

FCC CERTIFICATION TEST REPORT

FOR

Applicant	:	FIRST TECHNOLOGY GROUP, LLC
Address	:	401 Hawthorne Ln, Suite 110-185 c/o Tedesco JSN, Charlotte North Carolina, United State
Equipment under Test	:	Multimedia
Model No.	:	Kansas City 100
Trade Mark	:	Blaupunkt
FCC ID	:	2BCRZ-KANSAS100
Manufacturer	:	Huizhou Foryou General Electronics Co., Ltd.
Address	:	No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road, Dongjiang Hi tech Industry Park, 516005 Huizhou city, Guangdong Province, China (PROC)

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

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REPORT

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Test Report Declare

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Test Standard Used:

FCC Rules and Regulations Part 15 Subpart E.

Test procedure used: ANSI C63.10:2013,

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 (2016-04-08) ,

KDB 905462 D03 Client Without DFS New Rules v01r01 (2014-08-14) .

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-RE23082411-2E03		
Date of Receipt:	Aug. 31, 2023	Date of Test:	Aug. 31, 2023~ Sep. 27, 2023

Prepared By:**Jacky Huang/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	Sep. 28, 2023	

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 (b) FCC 15.209 FCC 15.205	Pass
Band Edge Compliance	FCC 15.407 (b) FCC 15.209 FCC 15.205	Pass
Antenna requirement	FCC 15.203	Pass
Power Line Conducted Emission	FCC Part 15: 15.207 ANSI C63.10:2013	N/A
Dynamic Frequency Selection	FCC 15.407 (h)	Pass

Note: N/A means not applicable.

2. General test information

2.1. Description of EUT

EUT Name	: Multimedia
Model Number	: Kansas City 100
EUT function description	: Please reference user manual of this device
Power Supply	: DC 12V
Radio Technology	: IEEE 802.11a/n/ac
Operation frequency	: IEEE 802.11a: 5180MHz-5240MHz, 5260MHz-5320MHz, 5745MHz-5825MHz IEEE 802.11n HT20: 5180MHz-5240MHz, 5260MHz-5320MHz, 5745MHz-5825MHz IEEE 802.11n HT40: 5190MHz-5230MHz, 5270MHz-5310MHz, 5755MHz-5755MHz IEEE 802.11ac VHT20: 5180MHz-5240MHz, 5260MHz-5320MHz, 5745MHz-5825MHz IEEE 802.11ac VHT40: 5190MHz-5230MHz, 5270MHz-5310MHz, 5755MHz-5755MHz IEEE 802.11ac VHT80: 5210MHz, 5290MHz, 5775MHz
Modulation	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT20, VHT40, VHT80: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Transmitter rate	: IEEE 802.11a: up to 54 Mbps IEEE 802.11n HT20: up to 72.2 Mbps IEEE 802.11n HT40: up to 150 Mbps IEEE 802.11ac VHT20: up to 86.7Mbps IEEE 802.11ac VHT40: up to 200 Mbps IEEE 802.11ac VHT80: up to 433.3 Mbps
Antenna	: External antenna, maximum PK gain: 3.47dBi
Sample Number	: S23082411-03 for conducted, S23082411-02 for radiated.

Note 1: EUT is the abbreviation of equipment under test.

Note 2: EUT does not support beamforming.

Note 3: EUT does not support simultaneous transmission of 2.4G WIFI and 5G WIFI.

Channel information					
IEEE 802.11a		IEEE 802.11n (HT40)		IEEE 802.11ac (VHT80)	
IEEE 802.11n (HT20)		IEEE 802.11ac (VHT40)			
IEEE 802.11ac (VHT20)					
UNII-1					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	/	/
44	5220	/	/	/	/
48	5240	/	/	/	/
UNII-2A					
52	5260	54	5270	58	5290
56	5280	62	5310		/
60	5300	/	/	/	/
64	5320	/	/	/	/
UNII-3					
144	5720	142	5710	138	5690
149	5745	151	5755	155	5775
153	5765	159	5795	/	/
157	5785	/	/	/	/
161	5805	/	/	/	/
165	5825	/	/	/	/

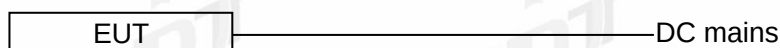
2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
USB Cable	/	/	EMIFIL
RCA Cable	/	/	EMIFIL
DC Cable	/	/	EMIFIL
Speaker out Cable	/	/	EMIFIL

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	FCC ID/IC
M6a Plus Mesh Wi-Fi Router	Mercku Technology (China), Inc.	M6a Plus	N/A	2APR4-M6P 23877-M6P

2.4. Block diagram of EUT configuration for test



Test software: Built-in software (engineer mode)

EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

The pathloss of external cable: 2 dB (According to the manufacturer's claims).

Tested mode, channel, and data rate information				
Mode	Setting Tx Power	data rate (Mbps) (see Note)	Channel	Frequency (MHz)
IEEE 802.11a	16	6	Low: CH36	5180
	16	6	Middle: CH40	5200
	16	6	High: CH48	5240
	16	6	Low: CH52	5260
	16	6	Middle: CH56	5280
	16	6	High: CH64	5320
	16	6	Low: CH149	5745
	16	6	Middle: CH157	5785
	16	6	High: CH165	5825
IEEE 802.11n HT20	16	MCS 0	Low: CH36	5180
	16	MCS 0	Middle: CH40	5200
	16	MCS 0	High: CH48	5240
	16	MCS 0	Low: CH52	5260
	16	MCS 0	Middle: CH56	5280
	16	MCS 0	High: CH64	5320
	16	MCS 0	Low: CH149	5745
	16	MCS 0	Middle: CH157	5785
	16	MCS 0	High: CH165	5825
IEEE 802.11n HT40	14	MCS 0	Low: CH38	5190
	14	MCS 0	High: CH46	5230
	14	MCS 0	Low: CH54	5270
	14	MCS 0	High: CH62	5310
	14	MCS 0	Low: CH151	5755
	14	MCS 0	High: CH159	5795
IEEE 802.11ac VHT20	16	MCS 0	Low: CH36	5180
	16	MCS 0	Middle: CH40	5200
	16	MCS 0	High: CH48	5240
	16	MCS 0	Low: CH52	5260
	16	MCS 0	Middle: CH56	5280
	16	MCS 0	High: CH64	5320
	16	MCS 0	Low: CH149	5745
	16	MCS 0	Middle: CH157	5785
	16	MCS 0	High: CH165	5825
IEEE 802.11ac VHT40	15	MCS 0	Low: CH38	5190
	15	MCS 0	High: CH46	5230
	15	MCS 0	Low: CH54	5270
	15	MCS 0	High: CH62	5310
	15	MCS 0	Low: CH151	5755
	15	MCS 0	High: CH159	5795
IEEE 802.11ac VHT80	16	MCS 0	CH42	5210
	16	MCS 0	CH58	5290
	16	MCS 0	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:	+15 °C to +35 °C
Humidity range:	20% 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 (9kHz -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:

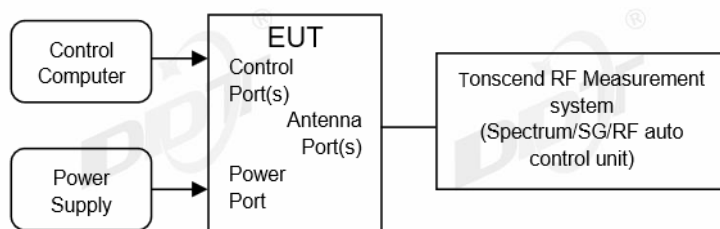
This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☑RF Connected Test (Tonscend RF Measurement System 3#)					
Signal & Spectrum analyzer	R&S	FSV40	101407	Jun. 12, 2023	1 Year
Wideband Radio Communication tester	R&S	CMW500	117491	Apr. 27, 2023	1 Year
Vector Signal Generator	Agilent	N5182A	MY48180912	Apr. 23, 2023	1 Year
RF Control Unit	Tonscend	JS0806-2	20C8060230	Apr. 27, 2023	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150L	ZX170110-A	May 15, 2023	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.3.2.22	N/A	N/A
☑Radiation 3#chamber					
EMI Test Receiver	R&S	ESU26	100472	Apr. 23, 2023	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	Apr. 23, 2023	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Sep. 29, 2022	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	Jul. 12, 2023	2 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA9120 D	02468	Sep. 29, 2022	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	Apr. 26, 2023	1 Year
Pre-amplifier	COM-POWER	PAM-118A	18040084	Jul. 15, 2023	1 Year
Pre-amplifier	COM-POWER	PAM-840A	461369	Apr. 27, 2023	1 Year
RE Cable	N/A	W23.02 CP1-X2 + W23.09 AP1-X8+ JCT26S-NJ-NJ-1.5M	4.5M+8M+1.5M	Apr. 21, 2023	1 Year
RF Cable	Yuhu Technology	JCTB810-NJ-N J-9M+ ZT26S-SMAJ-S MAJ-1M	21123964	Apr. 23, 2023	1 Year
Micro-Tronics filters	REBES	BRM50702	G555	N/A	N/A
Micro-Tronics filters	REBES	BRM50716	G392	N/A	N/A
High Pass filter	XB	XBLBQ-GTA67	210820-2-3	N/A	N/A
Test software	Tonscend	JS32-RE	V 5.0.0.1	N/A	N/A

4. 26dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

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

4.3. Test procedure

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

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	approximately 1% of the emission bandwidth.
VBW	> RBW
Trace	Max hold
Sweep	Auto couple

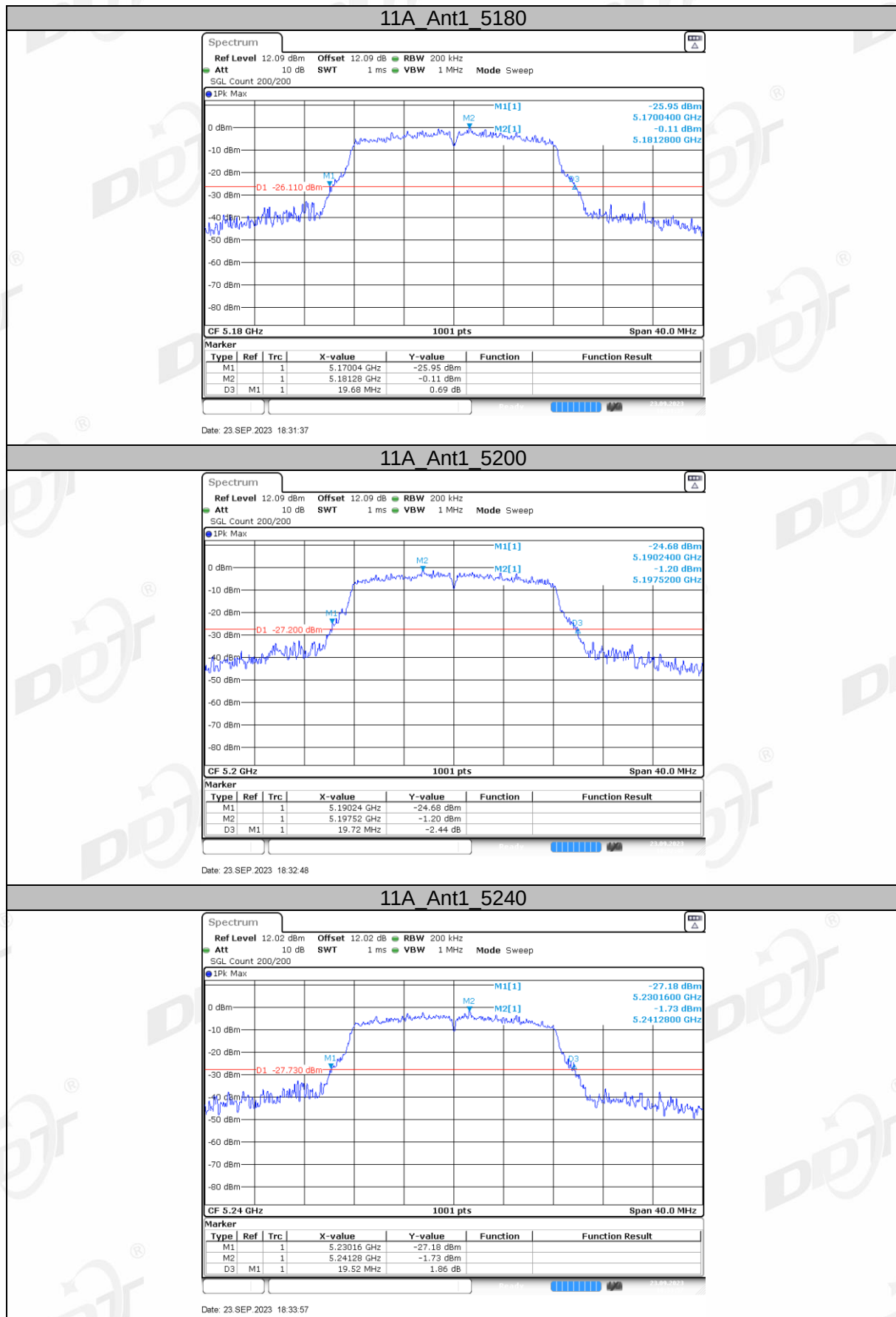
Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

4.4. Test result

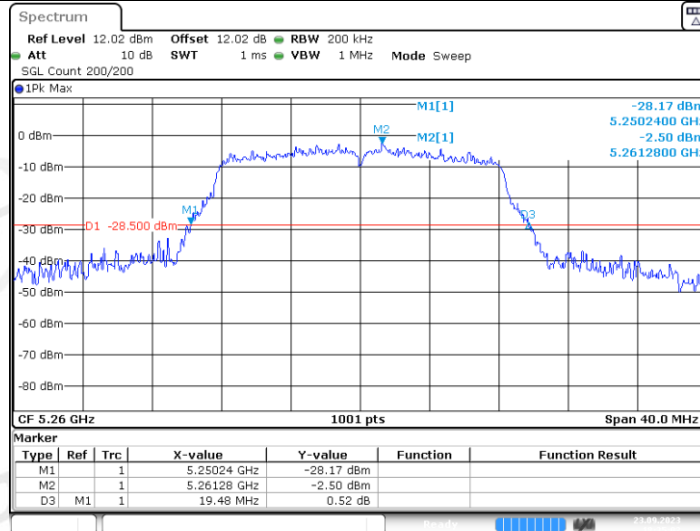
Test Mode	Antenna	Frequency [MHz]	26db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	19.68	5170.04	5189.72	---	---
		5200	19.72	5190.24	5209.96	---	---
		5240	19.52	5230.16	5249.68	---	---
		5260	19.48	5250.24	5269.72	---	---
		5280	19.52	5270.28	5289.80	---	---
		5320	19.76	5310.12	5329.88	---	---
		5745	19.56	5735.20	5754.76	---	---
		5785	19.48	5775.28	5794.76	---	---
		5825	19.20	5815.32	5834.52	---	---
11N20SISO	Ant1	5180	20.12	5169.96	5190.08	---	---
		5200	19.84	5190.08	5209.92	---	---
		5240	19.96	5229.92	5249.88	---	---
		5260	20.08	5249.92	5270.00	---	---
		5280	19.88	5270.04	5289.92	---	---
		5320	19.80	5310.16	5329.96	---	---
		5745	19.80	5735.08	5754.88	---	---
		5785	19.76	5775.08	5794.84	---	---
		5825	19.92	5815.04	5834.96	---	---
11N40SISO	Ant1	5190	40.48	5169.68	5210.16	---	---
		5230	40.64	5209.52	5250.16	---	---
		5270	40.40	5249.68	5290.08	---	---
		5310	40.56	5289.60	5330.16	---	---

		5755	41.04	5734.52	5775.56	---	---
		5795	40.32	5774.68	5815.00	---	---
11AC20SISO	Ant1	5180	19.92	5170.00	5189.92	---	---
		5200	20.20	5189.92	5210.12	---	---
		5240	19.84	5230.08	5249.92	---	---
		5260	20.36	5249.92	5270.28	---	---
		5280	19.84	5270.04	5289.88	---	---
		5320	20.00	5310.00	5330.00	---	---
		5745	19.64	5735.24	5754.88	---	---
		5785	19.84	5775.12	5794.96	---	---
		5825	19.84	5815.00	5834.84	---	---
11AC40SISO	Ant1	5190	40.64	5169.84	5210.48	---	---
		5230	40.32	5209.84	5250.16	---	---
		5270	40.16	5249.76	5289.92	---	---
		5310	40.40	5289.60	5330.00	---	---
		5755	40.72	5734.44	5775.16	---	---
		5795	40.16	5774.68	5814.84	---	---
11AC80SISO	Ant1	5210	80.96	5169.20	5250.16	---	---
		5290	80.80	5249.36	5330.16	---	---
		5775	80.80	5734.36	5815.16	---	---

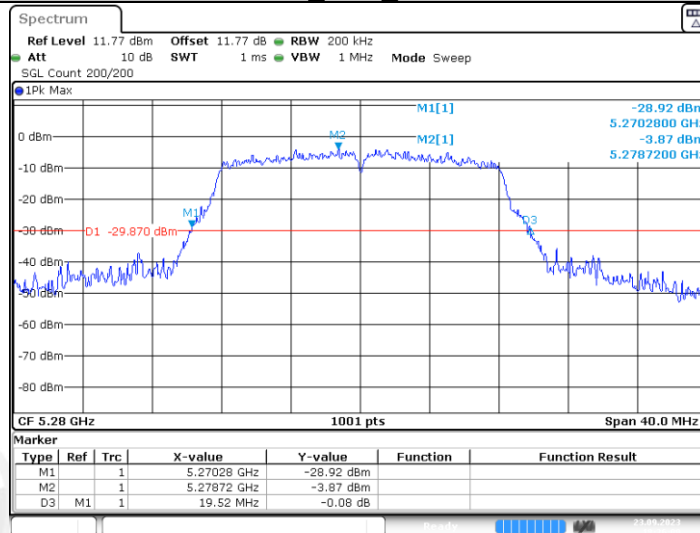
4.5. Test graphs



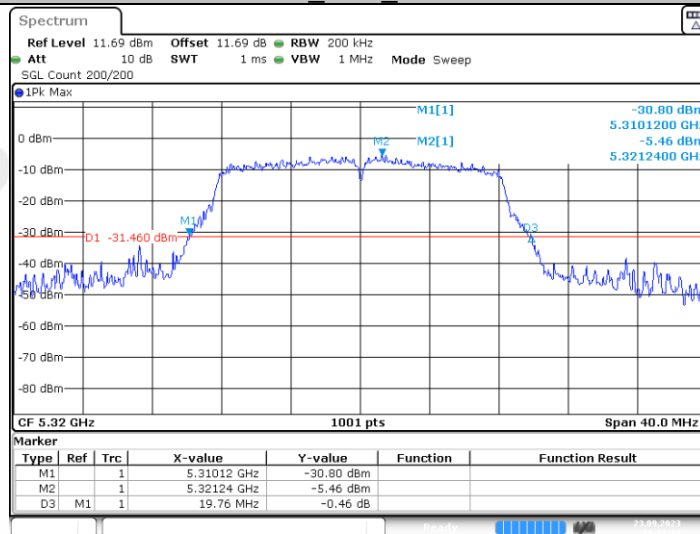
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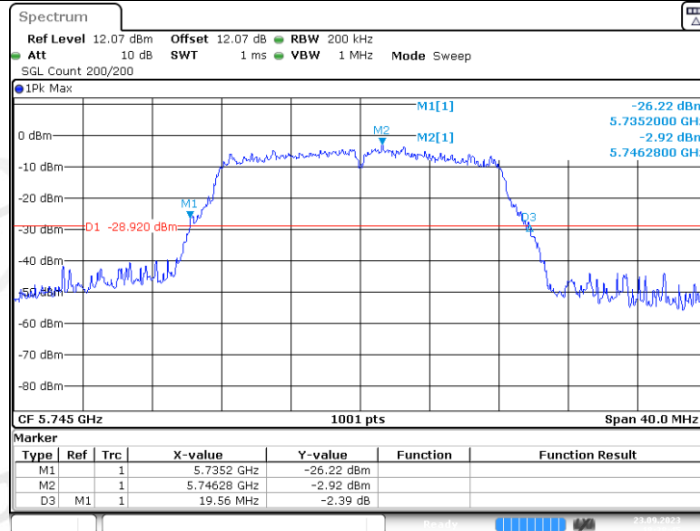
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11A_Ant1_5320

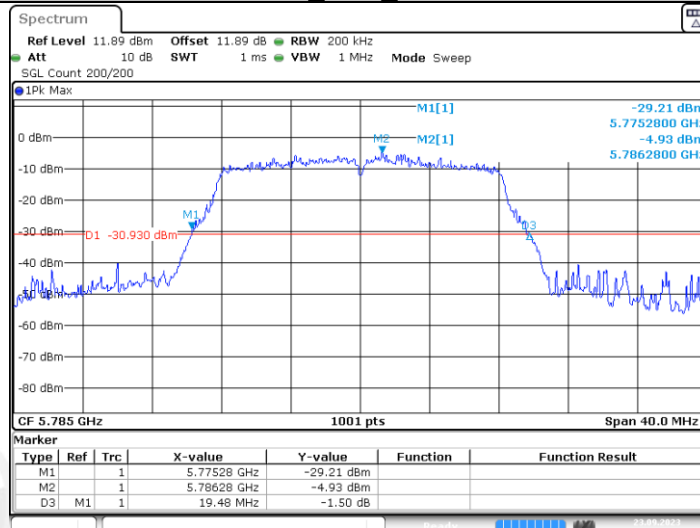


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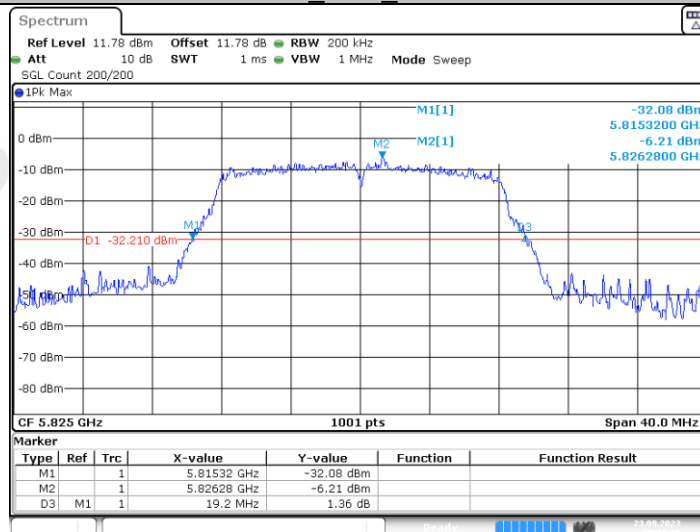
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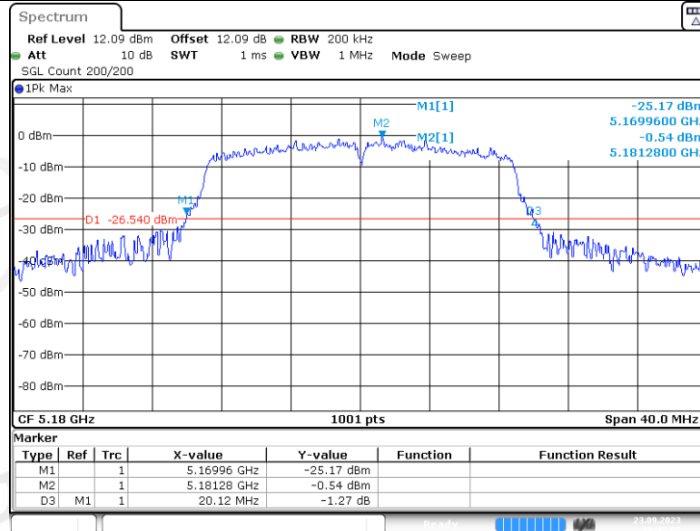
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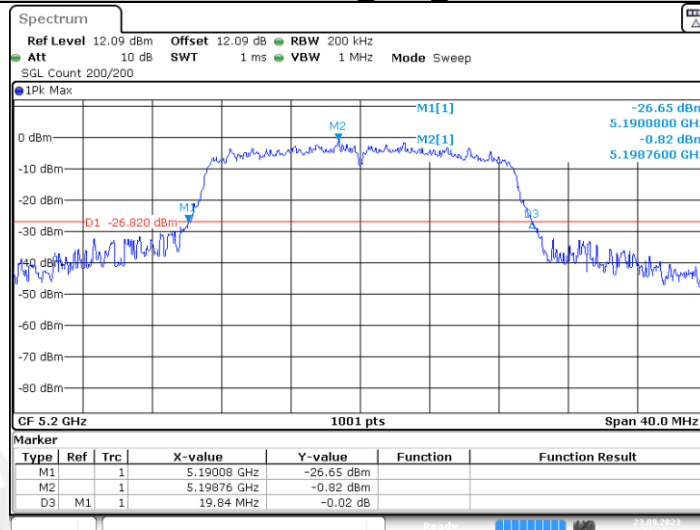
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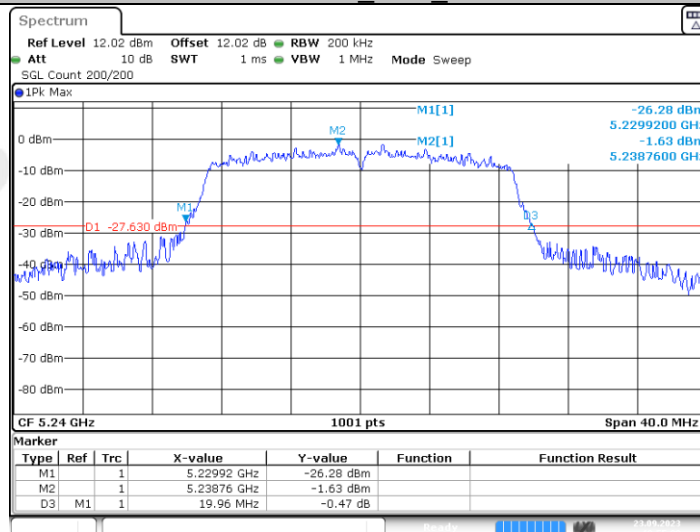
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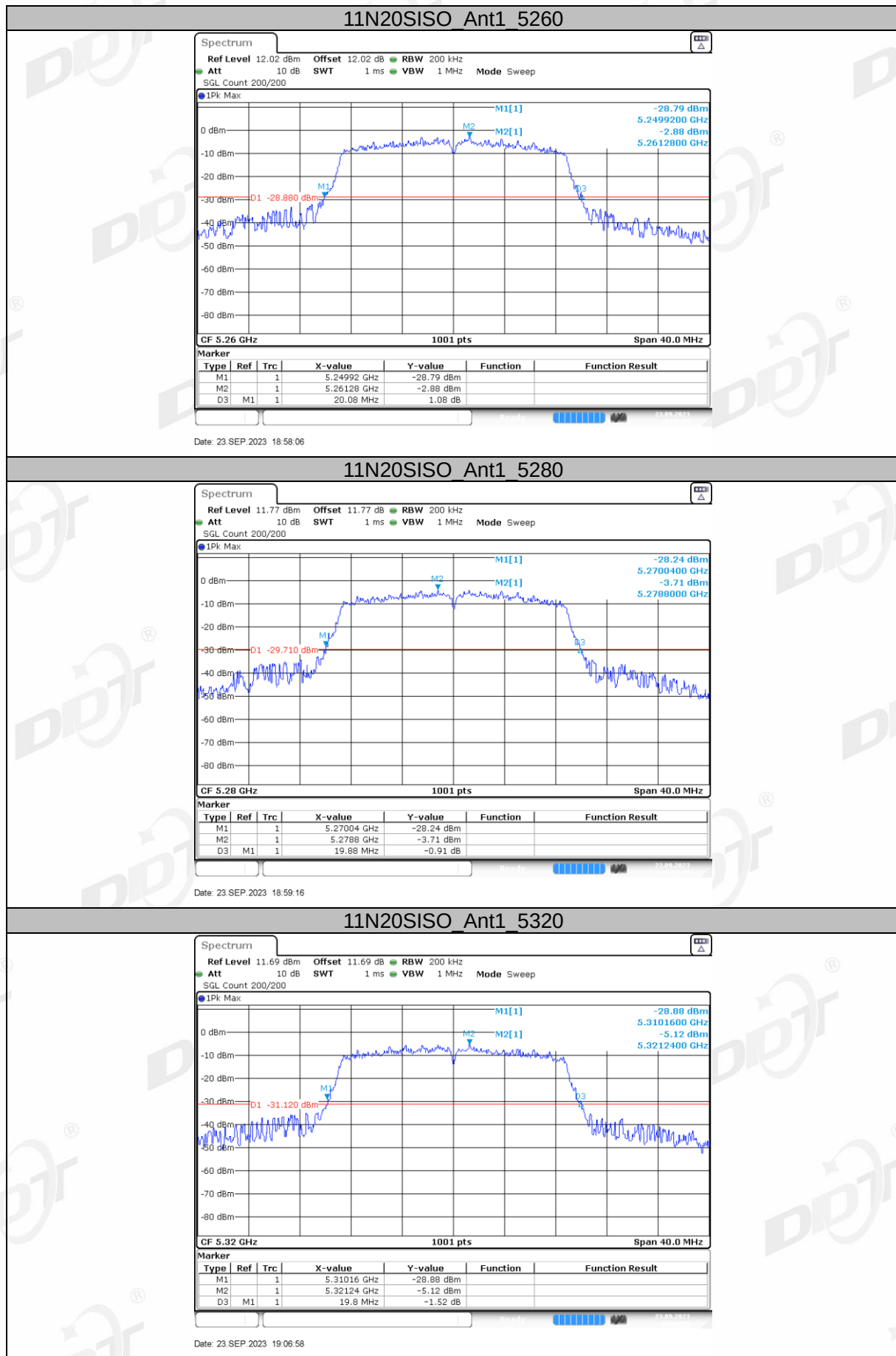


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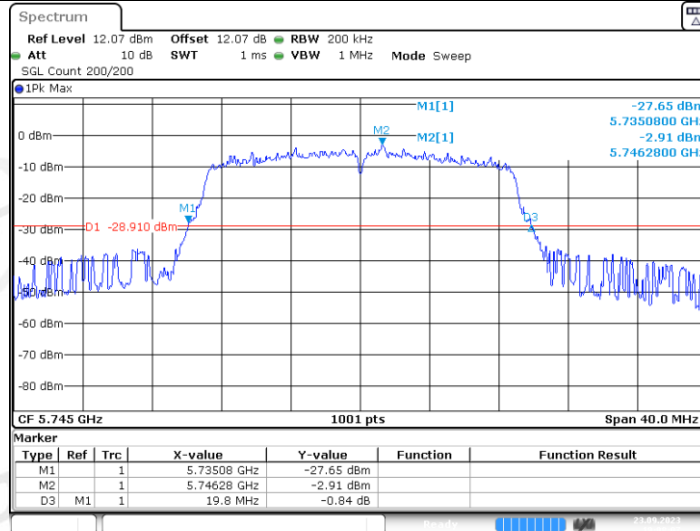
11N20SISO_Ant1_5240



Date: 23 SEP.2023 18:55:00

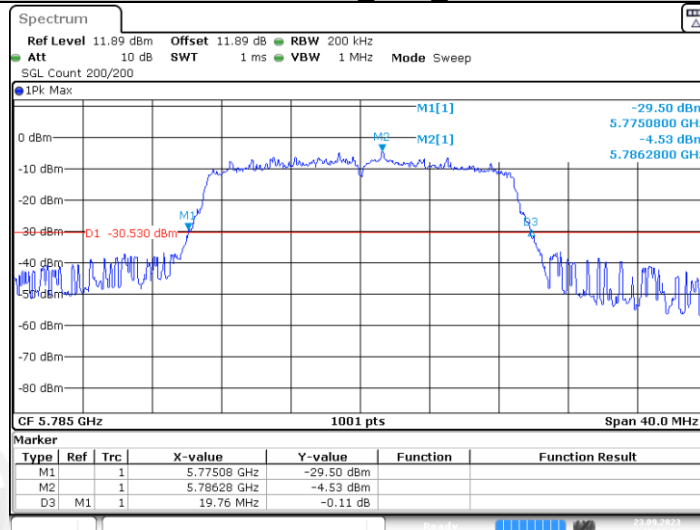


11N20SISO_Ant1_5745



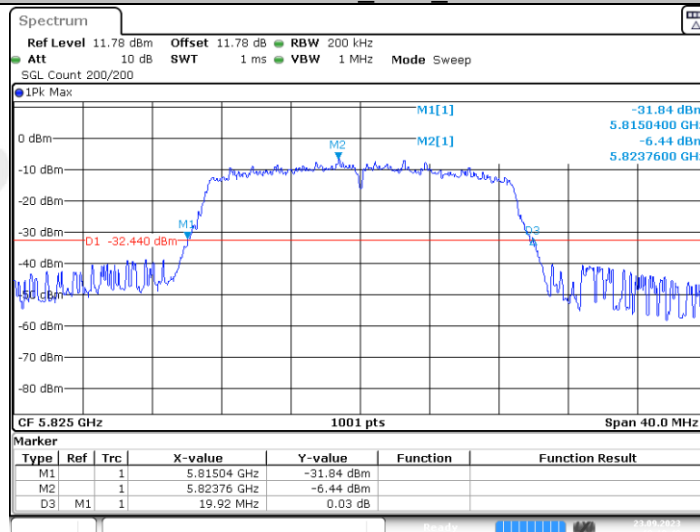
Date: 23 SEP.2023 19:08:06

11N20SISO_Ant1_5785



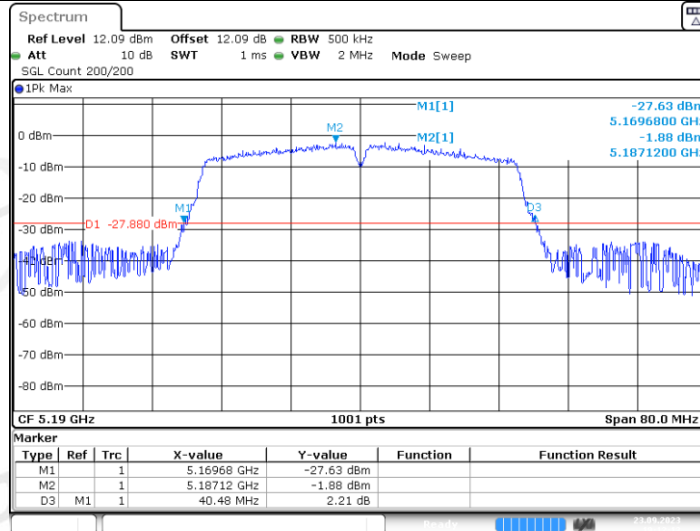
Date: 23 SEP.2023 19:09:21

11N20SISO_Ant1_5825



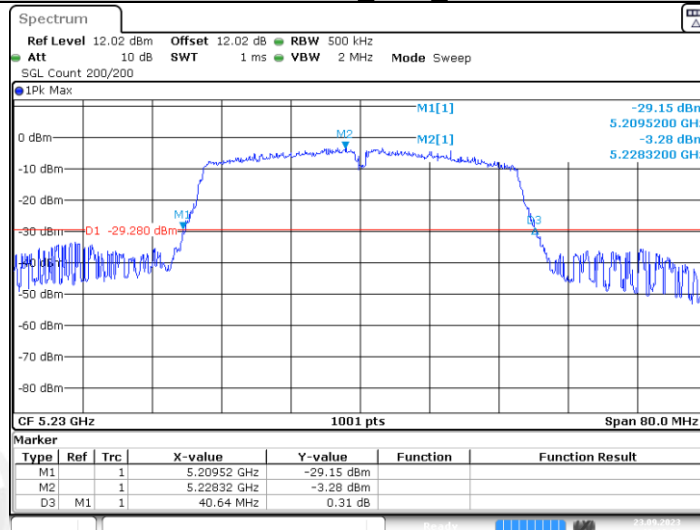
Date: 23 SEP.2023 19:10:40

11N40SISO_Ant1_5190



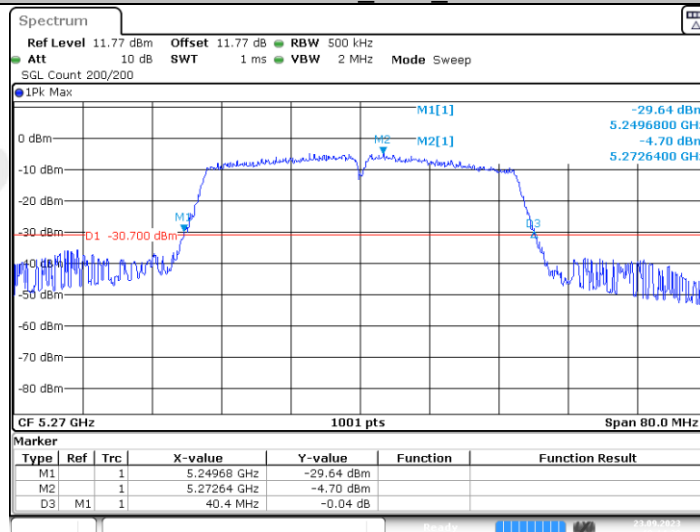
Date: 23.SEP.2023 19:12:13

11N40SISO_Ant1_5230



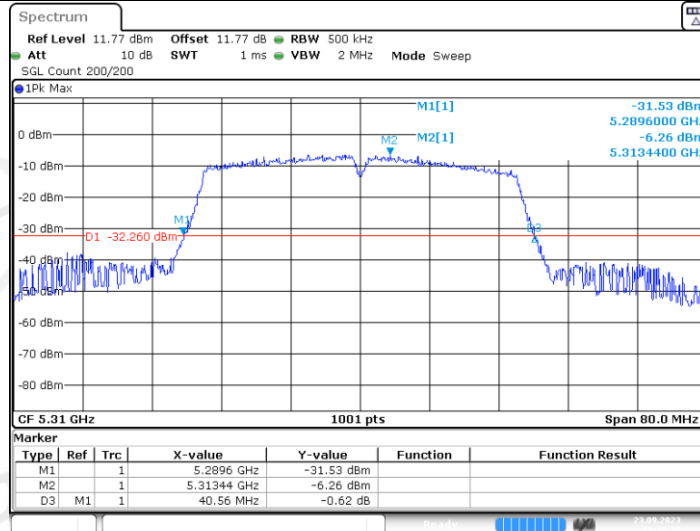
Date: 23.SEP.2023 19:13:20

11N40SISO_Ant1_5270



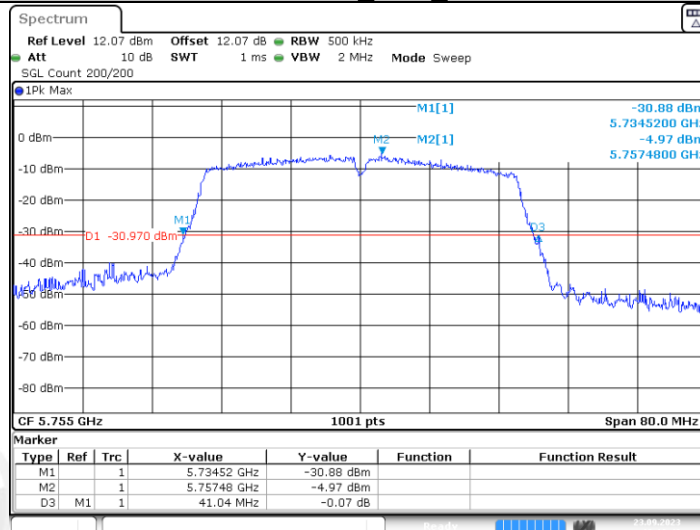
Date: 23.SEP.2023 19:14:31

11N40SISO_Ant1_5310



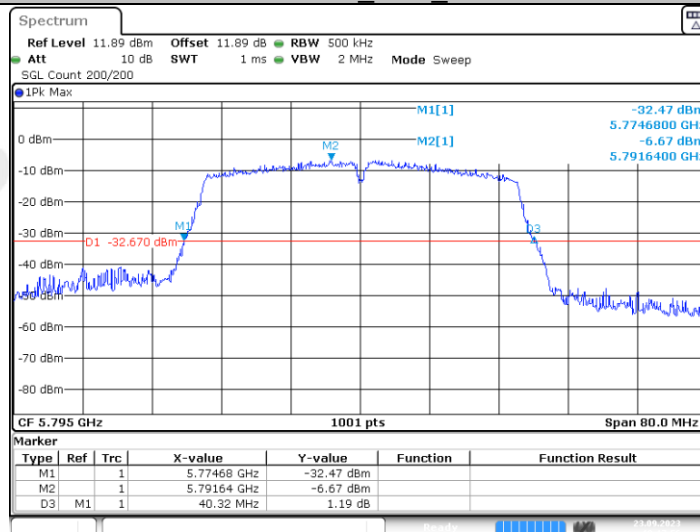
Date: 23 SEP.2023 19:15:35

11N40SISO_Ant1_5755



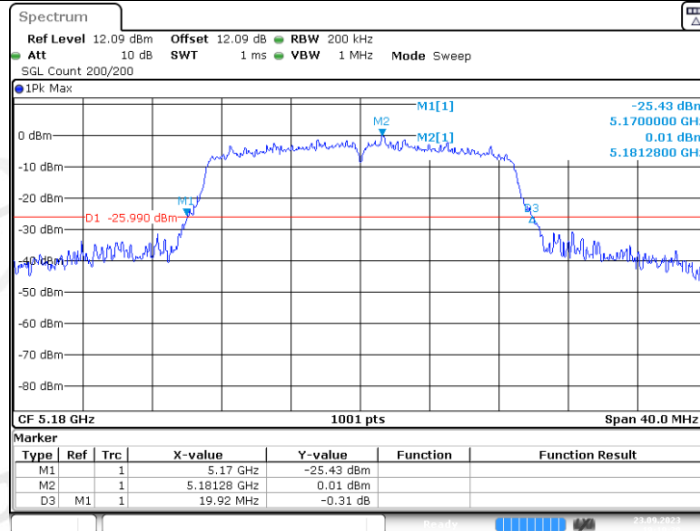
Date: 23 SEP.2023 19:16:42

11N40SISO_Ant1_5795



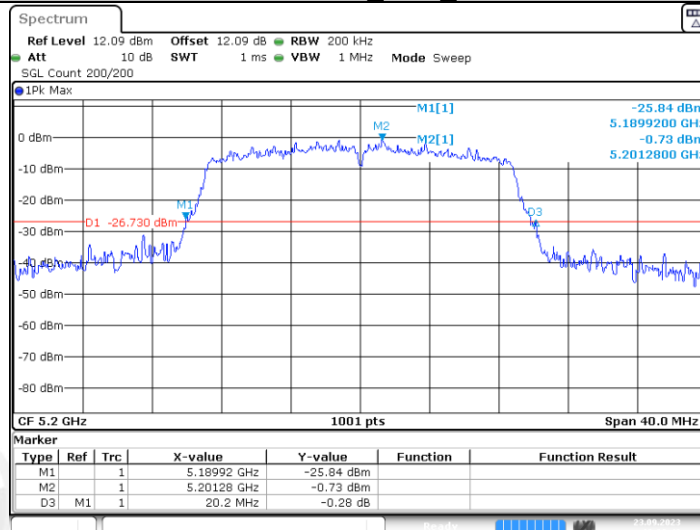
Date: 23 SEP.2023 19:17:56

11AC20SISO_Ant1_5180



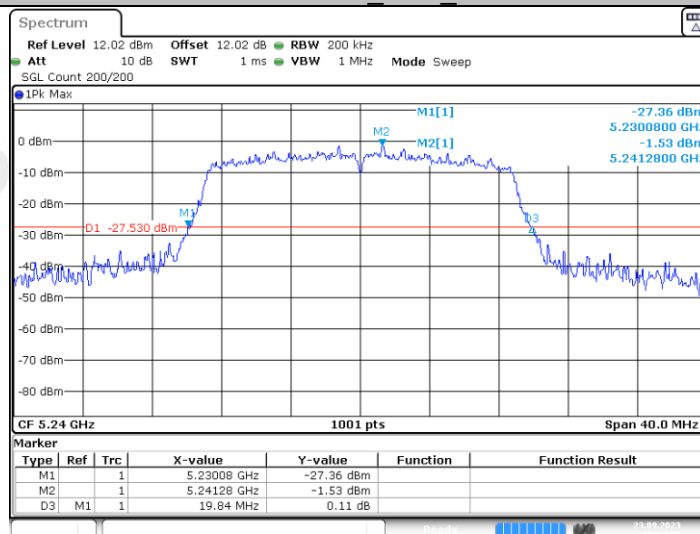
Date: 23 SEP.2023 19:19:39

11AC20SISO_Ant1_5200



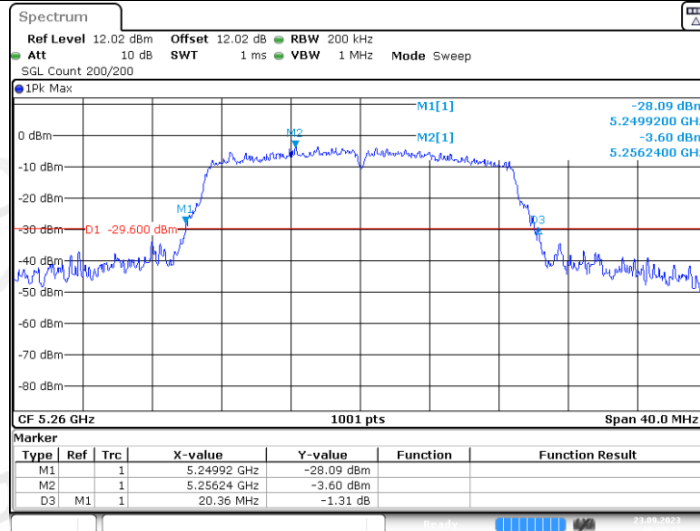
Date: 23 SEP.2023 19:20:48

11AC20SISO_Ant1_5240



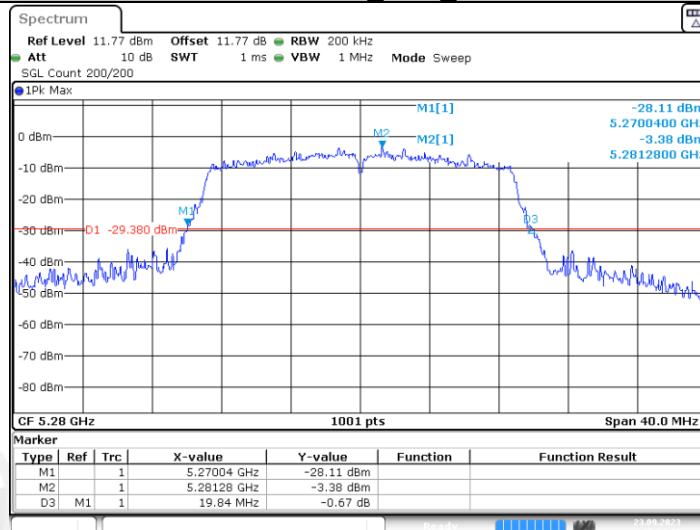
Date: 23 SEP.2023 19:22:05

11AC20SISO_Ant1_5260



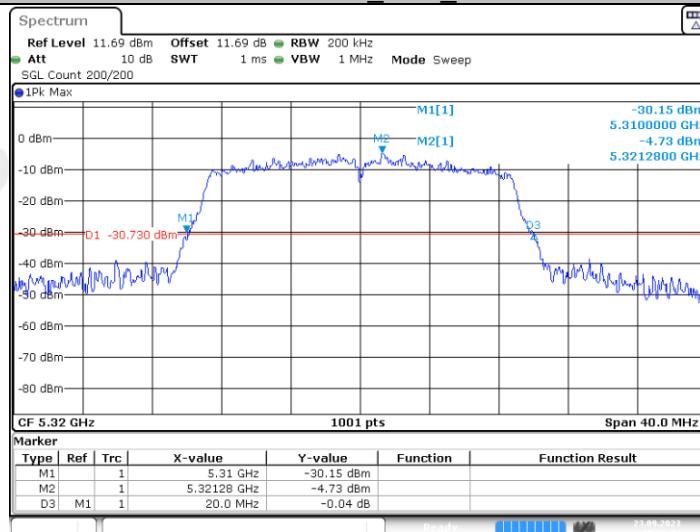
Date: 23 SEP.2023 19:23:13

11AC20SISO_Ant1_5280



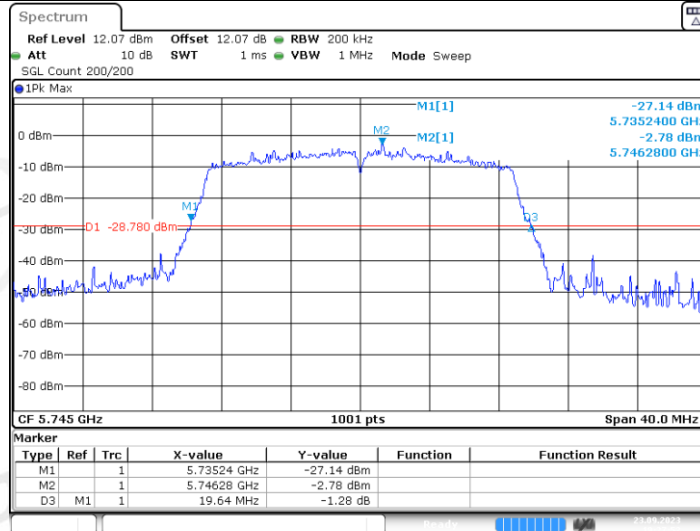
Date: 23 SEP.2023 19:24:18

11AC20SISO_Ant1_5320



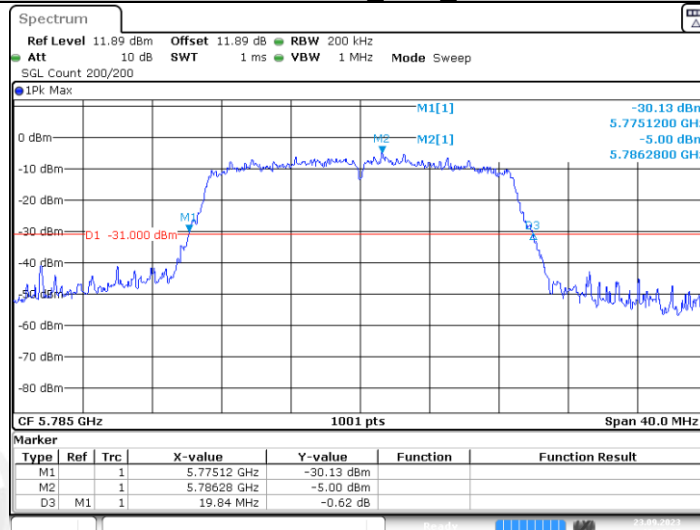
Date: 23 SEP.2023 19:25:34

11AC20SISO_Ant1_5745



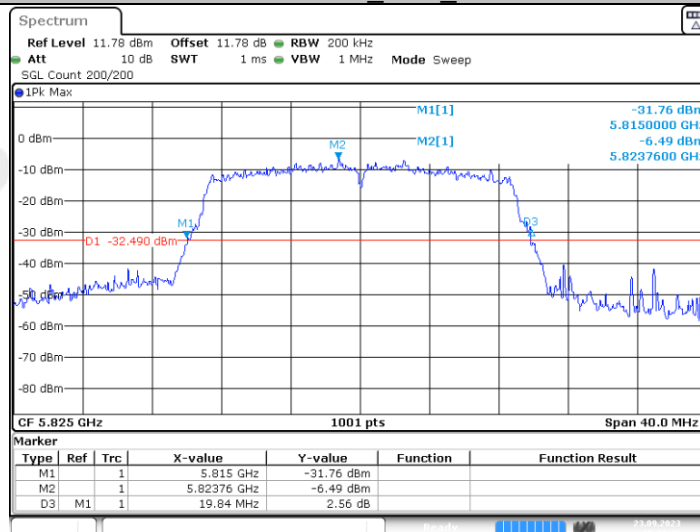
Date: 23 SEP.2023 19:27:52

11AC20SISO_Ant1_5785



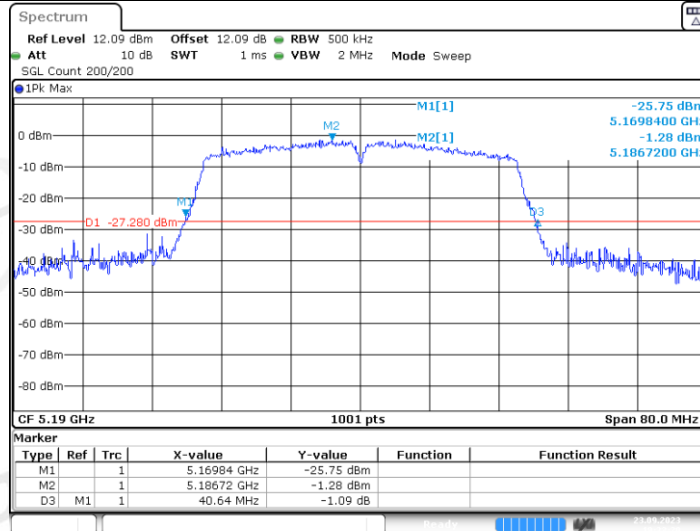
Date: 23 SEP.2023 19:30:15

11AC20SISO_Ant1_5825



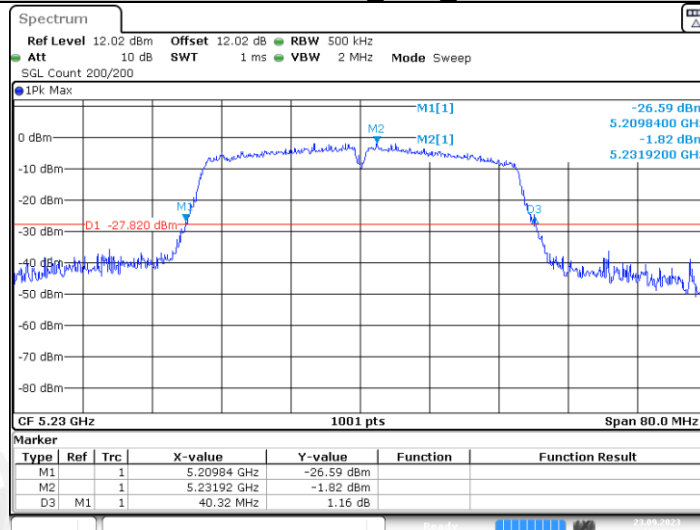
Date: 23 SEP.2023 19:31:47

11AC40SISO_Ant1_5190



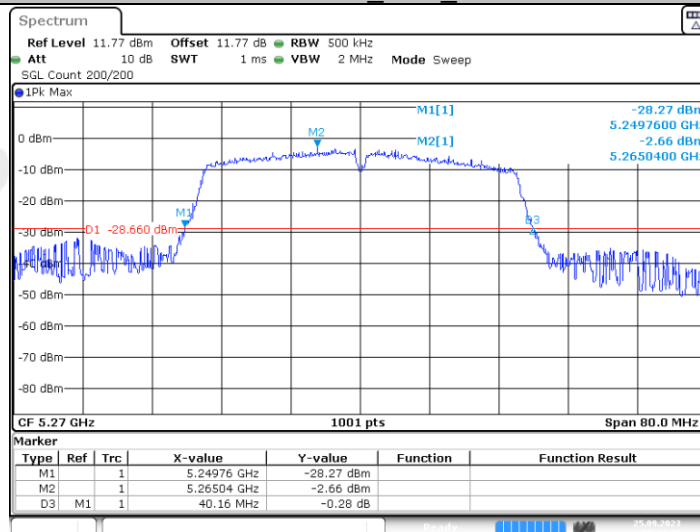
Date: 23 SEP.2023 19:33:20

11AC40SISO_Ant1_5230



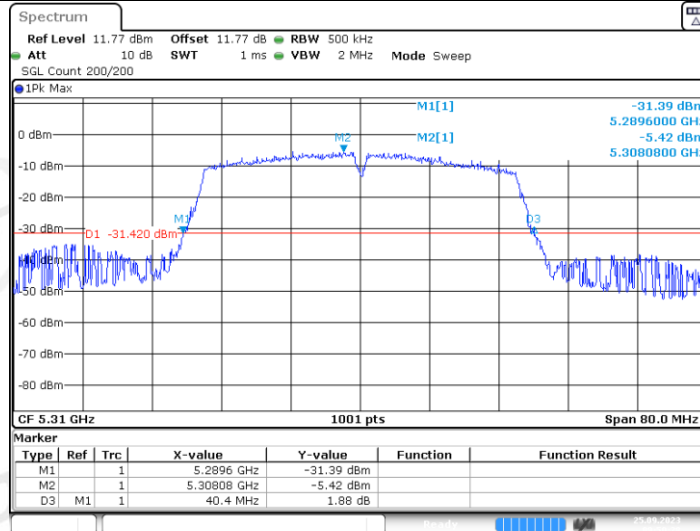
Date: 23 SEP.2023 19:37:32

11AC40SISO_Ant1_5270



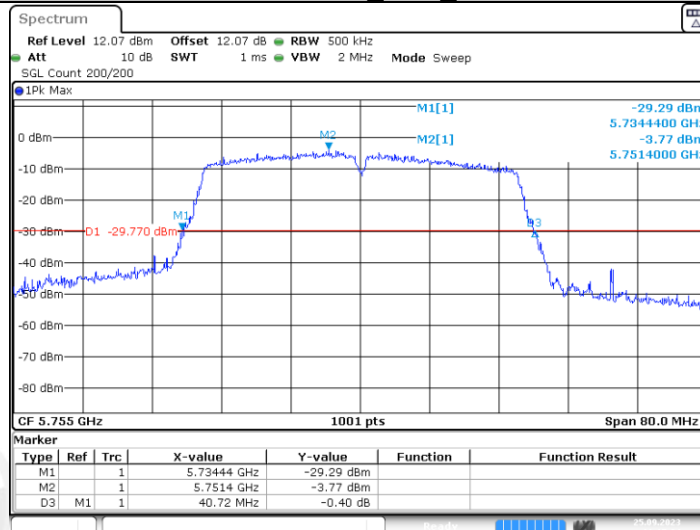
Date: 25 SEP.2023 09:47:25

11AC40SISO_Ant1_5310



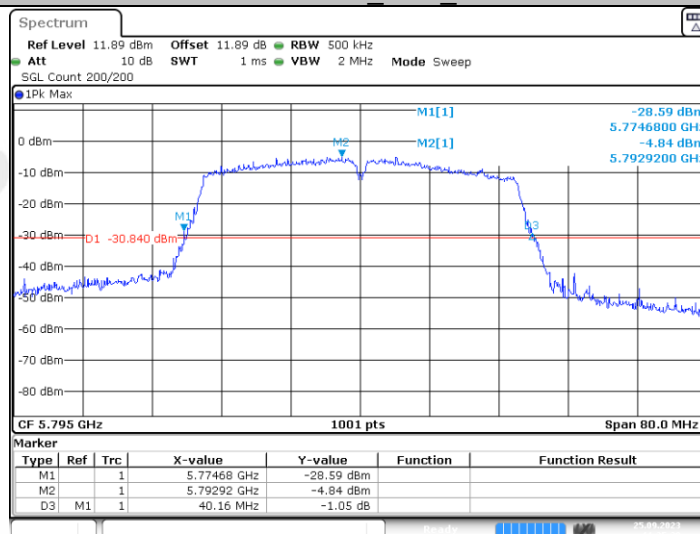
Date: 25 SEP.2023 09:50:28

11AC40SISO_Ant1_5755



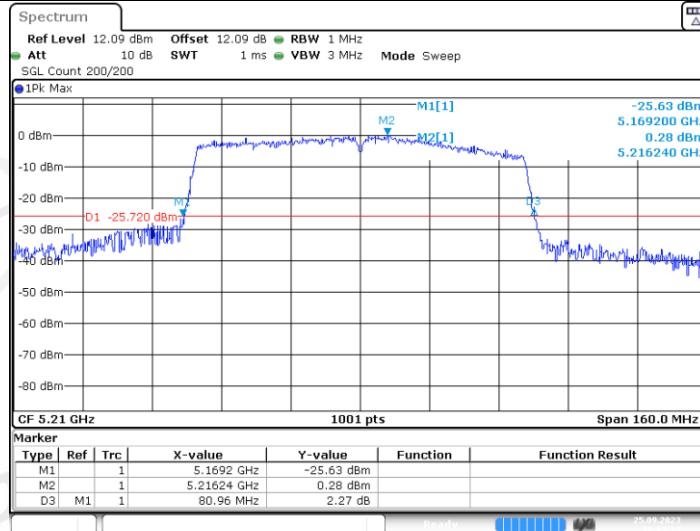
Date: 25 SEP.2023 11:17:24

11AC40SISO_Ant1_5795



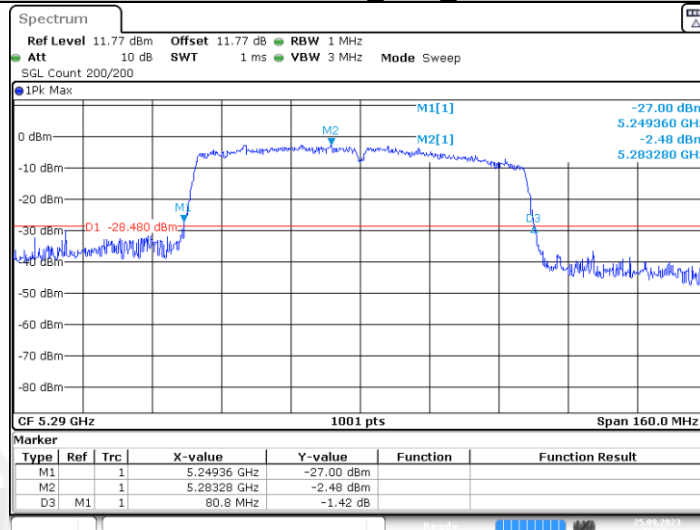
Date: 25 SEP.2023 11:25:28

11AC80SISO_Ant1_5210



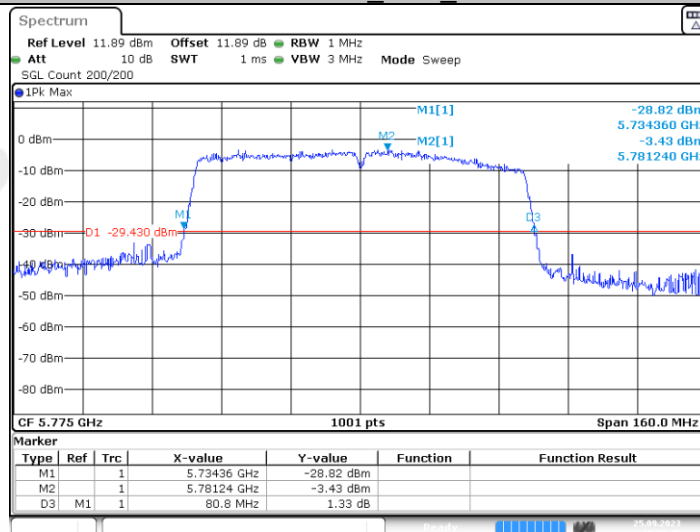
Date: 25 SEP.2023 10:03:34

11AC80SISO_Ant1_5290



Date: 25 SEP.2023 10:13:13

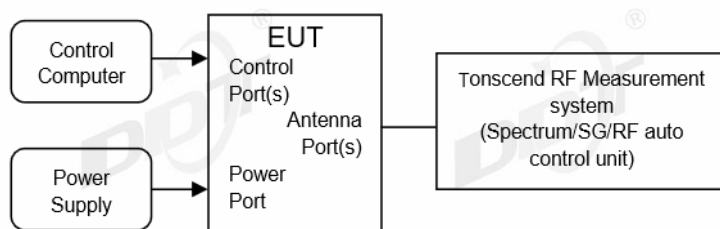
11AC80SISO_Ant1_5775



Date: 25 SEP.2023 10:22:45

5. 6dB Bandwidth

5.1. Block diagram of test setup



5.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
6 dB Bandwidth	Minimum 500 kHz	5725 - 5850

5.3. Test procedure

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

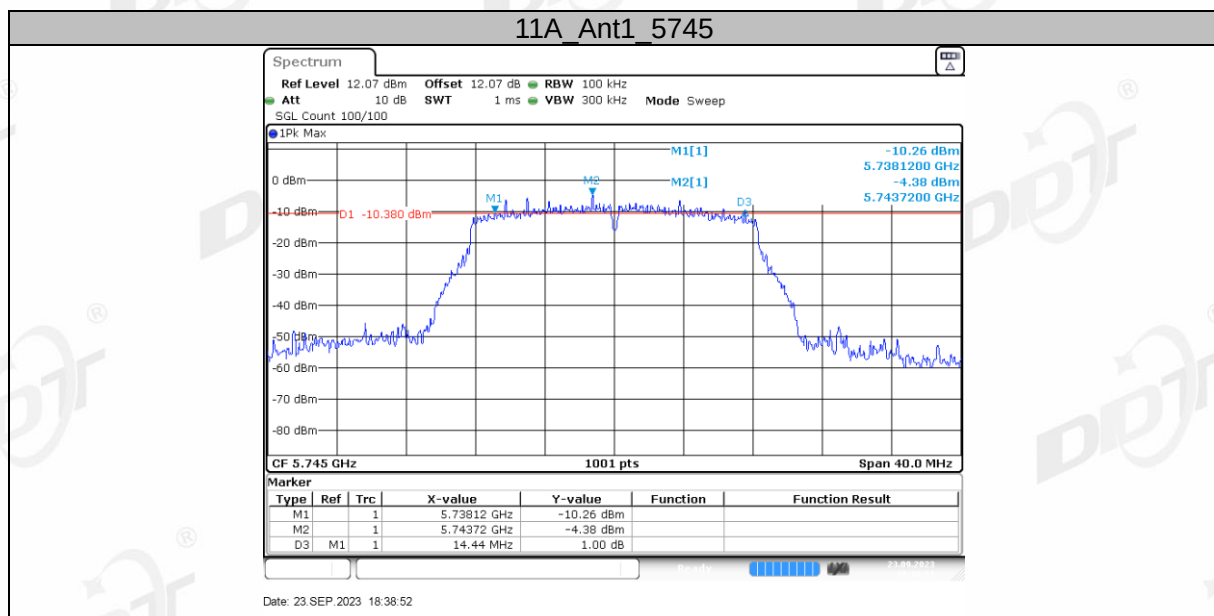
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6 dB Bandwidth: VBW=300 kHz For 26 dB Bandwidth: >3 RBW
Trace	Max hold
Sweep	Auto couple

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.

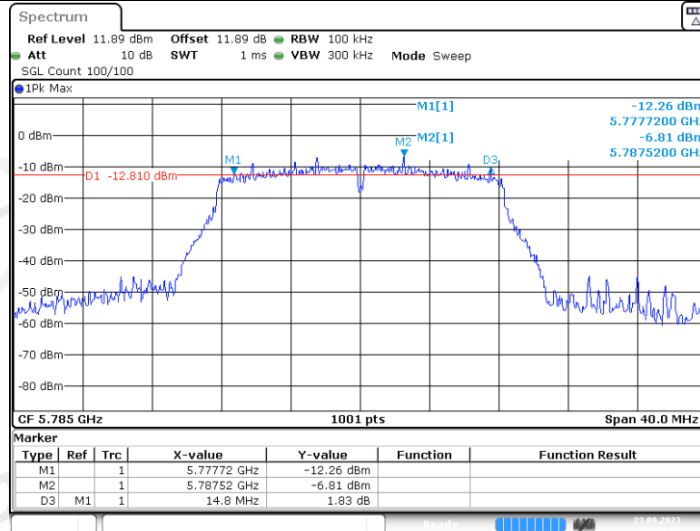
5.4. Test result

Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	14.44	5738.12	5752.56	0.5	PASS
		5785	14.80	5777.72	5792.52	0.5	PASS
		5825	14.44	5818.12	5832.56	0.5	PASS
11N20SISO	Ant1	5745	12.72	5739.76	5752.48	0.5	PASS
		5785	17.56	5776.24	5793.80	0.5	PASS
		5825	16.32	5816.24	5832.56	0.5	PASS
11N40SISO	Ant1	5755	32.56	5737.48	5770.04	0.5	PASS
		5795	32.64	5779.96	5812.60	0.5	PASS
11AC20SISO	Ant1	5745	13.84	5738.44	5752.28	0.5	PASS
		5785	13.84	5778.68	5792.52	0.5	PASS
		5825	15.08	5817.44	5832.52	0.5	PASS
11AC40SISO	Ant1	5755	34.64	5737.88	5772.52	0.5	PASS
		5795	32.64	5778.68	5811.32	0.5	PASS
11AC80SISO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS

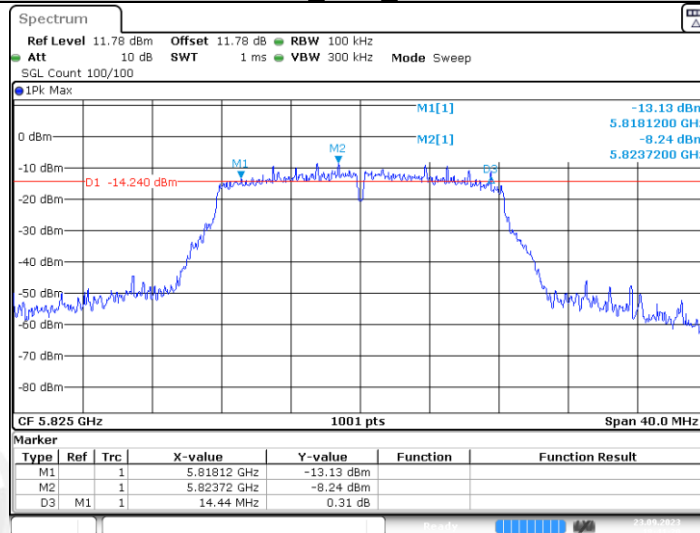
5.5. Test graphs



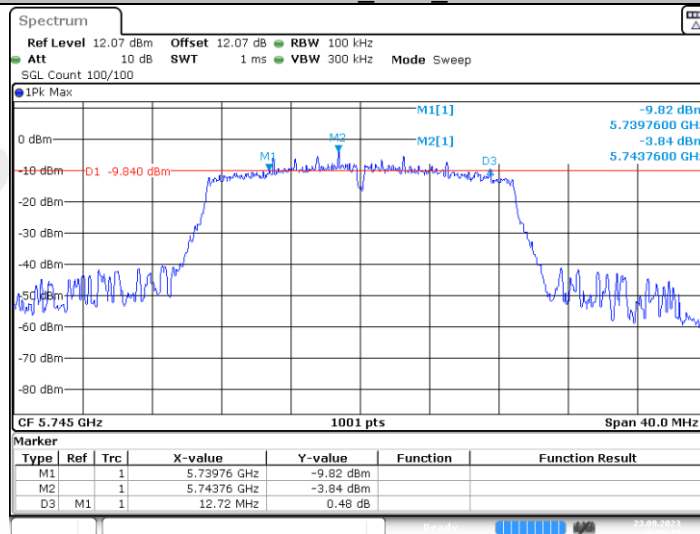
11A Ant1 5785



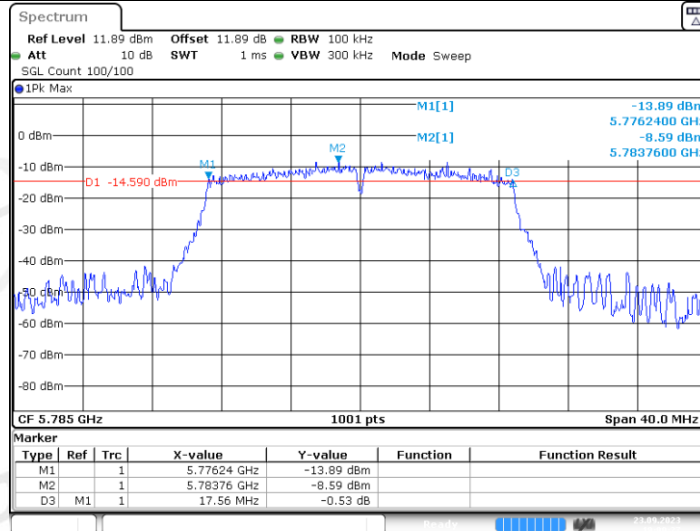
11A Ant1 5825



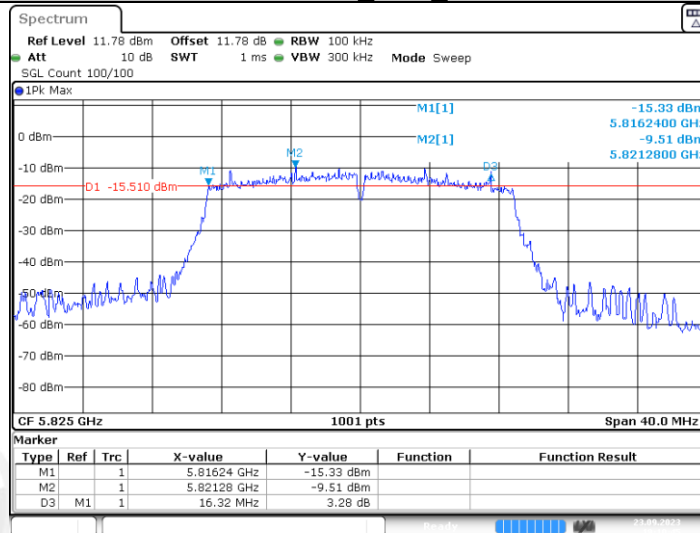
11N20SISO_Ant1 5745



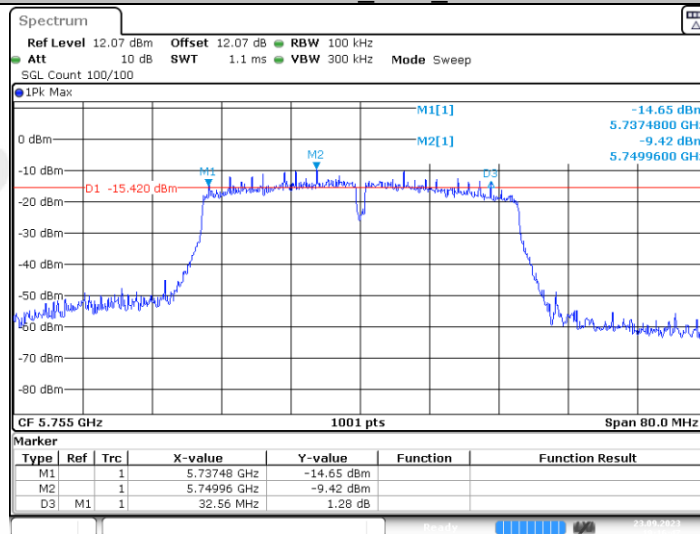
11N20SISO_Ant1_5785



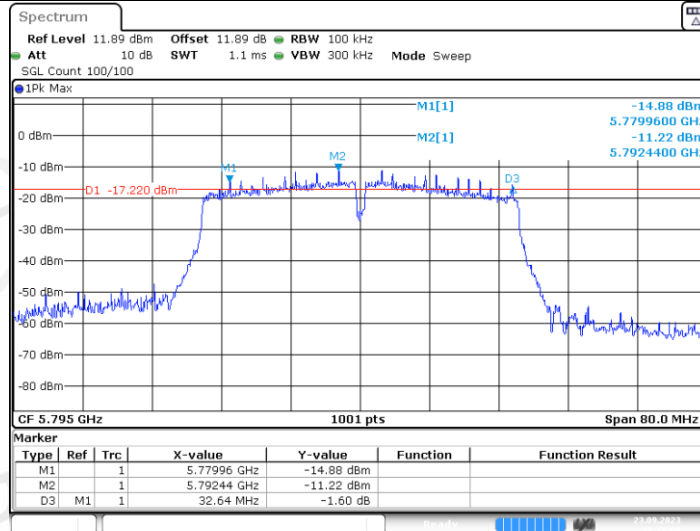
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755

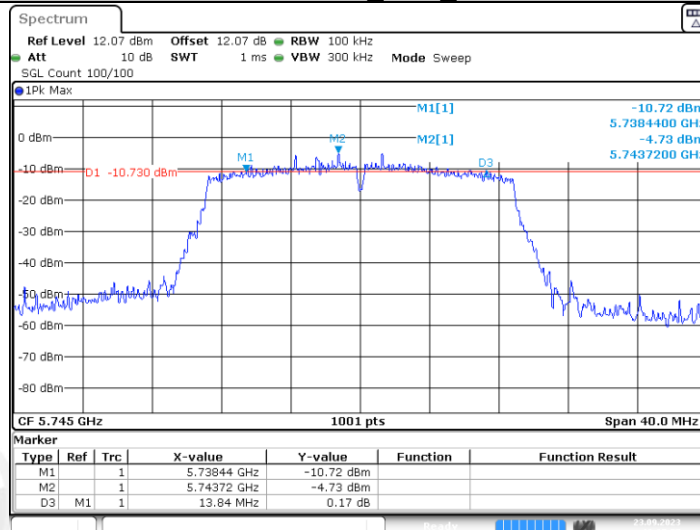


11N40SISO_Ant1_5795



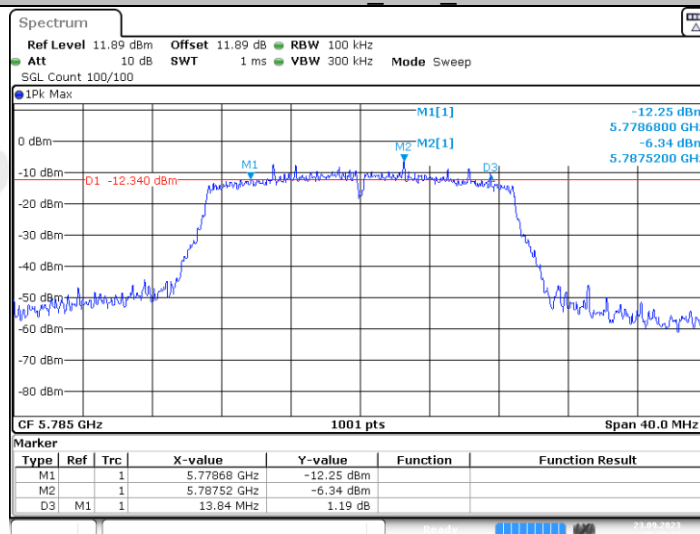
Date: 23 SEP.2023 19:18:01

11AC20SISO_Ant1_5745



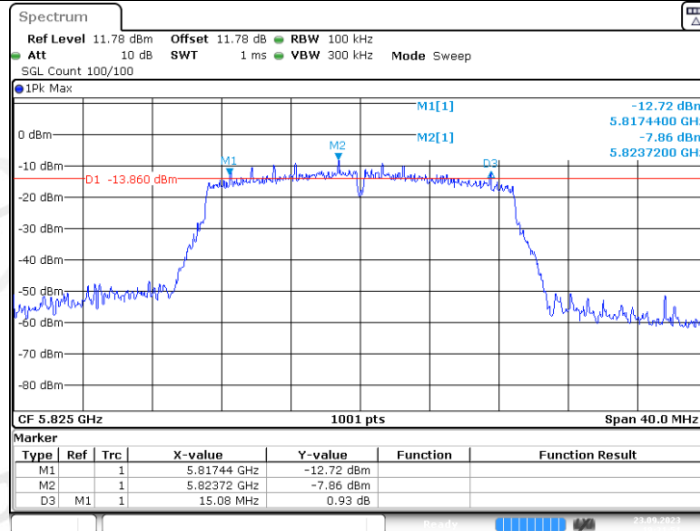
Date: 23 SEP.2023 19:27:58

11AC20SISO_Ant1_5785



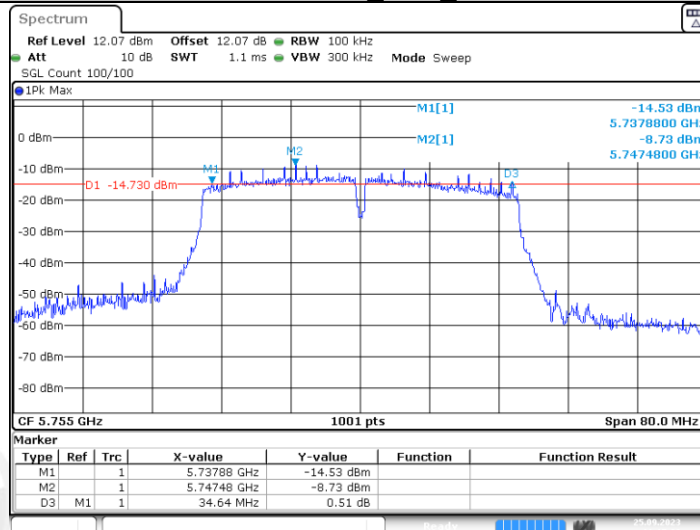
Date: 23 SEP.2023 19:30:21

11AC20SISO_Ant1_5825



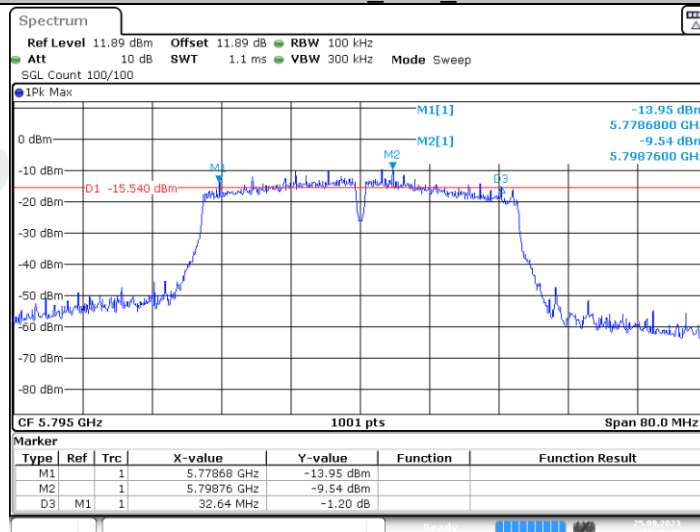
Date: 23 SEP.2023 19:31:52

11AC40SISO_Ant1_5755

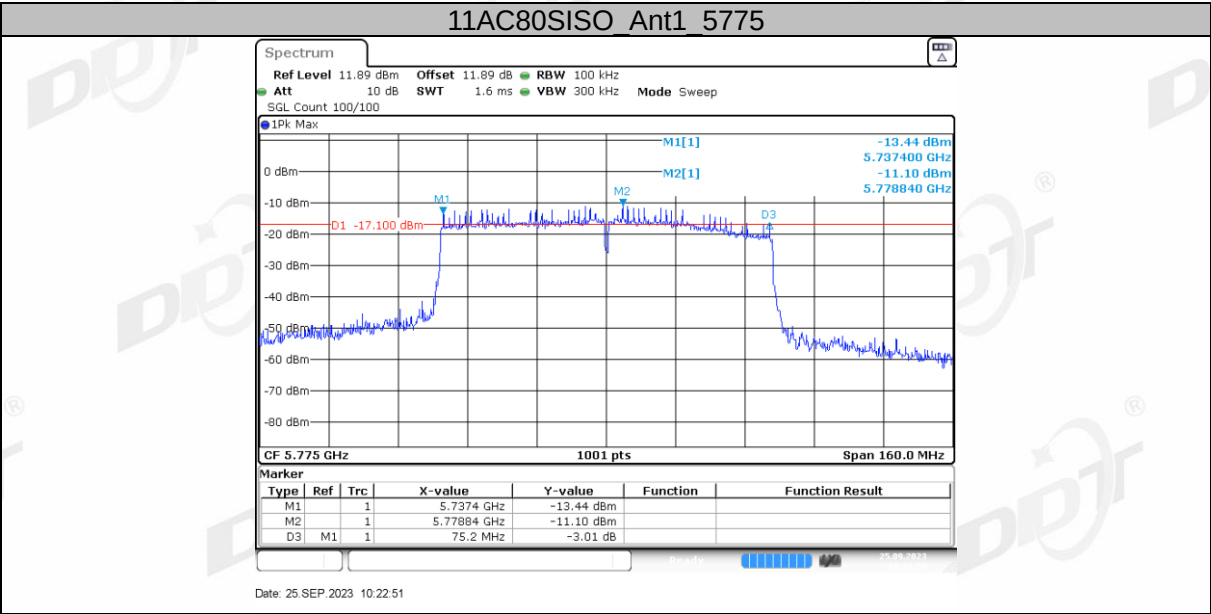


Date: 25 SEP.2023 11:17:29

11AC40SISO_Ant1_5795

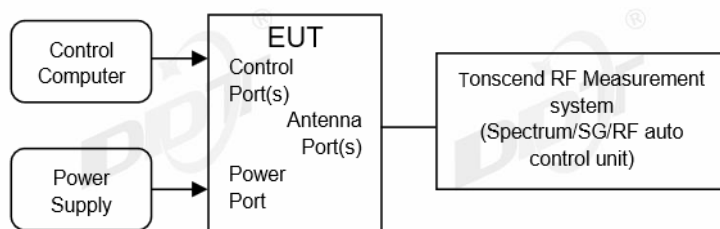


Date: 25 SEP.2023 11:25:34



6. 99% Bandwidth

6.1. Block diagram of test setup



6.2. Limits

Just for Report.

6.3. Test procedure

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

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Trace	Max hold

(2) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

6.4. Test result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	16.943	5171.5285	5188.4715	---	---
		5200	16.943	5191.4885	5208.4316	---	---
		5240	16.943	5231.4885	5248.4316	---	---
		5260	16.903	5251.4885	5268.3916	---	---
		5280	16.903	5271.5285	5288.4316	---	---
		5320	16.983	5311.4885	5328.4715	---	---
		5745	16.783	5736.5684	5753.3516	---	---
		5785	16.903	5776.5285	5793.4316	---	---
		5825	16.863	5816.5285	5833.3916	---	---
11N20 SISO	Ant1	5180	17.902	5171.0490	5188.9510	---	---
		5200	17.862	5191.0090	5208.8711	---	---
		5240	17.782	5231.0490	5248.8312	---	---
		5260	17.862	5251.0090	5268.8711	---	---
		5280	17.862	5271.0490	5288.9111	---	---
		5320	17.902	5311.0090	5328.9111	---	---
		5745	17.782	5736.0490	5753.8312	---	---
		5785	17.862	5776.0490	5793.9111	---	---
		5825	17.862	5816.0490	5833.9111	---	---
11N40 SISO	Ant1	5190	36.044	5171.9381	5207.9820	---	---
		5230	36.044	5211.9381	5247.9820	---	---
		5270	36.204	5251.7782	5287.9820	---	---
		5310	36.124	5291.7782	5327.9021	---	---
		5755	35.964	5736.9381	5772.9021	---	---
		5795	36.044	5776.9381	5812.9820	---	---
11AC20 SISO	Ant1	5180	17.782	5171.1289	5188.9111	---	---
		5200	17.862	5191.0490	5208.9111	---	---
		5240	17.862	5231.0490	5248.9111	---	---
		5260	17.902	5251.0090	5268.9111	---	---
		5280	17.862	5271.0889	5288.9510	---	---
		5320	17.822	5311.0490	5328.8711	---	---
		5745	17.822	5736.0490	5753.8711	---	---
		5785	17.862	5776.0889	5793.9510	---	---
		5825	17.822	5816.0490	5833.8711	---	---
11AC40 SISO	Ant1	5190	36.044	5171.9381	5207.9820	---	---
		5230	35.964	5211.9381	5247.9021	---	---
		5270	35.964	5251.8581	5287.8222	---	---
		5310	36.044	5291.7782	5327.8222	---	---
		5755	36.044	5736.8581	5772.9021	---	---
		5795	35.964	5776.9381	5812.9021	---	---
11AC80 SISO	Ant1	5210	75.445	5171.9580	5247.4026	---	---
		5290	75.285	5251.9580	5327.2428	---	---
		5775	75.445	5736.7982	5812.2428	---	---