

Product Name: Tablet	Report No: ITEZA202300349RF5
Product Model: R08, R08 Pro, R08S, R08T, R08 Max, R08 Ultra	Security Classification: Open
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TIRT Testing Report

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FCC Radio Test Report

FCC ID: 2AX4YR08

This report concerns: Original Grant

Equipment : Tablet
Brand Name : DOOGEE
Test Model : R08, R08 Pro, R08S, R08T, R08 Max, R08 Ultra
Series Model : N/A
Applicant : Shenzhen DOOGEE Hengtong Technology CO.,LTD
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Manufacturer : Shenzhen DOOGEE Hengtong Technology CO.,LTD
Address : B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China
Date of Receipt : Nov. 07, 2023
Date of Test : Nov. 07, 2023~ Nov. 15, 2023
Issued Date : Nov. 20, 2023
Report Version : V1.0
Test Sample : Engineering Sample No.: 20230227002812
Standard(s) : FCC CFR Title 47, Part 15, Subpart E
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
ANSI C63.10-2013

- The test result referred exclusively to the presented test model /sample.
- Without written approval of TIRT Inc. the test report shall not reproduced except in full.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
ITEZA202300349RF5	V1.0	Original Report.	Nov. 21, 2023	Valid

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart E				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207 15.407(b)	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.407(b) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.407(a) 15.407(e)	Bandwidth	APPENDIX E	PASS	-----
15.407(a)	Maximum Output Power	APPENDIX F	PASS	-----
15.407(a)	Power Spectral Density	APPENDIX G	PASS	-----
15.407(g)	Frequency Stability	APPENDIX H	PASS	NOTE (5)
15.203	Antenna Requirements	-----	PASS	NOTE (2)
15.407(c)	Automatically Discontinue Transmission	-----	PASS	NOTE (3)

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.
- (3) During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.
- (4) For UNII-1 this device was functioned as a
 - ☐ Outdoor access point device
 - ☒ Indoor access point device
 - ☐ Fixed point-to-point access points device
 - ☒ Client device
- (5) The manufacturer states that the frequency sability is in compliance with 15.407(g).

1.1 TEST FACILITY

Company:	Beijing TIRT Technology Service Co.,Ltd Shenzhen
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A2LA Registration Number:	6049.01
FCC Accredited Lab. Designation Number:	CN1366
FCC Test Firm Registration Number:	820690
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1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The TIRT measurement uncertainty as below table:

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	± 142.12 KHz
RF power conducted	± 0.74 dB
RF power radiated	± 3.25 dB
Spurious emissions, conducted	± 1.78 dB
Spurious emissions, radiated (30MHz~1GHz)	± 4.6 dB
Spurious emissions, radiated (1GHz ~ 18GHz)	± 4.9 dB
Conduction Emissions(150kHz~30MHz)	± 3.1 dB
Humidity	$\pm 4.6\%$
Temperature	$\pm 0.7^{\circ}\text{C}$
Time	$\pm 1.25\%$

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25.1°C	52%	AC 120V/60Hz	Stone Tang
Radiated Emissions-9kHz to 30MHz	24.5°C	50%	AC 120V/60Hz	Stone Tang
Radiated Emissions-30MHz to 1000MHz	24.2°C	53%	AC 120V/60Hz	Stone Tang
Radiated Emissions-Above 1000 MHz	26.0°C	53%	AC 120V/60Hz	Stone Tang
Bandwidth	25.0°C	56%	AC 120V/60Hz	Stone Tang
Maximum Output Power	24.9°C	54%	AC 120V/60Hz	Stone Tang
Power Spectral Density	25.1°C	62%	AC 120V/60Hz	Stone Tang

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet
Brand Name	DOOGEE
Test Model	R08, R08 Pro, R08S, R08T, R08 Max, R08 Ultra
Series Model	N/A
Model Difference(s)	There is no difference except the name of the model
Software Version	DOOGEE-R08-EEA-Android13.0-20231109
Hardware Version	WT_P101_8788_BJJ_MB_V0.1_20230920
Power Source	DC voltage supplied from AC/DC adapter.
Power Rating	DC 3.8V from battery or DC 5V from adapter
Operation Frequency Band(s)	UNII-1: 5180 MHz ~ 5240 MHz UNII-2A: 5260 MHz ~ 5320 MHz UNII-3: 5745 MHz ~ 5825 MHz
Modulation Type	IEEE 802.11n: OFDM (64QAM,16QAM,QPSK,BPSK) IEEE 802.11a: OFDM (64QAM,16QAM,QPSK,BPSK) IEEE 802.11ac: OFDM (64QAM,16QAM, 256QAM,QPSK,BPSK)
Maximum Output Power _UNII-1	IEEE 802.11n40: 14.22 dBm (0.026424 W)
Maximum Output Power _UNII-2A	IEEE 802.11ac80: 14.98 dBm (0.031477 W)
Maximum Output Power _UNII-3	IEEE 802.11n20: 15.44 dBm (0.034995 W)

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40)		IEEE 802.11ac(VHT80)	
UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40)		IEEE 802.11ac(VHT80)	
UNII-2A		UNII-2A		UNII-2A	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40)		IEEE 802.11ac(VHT80)	
UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	PT3	PIFA	N/A	2.7

Note:

- 1) The antenna gain is provided by the manufacturer.
- 2) The antenna is for testing purposes only.

2.2 TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 2	TX N(HT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX N(HT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX A Mode Channel 149/157/165 (UNII-3)
Mode 8	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 9	TX N(HT40) Mode Channel 151/159 (UNII-3)
Mode 10	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 11	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 12	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 13	TX A Mode Channel 52/60/64 (UNII-2A)
Mode 14	TX N(HT20) Mode Channel 52/60/64 (UNII-2A)
Mode 15	TX N(HT40) Mode Channel 54/62 (UNII-2A)
Mode 16	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 17	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 18	TX AC(VHT80) Mode Channel 58 (UNII-2A)

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 24	TX AC(VHT80) Mode Channel 155 (UNII-3)

Radiated Emissions Test - Below 1GHz	
Final Test Mode	Description
Mode 24	TX AC(VHT80) Mode Channel 155 (UNII-3)

Radiated Emissions Test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 2	TX N(HT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX N(HT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX A Mode Channel 149/157/165 (UNII-3)
Mode 8	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 9	TX N(HT40) Mode Channel 151/159 (UNII-3)
Mode 10	TX AC(VHT80) Mode Channel 155 (UNII-3)

Conducted Test	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 2	TX N(HT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX N(HT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX A Mode Channel 149/157/165 (UNII-3)
Mode 8	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 9	TX N(HT40) Mode Channel 151/159 (UNII-3)
Mode 10	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 11	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 12	TX AC(VHT80) Mode Channel 155 (UNII-3)

Note:

- (1) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX N(HT40) Mode Channel 36 (UNII-1) is found to be the worst case and recorded.
- (2) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz and 26.5GHz~40GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (3) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (4) The measurements for Output Power are tested, the worst case are IEEE 802.11a mode, IEEE 802.11n(HT20) mode, IEEE 802.11n(HT40) mode, IEEE 802.11ac(VHT80) mode, only the worst cases are documented for other test items.

2.3 PARAMETERS OF TEST SOFTWARE

UNII-1			
Test Software Version	AQCT		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	16	16	16
IEEE 802.11n(HT20)	16	16	16
IEEE 802.11ac(VHT20)	16	16	16
Frequency (MHz)	5190	5230	
IEEE 802.11n(HT40)	16	16	
IEEE 802.11ac(VHT40)	16	16	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	16		

UNII-1			
Test Software Version	AQCT		
Frequency (MHz)	5260	5280	5320
IEEE 802.11a	16	16	16
IEEE 802.11n(HT20)	16	16	16
IEEE 802.11ac(VHT20)	16	16	16
Frequency (MHz)	5270	5310	
IEEE 802.11n(HT40)	16	16	
IEEE 802.11ac(VHT40)	16	16	
Frequency (MHz)	5290		
IEEE 802.11ac(VHT80)	16		

UNII-3			
Test Software Version	AQCT		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	16	16	16
IEEE 802.11n(HT20)	16	16	16
IEEE 802.11ac(VHT20)	16	16	16
Frequency (MHz)	5755	5795	
IEEE 802.11n(HT40)	16	16	
IEEE 802.11ac(VHT40)	16	16	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	16		

2.4 DUTY CYCLE

If duty cycle is $\geq 98\%$, duty factor is not required.

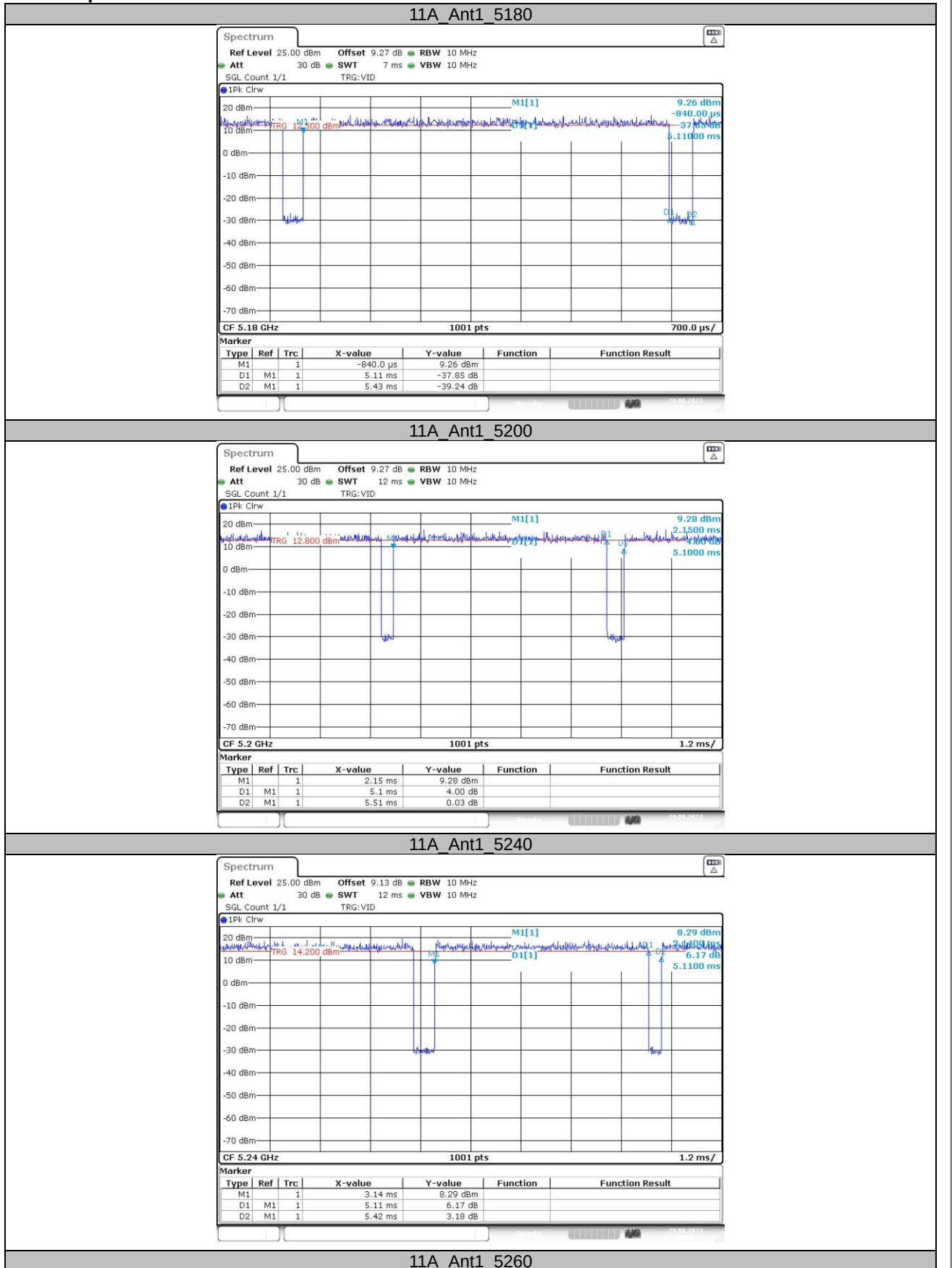
If duty cycle is $< 98\%$, duty factor shall be considered.

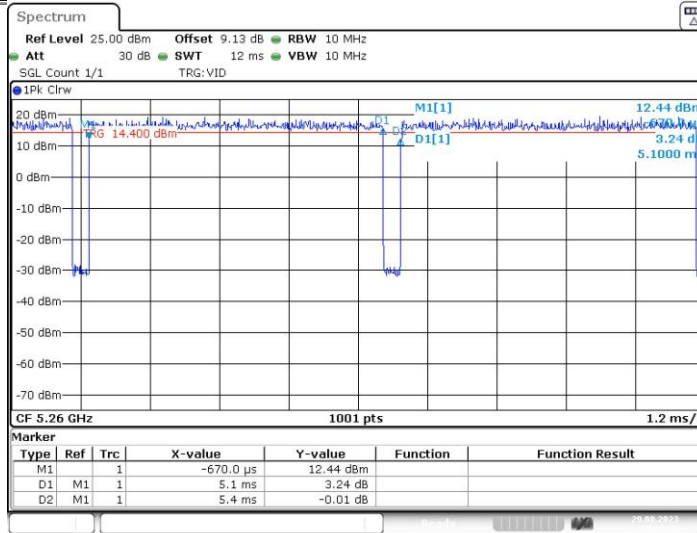
The output power = measured power + duty factor.

The power spectral density = measured power spectral density + duty factor.

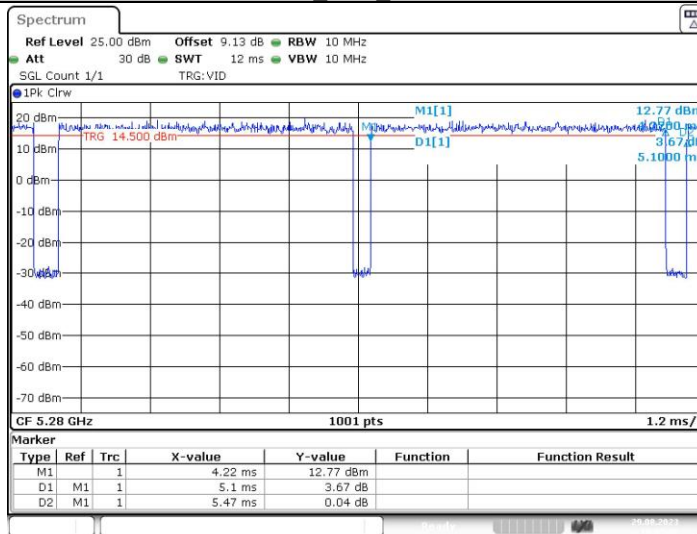
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	5.11	5.43	94.11
		5200	5.10	5.51	92.56
		5240	5.11	5.42	94.28
		5260	5.10	5.40	94.44
		5280	5.10	5.47	93.24
		5320	5.10	5.46	93.41
		5745	1.73	2.14	80.84
		5785	1.72	2.08	82.69
		5825	5.11	5.43	94.11
11N20SISO	Ant1	5180	1.61	1.98	81.31
		5200	4.73	5.07	93.29
		5240	4.74	5.11	92.76
		5260	4.74	5.09	93.12
		5280	4.74	5.11	92.76
		5320	4.73	5.13	92.20
		5745	4.73	5.10	92.75
		5785	1.62	2.01	80.60
		5825	1.61	1.92	83.85
11N40SISO	Ant1	5190	4.55	4.85	93.81
		5230	4.56	4.94	92.31
		5270	4.56	4.90	93.06
		5310	4.56	4.86	93.83
		5755	4.56	5.00	91.20
		5795	3.06	3.45	88.70
11AC20SISO	Ant1	5180	4.74	5.12	92.58
		5200	1.62	2.04	79.41
		5240	4.73	5.11	92.56
		5260	4.74	5.11	92.76
		5280	4.74	5.11	92.76
		5320	4.74	5.12	92.58
		5745	4.74	5.13	92.40
		5785	4.74	6.84	69.30
		5825	4.74	5.06	93.68
11AC40SISO	Ant1	5190	4.56	5.04	90.48
		5230	3.06	3.71	82.48
		5270	4.58	4.98	91.97
		5310	4.56	4.86	93.83
		5755	4.56	4.86	93.83
		5795	4.56	4.84	94.21
11AC80SISO	Ant1	5210	5.26	5.60	93.93
		5290	0.38	0.80	47.50
		5775	0.39	0.81	48.15

Test Graphs

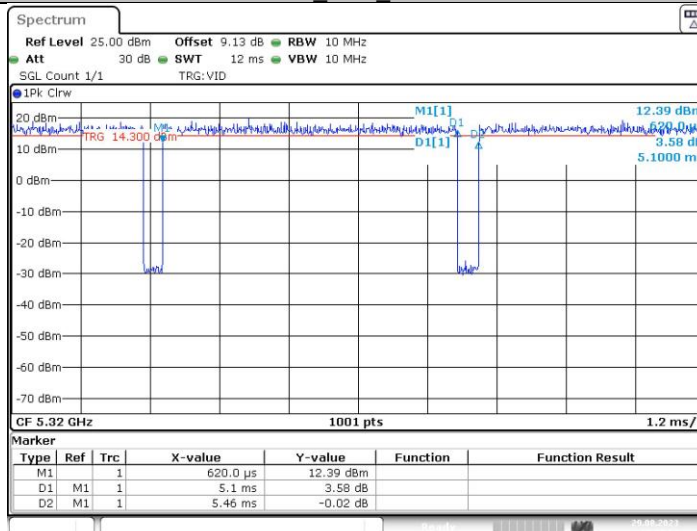




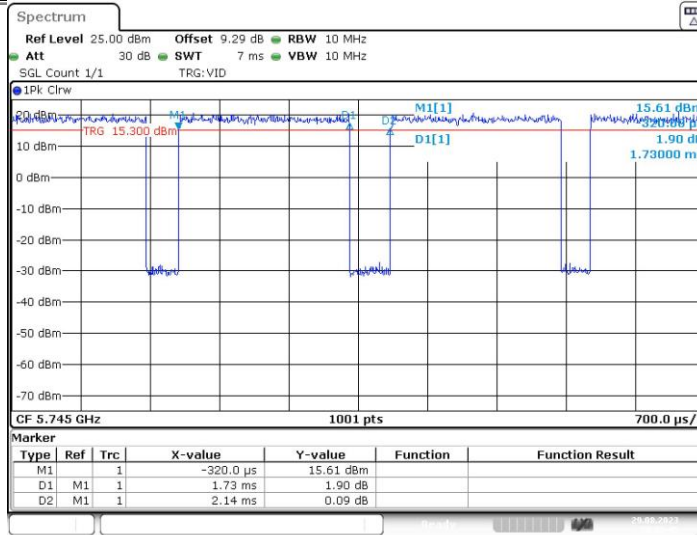
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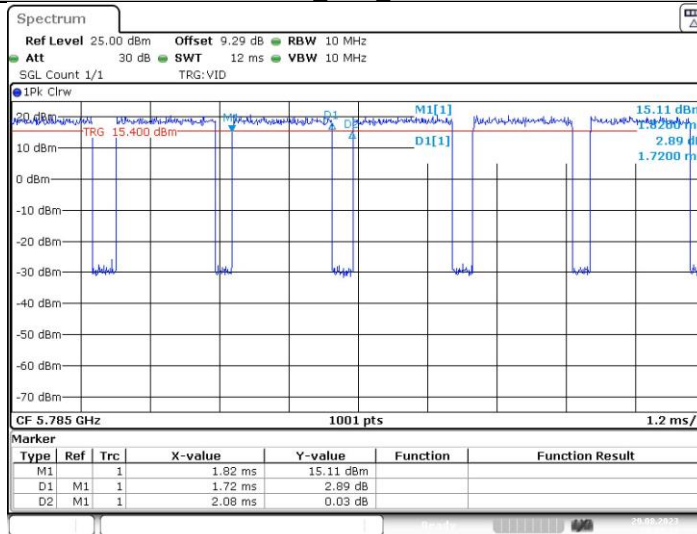
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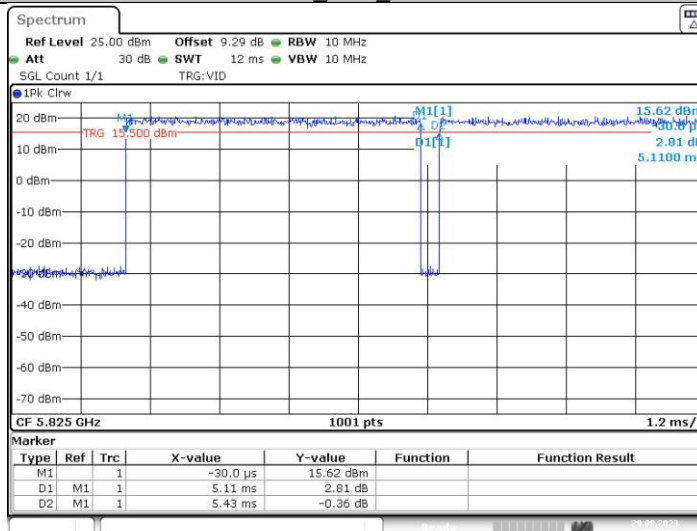
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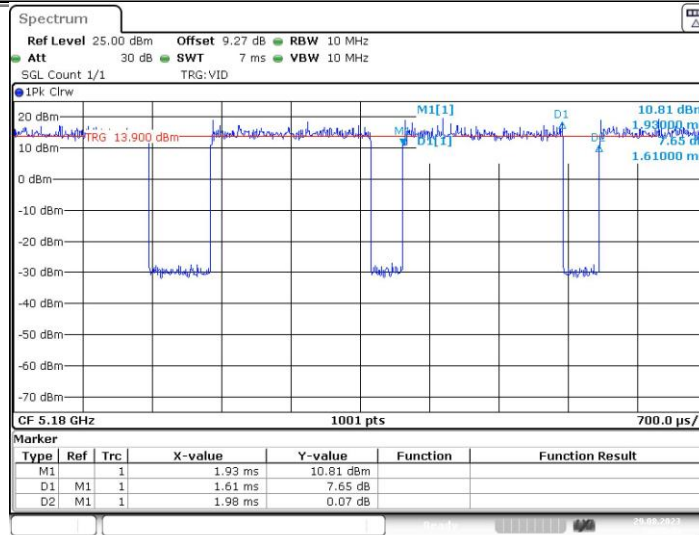
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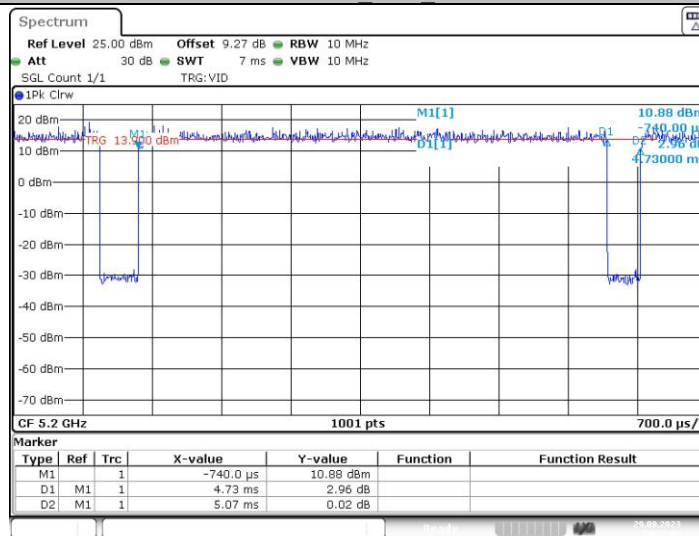
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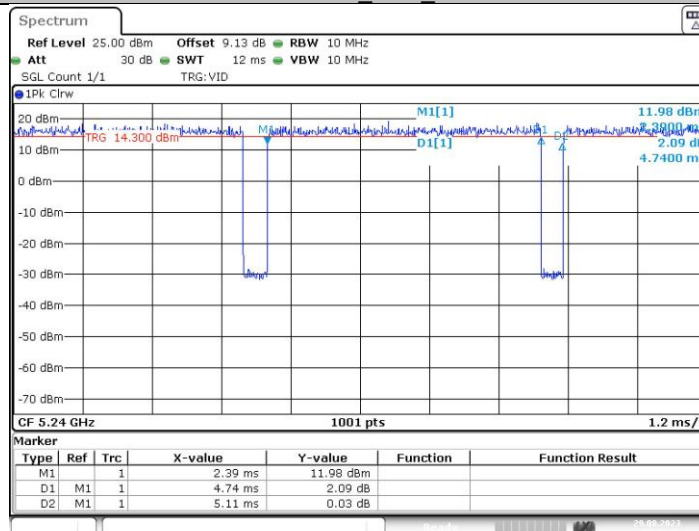
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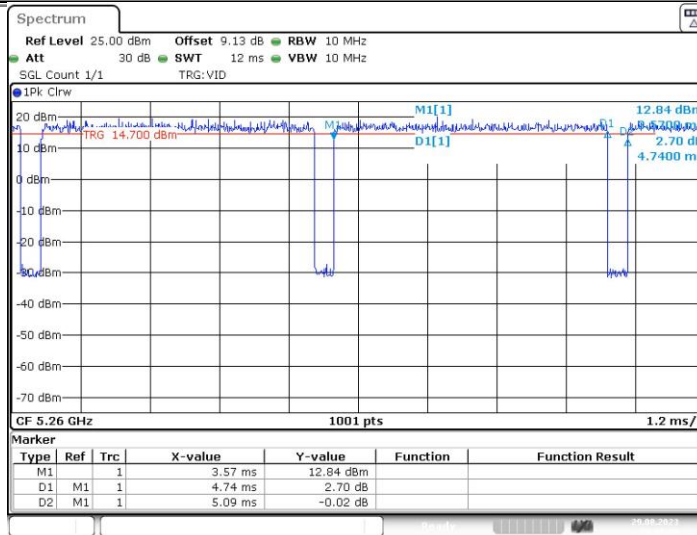
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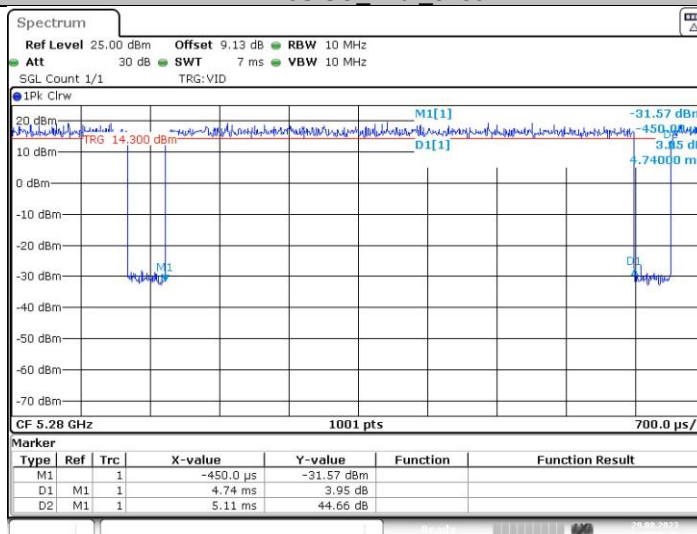
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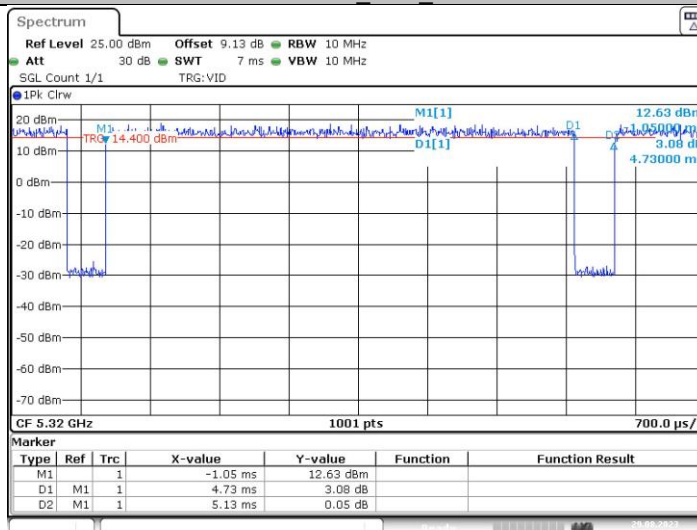
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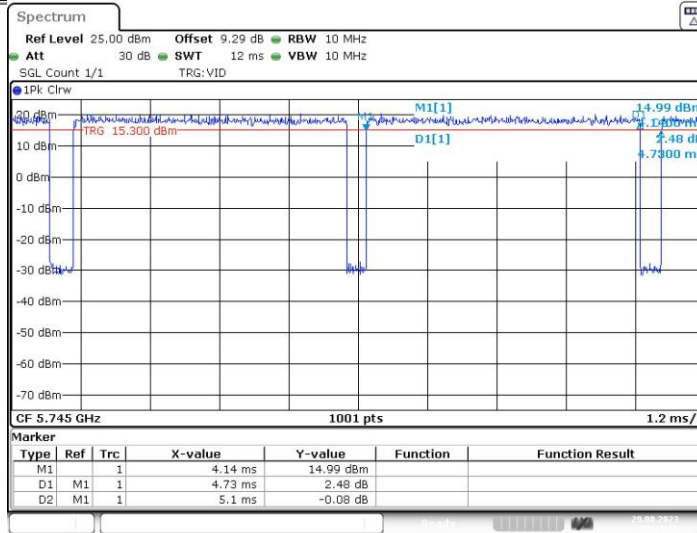
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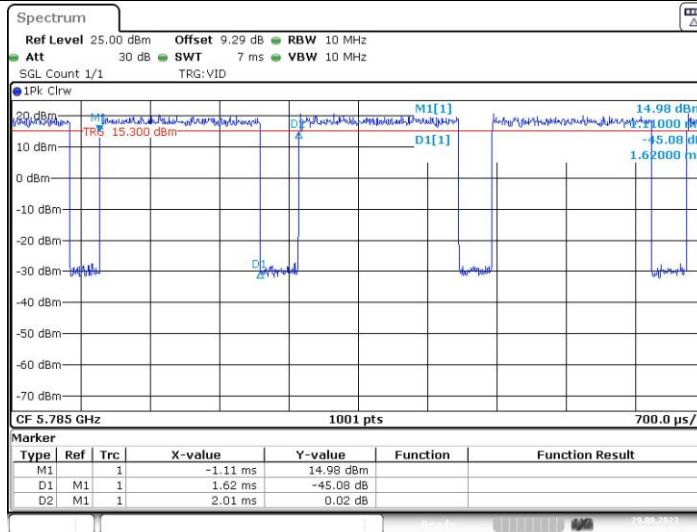
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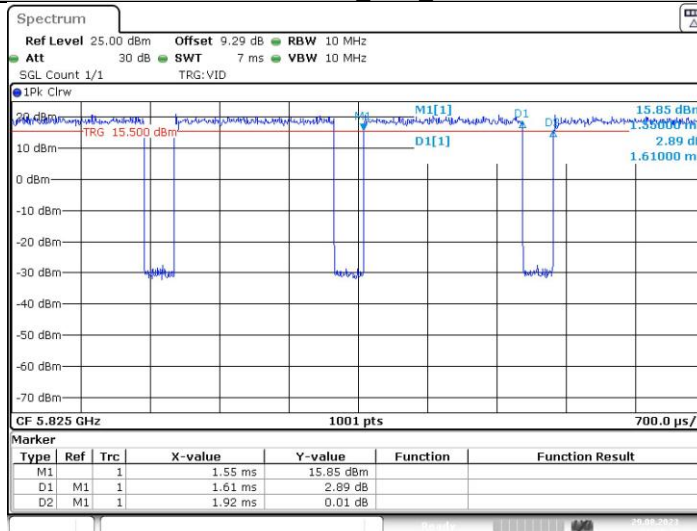
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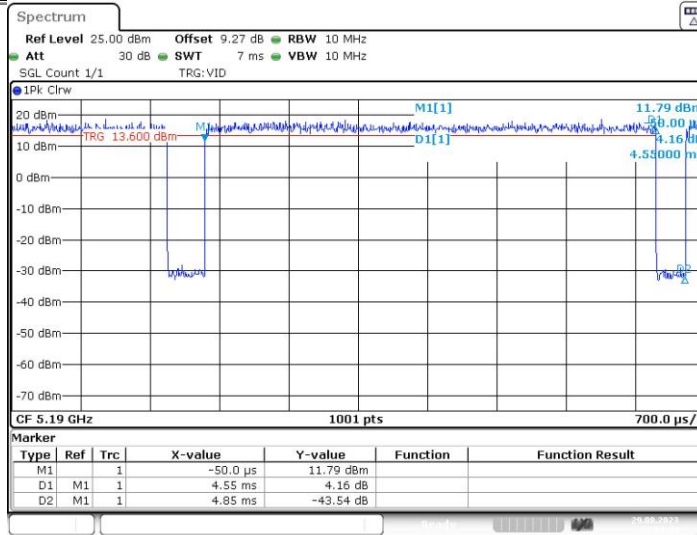
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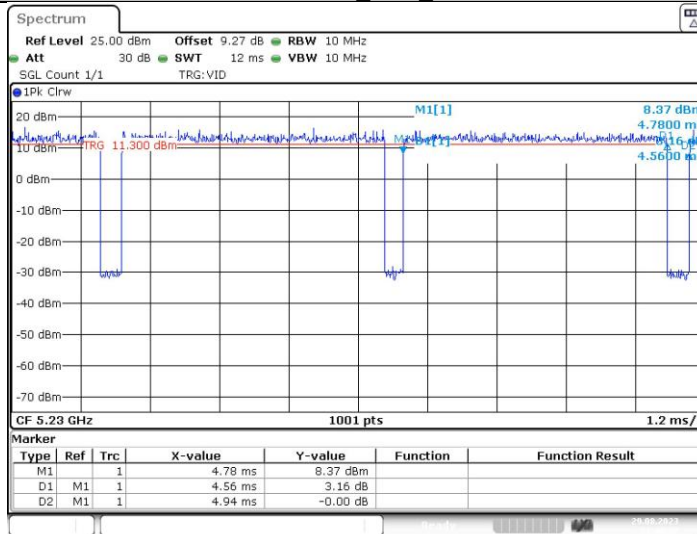
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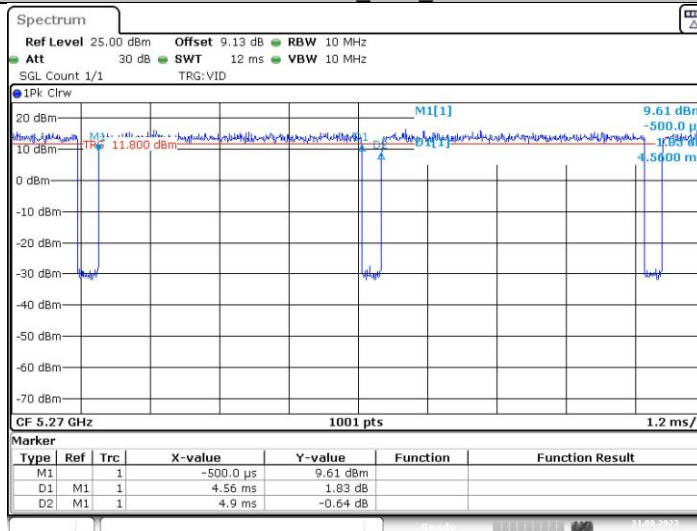
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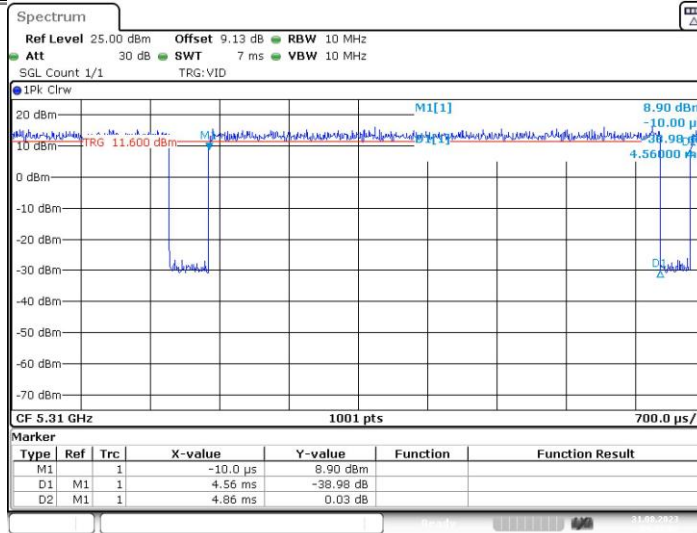
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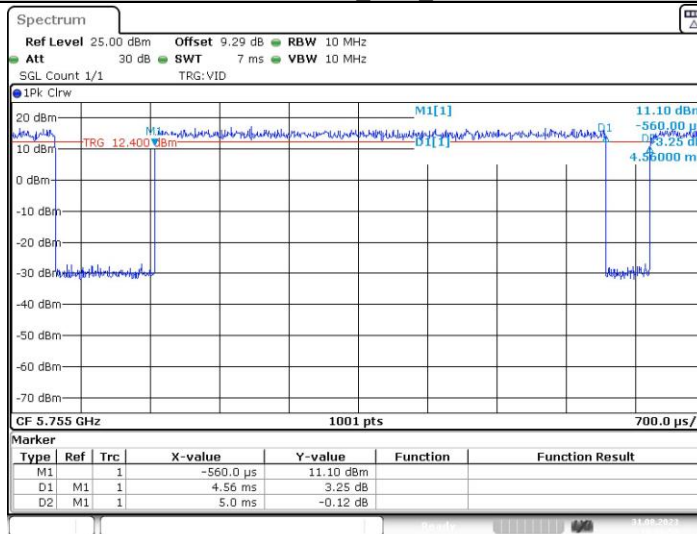
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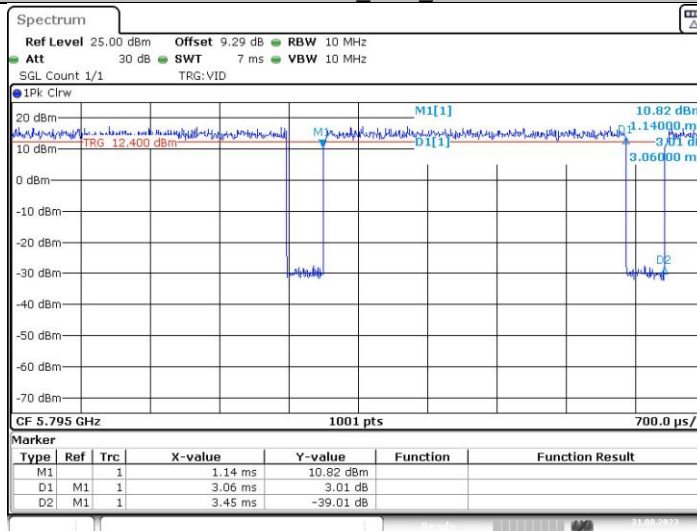
11N40SISO_Ant1_5310



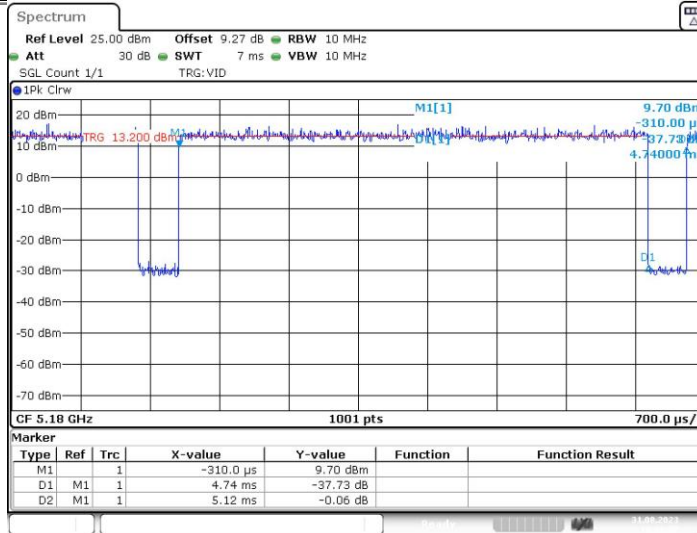
11N40SISO Ant1 5755



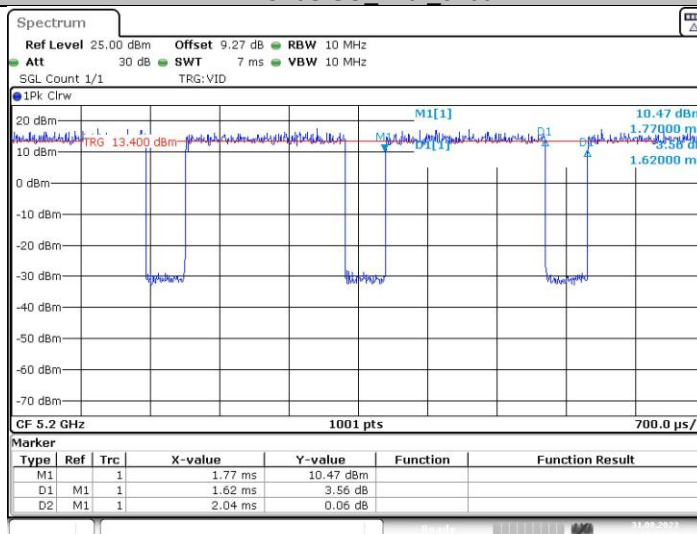
11N40SISO Ant1 5795



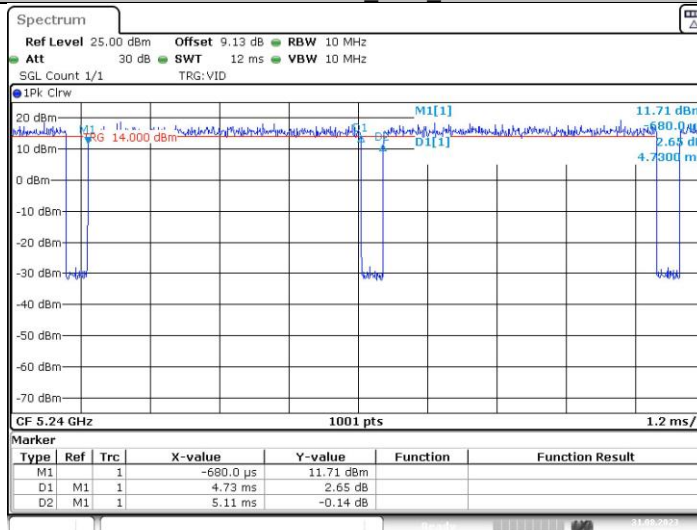
11AC20SISO Ant1 5180



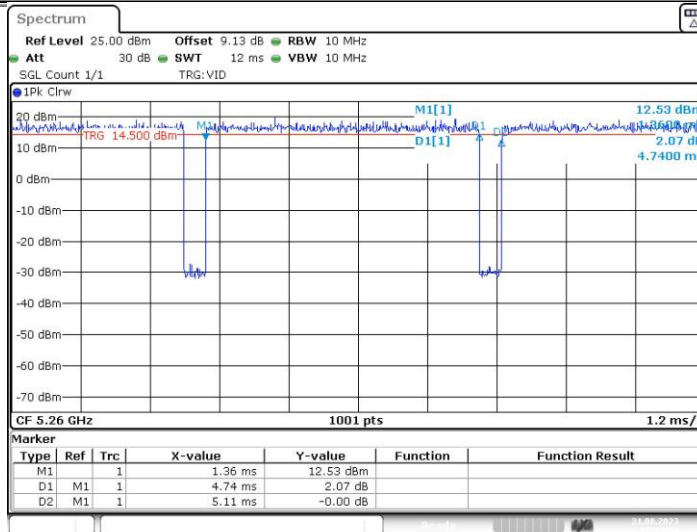
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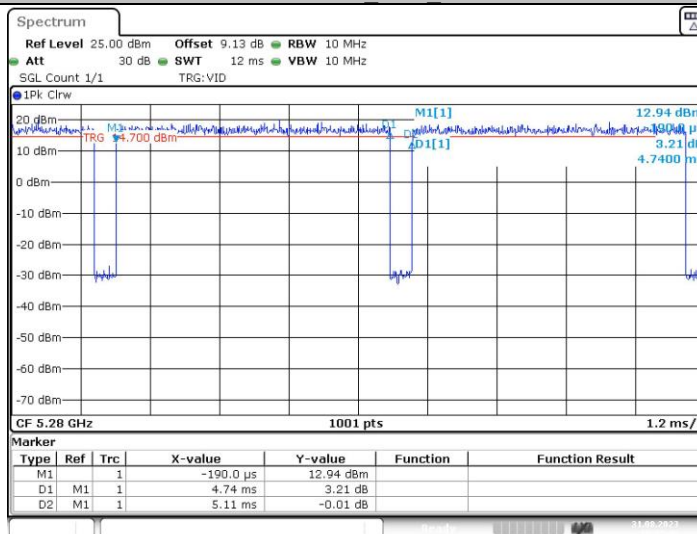
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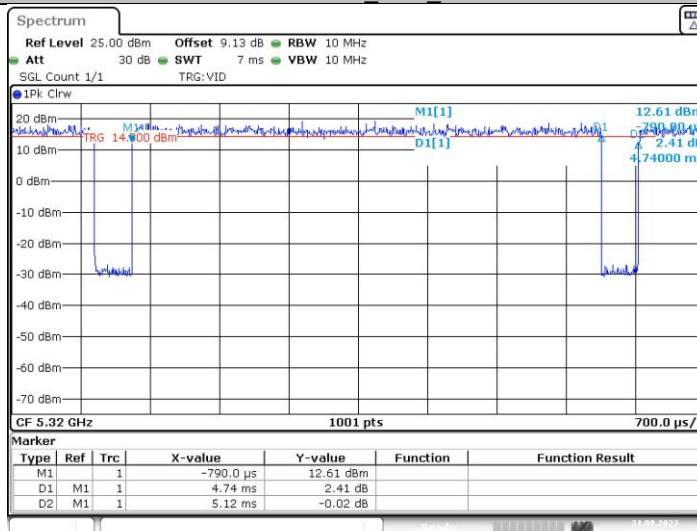
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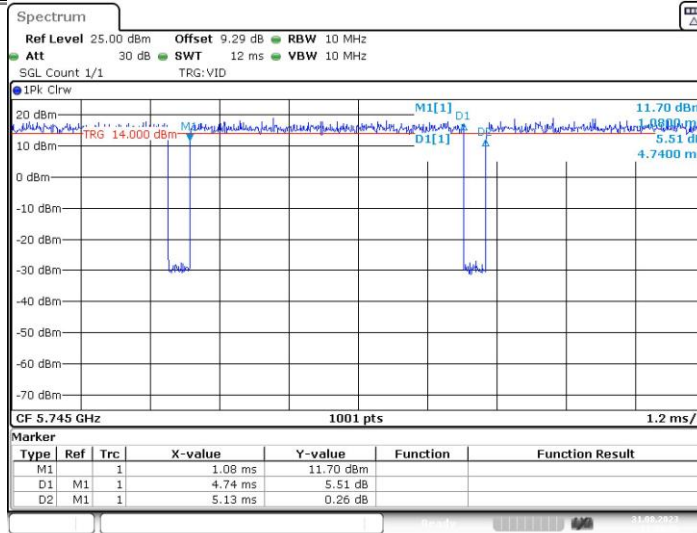
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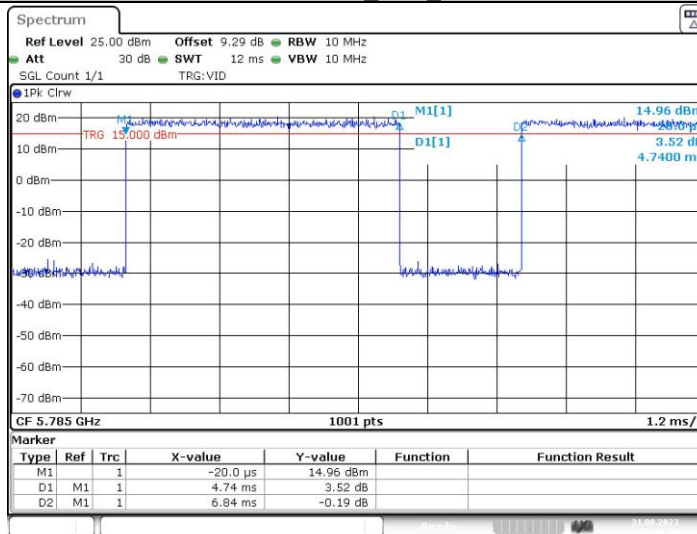
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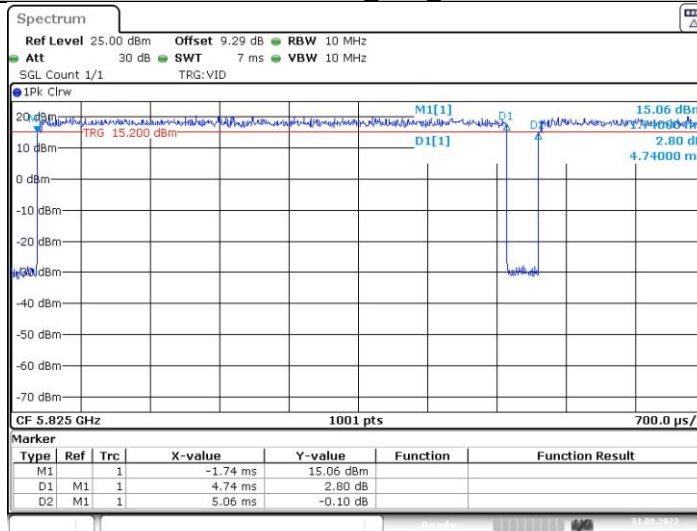
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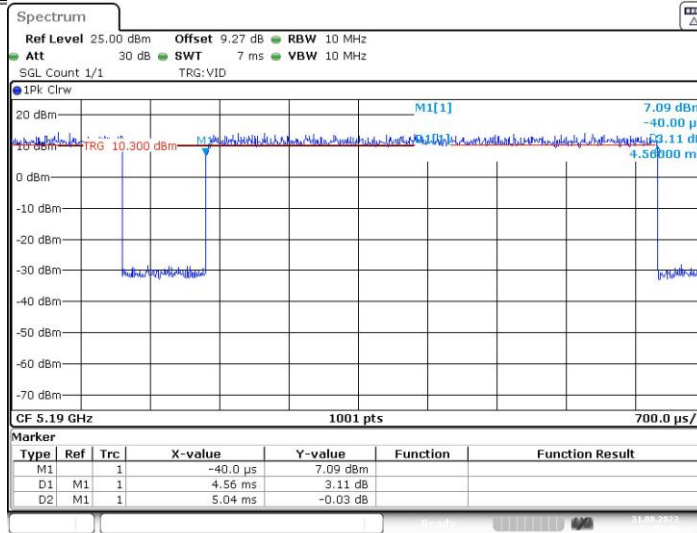
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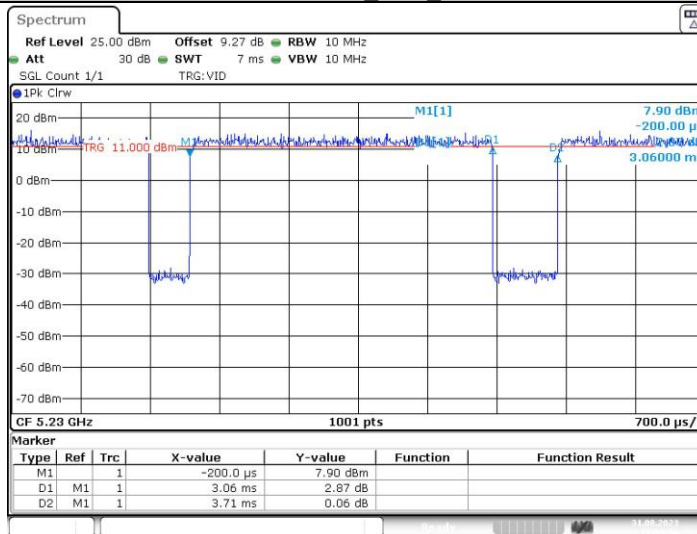
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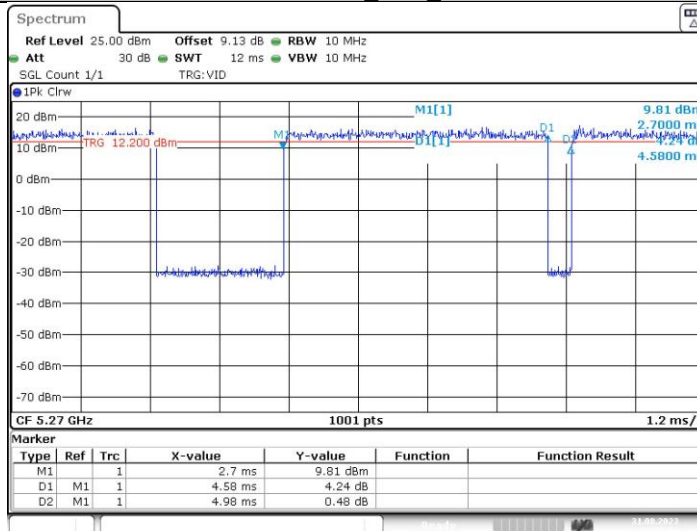
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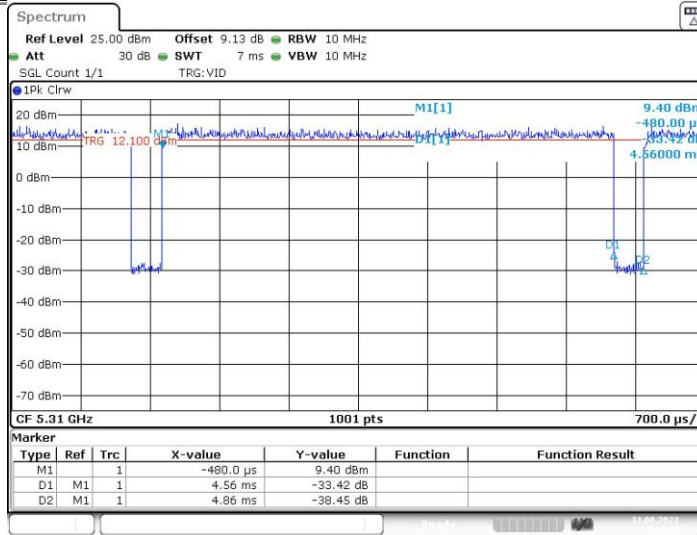
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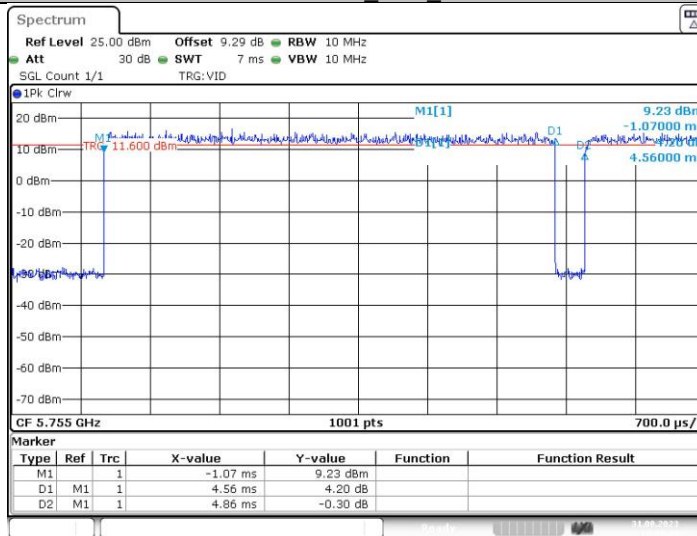
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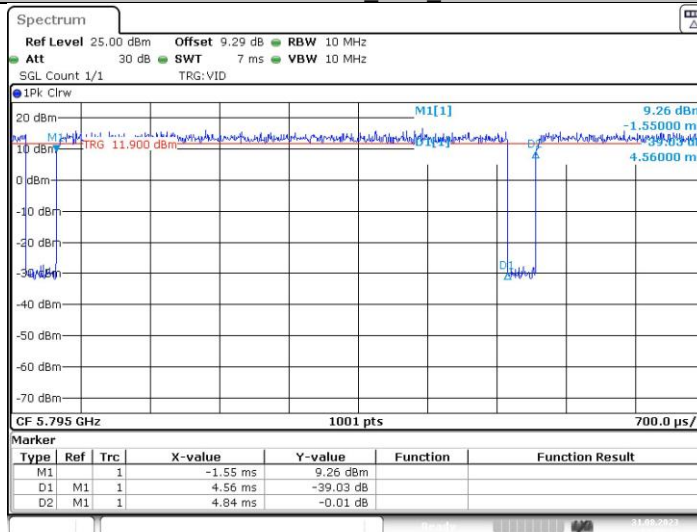
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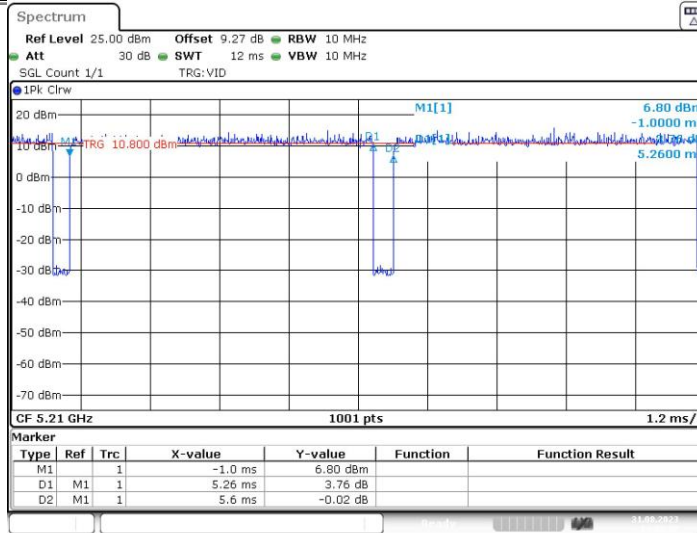
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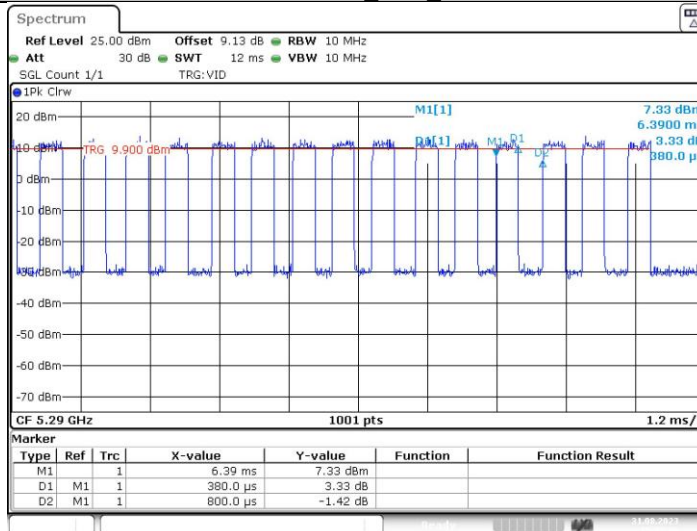
11AC40SISO_Ant1_5795



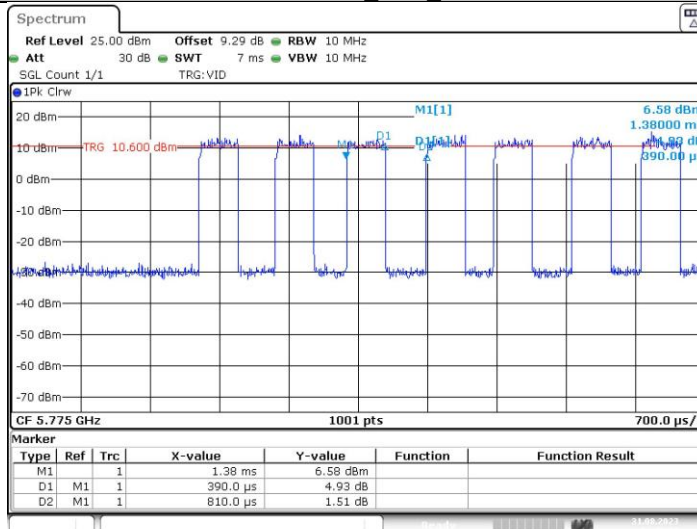
11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5290



11AC80SISO_Ant1_5775



NOTE:

For IEEE 802.11a:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$).

For IEEE 802.11n(HT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$).

For IEEE 802.11n(HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$).

For IEEE 802.11ac(VHT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$).

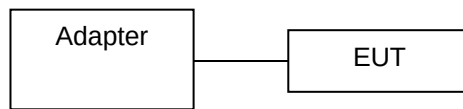
For IEEE 802.11ac(VHT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$).

For IEEE 802.11ac(VHT80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$).

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	/	/	/	/