6dB Bandwidth and 99% Bandwidth

4.1. Block diagram of test setup



4.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Bandwidth	26 dB Bandwidth	5150-5250
	26 dB Bandwidth	5250-5350
	26 dB Bandwidth	For FCC:5470-5725 For IC:5470-5600 5650-5725
	Minimum 500kHz 6dB Bandwidth	5725-5850

4.3. Test Procedure

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

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6 dB Bandwidth: VBW=300 kHz For 26 dB Bandwidth: >3 RBW
Trace	Max hold
Sweep	Auto couple

(2) 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 26 dB and 6 dB relative to the maximum level measured in the fundamental emission.

4.4. Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.622	5171.2488	5188.8711	---	Pass
		5200	17.542	5191.2488	5208.7912	---	Pass
		5240	17.423	5231.3287	5248.7512	---	Pass
		5745	17.622	5736.0889	5753.7113	---	Pass
		5785	17.902	5775.9291	5793.8312	---	Pass
		5825	17.622	5816.1688	5833.7912	---	Pass
11N20SISO	Ant1	5180	18.342	5170.8492	5189.1908	---	Pass
		5200	18.462	5190.7293	5209.1908	---	Pass
		5240	18.342	5230.9291	5249.2707	---	Pass
		5745	18.462	5735.7293	5754.1908	---	Pass
		5785	18.581	5775.6893	5794.2707	---	Pass
		5825	18.581	5815.6893	5834.2707	---	Pass
11N40SISO	Ant1	5190	36.763	5171.6983	5208.4615	---	Pass
		5230	36.923	5211.6983	5248.6214	---	Pass
		5755	37.163	5736.4585	5773.6214	---	Pass
		5795	37.163	5776.3786	5813.5415	---	Pass
11AC20SISO	Ant1	5180	18.382	5170.8492	5189.2308	---	Pass
		5200	18.342	5190.8092	5209.1508	---	Pass
		5240	18.382	5230.8092	5249.1908	---	Pass
		5745	18.541	5735.8092	5754.3506	---	Pass
		5785	18.462	5775.7293	5794.1908	---	Pass
		5825	18.621	5815.6494	5834.2707	---	Pass
11AC40SISO	Ant1	5190	36.763	5171.6983	5208.4615	---	Pass
		5230	37.003	5211.6184	5248.6214	---	Pass
		5755	36.843	5736.5385	5773.3816	---	Pass
		5795	37.003	5776.5385	5813.5415	---	Pass
11AC80SISO	Ant1	5210	76.563	5171.7982	5248.3616	---	Pass
		5775	76.404	5736.6384	5813.0420	---	Pass

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.00	5169.60	5190.60	---	Pass
		5200	20.92	5189.52	5210.44	---	Pass
		5240	21.00	5229.56	5250.56	---	Pass
		5745	21.56	5734.24	5755.80	---	Pass
		5785	22.44	5773.52	5795.96	---	Pass
		5825	20.72	5814.64	5835.36	---	Pass
11N20SISO	Ant1	5180	20.92	5169.60	5190.52	---	Pass
		5200	21.32	5189.20	5210.52	---	Pass
		5240	21.08	5229.60	5250.68	---	Pass
		5745	21.20	5734.28	5755.48	---	Pass
		5785	21.28	5774.44	5795.72	---	Pass
		5825	21.32	5814.32	5835.64	---	Pass
11N40SISO	Ant1	5190	42.40	5169.04	5211.44	---	Pass
		5230	43.04	5208.96	5252.00	---	Pass
		5755	42.56	5733.88	5776.44	---	Pass
		5795	42.40	5773.72	5816.12	---	Pass

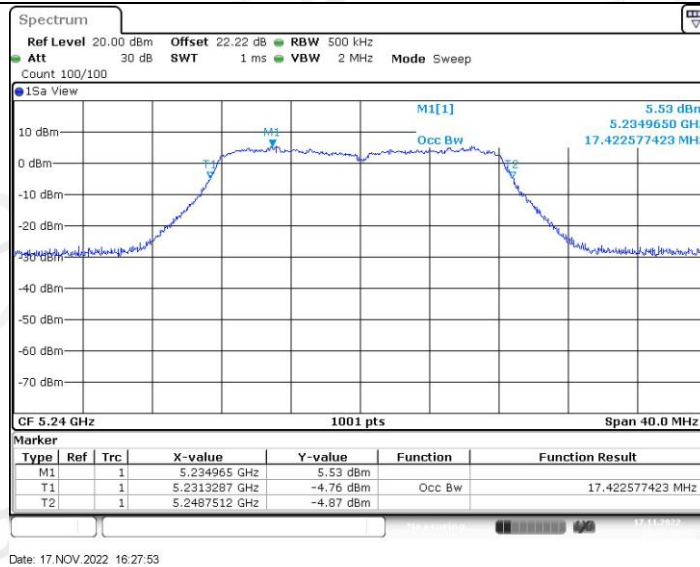
11AC20SISO	Ant1	5180	21.48	5169.32	5190.80	---	Pass
		5200	21.08	5189.36	5210.44	---	Pass
		5240	21.28	5229.40	5250.68	---	Pass
		5745	21.16	5734.56	5755.72	---	Pass
		5785	21.00	5774.44	5795.44	---	Pass
		5825	21.08	5814.36	5835.44	---	Pass
11AC40SISO	Ant1	5190	41.84	5169.12	5210.96	---	Pass
		5230	42.72	5208.80	5251.52	---	Pass
		5755	42.80	5733.56	5776.36	---	Pass
		5795	42.80	5773.64	5816.44	---	Pass
11AC80SISO	Ant1	5210	82.88	5169.04	5251.92	---	Pass
		5775	83.20	5733.40	5816.60	---	Pass

Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.36	5736.84	5753.20	0.5	PASS
		5785	16.32	5776.84	5793.16	0.5	PASS
		5825	16.32	5816.84	5833.16	0.5	PASS
11N20SISO	Ant1	5745	17.28	5736.48	5753.76	0.5	PASS
		5785	17.28	5776.24	5793.52	0.5	PASS
		5825	17.28	5816.48	5833.76	0.5	PASS
11N40SISO	Ant1	5755	35.84	5737.08	5772.92	0.5	PASS
		5795	35.76	5777.16	5812.92	0.5	PASS
11AC20SISO	Ant1	5745	17.32	5736.24	5753.56	0.5	PASS
		5785	17.52	5776.24	5793.76	0.5	PASS
		5825	17.32	5816.24	5833.56	0.5	PASS
11AC40SISO	Ant1	5755	35.84	5737.08	5772.92	0.5	PASS
		5795	35.44	5777.48	5812.92	0.5	PASS
11AC80SISO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS

4.5. Original test data

99% OBW:

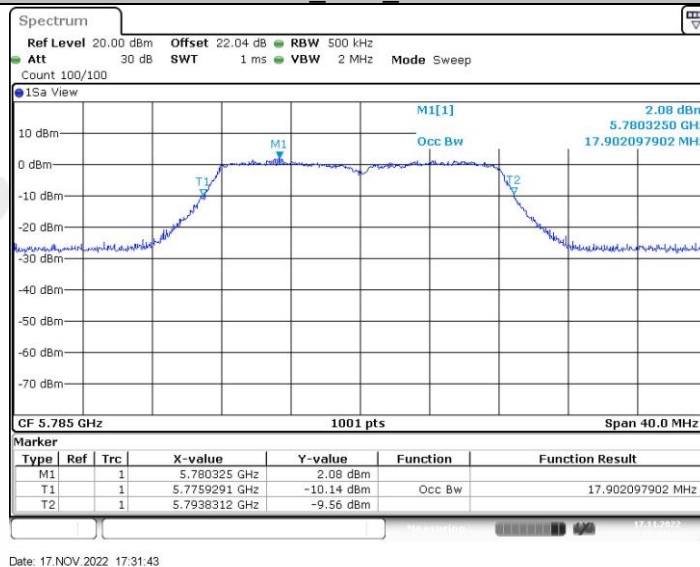




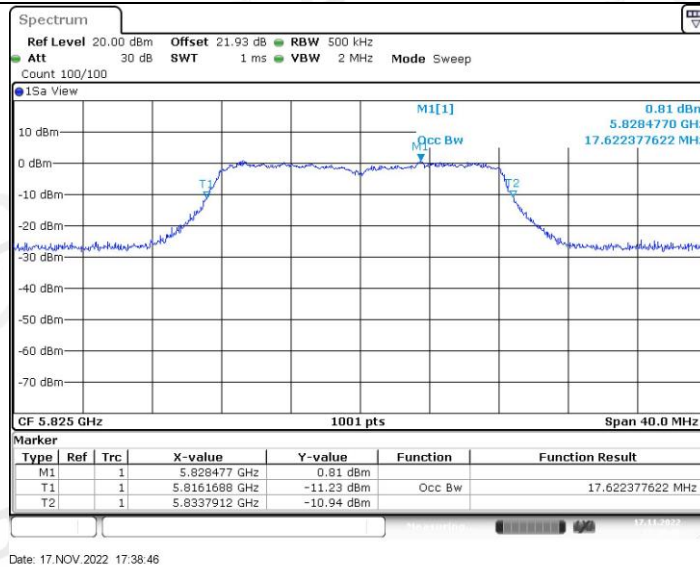
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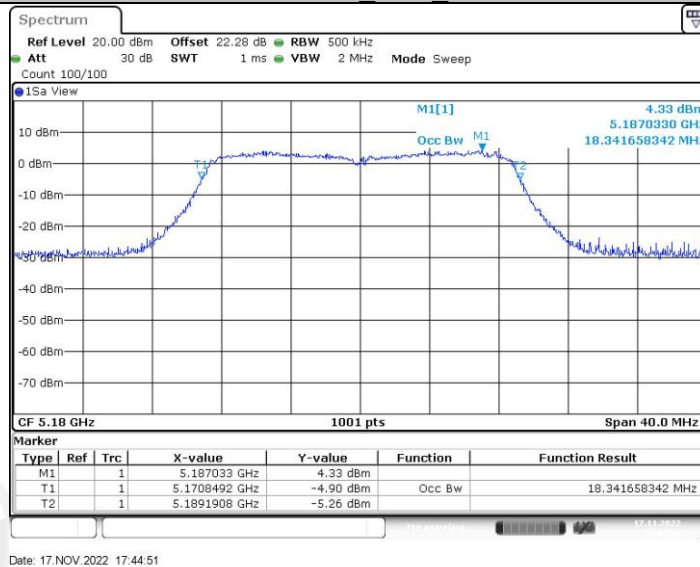
11A_Ant1_5785



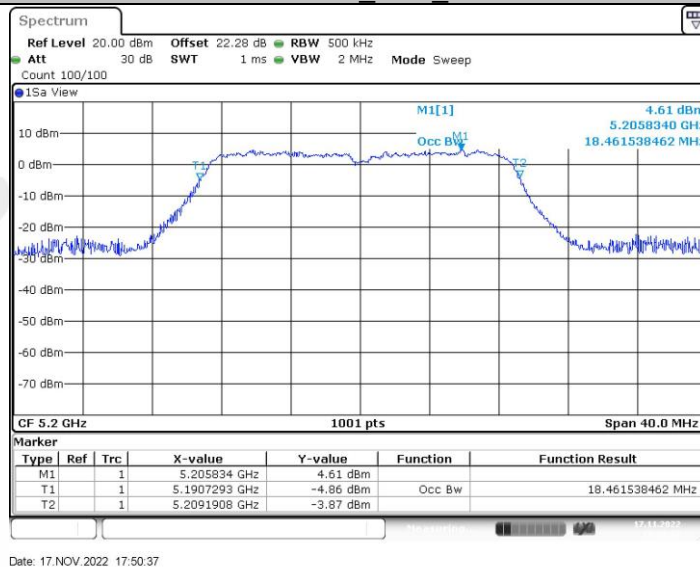
11A_Ant1_5825



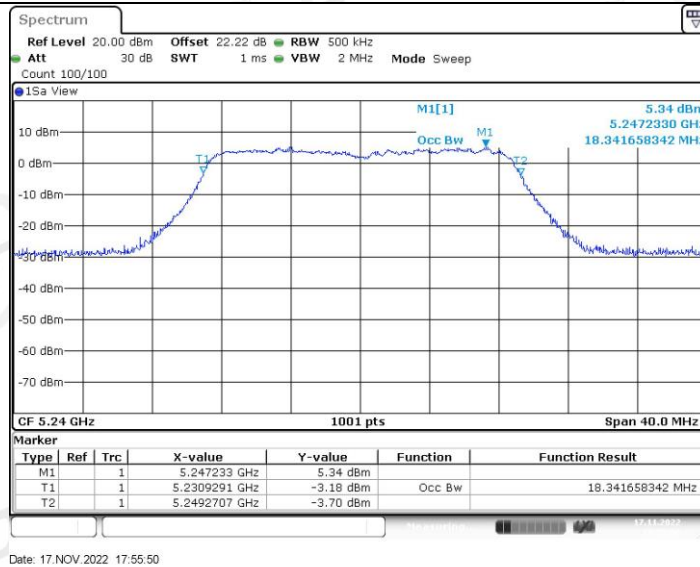
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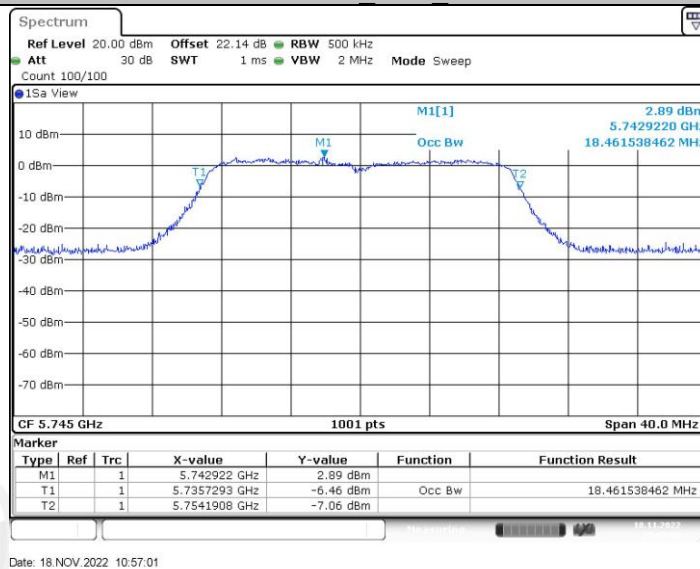
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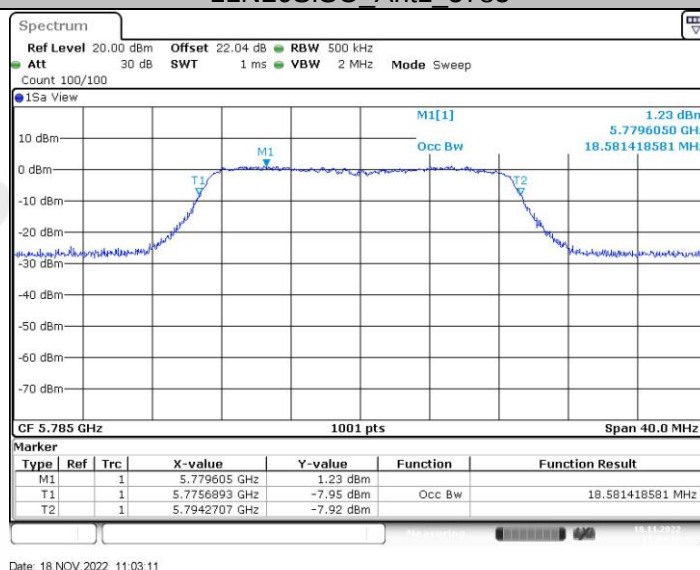
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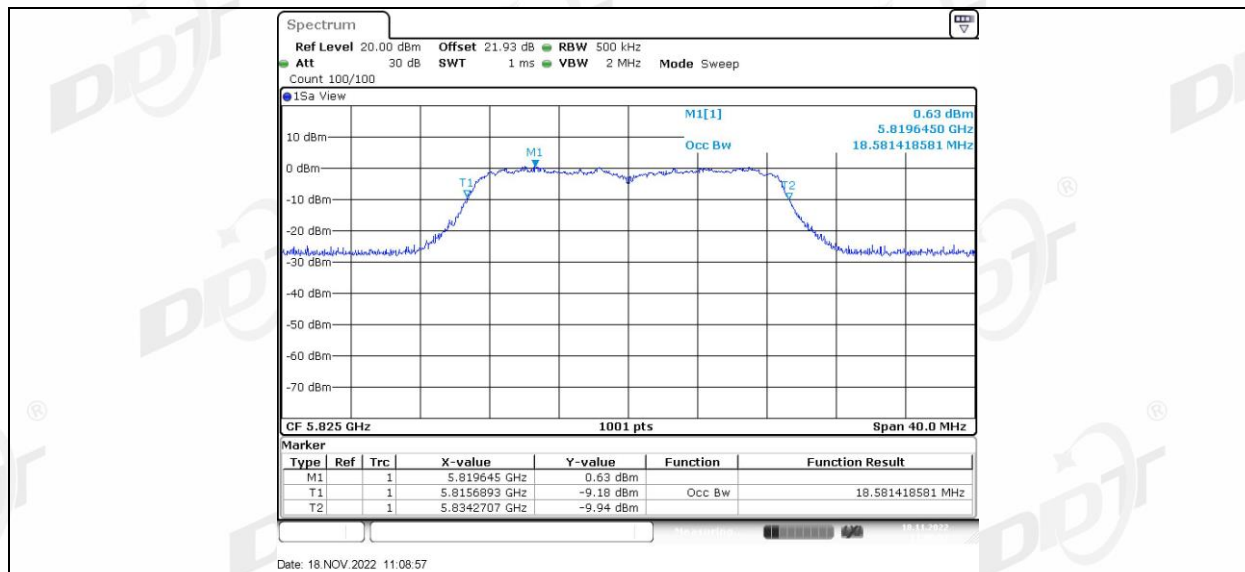
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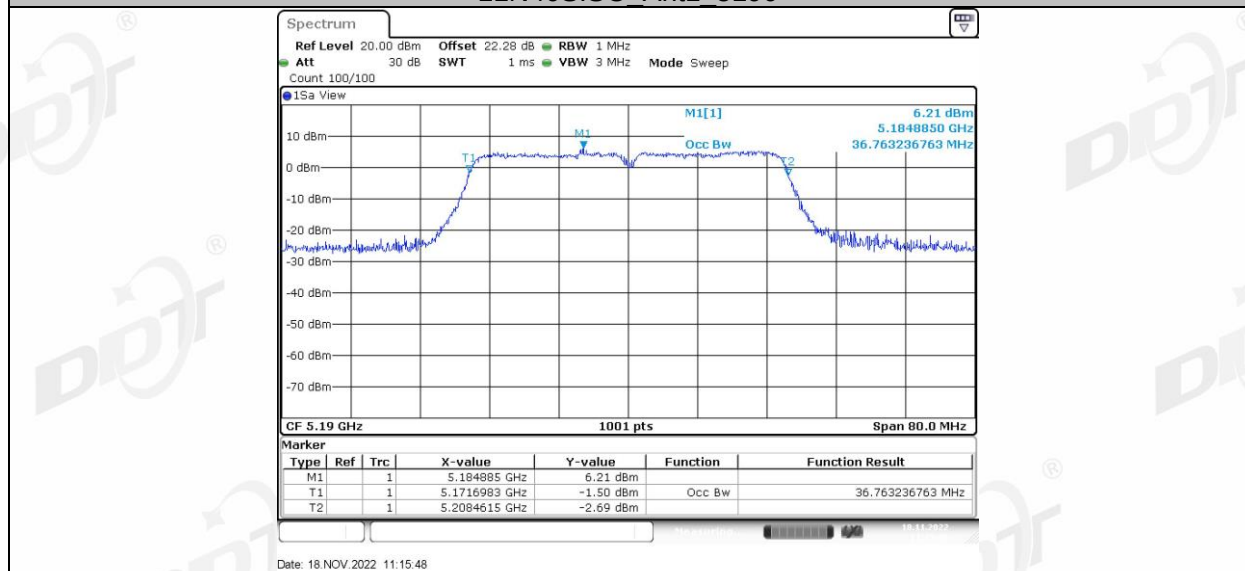
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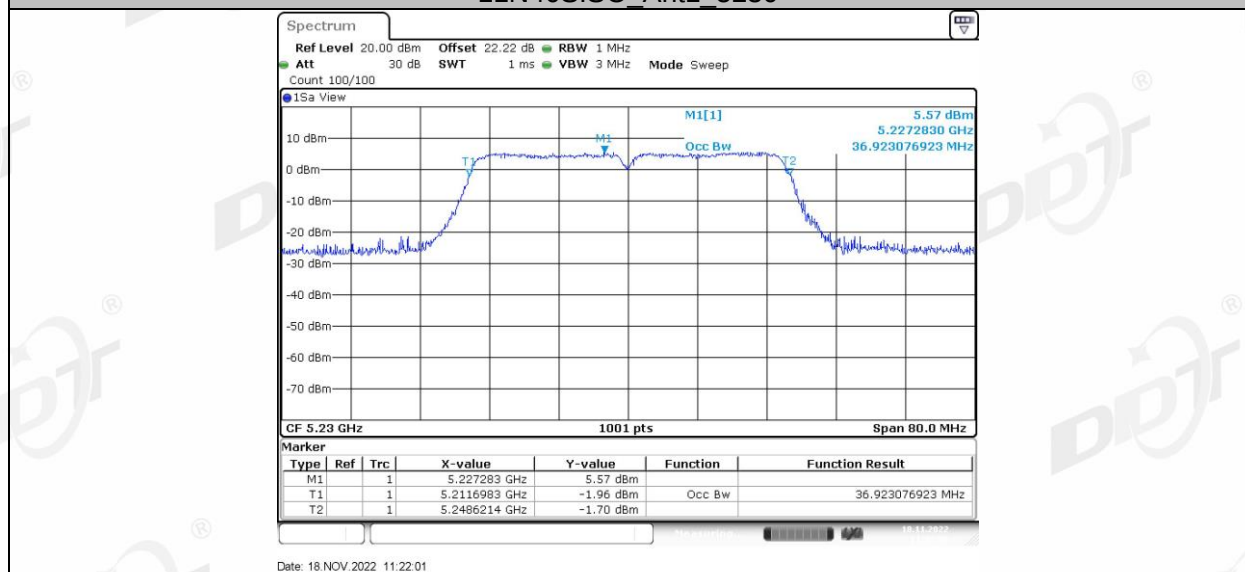
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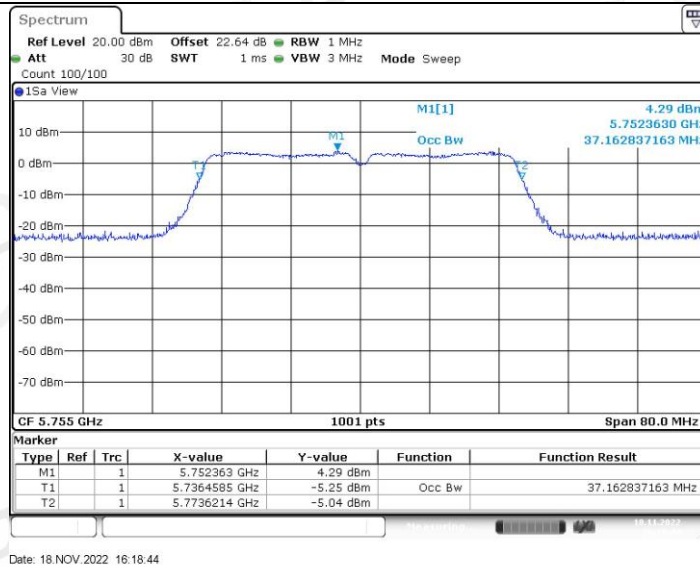
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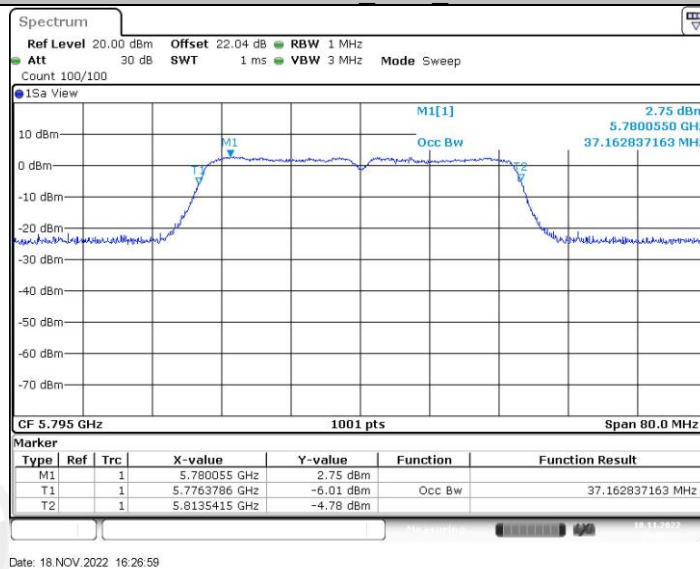
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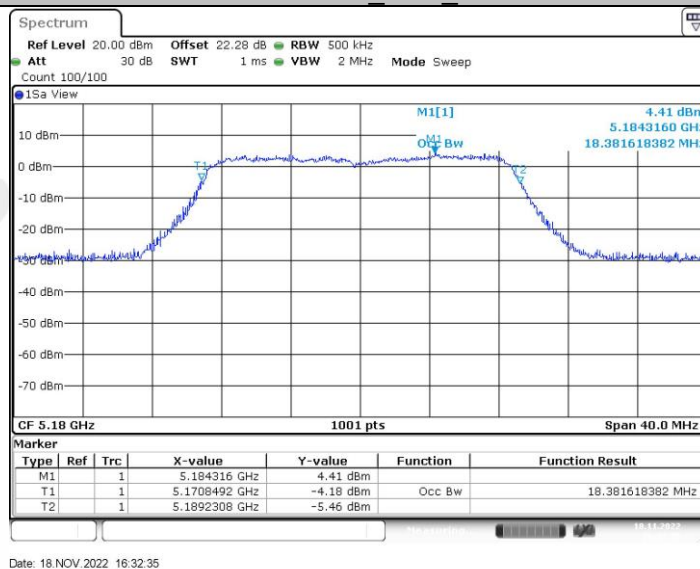
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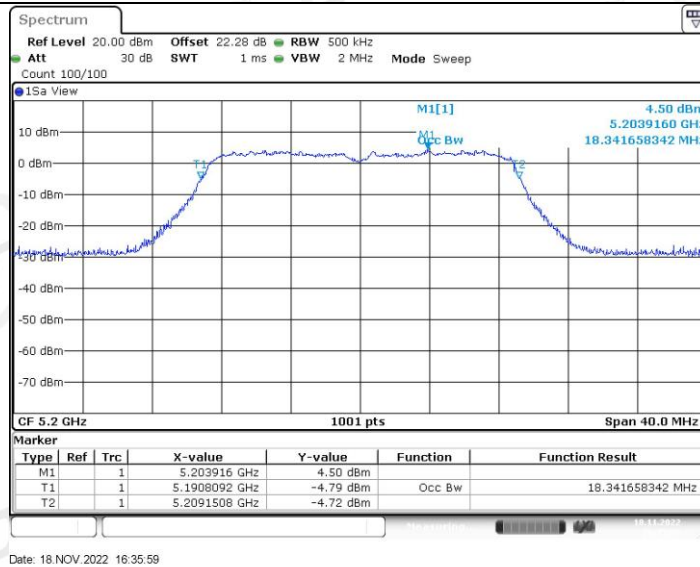
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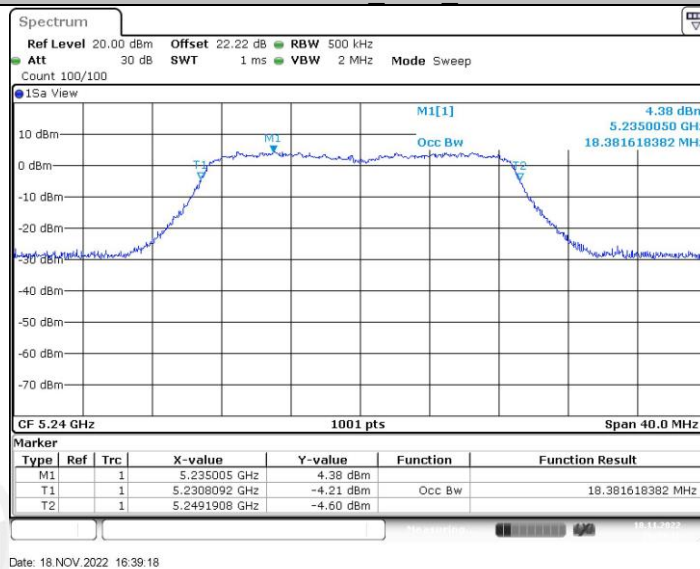
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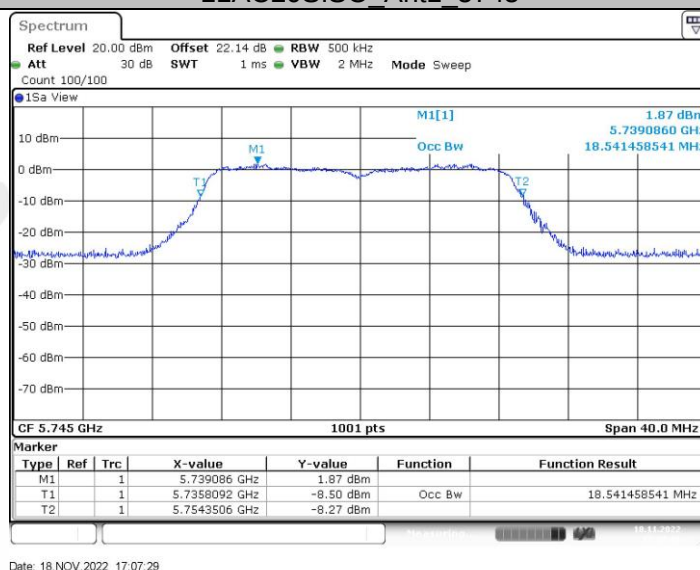
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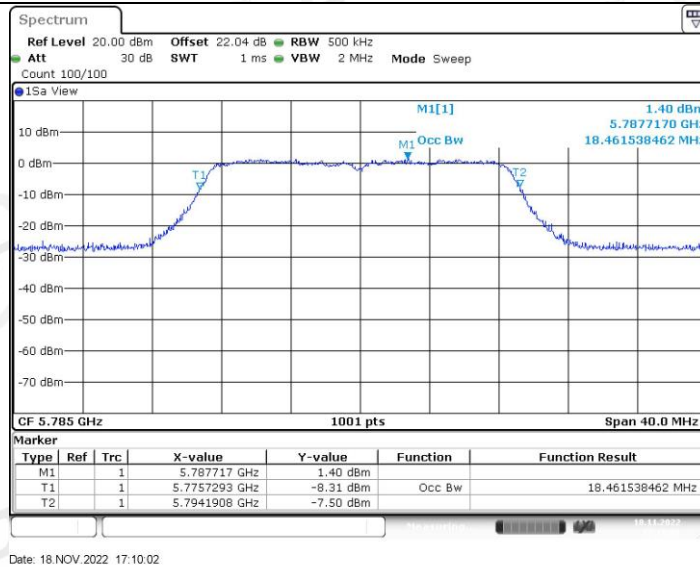
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11AC20SISO_Ant1_5745



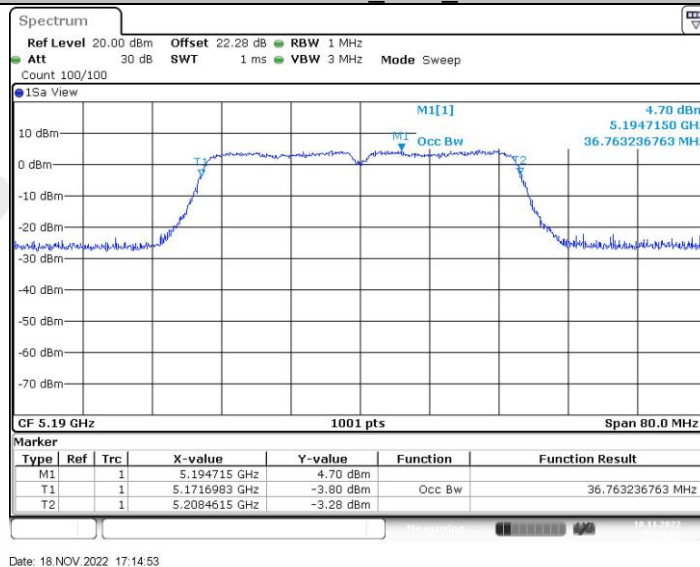
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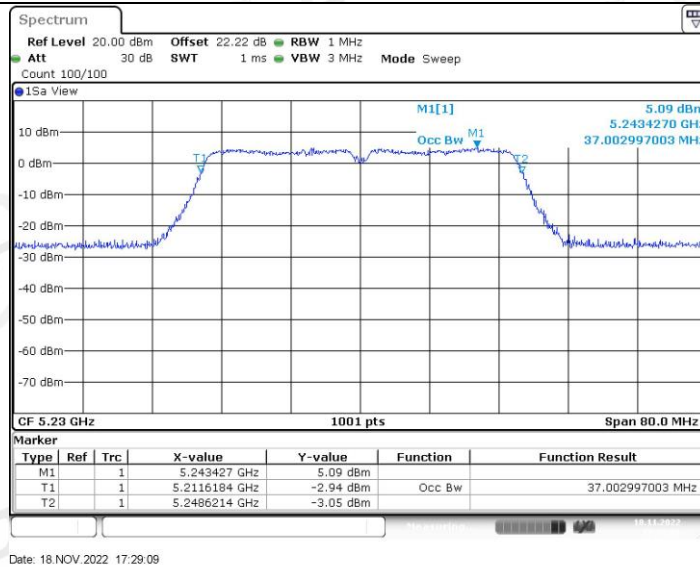
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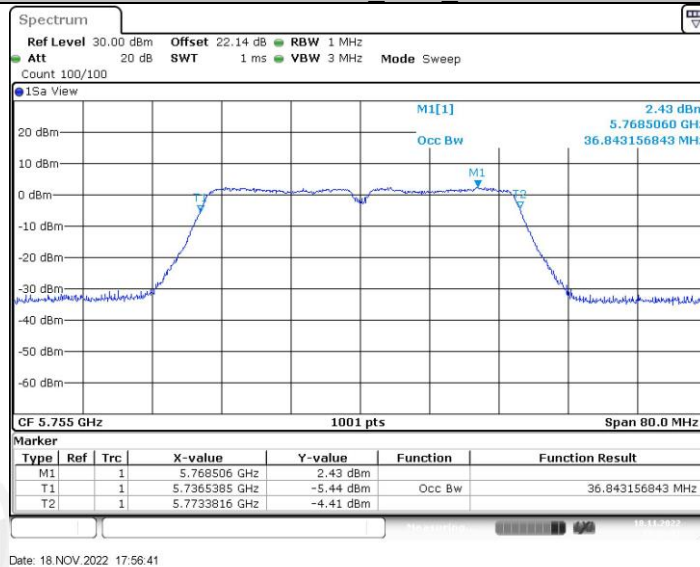
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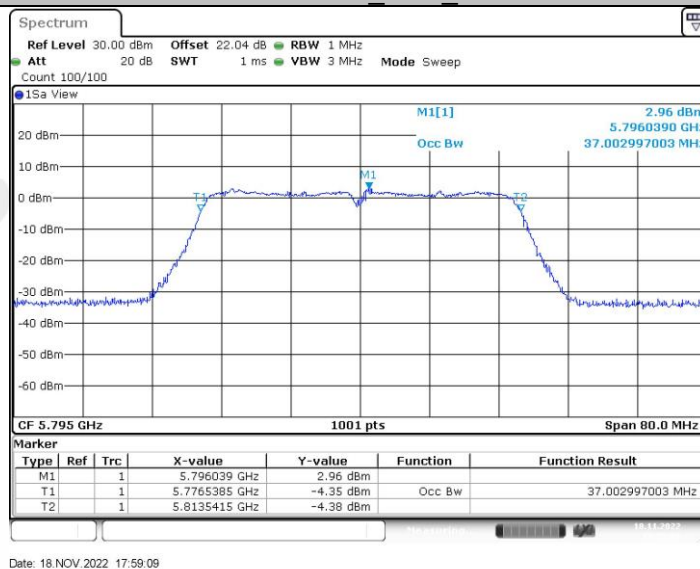
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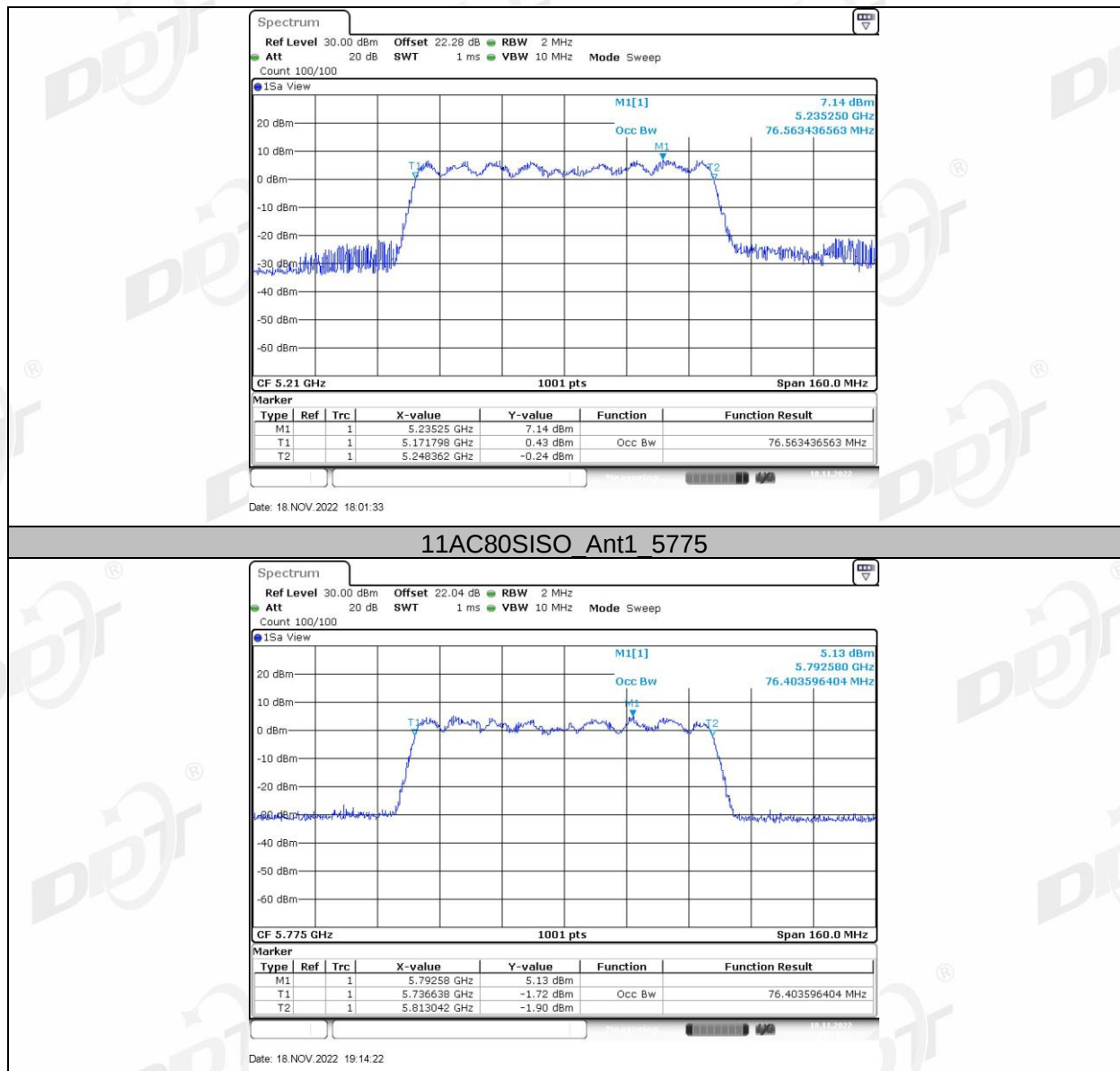
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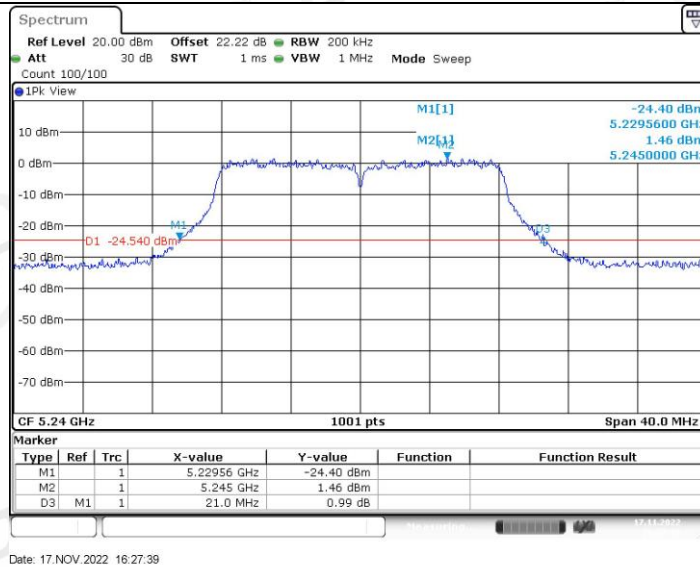


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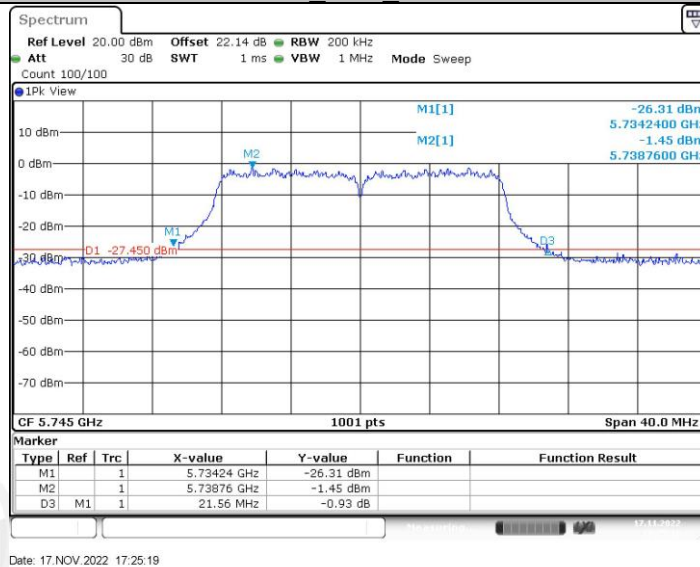


26db EBW:

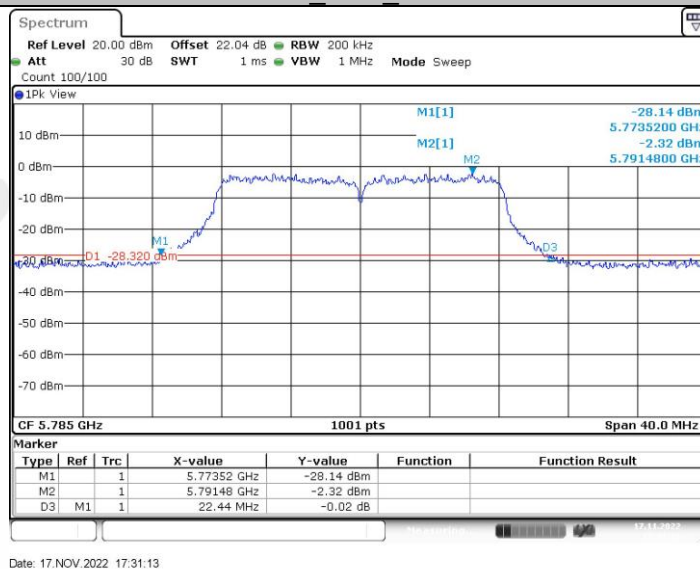




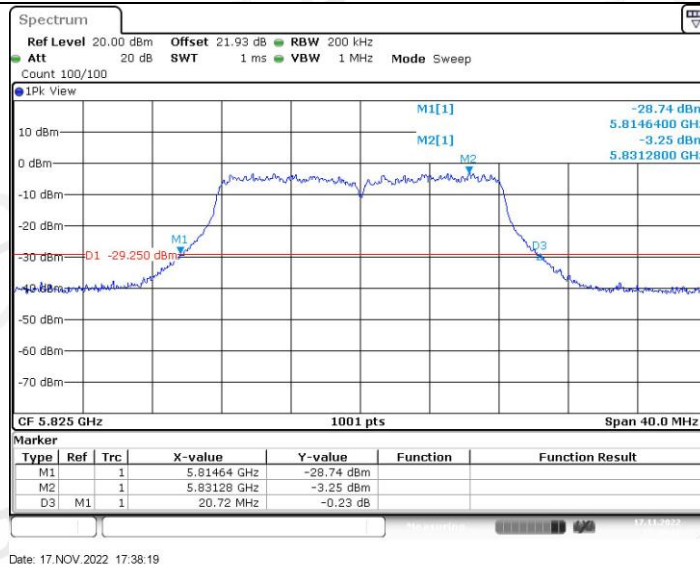
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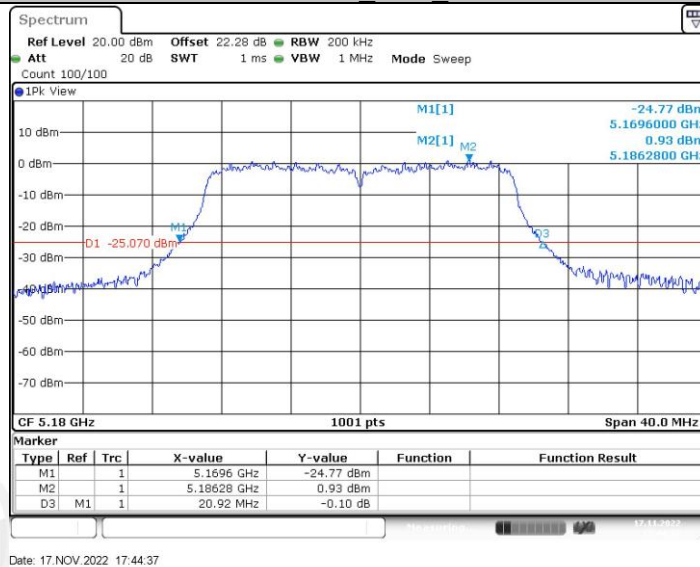
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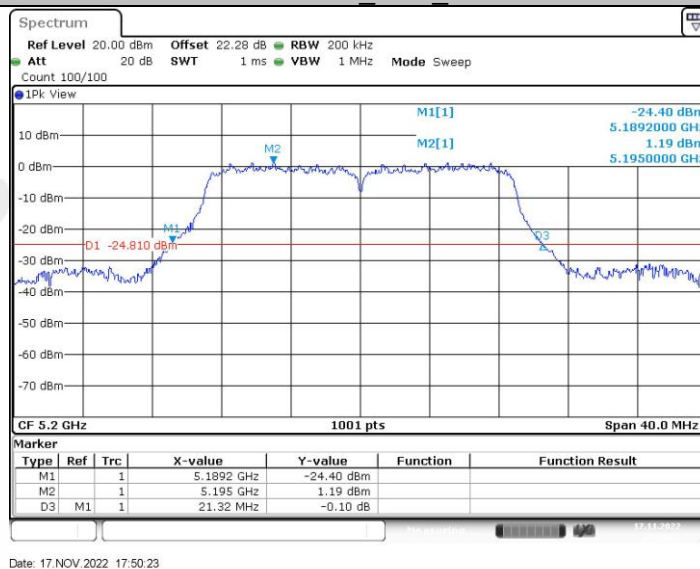
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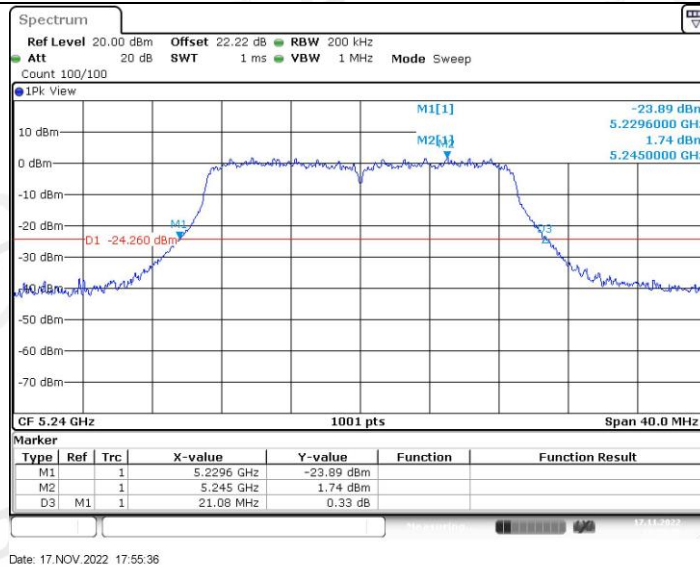
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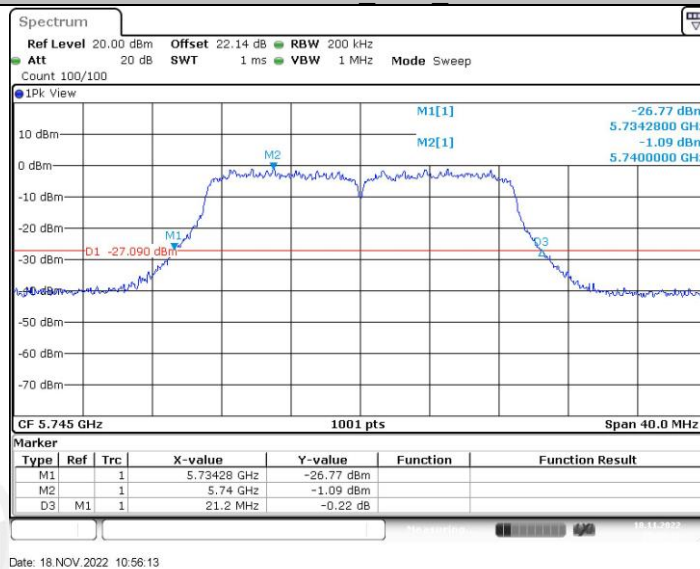
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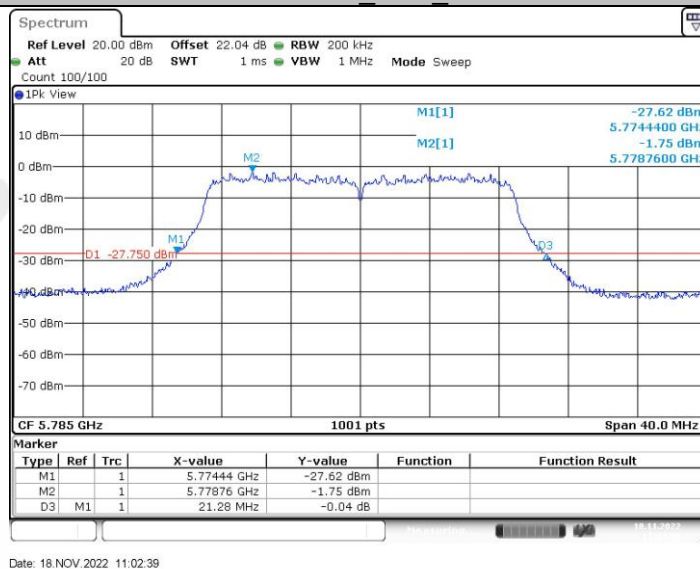
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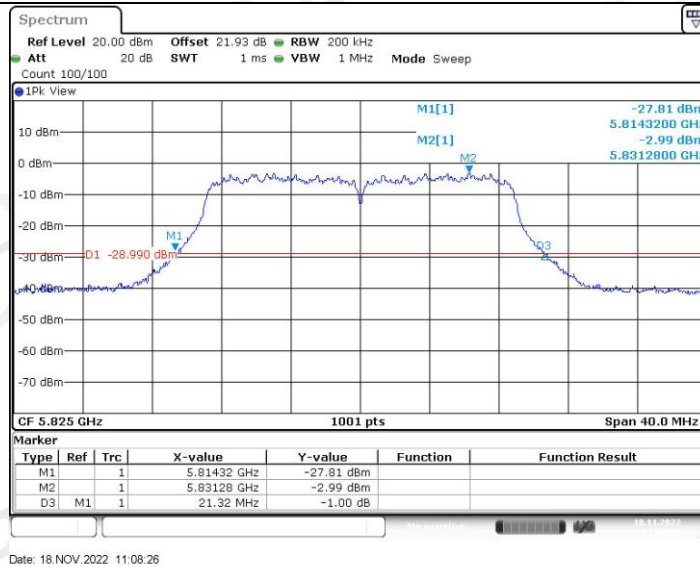
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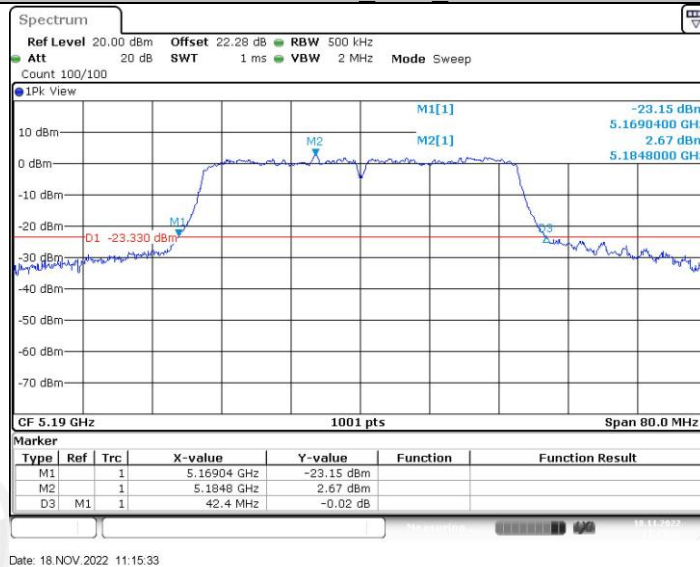
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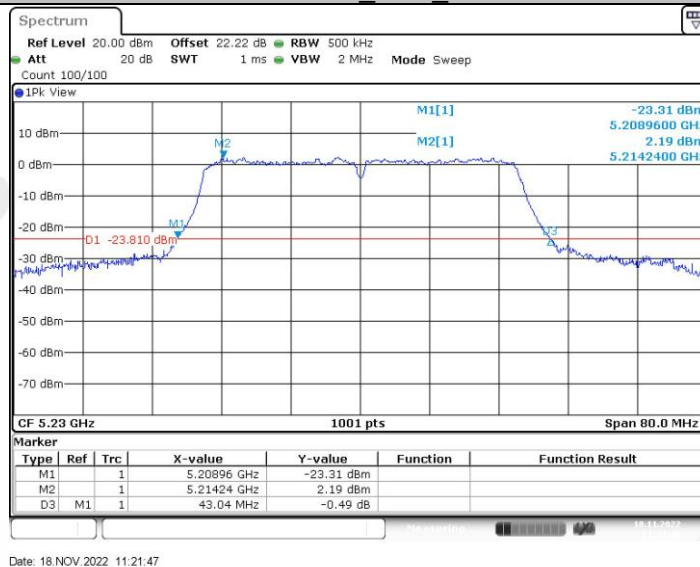
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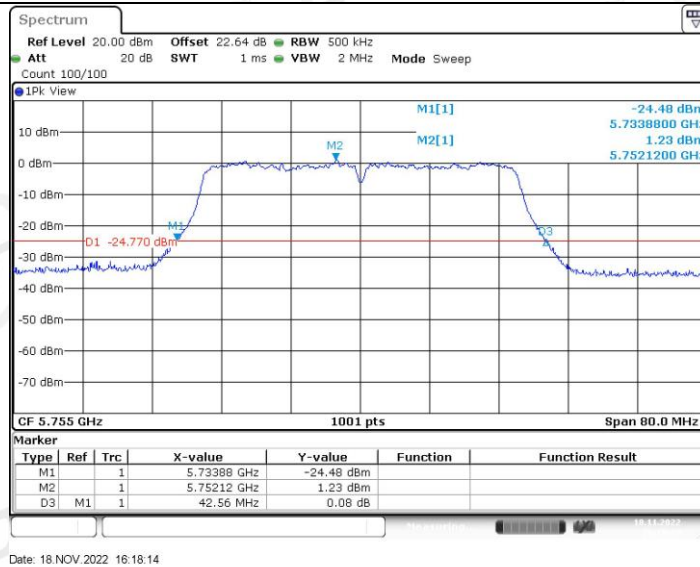
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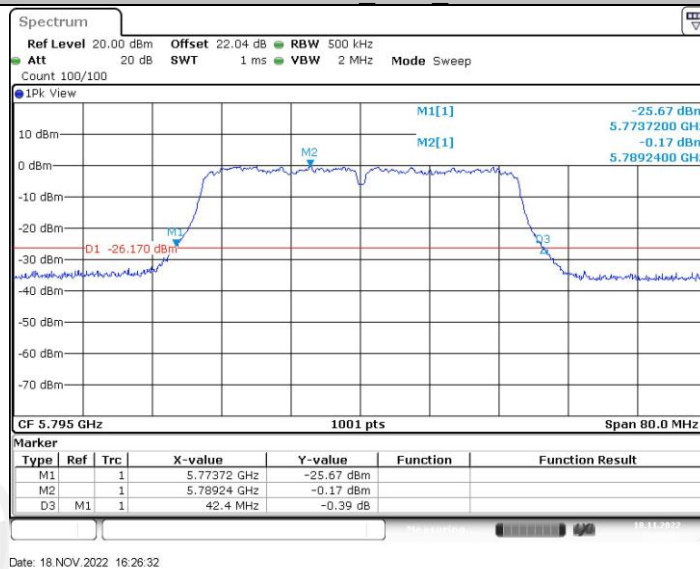
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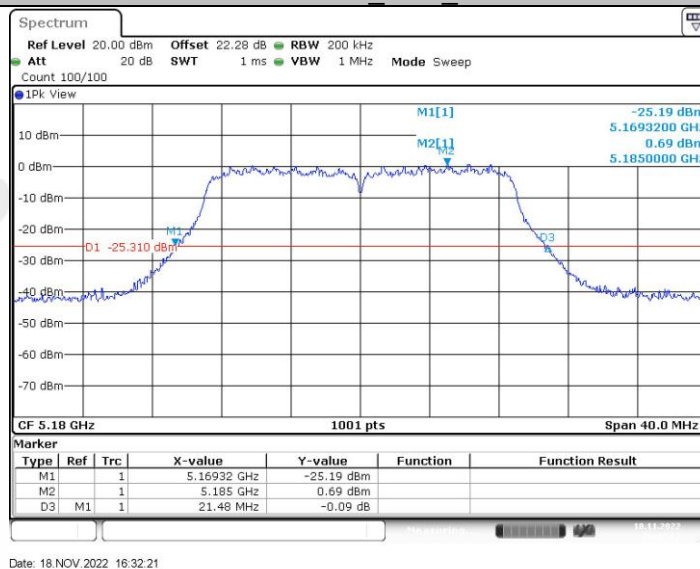
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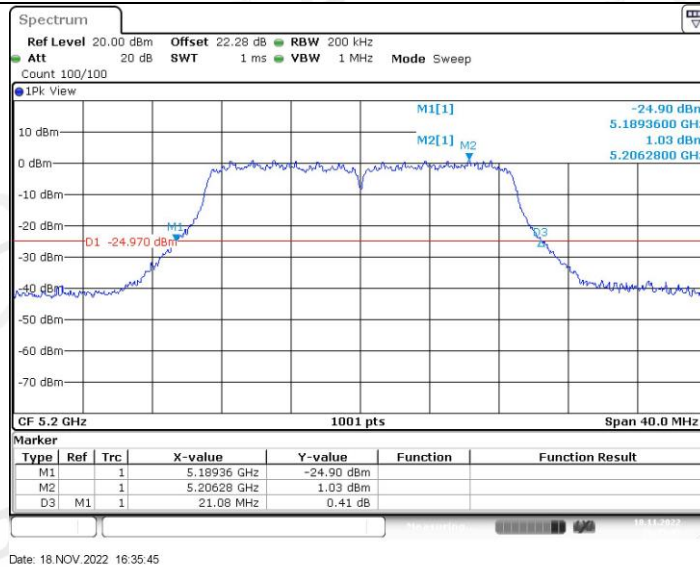
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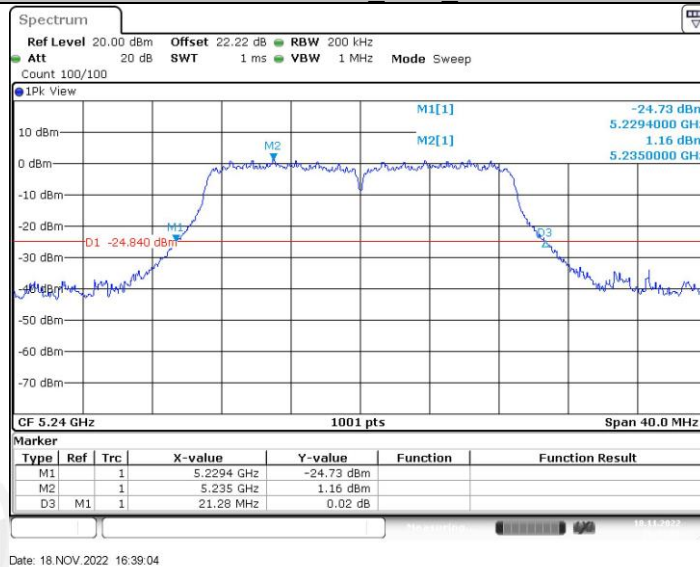
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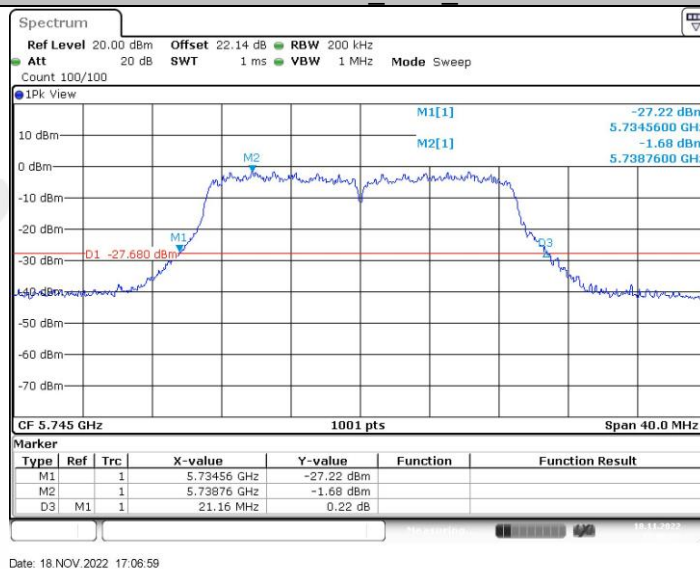
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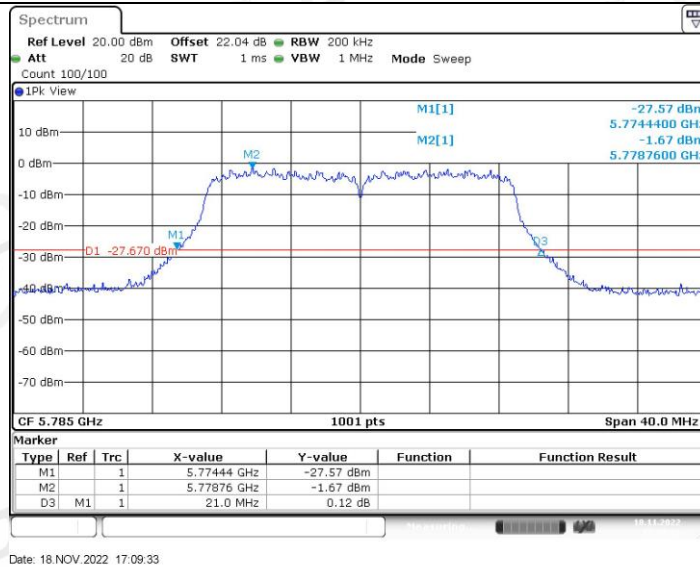
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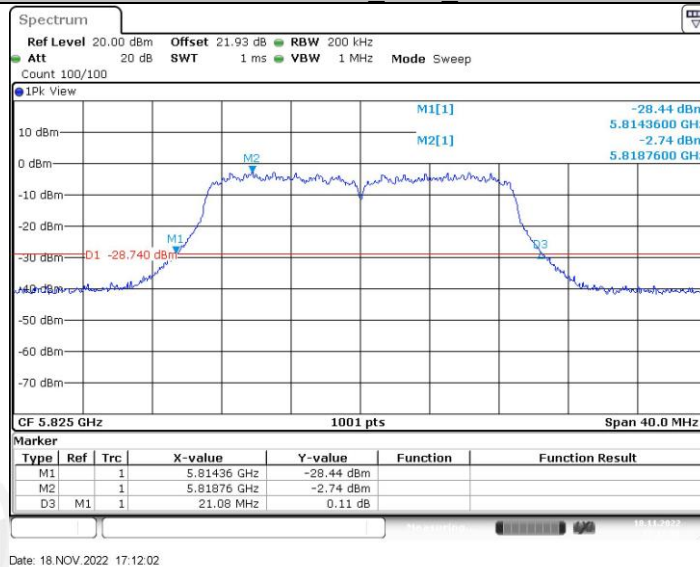
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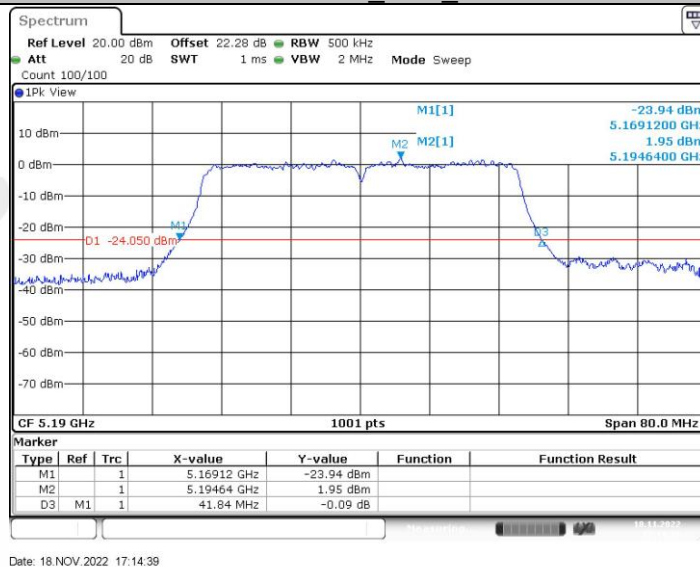
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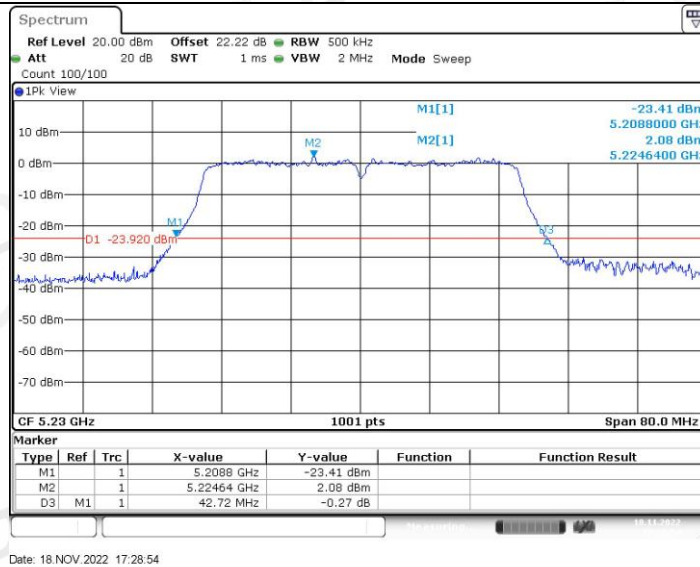
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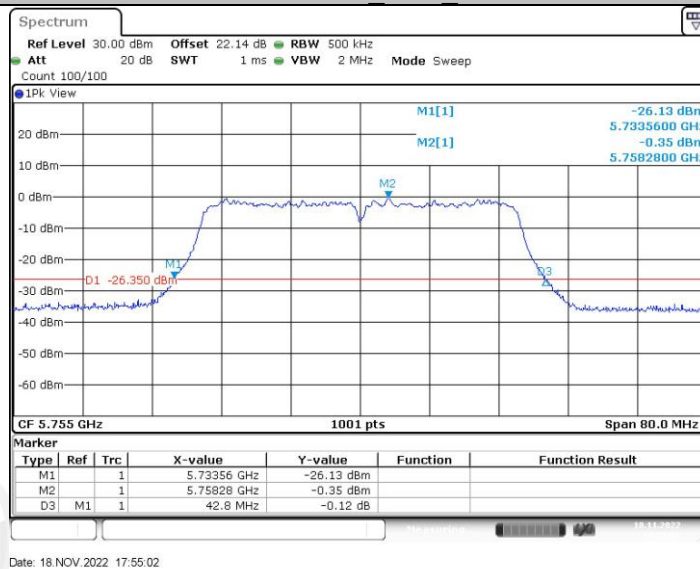
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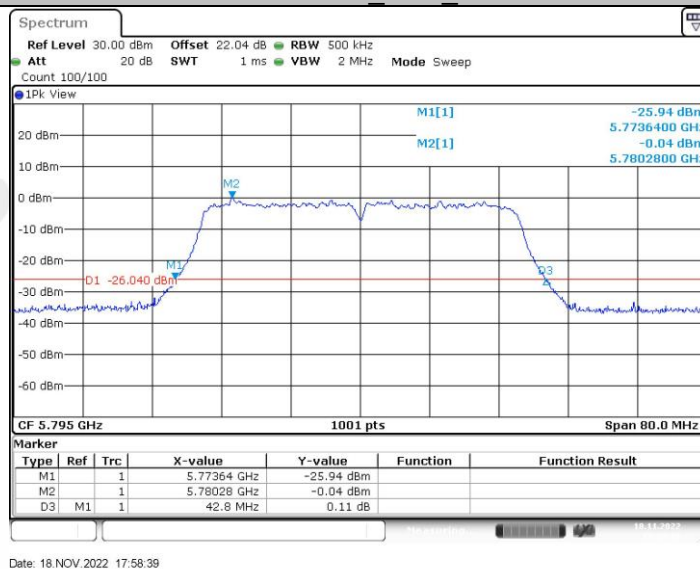
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11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210