



Product Name: Projector	Report No: ITEZA2-202300405RF5
Product Model: ZMLF2001, ZMLF2002, ZMLF2003, ZMLF2004, ZMLF2005, ZMLF2006, ZMLF2007, ZMLF2008, ZMLF2009, ZMLF2010	Security Classification: Open
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TIRT Testing Report

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<i>Aaron Long</i>	<i>Stone Tang</i>	<i>Joky Wang</i>	

FCC Radio Test Report

FCC ID: 2A6K3-ZMLF2001

This report concerns: Original Grant

Equipment : Projector
Brand Name : ZEEMR
Test Model : ZMLF2001,
Series Model : ZMLF2001, ZMLF2002, ZMLF2003, ZMLF2004, ZMLF2005, ZMLF2006,
ZMLF2007, ZMLF2008, ZMLF2009, ZMLF2010
Applicant : Jiangsu Golden Vision Legend Technology Co.,Ltd
Address : Room 105-7, Building 17, Phase I, HR Service Industrial Park, Nanjing
Jiangbei New District, No. 1, Qiliqiaobei Road Jiangbei New District,
Nanjing, China
Manufacturer : Jiangsu Golden Vision Legend Technology Co.,Ltd
Address : Room 105-7, Building 17, Phase I, HR Service Industrial Park, Nanjing
Jiangbei New District, No. 1, Qiliqiaobei Road Jiangbei New District,
Nanjing, China
Date of Receipt : Dec. 13, 2023
Date of Test : Dec. 13, 2023~ Jan. 24, 2024
Issued Date : Jan. 24, 2024
Report Version : V1.0
Test Sample : Engineering Sample No.: 1000024292
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
ITEZA2-202300405RF5	V1.0	Original Report.	Jan. 24, 2024	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).
- (6) Client device without Radar detection and it has the TPC function

1.1 TEST FACILITY

Company:	Beijing TIRT Technology Service Co.,Ltd Shenzhen
Address:	104 Building C, Xinmingsheng Industrial Park No.132, Zhangge Old Village East Zone, Zhangge Community, Fucheng Street, Longhua District, Shenzhen, Guangdong, P. R. China
CNAS Registration Number:	CNAS L14158
A2LA Registration Number:	6049.01
FCC Accredited Lab. Designation Number:	CN1366
FCC Test Firm Registration Number:	820690
Telephone:	+86-0755-27087573

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
Power Spectral Density	±0.75dB
RF power conducted	±0.74 dB
RF power radiated	±3.25dB
Spurious emissions, conducted	±1.78dB
Spurious emissions, radiated (30MHz~1GHz)	±4.6dB
Spurious emissions, radiated (1GHz ~ 26.5GHz)	±4.9dB
Spurious emissions, radiated (26.5GHz ~ 40GHz)	±5.4dB
Conduction Emissions(150kHz~30MHz)	±3.1 dB
Humidity	±4.6%
Temperature	±0.7°C
Time	±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	Projector
Brand Name	ZEEMR
Test Model	ZMLF2001
Series Model	ZMLF2001, ZMLF2002, ZMLF2003, ZMLF2004, ZMLF2005, ZMLF2006, ZMLF2007, ZMLF2008, ZMLF2009, ZMLF2010
Model Difference(s)	There is no difference except the name of the model
Software Version	v2.1.2
Hardware Version	v1.0.0
Power Source	AC 100-240V, 50/60Hz 2.3A
Power Rating	AC 120V/60Hz
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) IEEE 802.11ax: OFDMA(64QAM,16QAM,QPSK,BPSK, 256QAM,1024QAM)
Maximum Output Power _UNII-1	IEEE 802.11ax20: 15.08 dBm (0.03221W)
Maximum Output Power _UNII-2A	IEEE 802.11ac20: 16.69 dBm (0.04667W)
Maximum Output Power _UNII-3	IEEE 802.11n20: 16.61dBm (0.04581W)

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- IEEE 802.11ax only has the Full RU mode

2. Channel List:

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(VHT20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(VHT40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(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 802.11ax(VHT20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(VHT40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(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 802.11ax(VHT20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(VHT40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(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	BBT076-S7C-I	FPC	N/A	2.09dBi

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 AX(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 8	TX AX(VHT40) Mode Channel 38/46 (UNII-1)
Mode 9	TX AX(VHT80) Mode Channel 42 (UNII-1)
Mode 10	TX A Mode Channel 149/157/165 (UNII-3)
Mode 11	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 12	TX N(HT40) Mode Channel 151/159 (UNII-3)
Mode 13	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 14	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 15	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 16	TX AX(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 17	TX AX(VHT40) Mode Channel 151/159 (UNII-3)
Mode 18	TX AX(VHT80) Mode Channel 155 (UNII-3)
Mode 19	TX A Mode Channel 52/60/64 (UNII-2A)
Mode 20	TX N(HT20) Mode Channel 52/60/64 (UNII-2A)
Mode 21	TX N(HT40) Mode Channel 54/62 (UNII-2A)
Mode 22	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 23	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 24	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 25	TX AX(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 26	TX AX(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 27	TX AX(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
IEEE 802.11ax(VHT20)	16	16	16
Frequency (MHz)	5190	5230	
IEEE 802.11n(HT40)	16	16	
IEEE 802.11ac(VHT40)	16	16	
IEEE 802.11ax(VHT40)	16	16	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	16		
IEEE 802.11ax(VHT80)	16		

UNII-2A			
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
IEEE 802.11ax(VHT20)	16	16	16
Frequency (MHz)	5270	5310	
IEEE 802.11n(HT40)	16	16	
IEEE 802.11ac(VHT40)	16	16	
IEEE 802.11axVHT40)	16	16	
Frequency (MHz)	5290		
IEEE 802.11ac(VHT80)	16		
IEEE 802.11ax(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
IEEE 802.11ax(VHT20)	16	16	16
Frequency (MHz)	5755	5795	
IEEE 802.11n(HT40)	16	16	
IEEE 802.11ac(VHT40)	16	16	
IEEE 802.11ax(VHT40)	16	16	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	16		
IEEE 802.11ax(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.

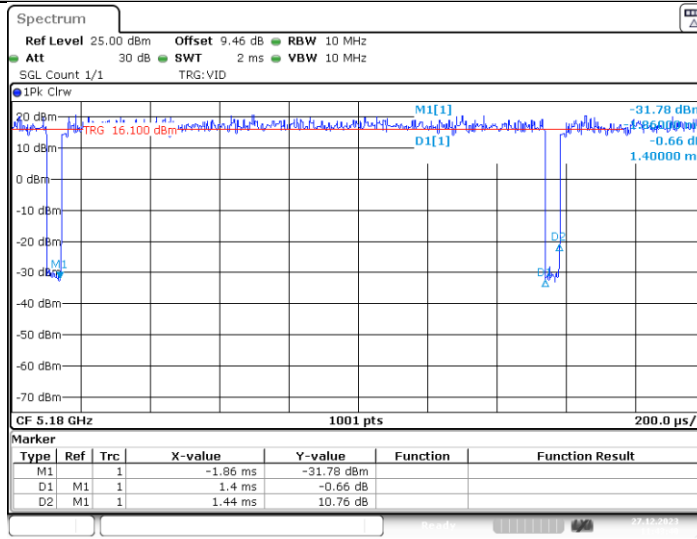
The power spectral density = measured power spectral density + duty factor.

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	1.40	1.44	97.22	---	---
		5200	1.40	1.44	97.22	---	---
		5240	1.38	1.43	96.50	---	---
		5745	1.39	1.43	97.20	---	---
		5785	1.39	1.44	96.53	---	---
		5825	1.38	1.43	96.50	---	---
11N20SISO	Ant1	5180	1.30	1.35	96.30	---	---
		5200	1.29	1.34	96.27	---	---
		5240	1.30	1.34	97.01	---	---
		5745	1.30	1.35	96.30	---	---
		5785	1.30	1.35	96.30	---	---
		5825	1.29	1.34	96.27	---	---
11N40SISO	Ant1	5190	0.65	0.69	94.20	---	---
		5230	0.65	0.69	94.20	---	---
		5755	0.64	0.69	92.75	---	---
		5795	0.65	0.69	94.20	---	---
11AC20SISO	Ant1	5180	1.32	1.36	97.06	---	---
		5200	1.31	1.36	96.32	---	---
		5240	1.31	1.36	96.32	---	---
		5745	1.31	1.36	96.32	---	---
		5785	1.32	1.36	97.06	---	---
		5825	1.31	1.36	96.32	---	---
11AC40SISO	Ant1	5190	0.66	0.70	94.29	---	---
		5230	0.65	0.70	92.86	---	---
		5755	0.66	0.70	94.29	---	---
		5795	0.65	0.70	92.86	---	---
11AC80SISO	Ant1	5210	0.28	1.37	20.44	---	---
		5775	0.32	0.37	86.49	---	---
11AX20SISO	Ant1	5180	1.31	1.36	96.32	---	---
		5200	1.32	1.36	97.06	---	---
		5240	1.31	1.35	97.04	---	---
		5745	1.31	1.36	96.32	---	---
		5785	1.31	1.36	96.32	---	---
		5825	1.31	1.36	96.32	---	---
11AX40SISO	Ant1	5190	0.53	1.58	33.54	---	---
		5230	0.65	0.69	94.20	---	---
		5755	0.65	0.70	92.86	---	---
		5795	0.65	0.70	92.86	---	---
11AX80SISO	Ant1	5210	0.29	1.33	21.80	---	---
		5775	0.29	1.37	21.17	---	---

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5260	1.39	2.44	56.97	---	---
		5280	1.39	2.42	57.44	---	---
		5320	1.39	2.55	54.51	---	---
11N20SISO	Ant1	5260	1.31	2.34	55.98	---	---
		5280	1.30	2.39	54.39	---	---
		5320	1.30	2.38	54.62	---	---
11N40SISO	Ant1	5270	0.64	1.72	37.21	---	---
		5310	0.65	1.73	37.57	---	---
11AC20SISO	Ant1	5260	1.31	2.39	54.81	---	---
		5280	1.30	2.39	54.39	---	---
		5320	1.31	2.39	54.81	---	---
11AC40SISO	Ant1	5270	0.65	1.73	37.57	---	---
		5310	0.65	2.00	32.50	---	---
11AC80SISO	Ant1	5290	0.32	1.40	22.86	---	---
11AX20SISO	Ant1	5260	1.02	2.09	48.80	---	---
		5280	1.01	2.06	49.03	---	---
		5320	1.01	2.11	47.87	---	---
11AX40SISO	Ant1	5270	0.54	1.59	33.96	---	---
		5310	0.54	1.59	33.96	---	---
11AX80SISO	Ant1	5290	0.29	1.33	21.80	---	---

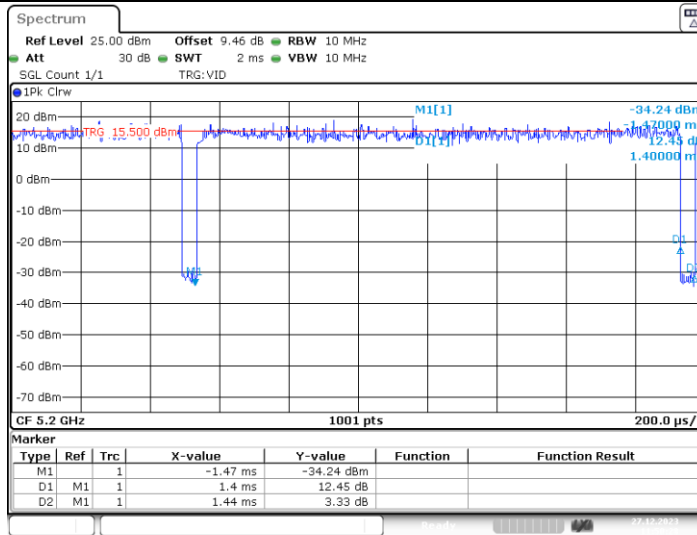
Test Graphs

11A_Ant1_5180



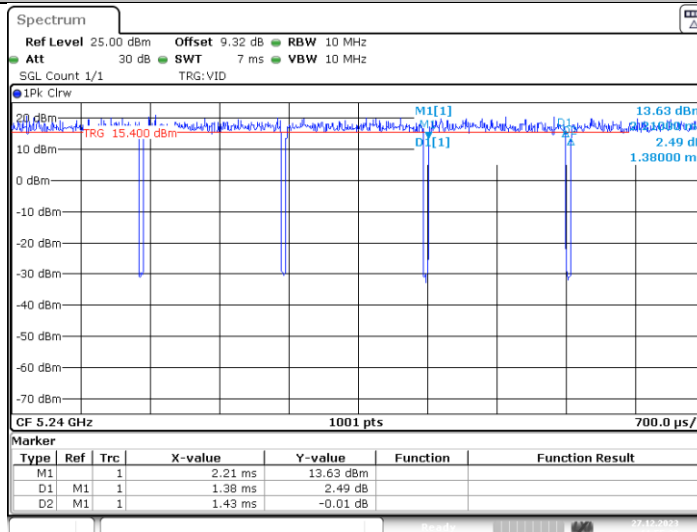
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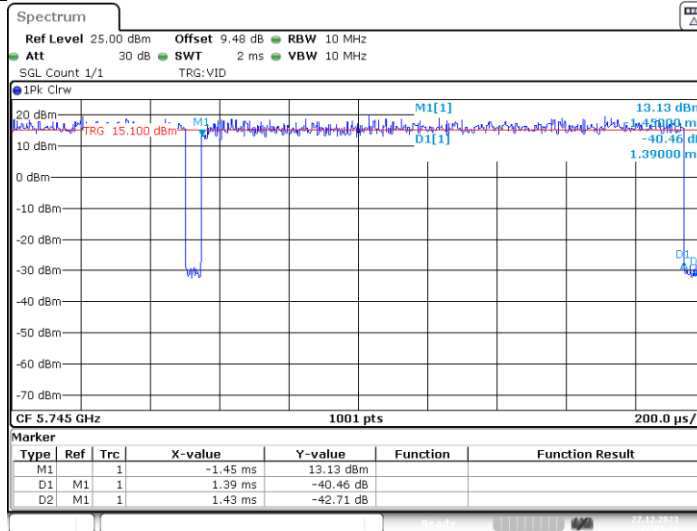
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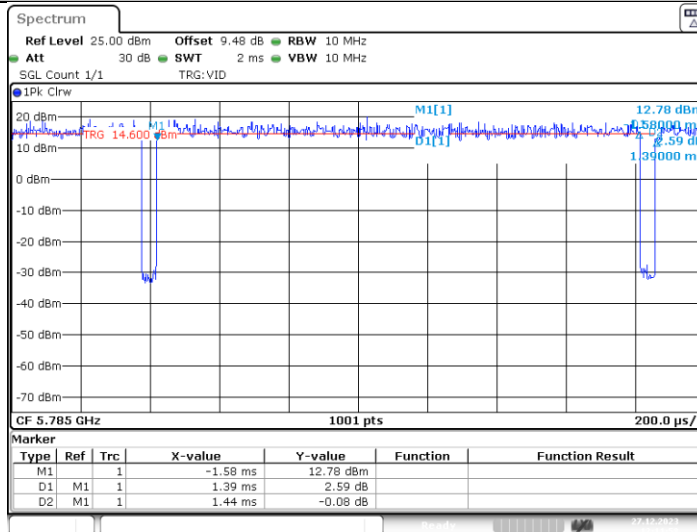


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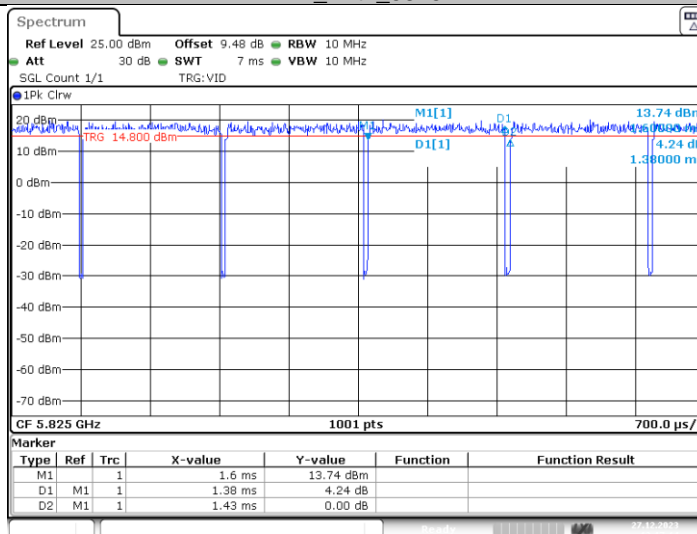
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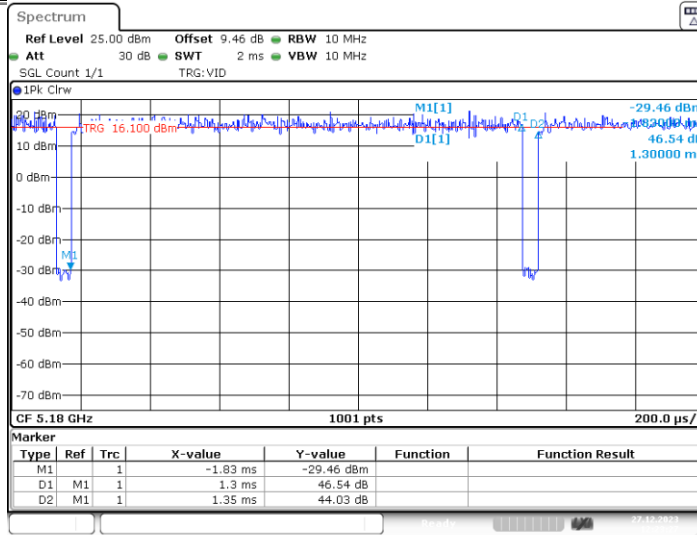
11A_Ant1_5785



11A_Ant1_5825

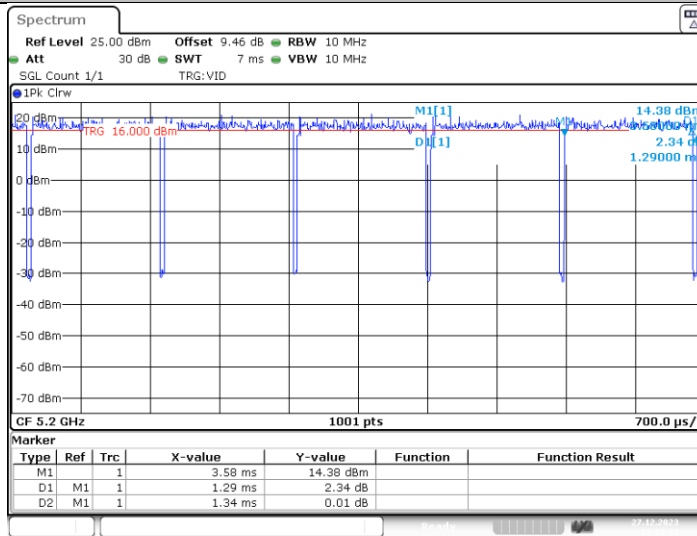


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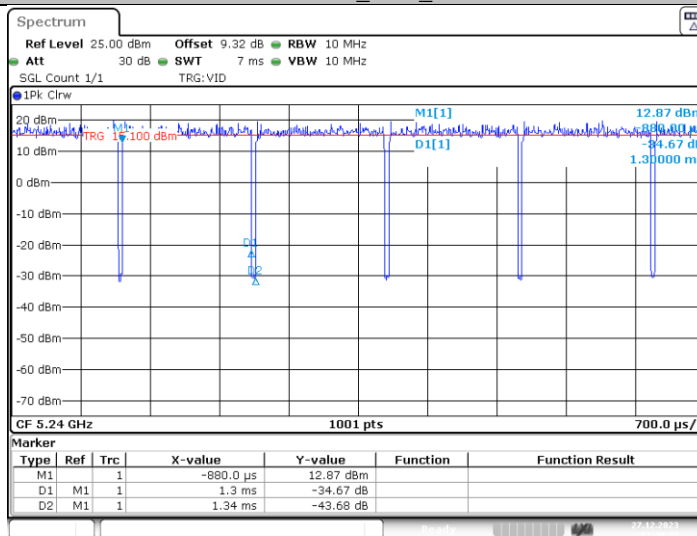
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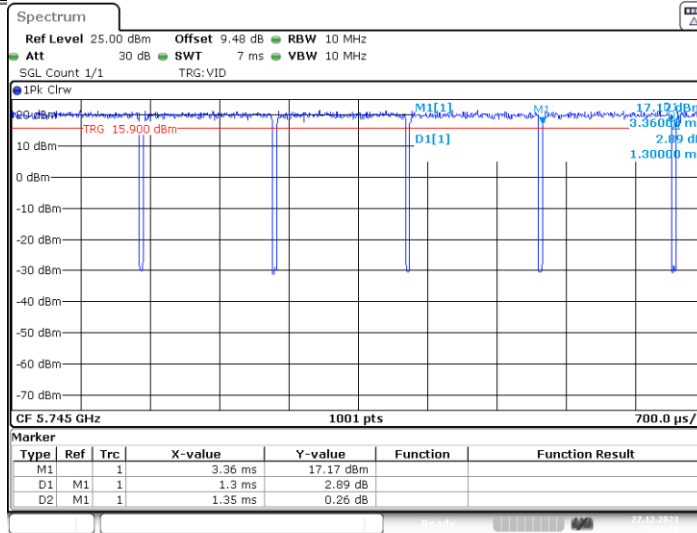
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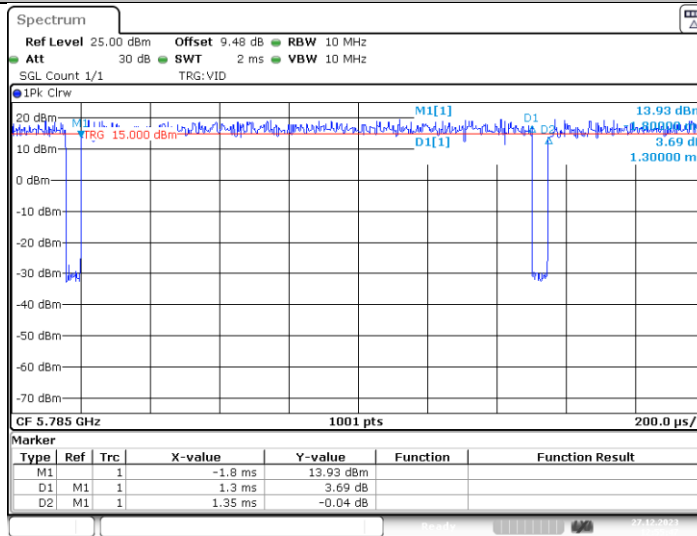
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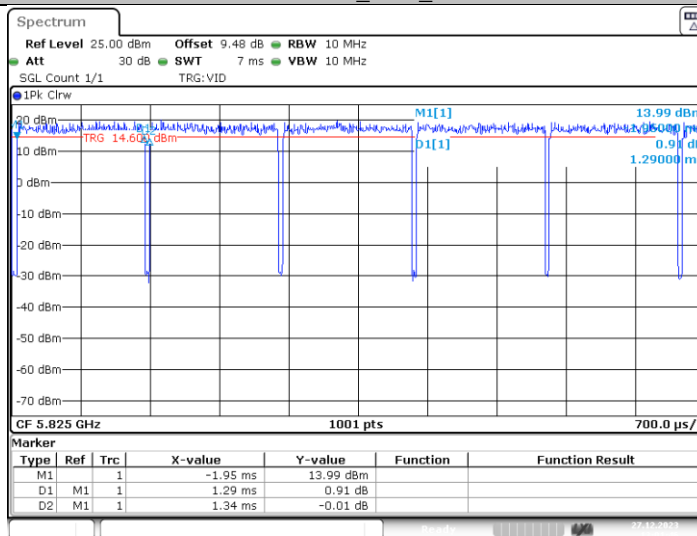
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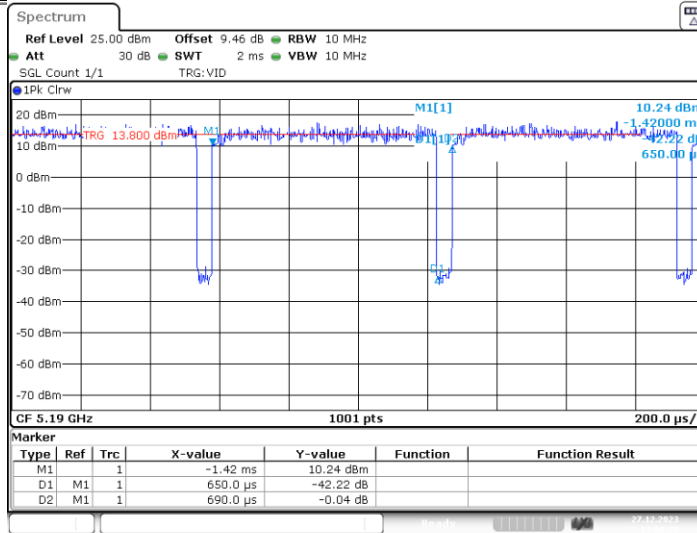
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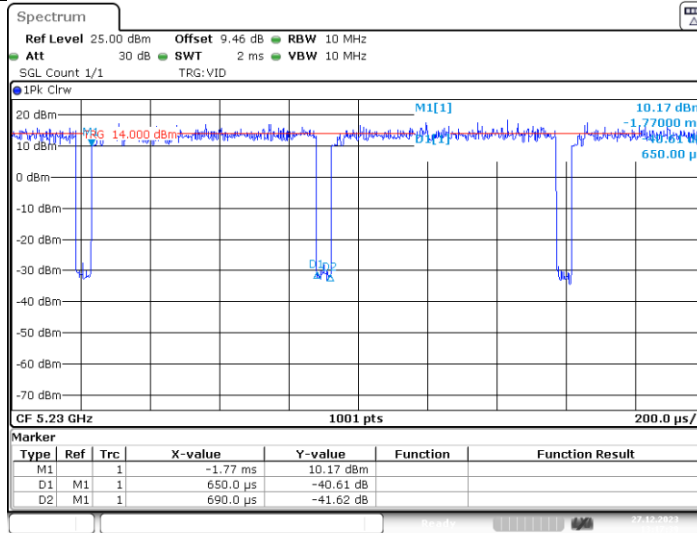


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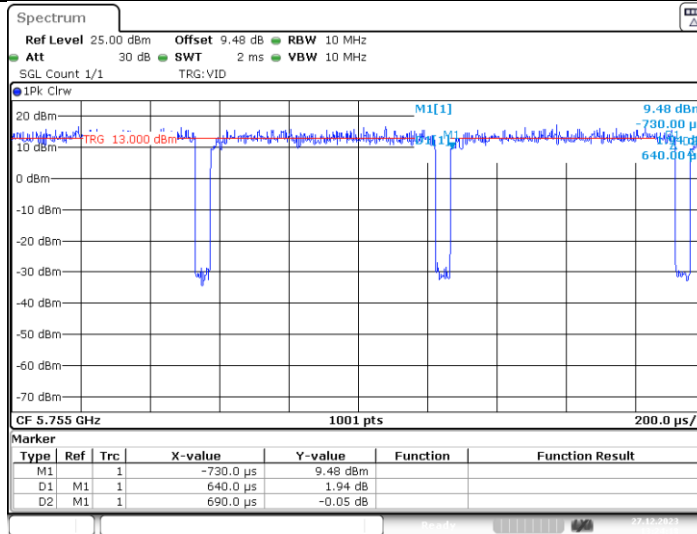
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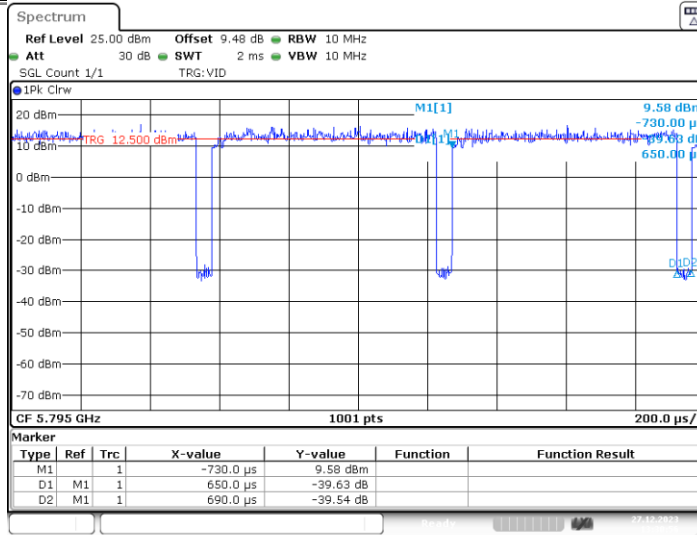
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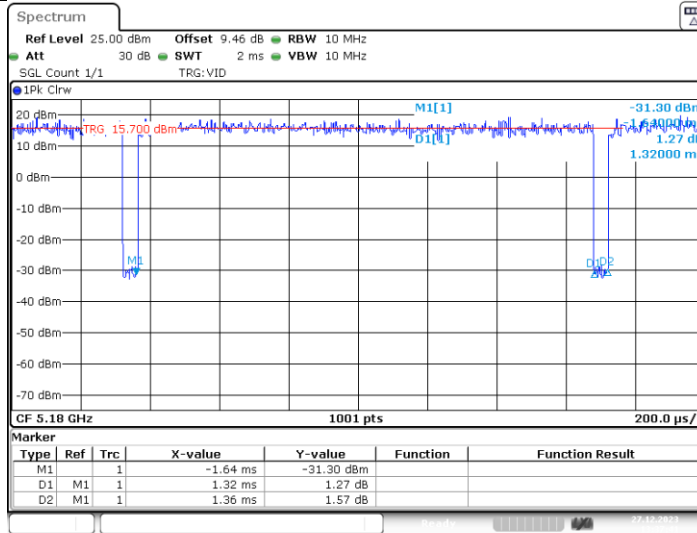


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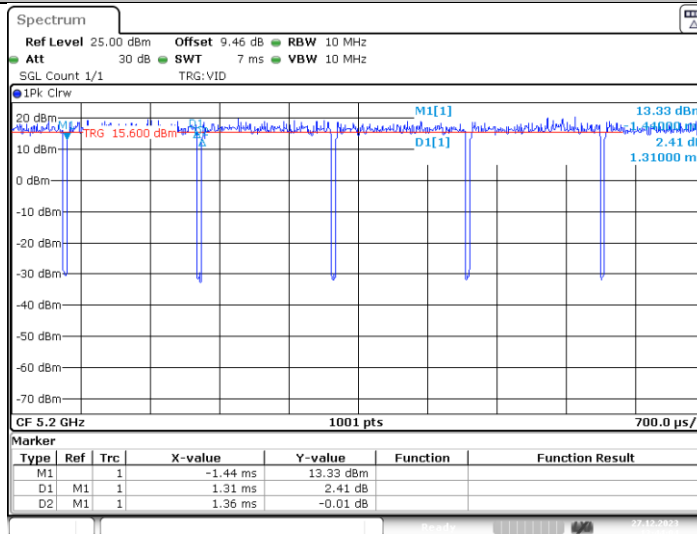
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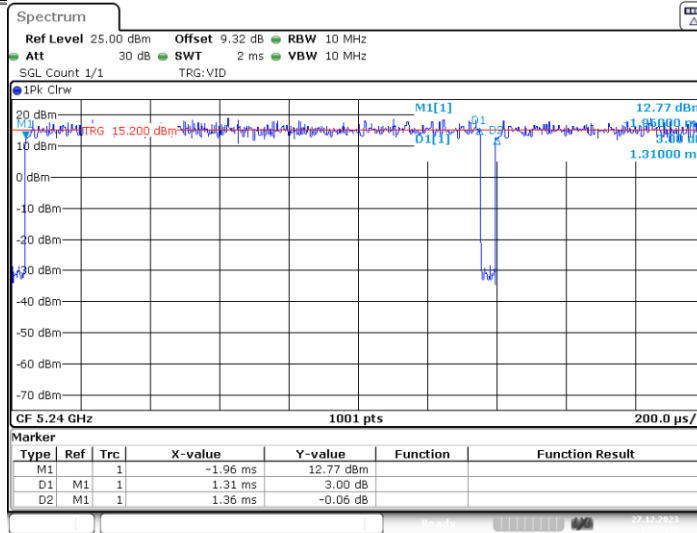
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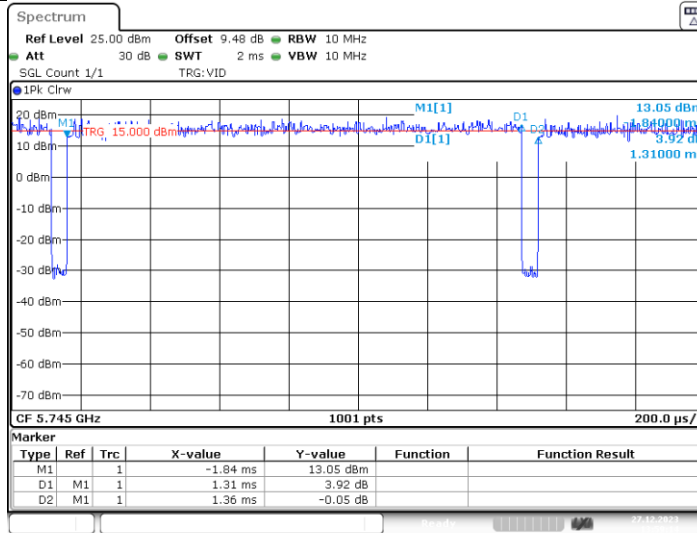
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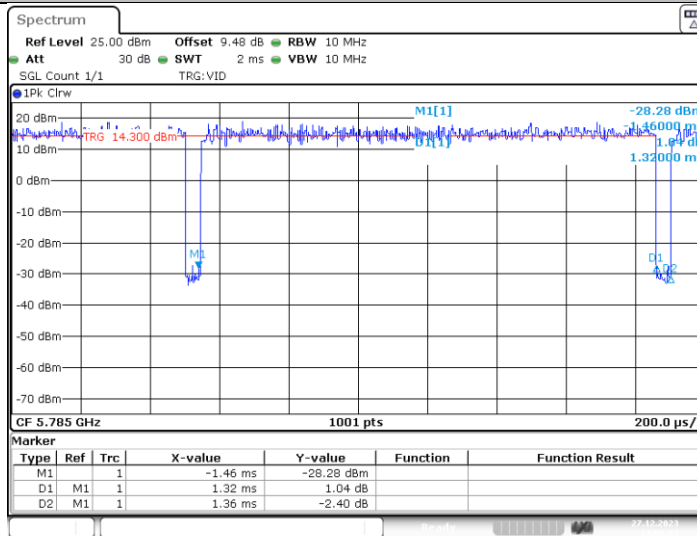
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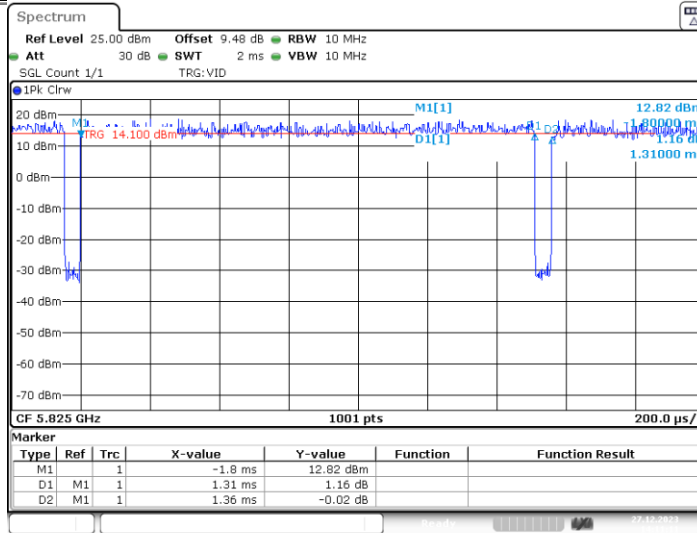
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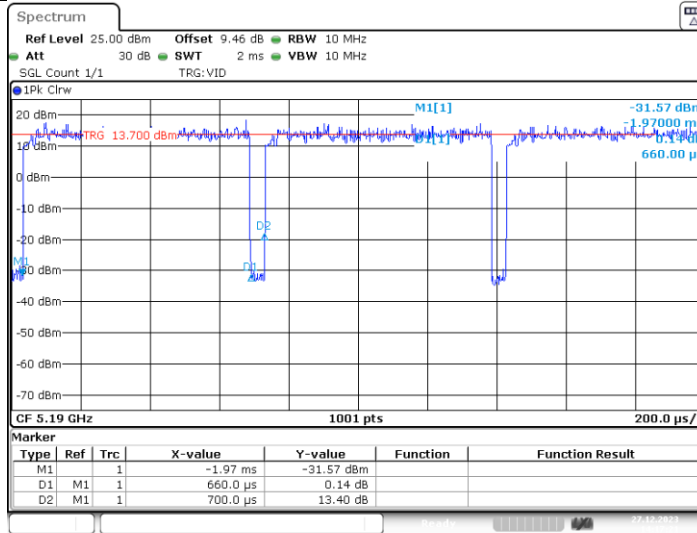
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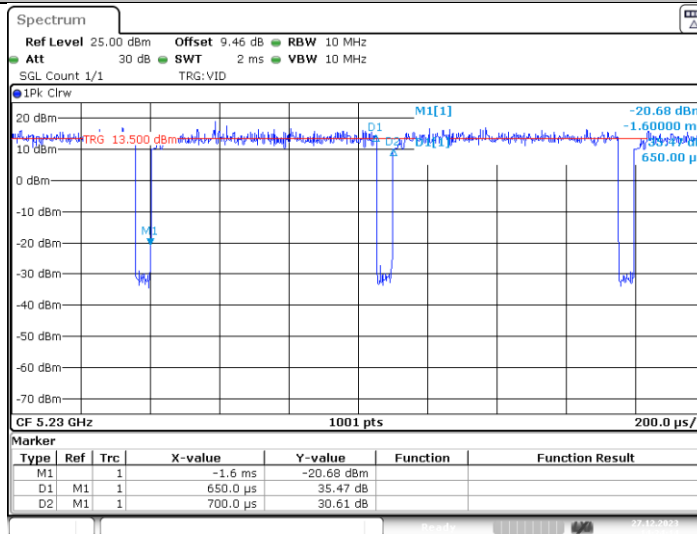
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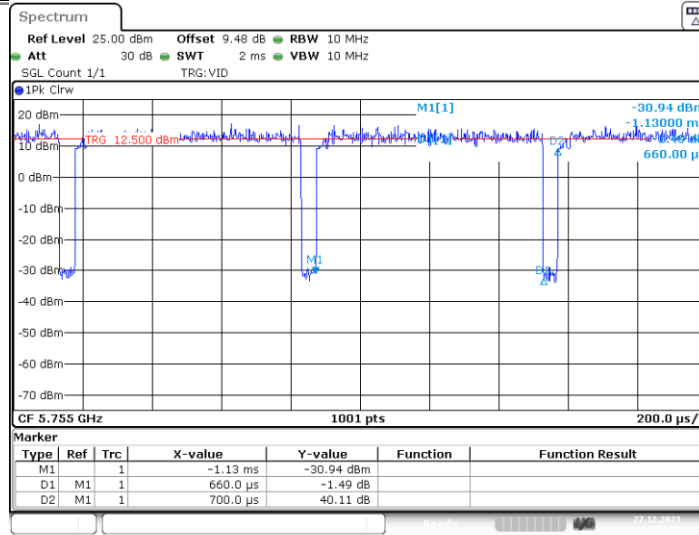
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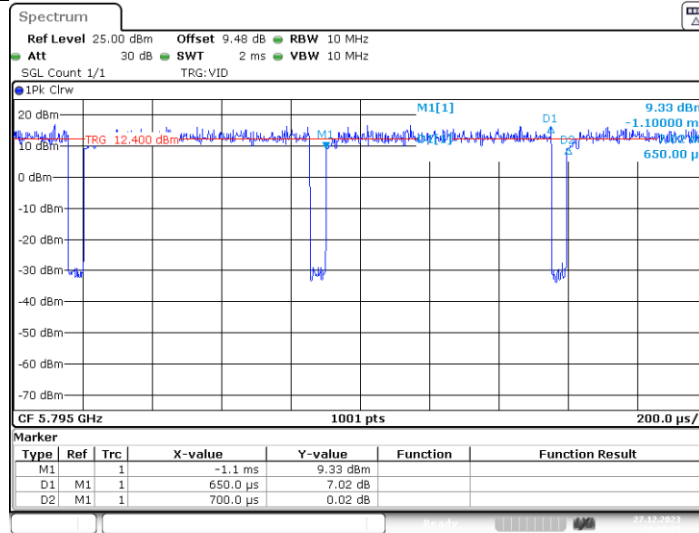
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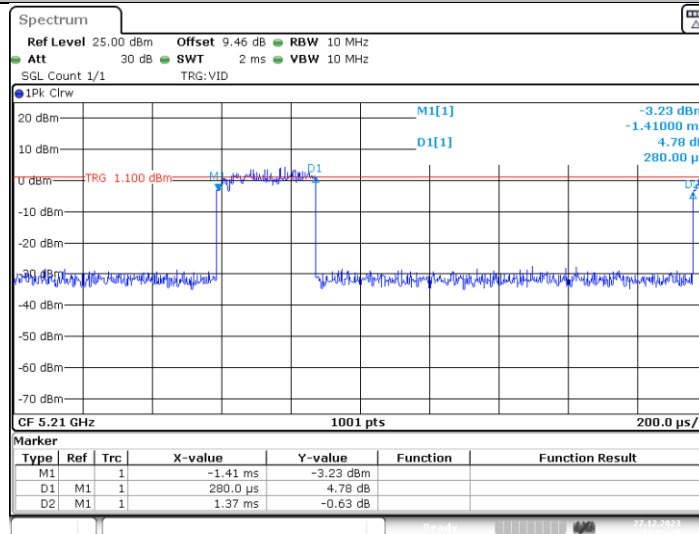
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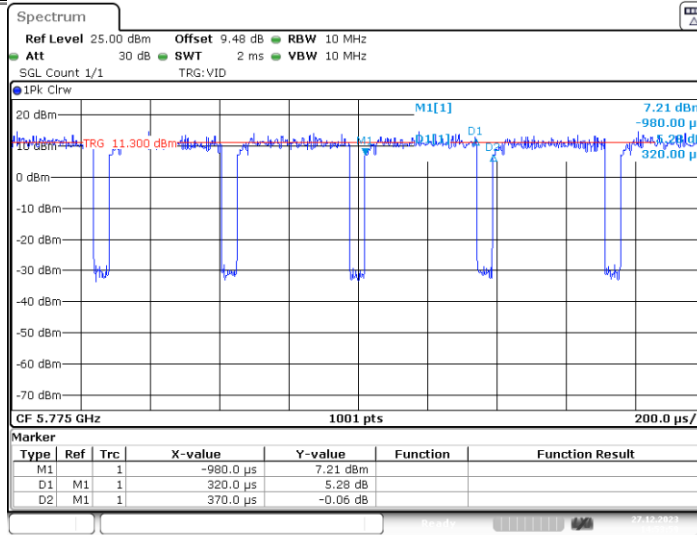
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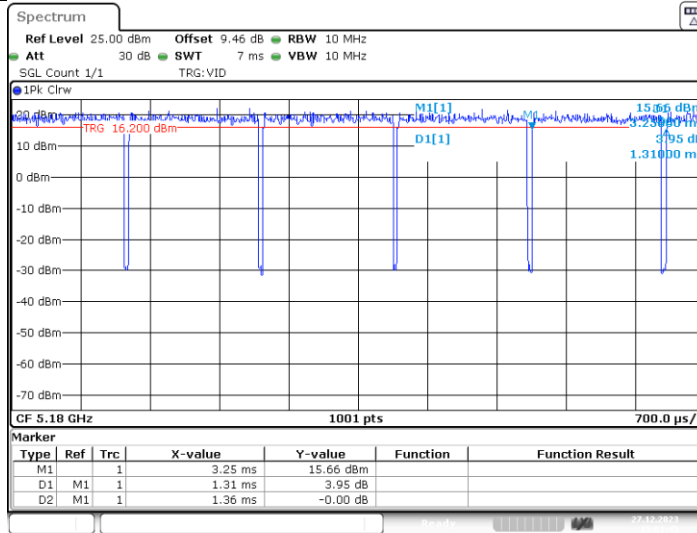
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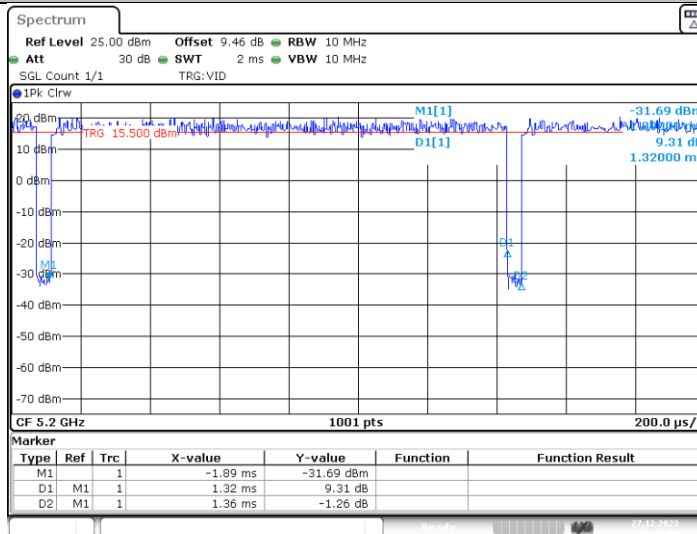
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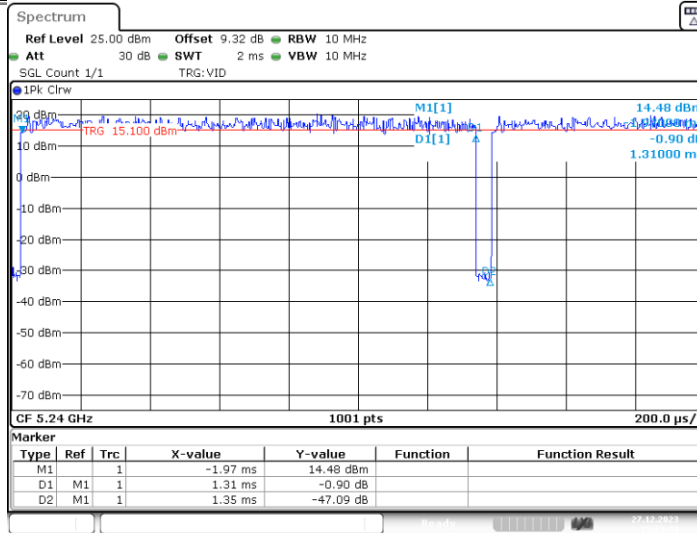
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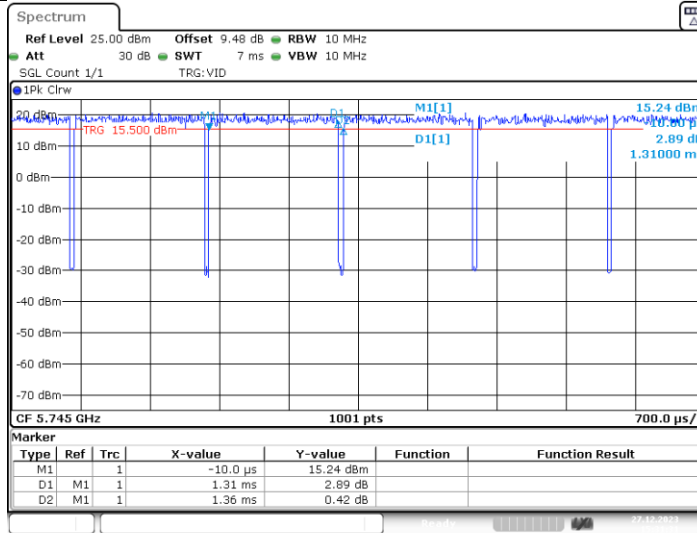
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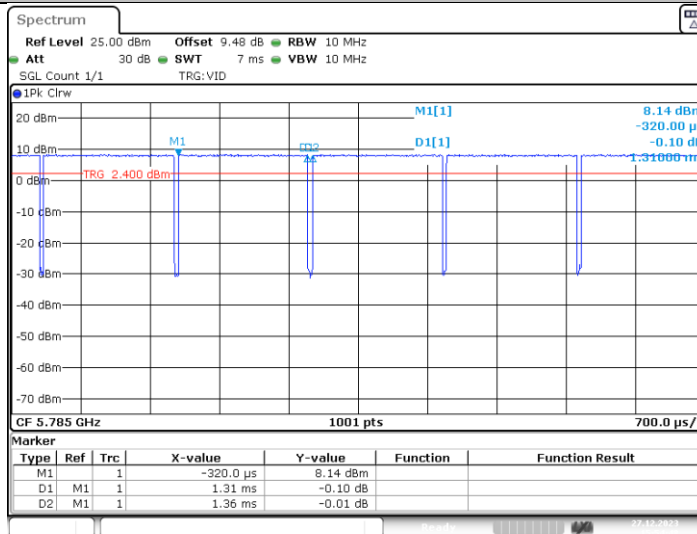
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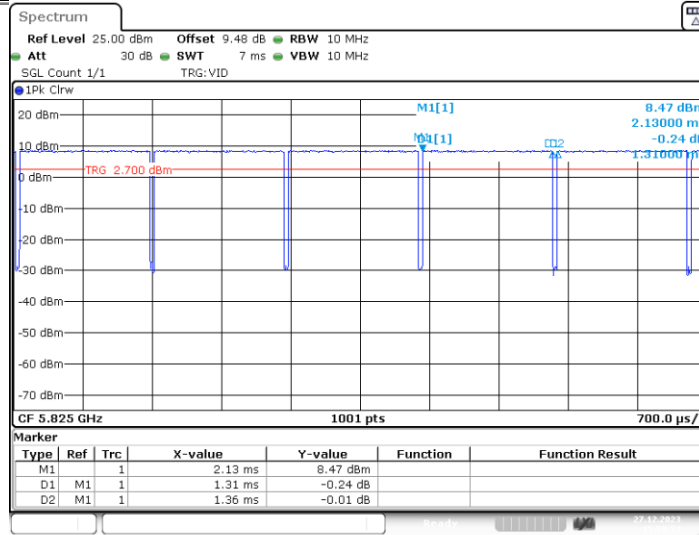
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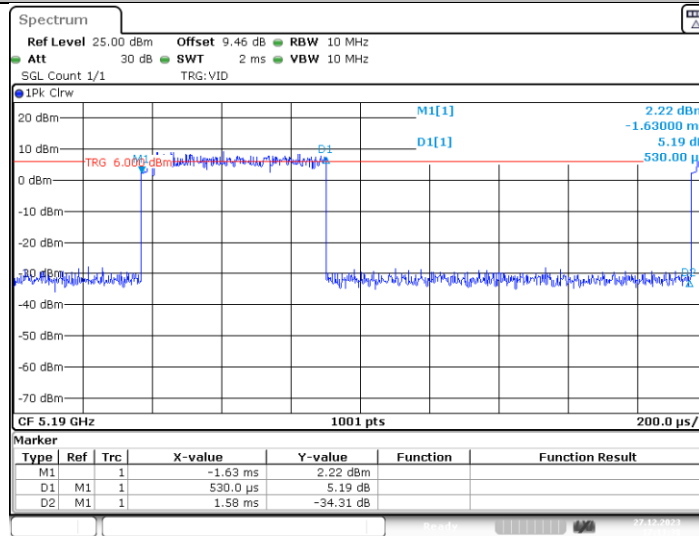
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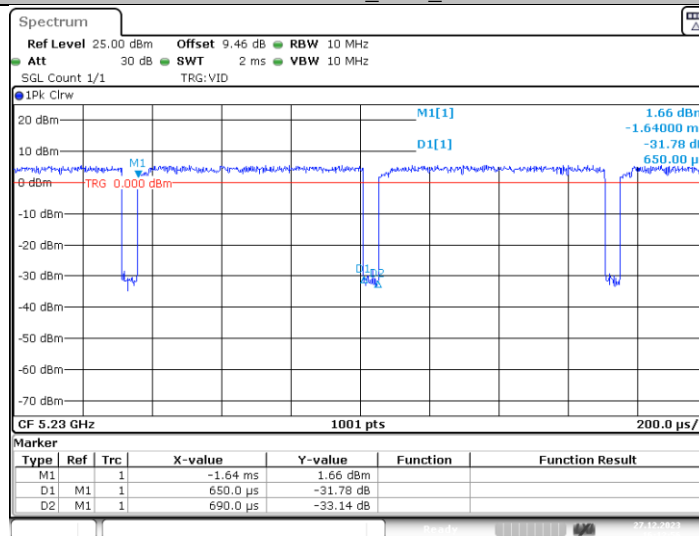
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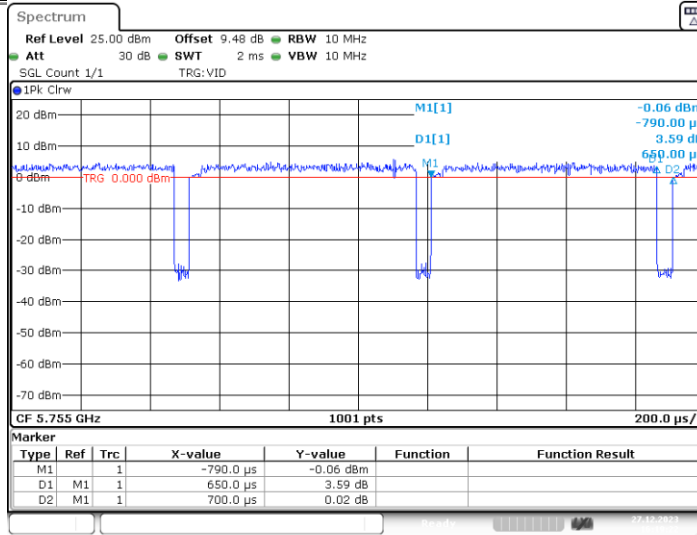
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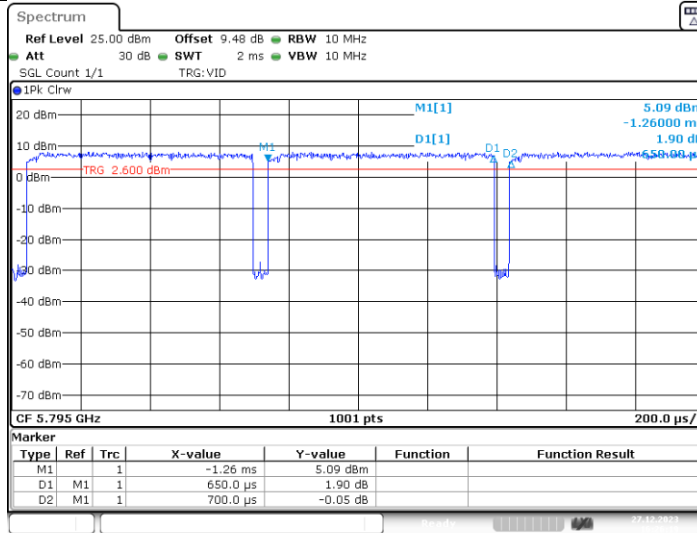
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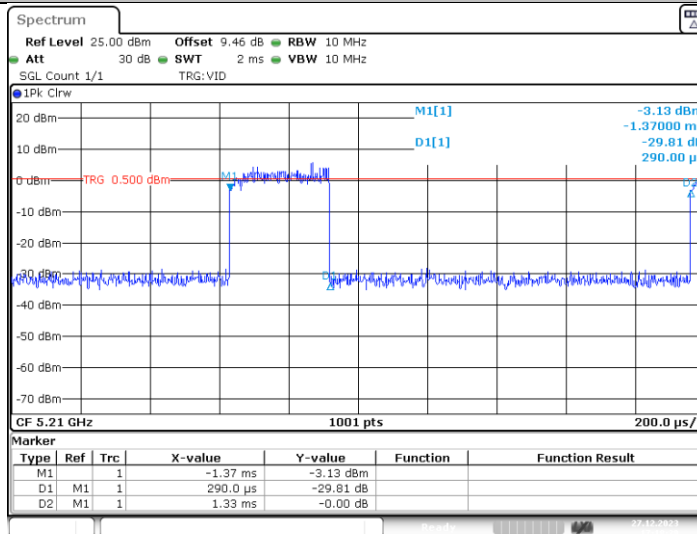
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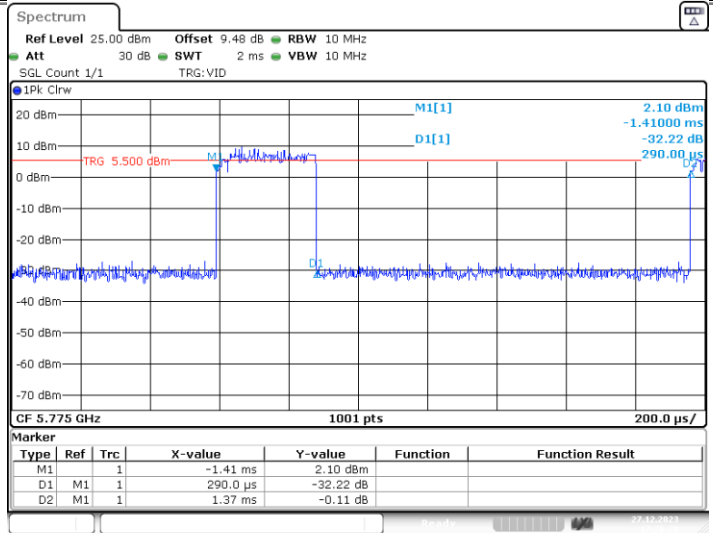
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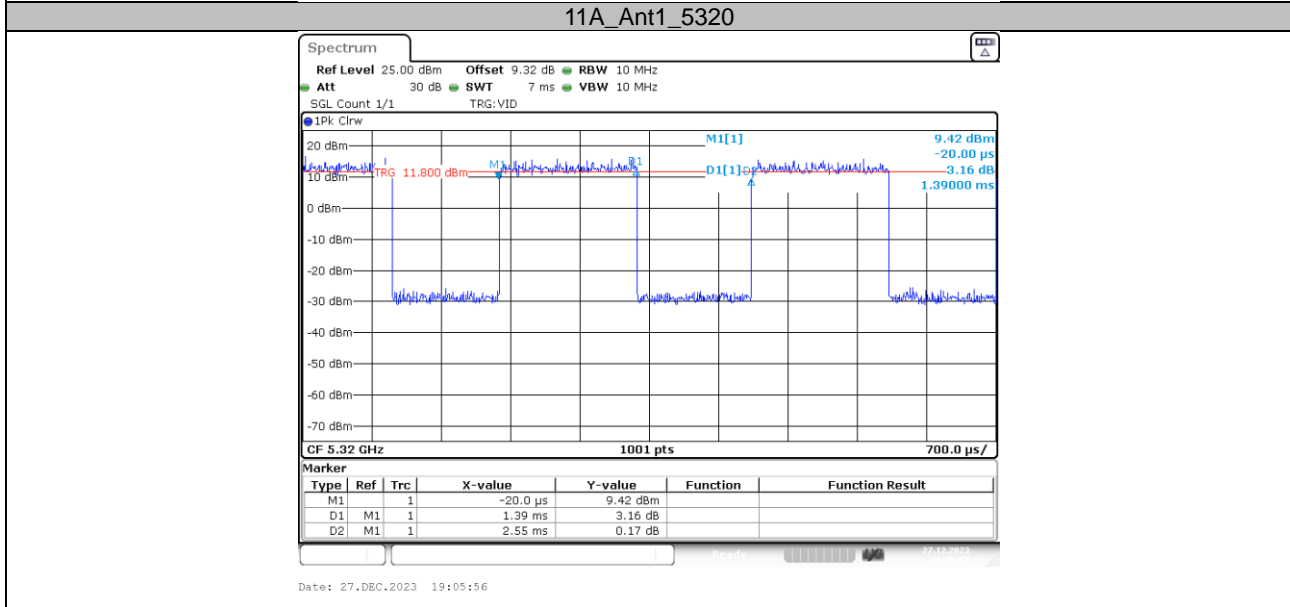
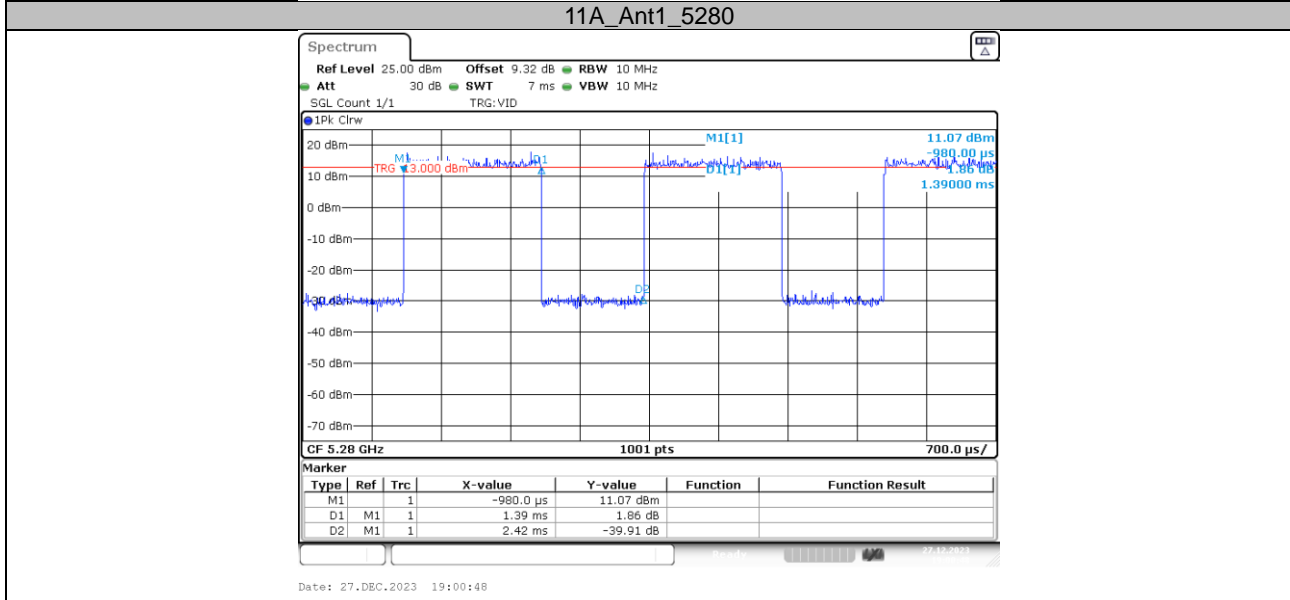
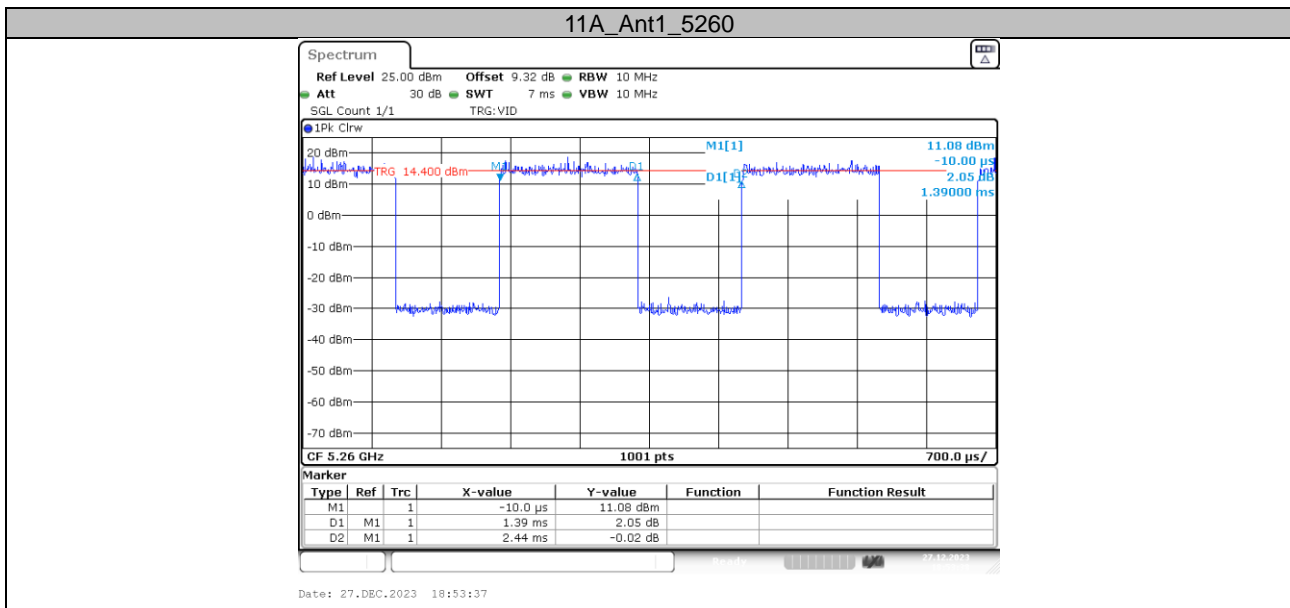


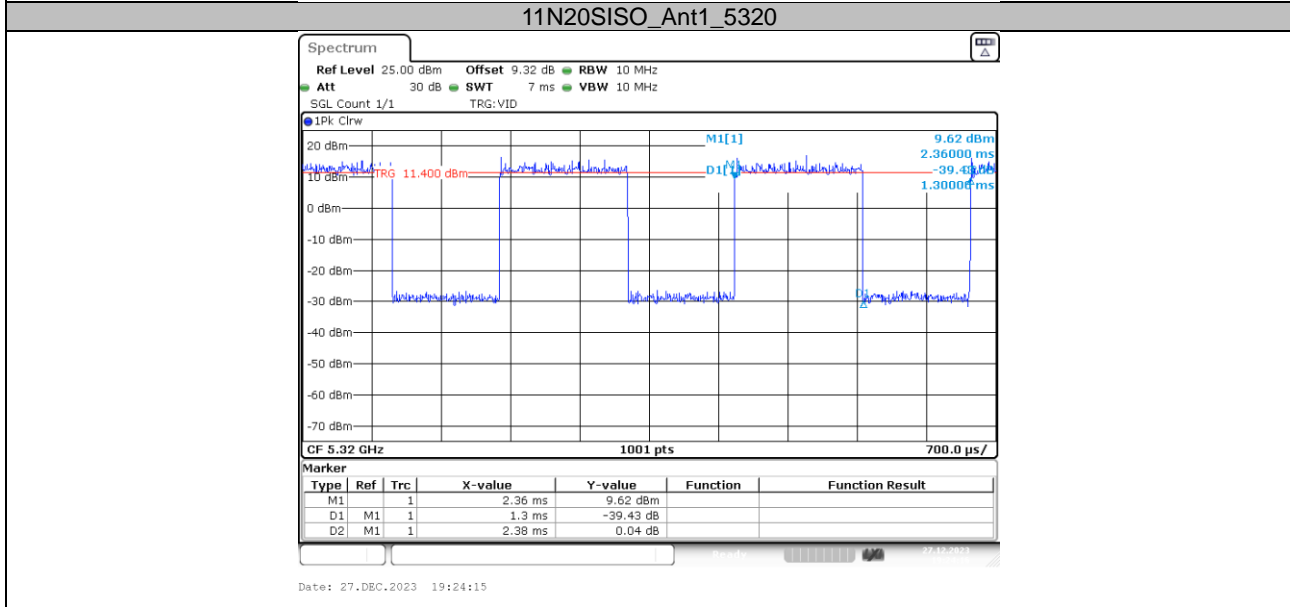
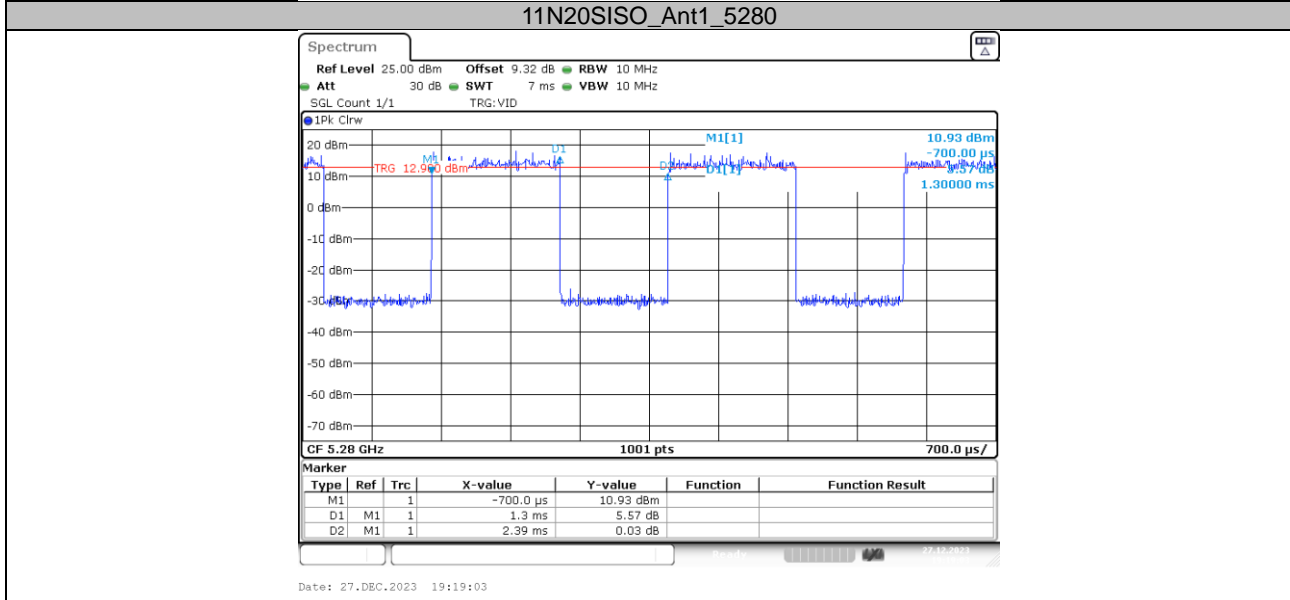
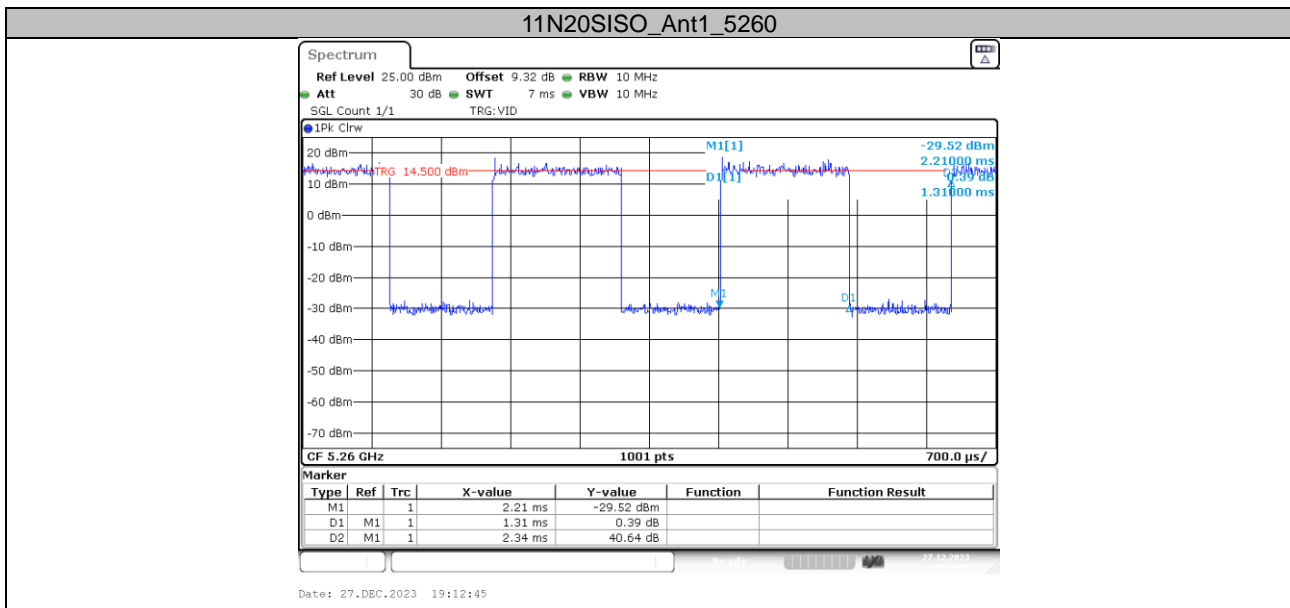
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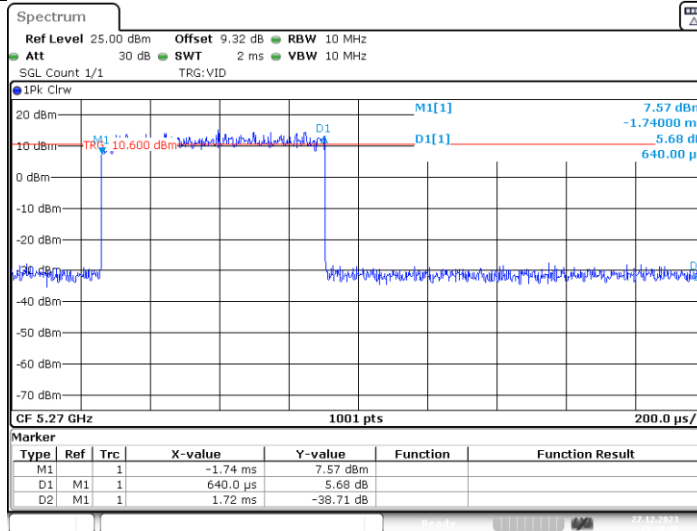


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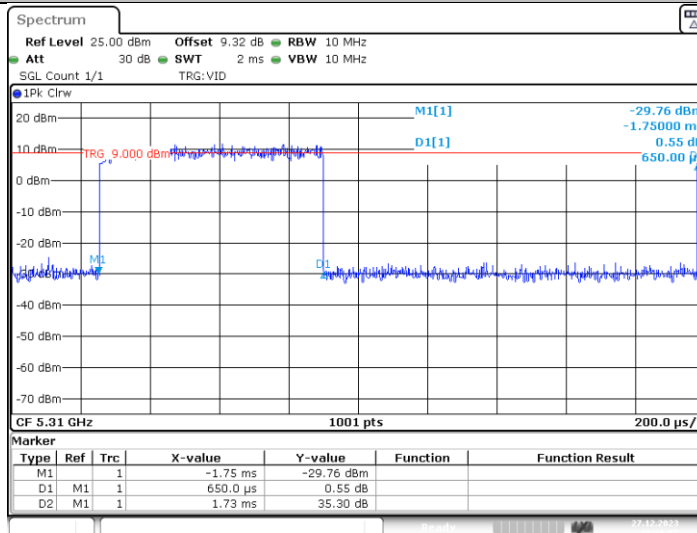


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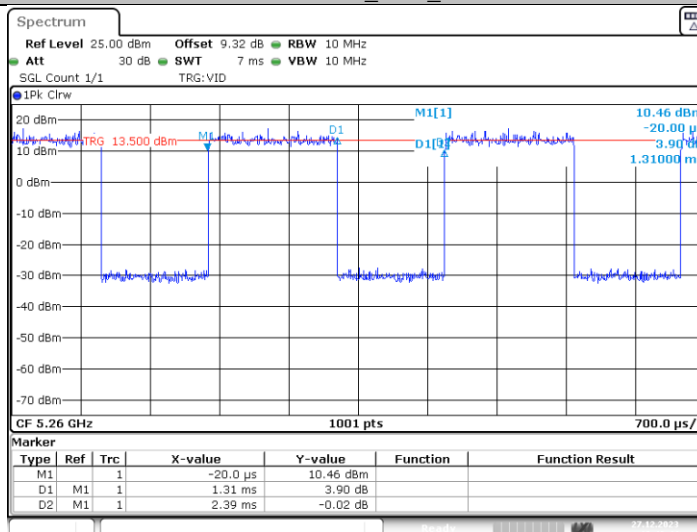
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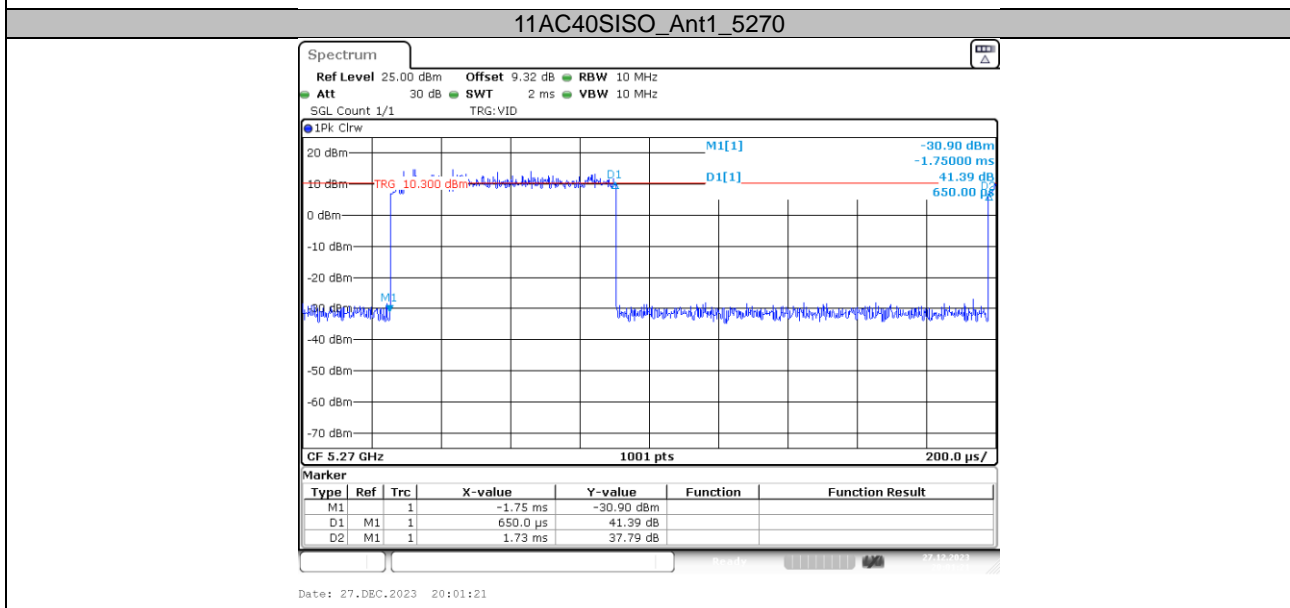
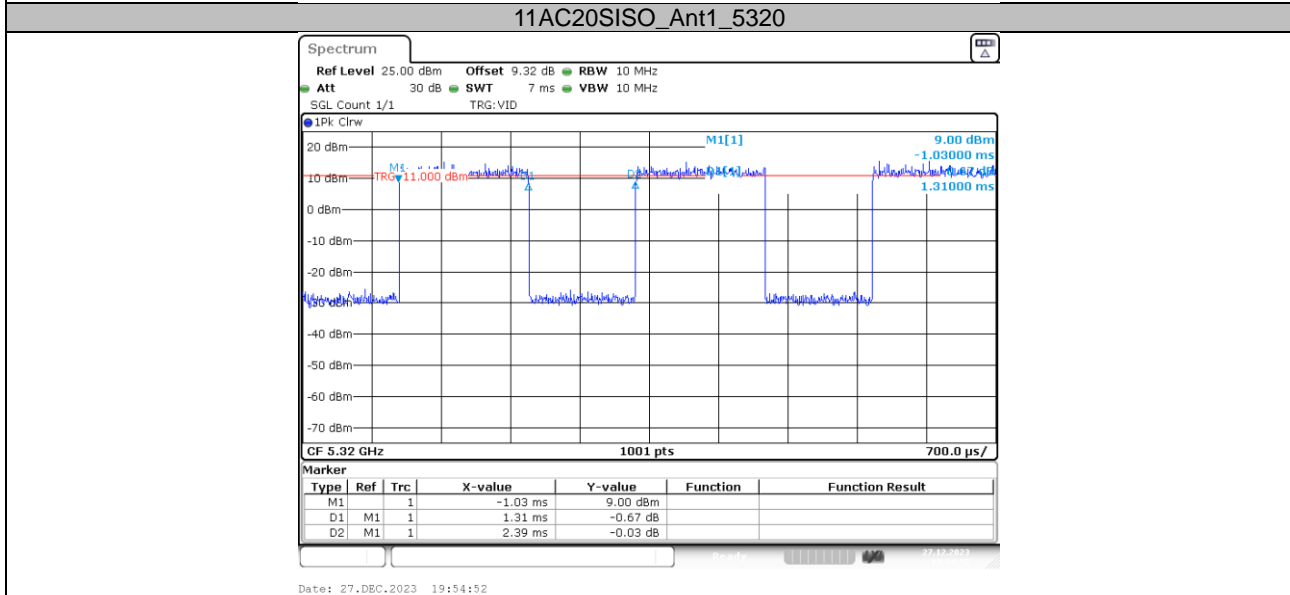
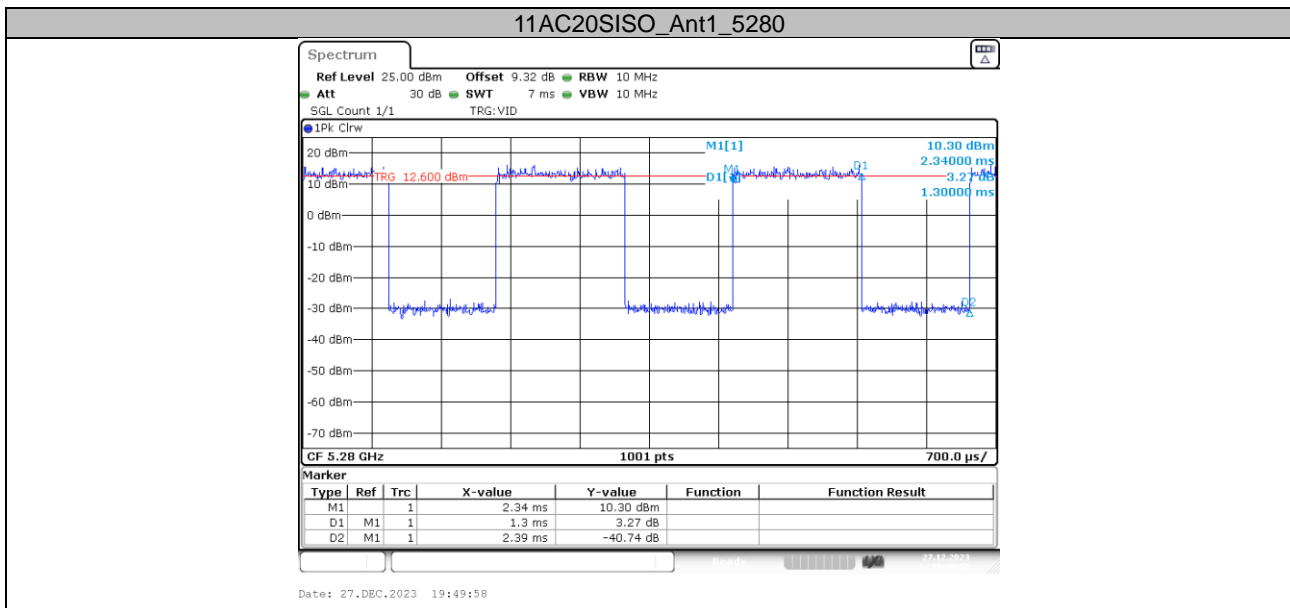


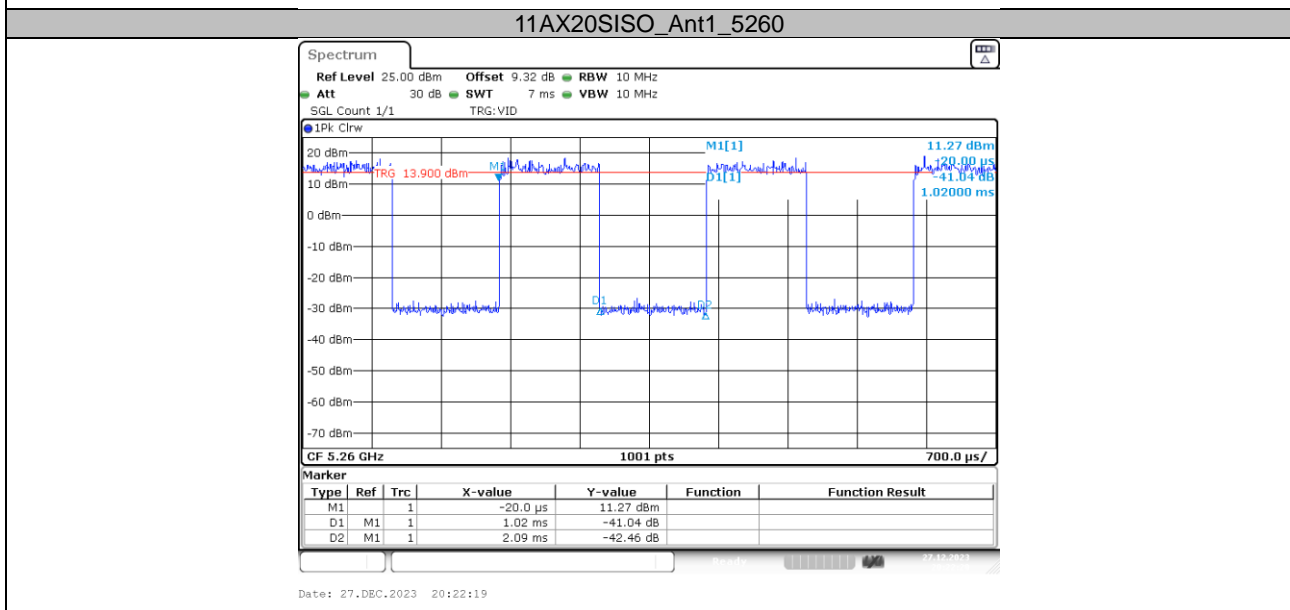
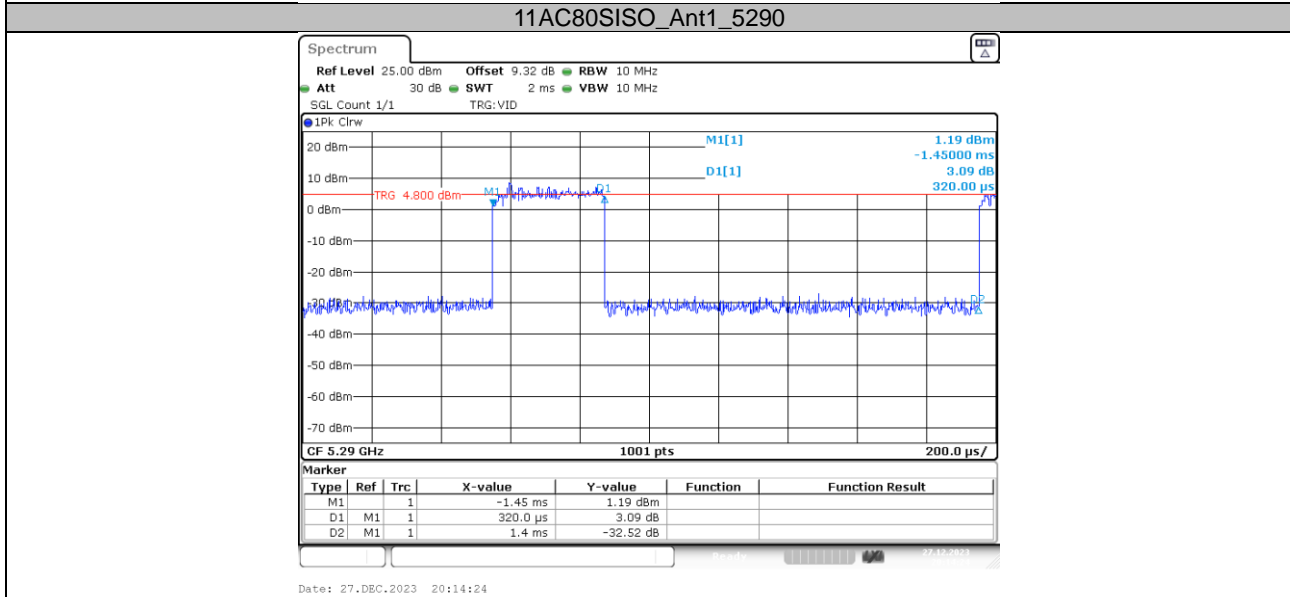
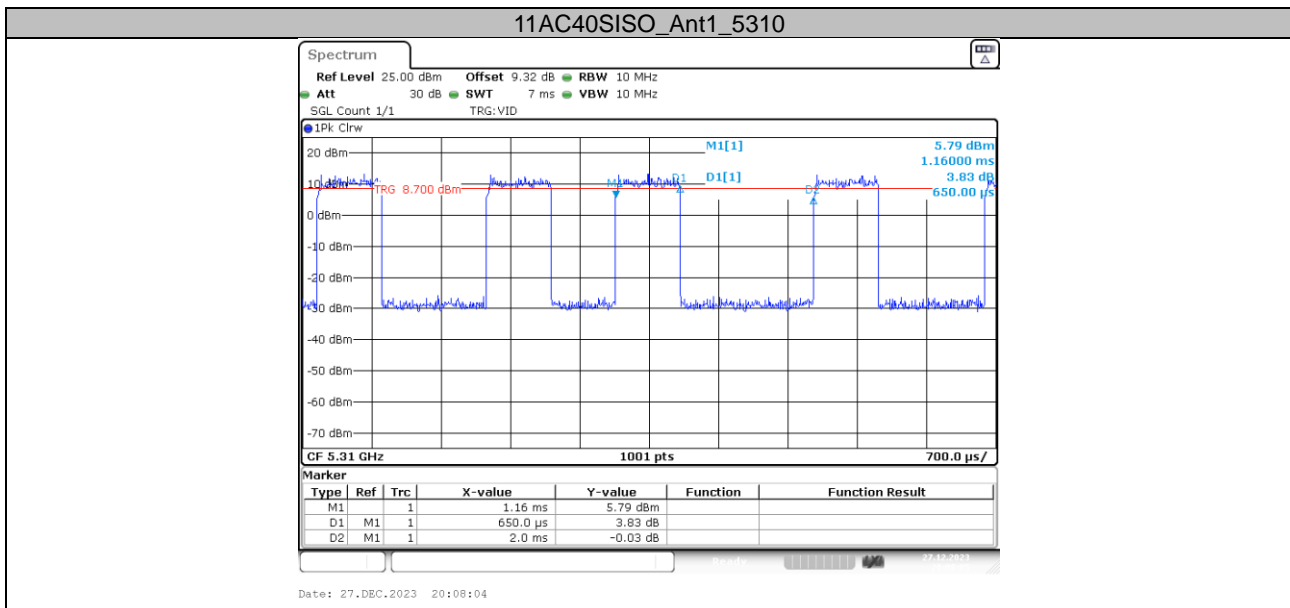
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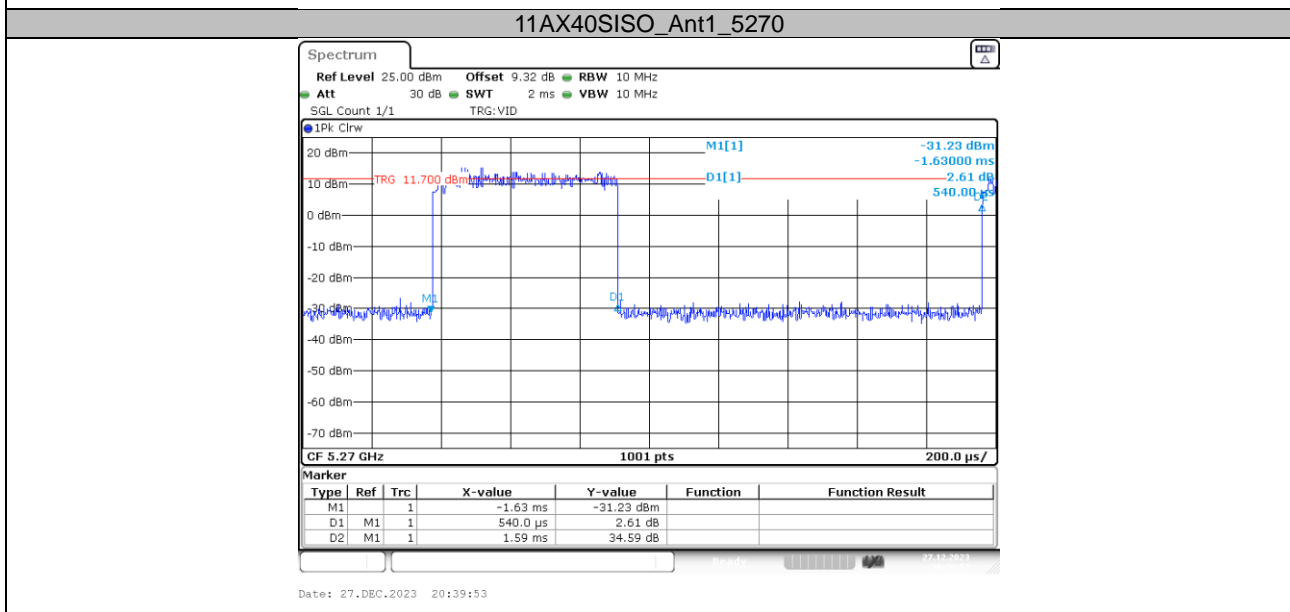
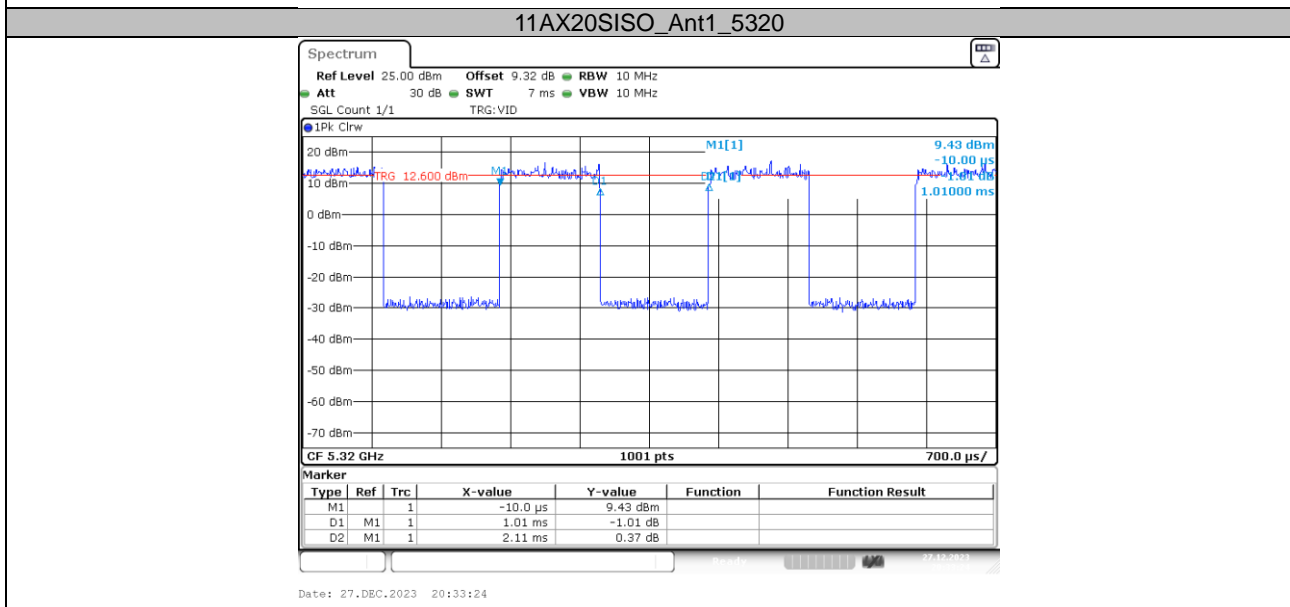
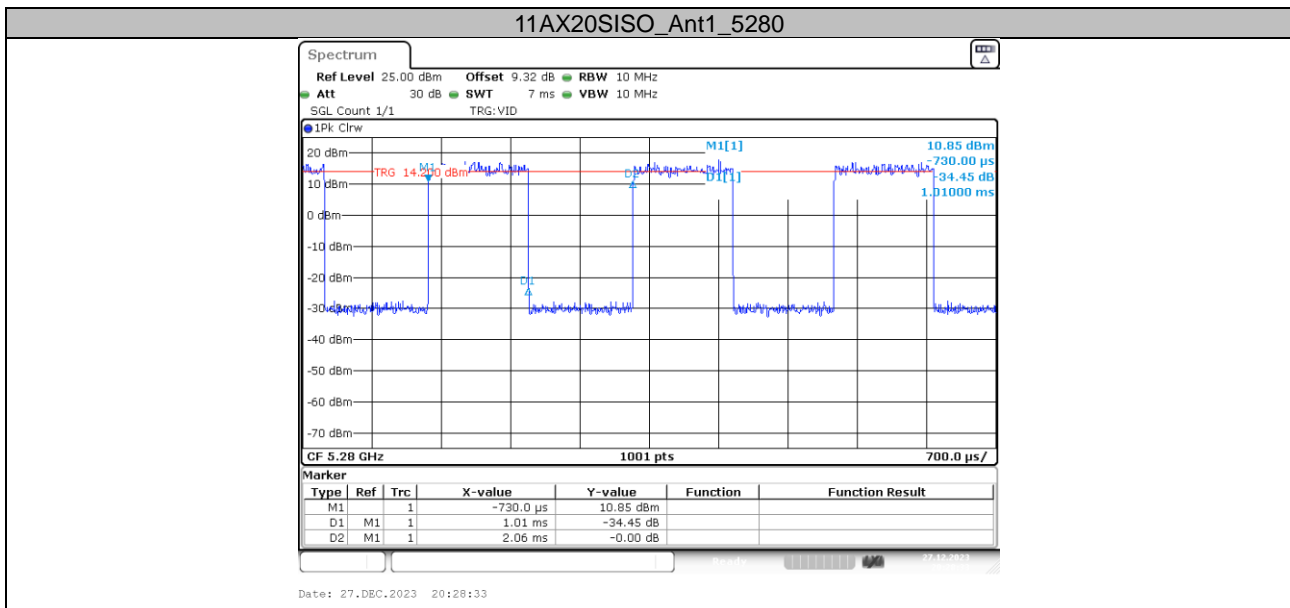
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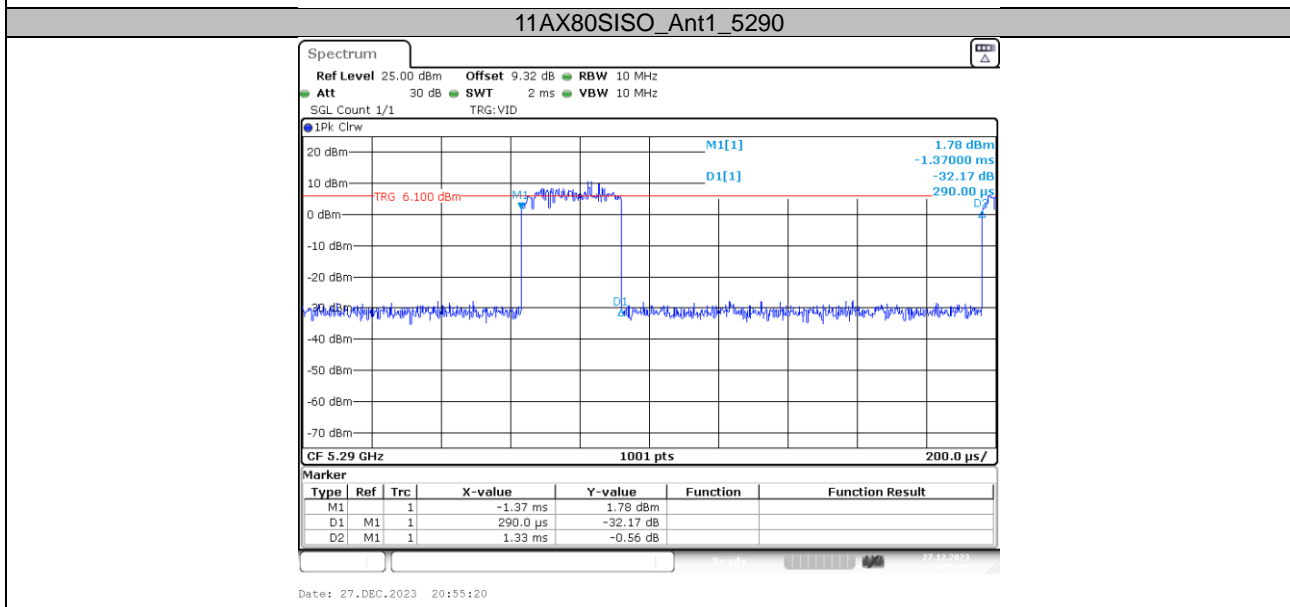
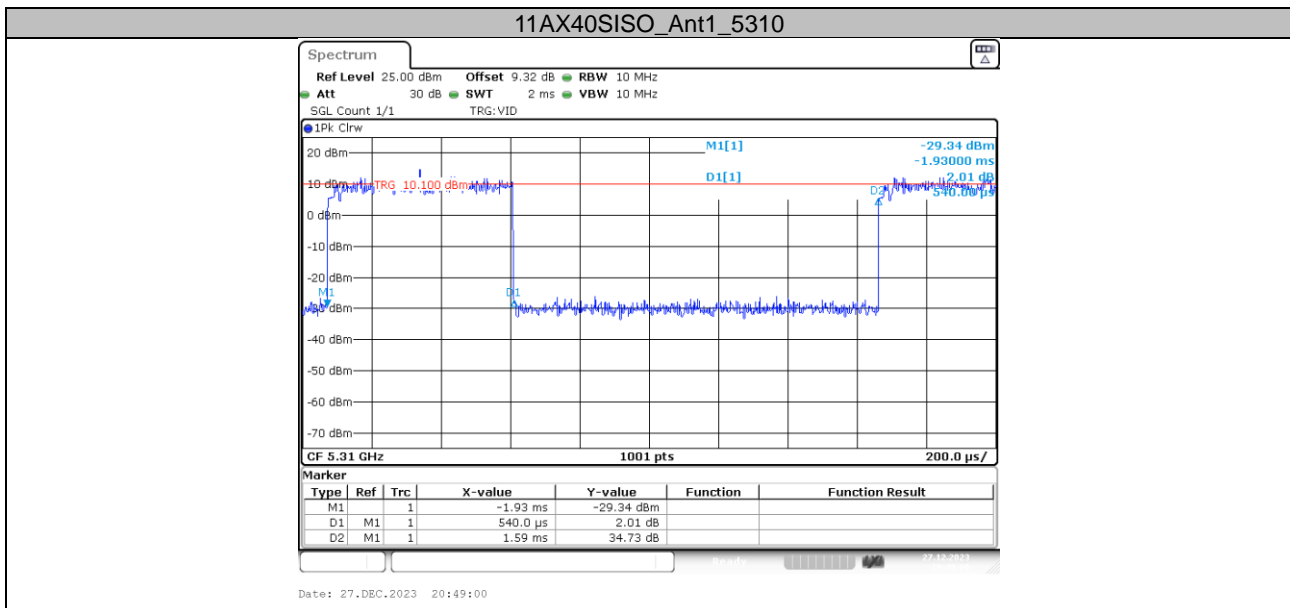


Date: 27.DEC.2023 19:43:44









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%).

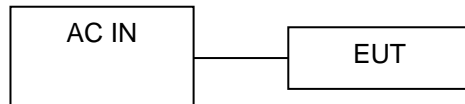
For IEEE 802.11ac(VHT80):

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%).

For IEEE 802.11ax(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	/	/	/	/

2.6 Ancillary Equipment Details

No.	Description	Manufacturer	Model	Serial Number	Certification or SDoC
1.	Notebook PC	Lenovo	ThinkPad S3-S440	N/A	N/A

3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

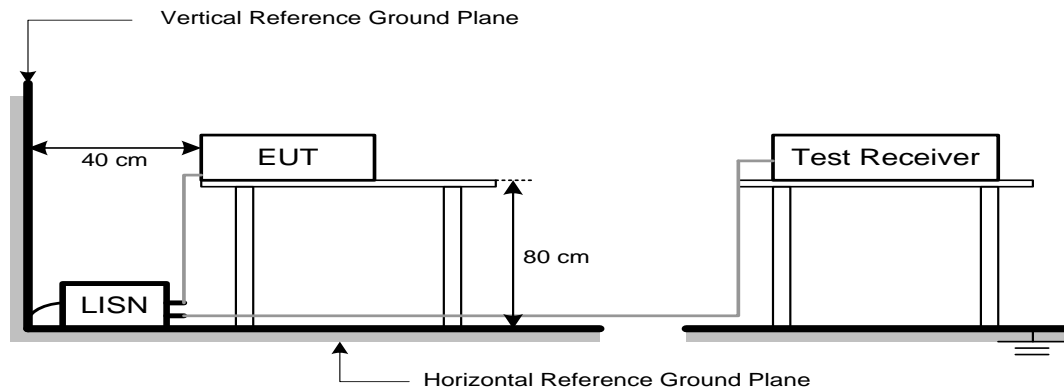
The following table is the setting of the receiver:

Receiver Parameter	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.3 DEVIATION FROM TEST STANDARD

No deviation

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT was programmed to be in continuously transmitting/TX mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

4. RADIATED EMISSIONS

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS (Above 1000 MHz)

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBµV/m)
5150-5250	-27	68.2
5250-5350	-27	68.2
5470-5725	-27	68.2
5725-5850 NOTE (2)	-27	68.2
	10	105.2
	15.6	110.8
	27	122.2

NOTE:

(1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

(2) According to 15.407(b)(4)(i), all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

4.2 TEST PROCEDURE

- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic or 40 GHz, whichever is lower
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

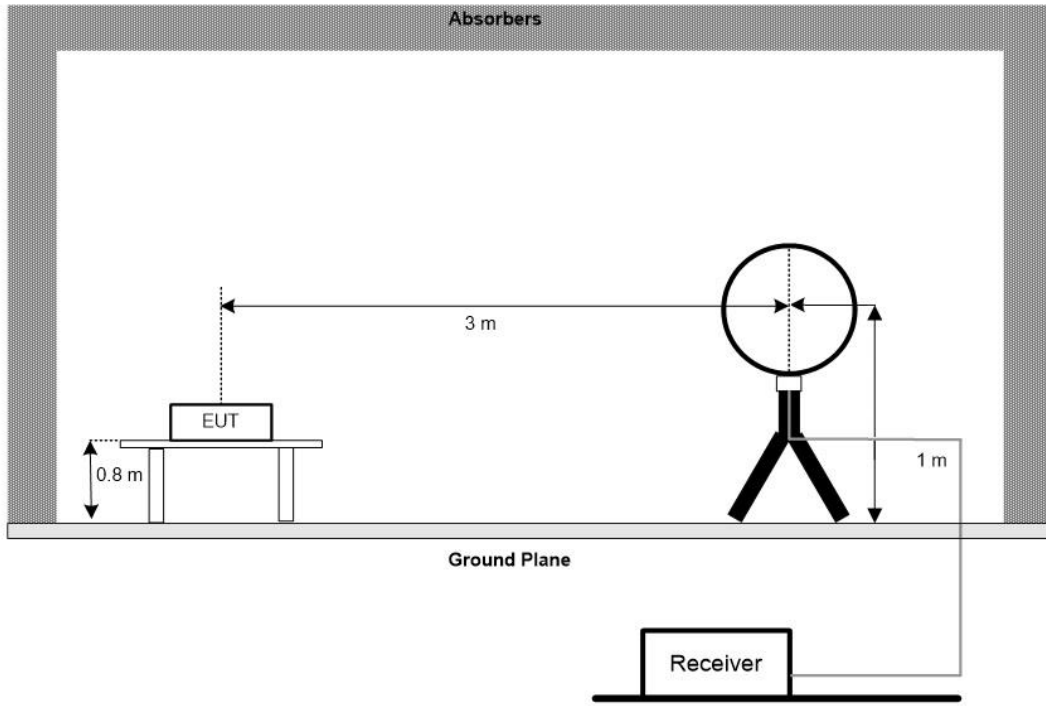
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~40 GHz for PK/AVG detector

4.3 DEVIATION FROM TEST STANDARD

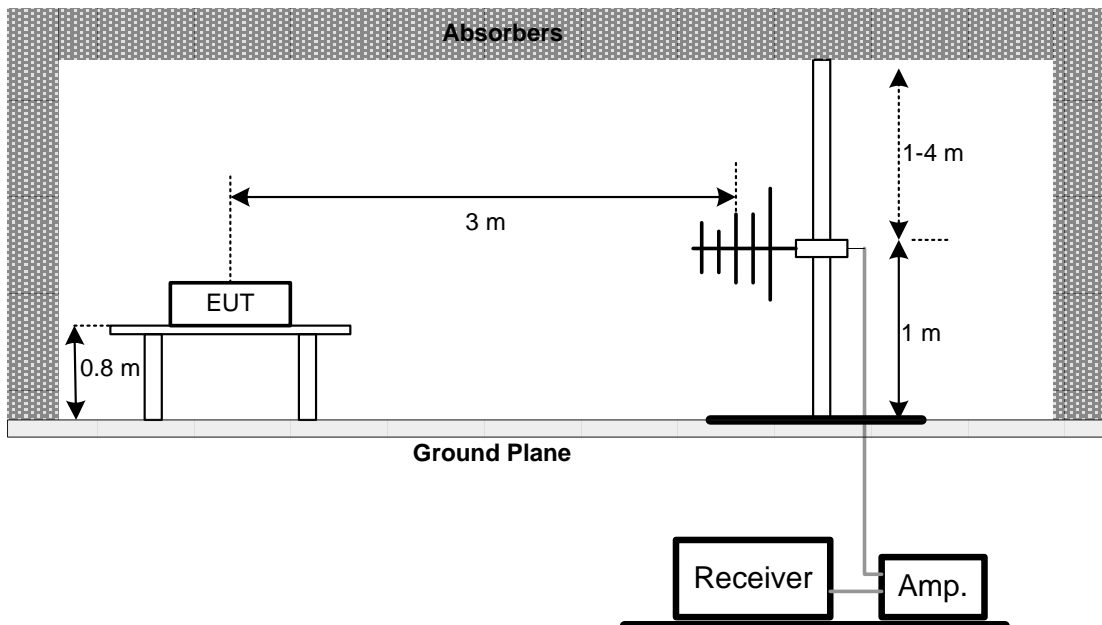
No deviation.

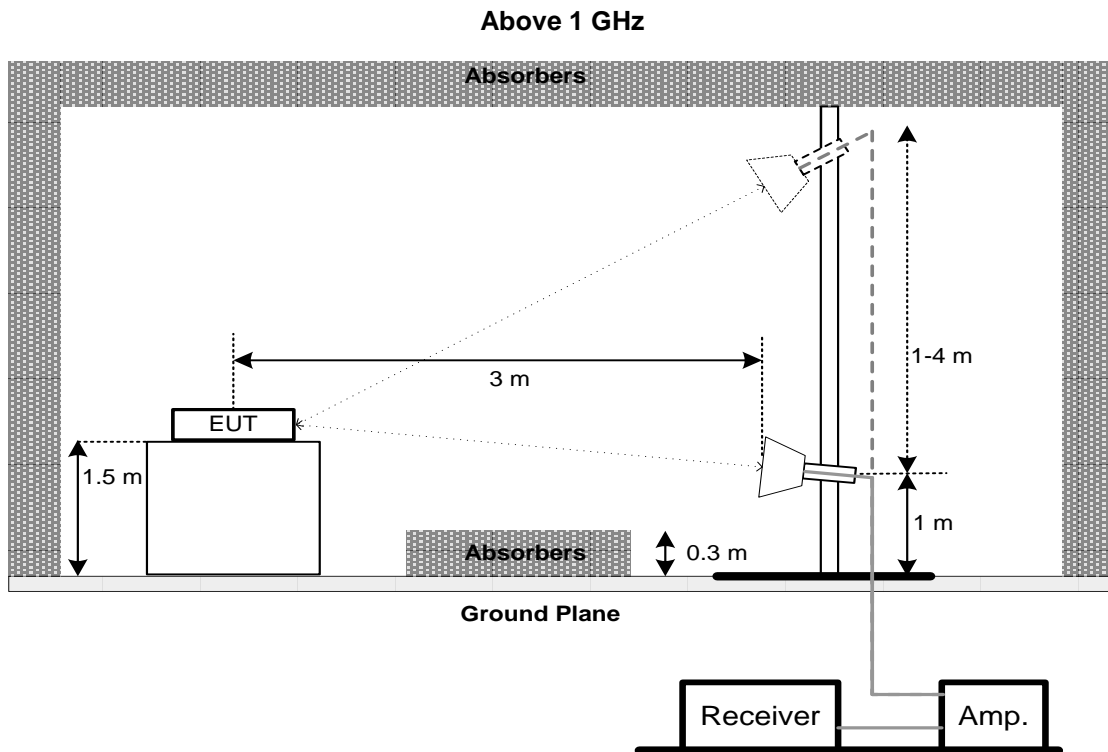
4.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5. BANDWIDTH

5.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a) FCC 15.407(e)	26 dB Bandwidth	-	5150-5250
	26 dB Bandwidth	-	5250-5350
	26 dB Bandwidth	-	5470-5725
	6 dB Bandwidth	Minimum 500 kHz	5725-5850

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below
- b. Spectrum Setting:
For UNII-1& For UNII-2A

Spectrum Parameter	Setting
Span Frequency	> 26 dB Bandwidth
RBW	1MHz
VBW	3MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For UNII-3:

Spectrum Parameter	Setting
Span Frequency	> 6 dB Bandwidth
RBW	500kHz
VBW	2MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For 99% Occupied Bandwidth:

Spectrum Parameter	Setting
Span Frequency	1.5 times to 5 times the OBW
RBW	1% to 5% of the OBW
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- c. Measured the spectrum width with power higher than 26 dB / 6 dB below carrier.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP**5.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM OUTPUT POWER

6.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	Maximum Output Power	AP device: 1 Watt (30 dBm) Client device: 250 mW (23.98 dBm)	5150-5250
		250 mW (23.98 dBm)	5250-5350
		250 mW (23.98 dBm)	5470-5725
		1 Watt (30dBm)	5725-5850

Note:

- a. For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- b. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26dB Bandwidth in megahertz.

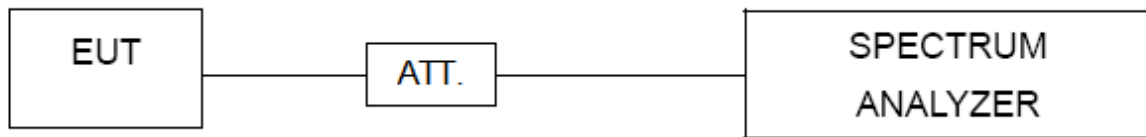
6.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F.

7. POWER SPECTRAL DENSITY

7.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	Power Spectral Density	AP device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250
		11 dBm/MHz	5250-5350
		11 dBm/MHz	5470-5725
		30 dBm/500 kHz	5725-5850

7.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting:
For UNII-1

Spectrum Parameter	Setting
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1 MHz.
VBW	3 MHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

For UNII-3:

Spectrum Parameter	Setting
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	500 kHz.
VBW	2MHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 100kHz and VBW at 300kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add $10 \log (500 \text{ kHz}/100 \text{ kHz})$ to the measured result, i.e. 7 dB.
- During the test of UNII 3 PSD, the measurement result with RBW=100kHz has been added 7 dB by compensating offset. For example, the cable loss is 13 dB, and the final offset is $13 + 7 = 20 \text{ dB}$ when RBW=100kHz is used.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP**7.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX G.

8. FREQUENCY STABILITY

8.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(g)	Frequency Stability	An emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.	5150-5250
			5250-5350
			5470-5725
			5725-5850

8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting:

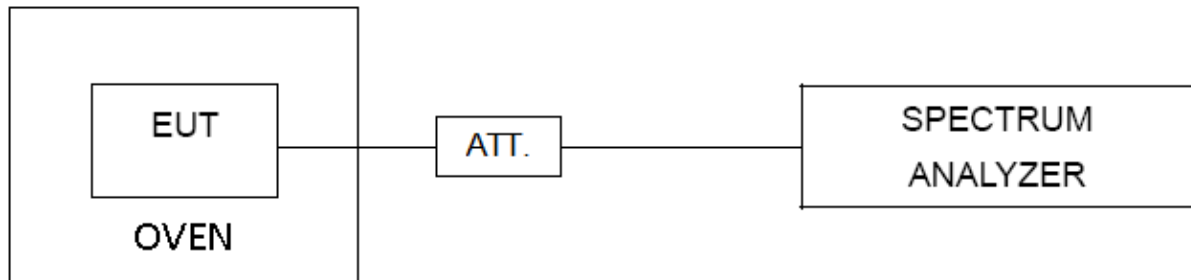
Spectrum Parameter	Setting
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- User manual temperature is -20°C~25°C.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Pass

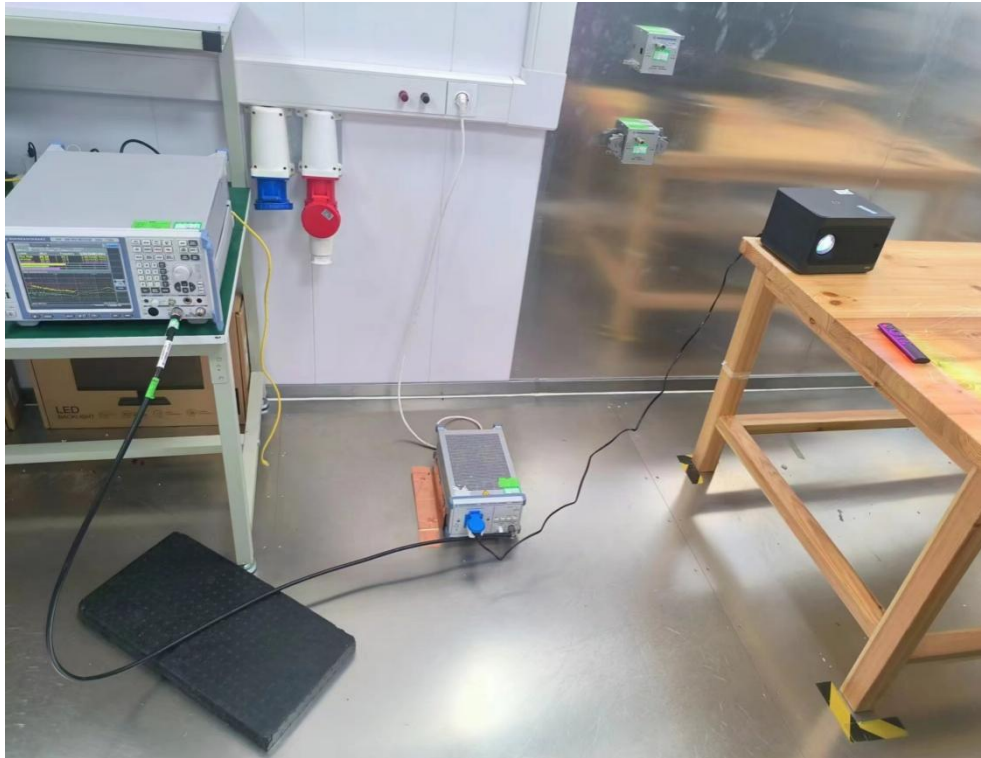
Remark:Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

9. MEASUREMENT INSTRUMENTS LIST

Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Receiver	Rohde&Schwarz	ESIB 40	YH-TIRT-SAC-966-20220911	2023/01/05	2024/01/06
Integral Antenna	Schwarzbeck	VULB 9163	01314	2022.12.11	2024.12.10
Integral Antenna	Rohde&Schwarz	HF907	RSM2991424	2022.12.11	2024.12.10
Preamplifier	Emtrace	RP01A	'02017	2023/01/05	2024/01/06
Preamplifier	Schwarzbeck	BBV9744	00143	2023/01/05	2024/01/06
Loop Antenna	ZHINAN	ZN30900A	12024	2023/01/05	2024/01/06
Exposure Level Tester	narda	ELT-400	N-0925	2023/01/05	2024/01/06
Horn Antenna	Schwarzbeck	BBHA9170	00956	2023/01/05	2024/01/06
RF Cable	/	LMR400UF-NMNM-7.0M	/	2023/01/05	2024/01/06
RF Cable	/	SFT2050PUR-NMNM-7.0M	/	2023/01/05	2024/01/06
EMI Receiver	Rohde&Schwarz	ESR7	1316.3003K07-102611-mk	2022/11/02	2023/11/01
LISN	Rohde&Schwarz	ENV216	3560.655.12-102915-Bp	2022/11/02	2023/11/01
ISN	Schwarzbeck	ENY81	1309.8510.03	2023/01/05	2024/01/06
ISN	Schwarzbeck	ENY81-CAT6	1309.8526.03-101976-kh	2023/01/05	2024/01/06
RF Cable	\	SFT2050PUR-NMNM-2.0M	\	2023/01/05	2024/01/06
CMW500	ROHDE&SCHWARZ	CMW500	120434	2023/01/05	2024/01/06
Spectrum analyzer	ROHDE&SCHWARZ	FSU26	200732	2023/01/05	2024/01/06
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	101722	2023/01/05	2024/01/06
vector Signal Generator	KEYSIGHT	N5182B	MY56200458	2023/01/05	2024/01/06
vector Signal Generator	HEWLETT PACKARD	83752A	3610A02458	2023/01/05	2024/01/06
Filter	HEWLETT PACKARD	JS0806-F	19K8060209	2023/01/05	2024/01/06
Wireless comprehensive tester	ANRISTU	MT8821C	SN6262170409	2023/01/05	2024/01/06

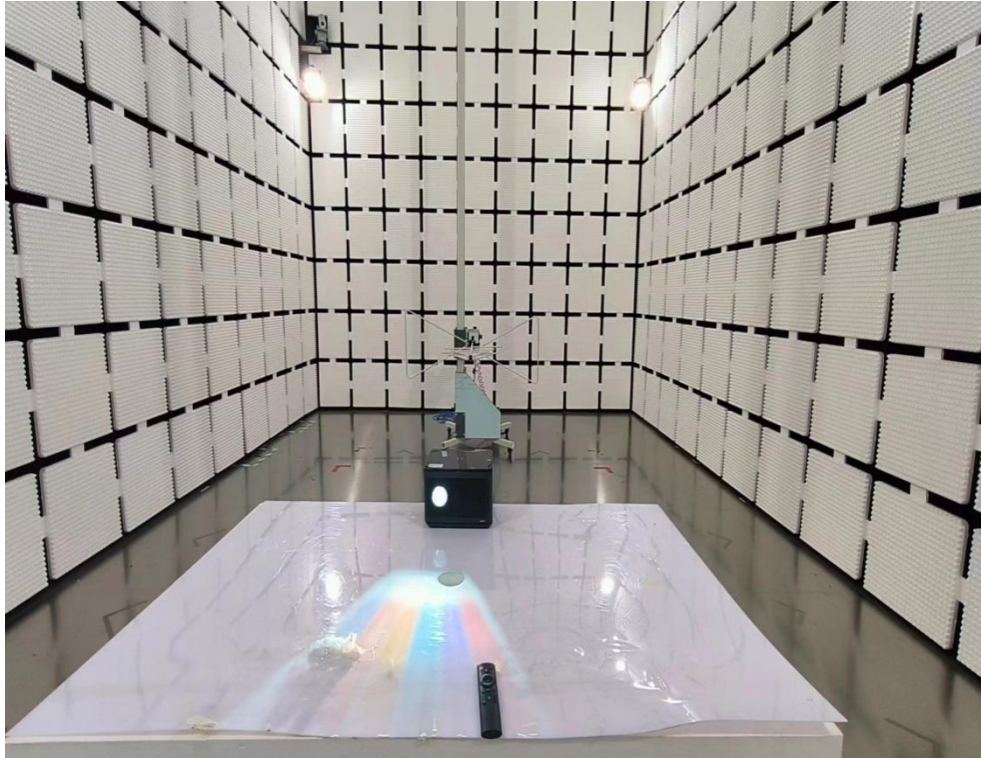
Wireless comprehensive tester	ANRISTU	MT8000A	SN6262166782	2023/01/05	2024/01/06
Wireless broadband test system	Tonscend	JS1120-3	/	/	/

Remark: "/" denotes no model name, serial no. or calibration specified.

10. EUT TEST PHOTOS**AC Power Line Conducted Emissions Test Photos****Conducted Test Photos**

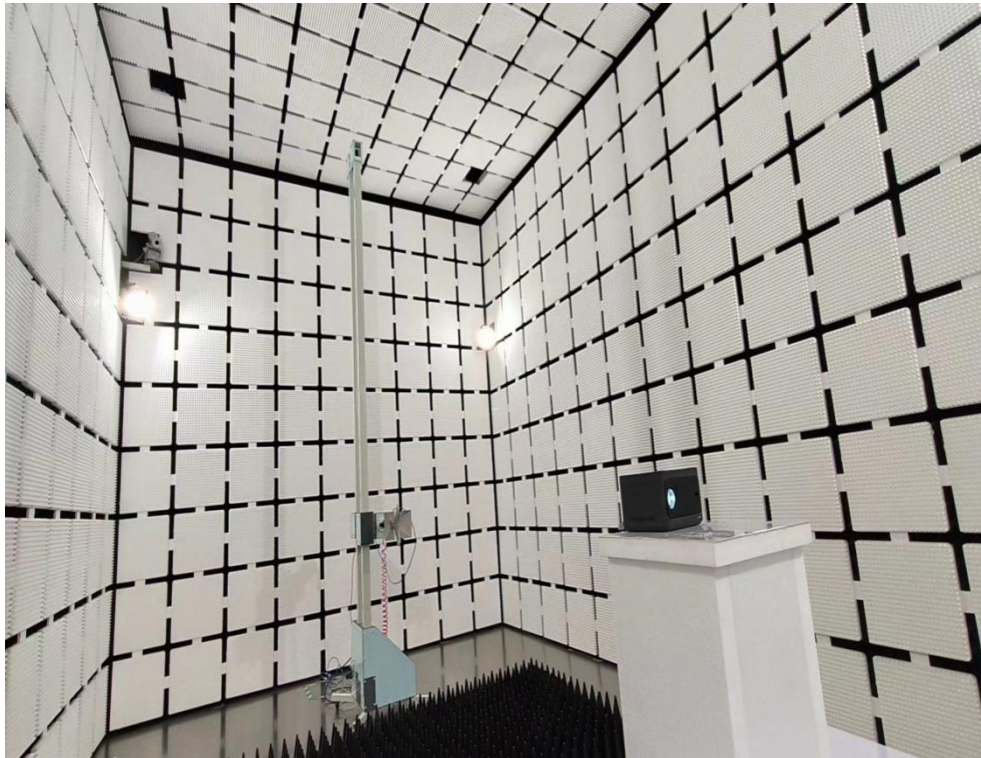
Radiated Emissions Test Photos

30 MHz to 1 GHz



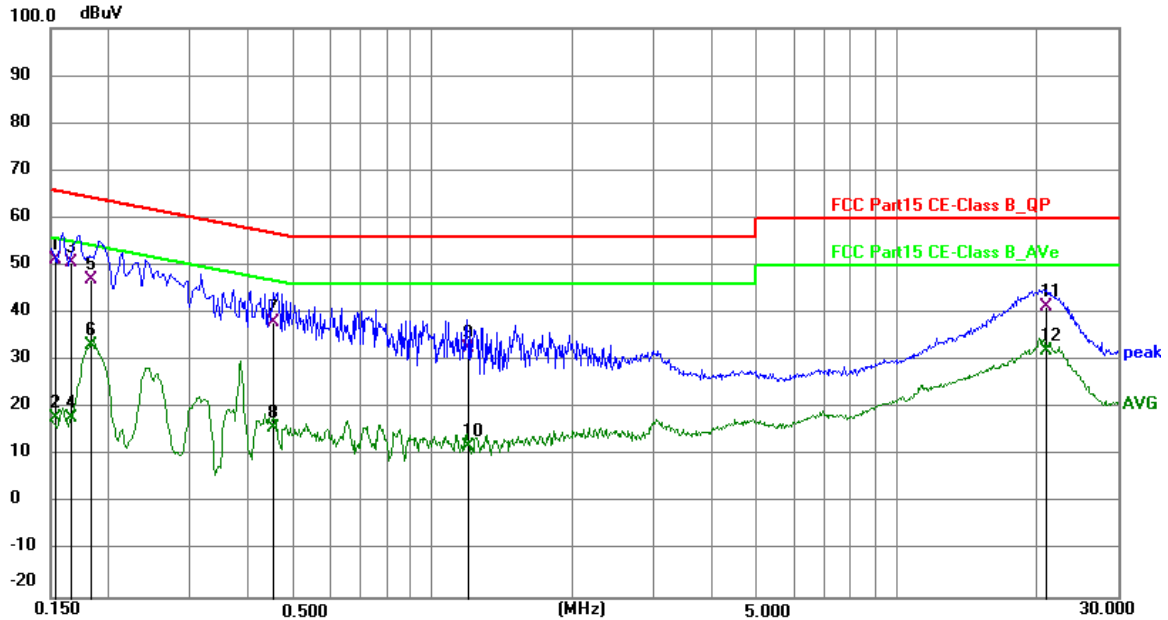
Radiated Emissions Test Photos

Above 1 GHz



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX AC(VHT80) Mode Channel 155 (UNII-3)	Phase	Line
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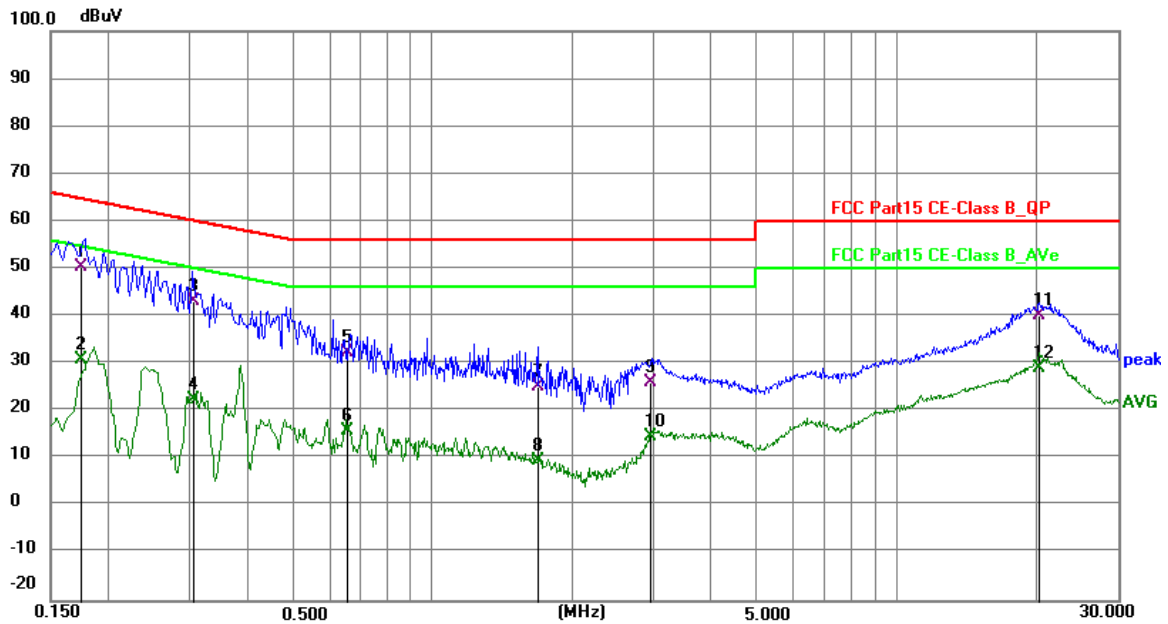


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	0.1537	41.58	9.63	51.21	65.80	-14.59	QP
2	0.1537	8.27	9.63	17.90	55.80	-37.90	AVG
3	0.1658	40.95	9.63	50.58	65.17	-14.59	QP
4	0.1658	8.43	9.63	18.06	55.17	-37.11	AVG
5	0.1835	37.35	9.63	46.98	64.33	-17.35	QP
6	0.1835	23.66	9.63	33.29	54.33	-21.04	AVG
7	0.4553	28.50	9.62	38.12	56.78	-18.66	QP
8	0.4553	6.09	9.62	15.71	46.78	-31.07	AVG

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The test result has included the cable loss.

Test Mode	TX AC(VHT80) Mode Channel 155 (UNII-3)	Phase	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	0.1757	40.68	9.63	50.31	64.69	-14.38	QP
2	0.1757	21.34	9.63	30.97	54.69	-23.72	AVG
3	0.3058	33.50	9.62	43.12	60.08	-16.96	QP
4	0.3058	12.70	9.62	22.32	50.08	-27.76	AVG
5	0.6567	22.85	9.62	32.47	56.00	-23.53	QP
6	0.6567	6.18	9.62	15.80	46.00	-30.20	AVG
7	1.6968	15.49	9.65	25.14	56.00	-30.86	QP
8	1.6968	-0.10	9.65	9.55	46.00	-36.45	AVG
9	2.9676	16.48	9.65	26.13	56.00	-29.87	QP
10	2.9676	5.06	9.65	14.71	46.00	-31.29	AVG
11	20.3598	30.44	9.81	40.25	60.00	-19.75	QP
12	20.3598	19.37	9.81	29.18	50.00	-20.82	AVG

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The test result has included the cable loss.

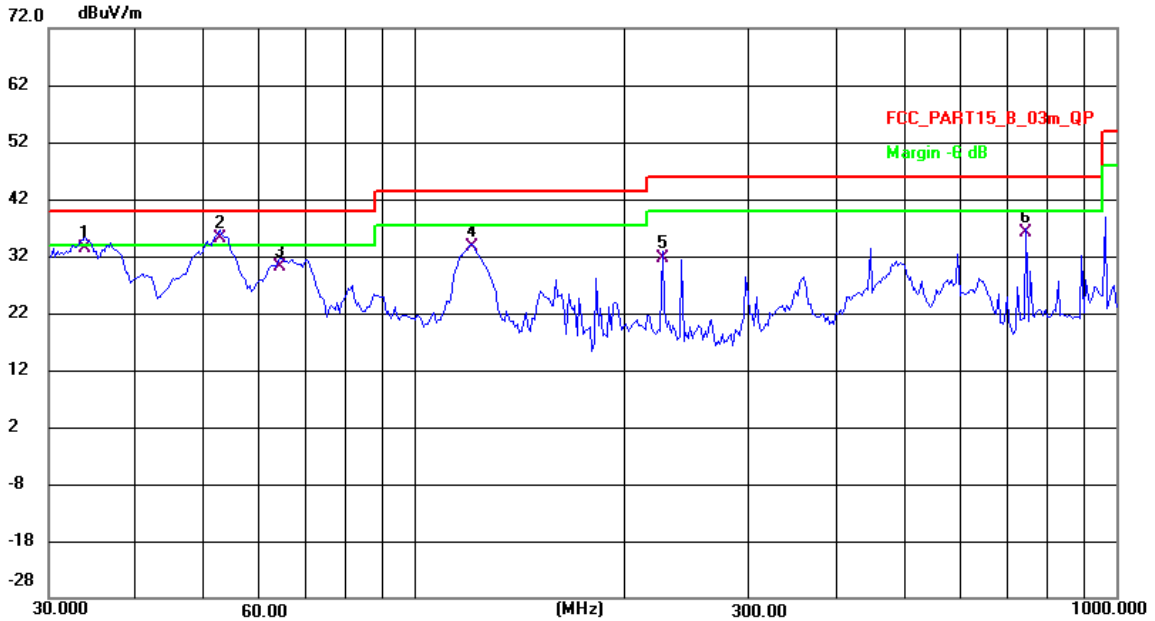
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode	TX AC(VHT80) Mode Channel 155 (UNII-3)	Polarization	Vertical
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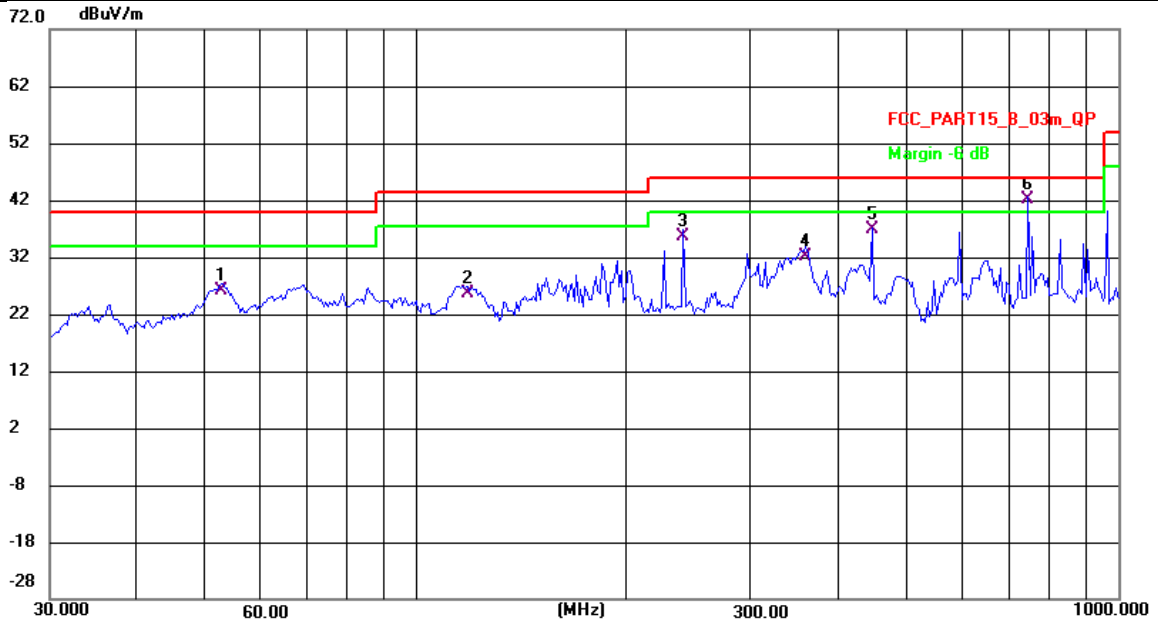


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	33.8066	53.39	-19.97	33.42	40.00	-6.58	QP
2 *	52.6343	54.77	-19.76	35.01	40.00	-4.99	QP
3	64.0800	51.26	-21.02	30.24	40.00	-9.76	QP
4	120.6115	55.84	-22.09	33.75	43.50	-9.75	QP
5	225.4267	56.92	-25.36	31.56	46.00	-14.44	QP
6	744.4265	47.33	-11.12	36.21	46.00	-9.79	QP

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AC(VHT80) Mode Channel 155 (UNII-3)	Polarization	Horizontal
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	52.6343	45.77	-19.76	26.01	40.00	-13.99	QP
2	118.0956	48.03	-22.29	25.74	43.50	-17.76	QP
3	240.1442	59.85	-24.22	35.63	46.00	-10.37	QP
4	358.4497	52.76	-20.62	32.14	46.00	-13.86	QP
5	445.6931	55.07	-18.22	36.85	46.00	-9.15	QP
6 *	744.4265	53.13	-11.12	42.01	46.00	-3.99	QP

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

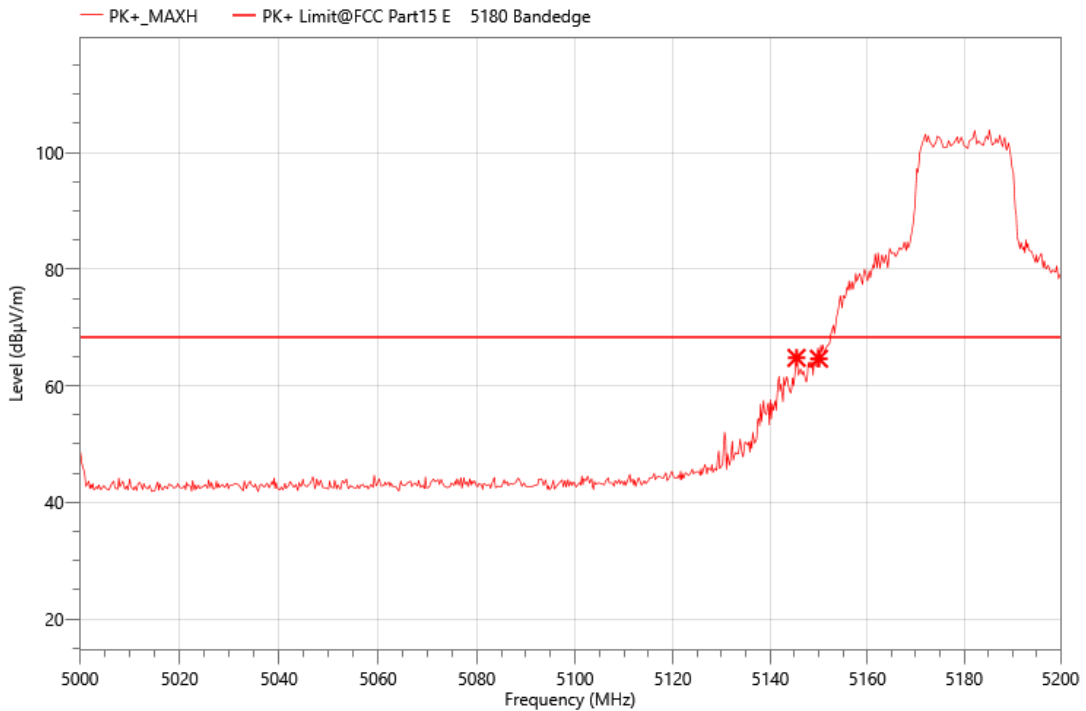
Test Result of Riated emission method Band edges.

Remaerk: The Offset value incorporates the antenna gain value

UNII-1(5180MHz -5240MHz)

All mode had been tested, only show the worst mode IEEE 802.11ax

Test Standard	FCC Part15 E 5180 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5 GHz-5.2 GHz	PK+	1 MHz	Auto

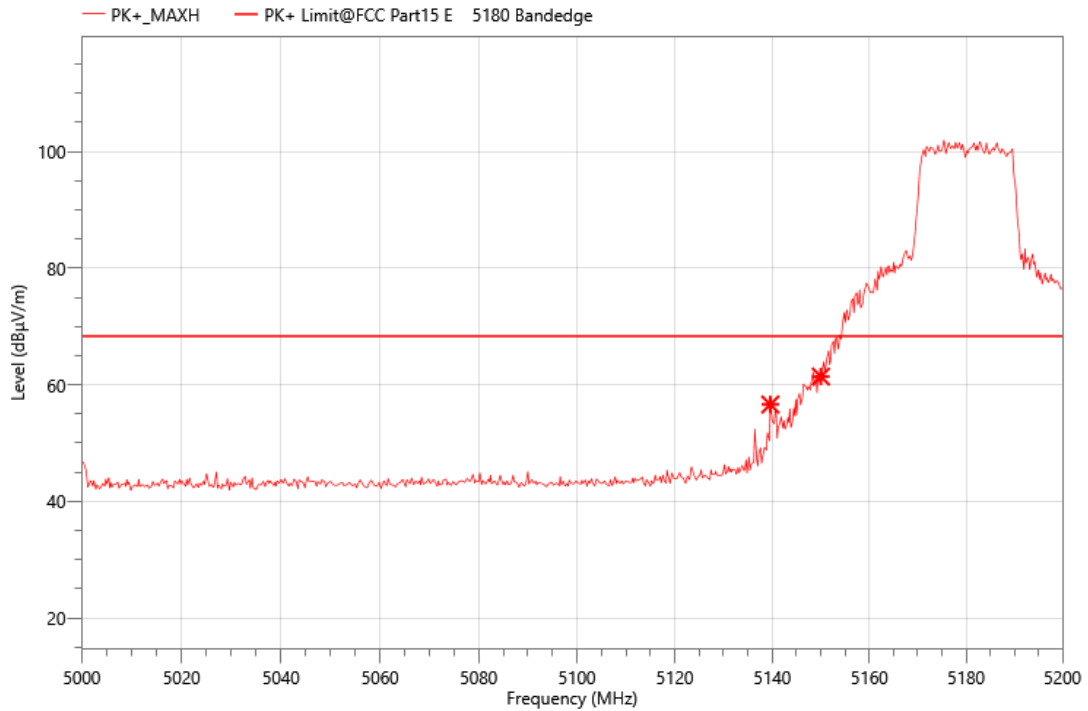


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5145.400	75.68	-10.89	64.79	68.20	3.41	PK+	H
2	5150.000	75.49	-10.84	64.65	68.20	3.55	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5180 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5 GHz-5.2 GHz	PK+	1 MHz	Auto

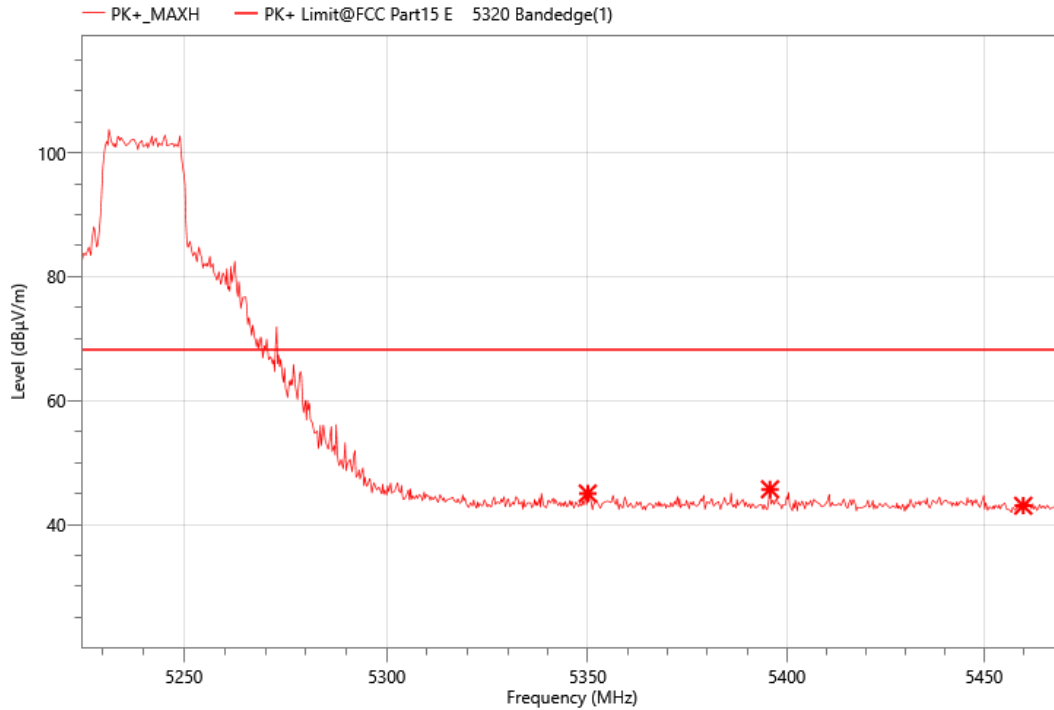


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5139.600	67.59	-10.97	56.62	68.20	11.58	PK+	V
2	5150.000	72.26	-10.84	61.42	68.20	6.78	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5240 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5.225 GHz-5.47 GHz	PK+	1 MHz	Auto

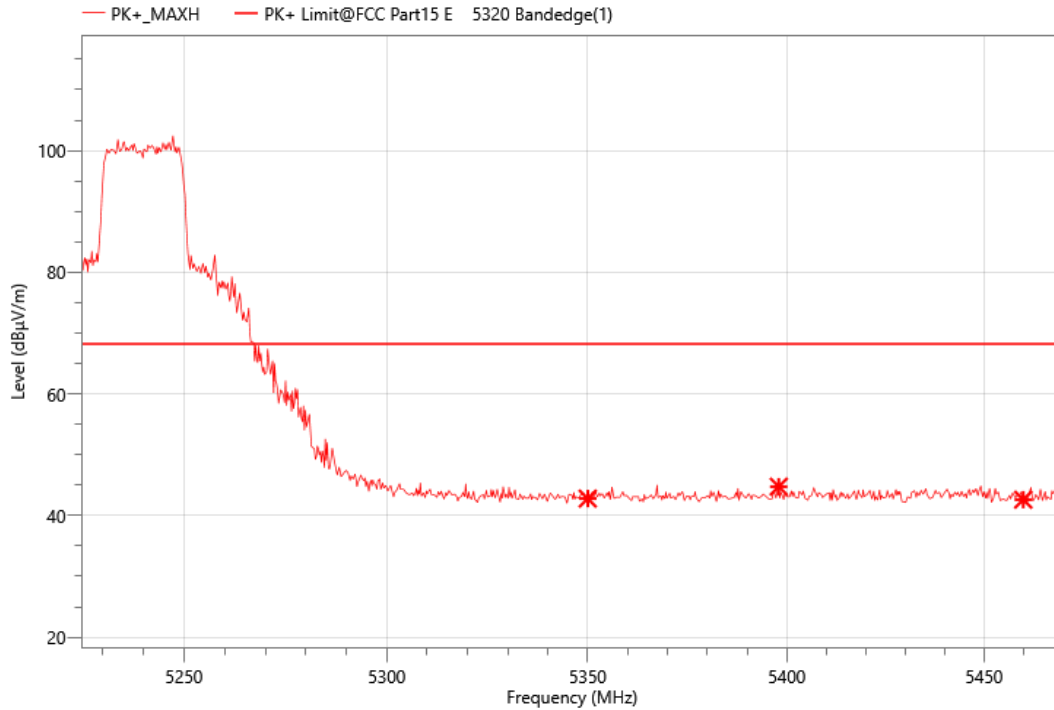


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5350.000	55.04	-10.03	45.01	68.20	23.19	PK+	H
2	5395.765	55.44	-9.76	45.68	68.20	22.52	PK+	H
3	5460.000	53.29	-10.26	43.03	68.20	25.17	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5240 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5.225 GHz-5.47 GHz	PK+	1 MHz	Auto

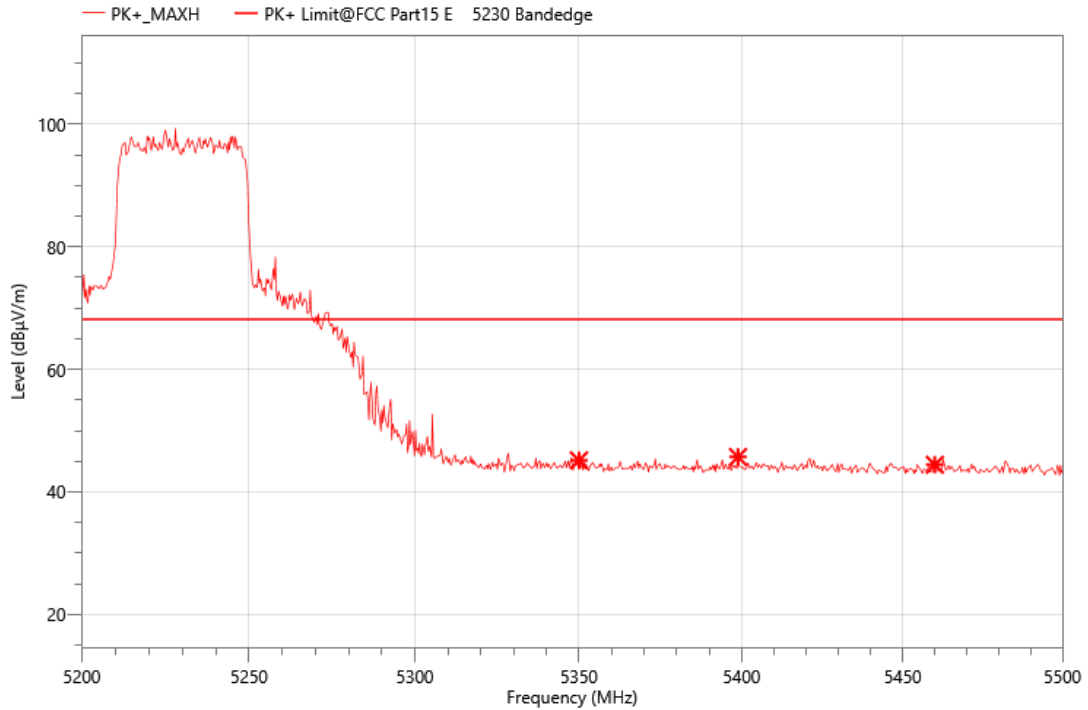


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5350.000	52.82	-10.03	42.79	68.20	25.41	PK+	V
2	5397.970	54.54	-9.78	44.76	68.20	23.44	PK+	V
3	5460.000	52.87	-10.26	42.61	68.20	25.59	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5230 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5.2 GHz-5.5 GHz	PK+	1 MHz	Auto

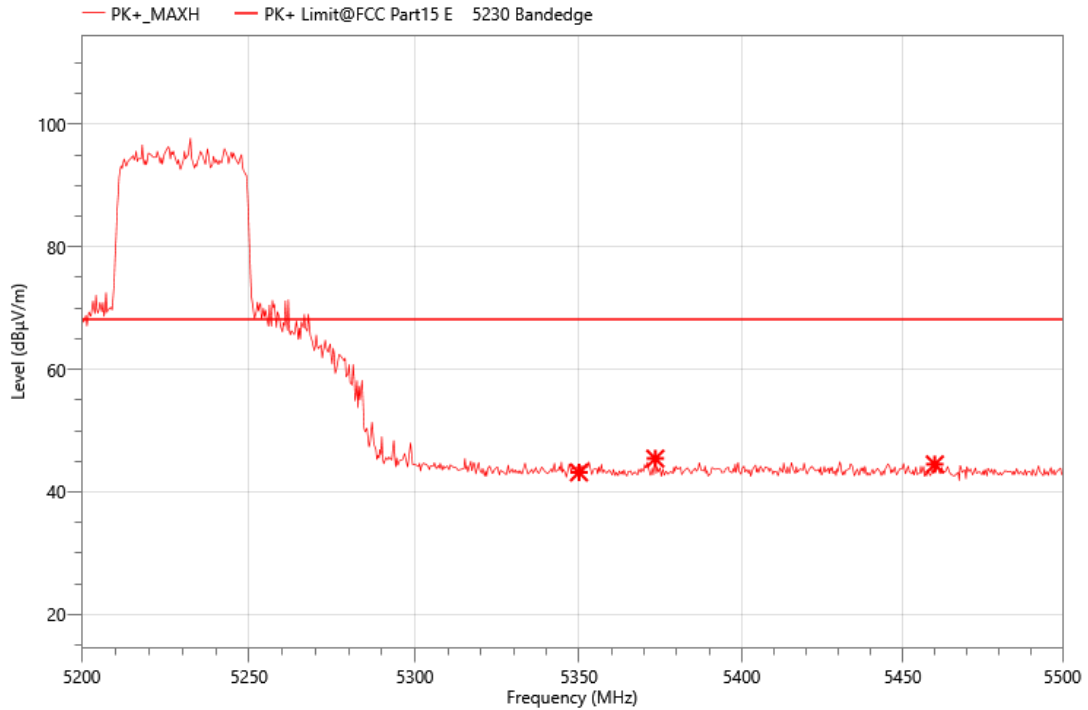


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5350.000	55.19	-10.03	45.16	68.20	23.04	PK+	H
2	5398.900	55.50	-9.79	45.71	68.20	22.49	PK+	H
3	5460.000	54.70	-10.26	44.44	68.20	23.76	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5230 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5.2 GHz-5.5 GHz	PK+	1 MHz	Auto

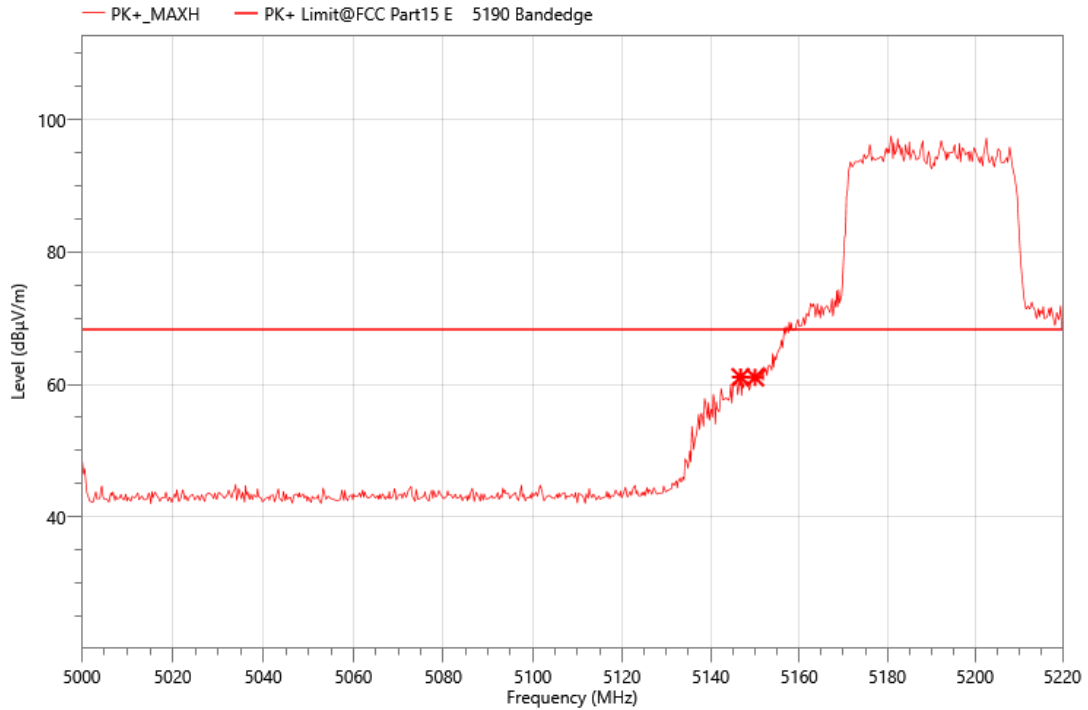


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5350.000	53.22	-10.03	43.19	68.20	25.01	PK+	V
2	5373.400	55.13	-9.69	45.44	68.20	22.76	PK+	V
3	5460.000	54.76	-10.26	44.50	68.20	23.70	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5190 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5 GHz-5.22 GHz	PK+	1 MHz	Auto

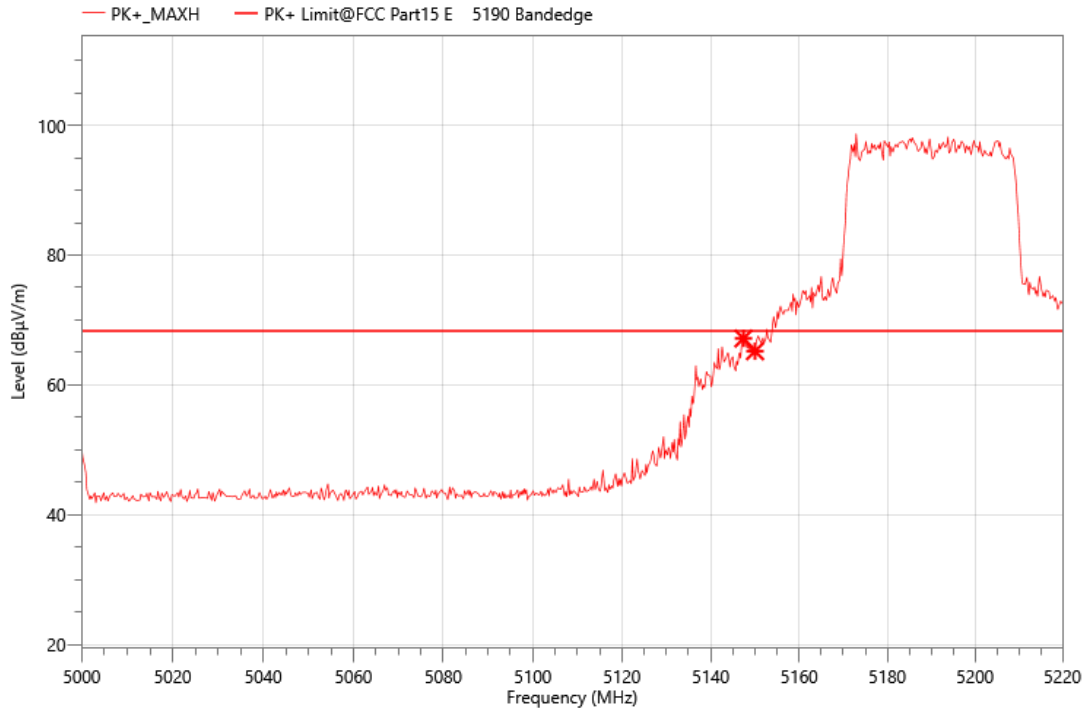


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5146.740	72.00	-10.88	61.12	68.20	7.08	PK+	V
2	5150.000	71.90	-10.84	61.06	68.20	7.14	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5190 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5 GHz-5.22 GHz	PK+	1 MHz	Auto

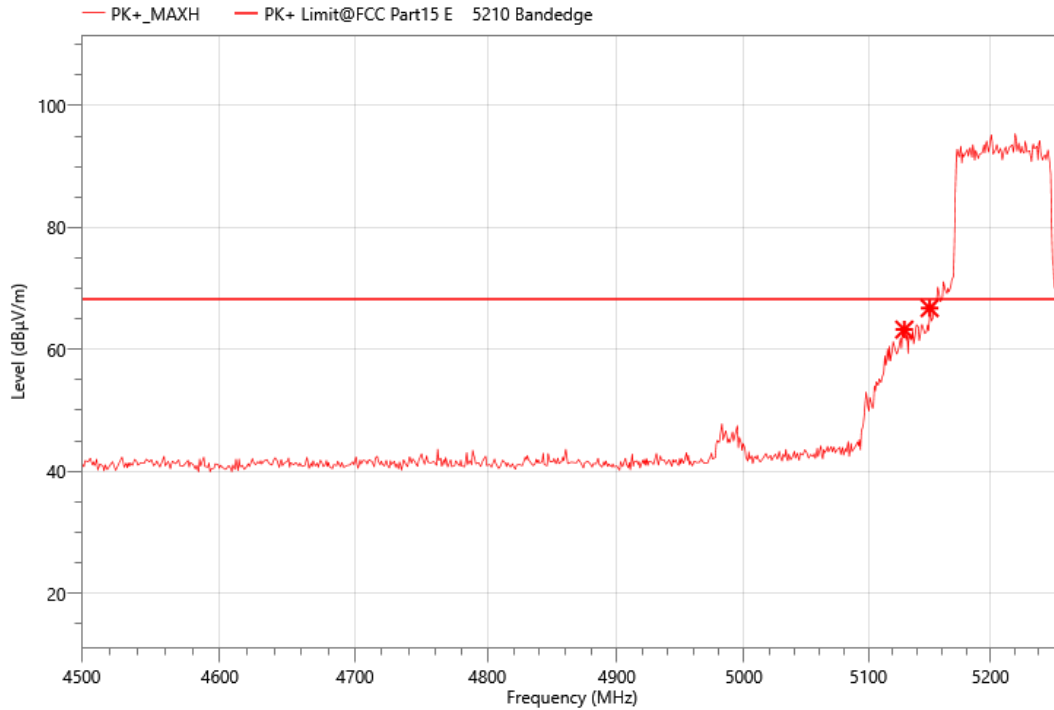


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5147.400	78.02	-10.87	67.15	68.20	1.05	PK+	H
2	5150.000	76.02	-10.84	65.18	68.20	3.02	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5210 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	4.5 GHz-5.26 GHz	PK+	1 MHz	Auto

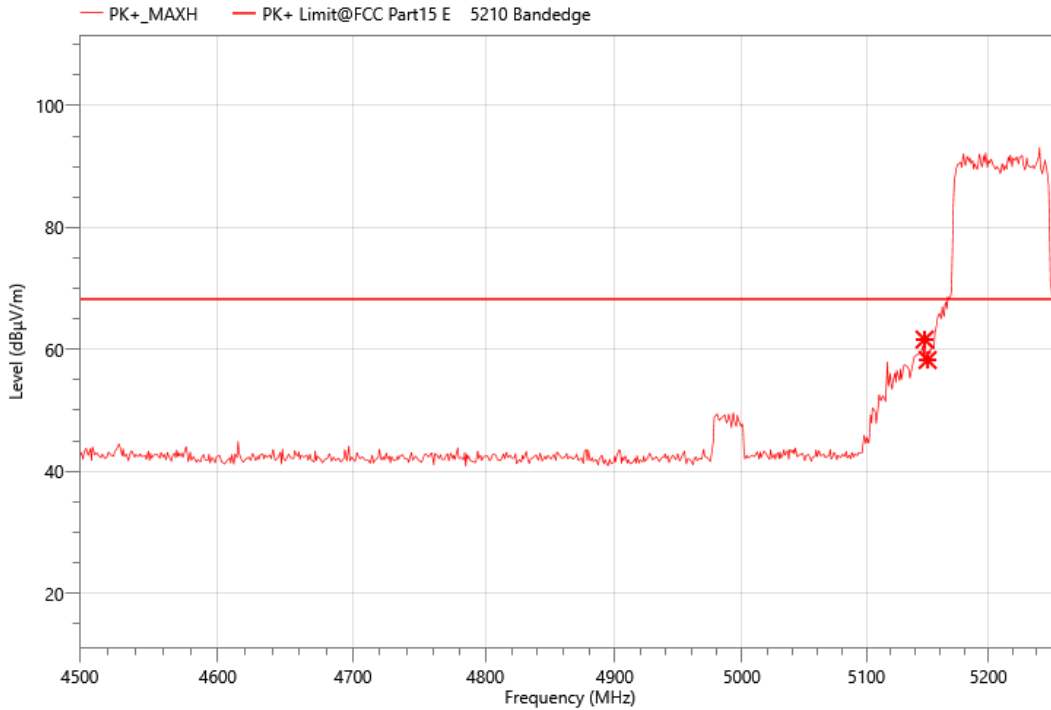


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5129.280	74.33	-11.08	63.25	68.20	4.95	PK+	H
2	5150.000	77.61	-10.84	66.77	68.20	1.43	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5210 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	4.5 GHz-5.26 GHz	PK+	1 MHz	Auto

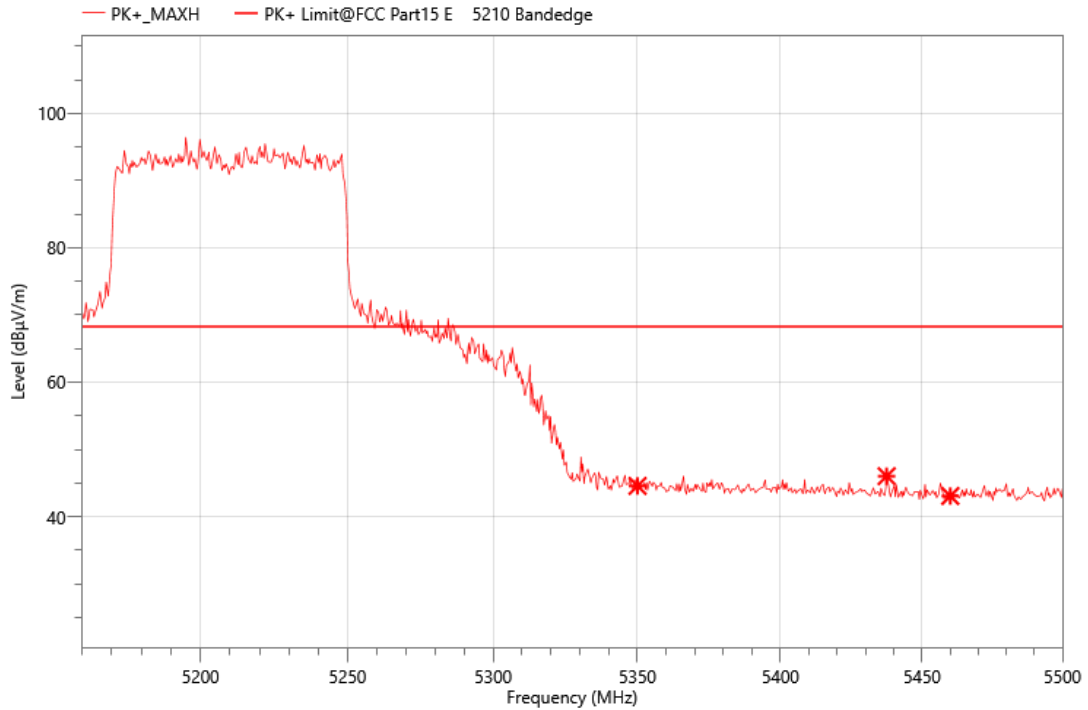


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5147.520	72.48	-10.87	61.61	68.20	6.59	PK+	V
2	5150.000	69.09	-10.84	58.25	68.20	9.95	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5210 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5.16 GHz-5.5 GHz	PK+	1 MHz	Auto

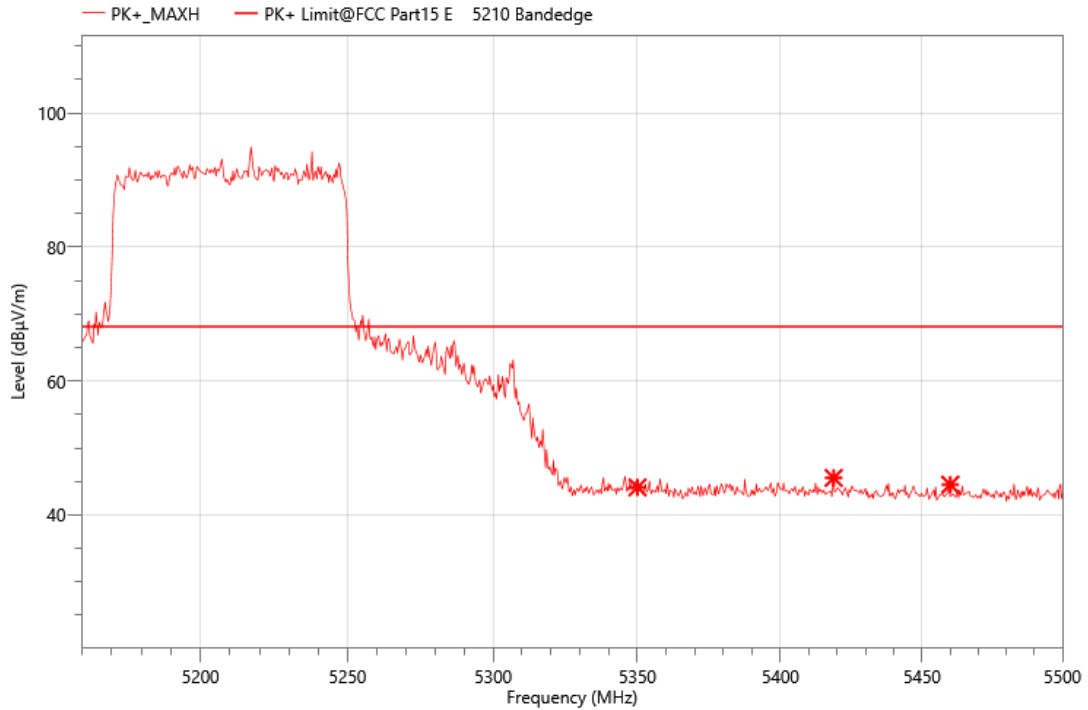


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5350.000	54.60	-10.03	44.57	68.20	23.63	PK+	H
2	5437.440	56.25	-10.23	46.02	68.20	22.18	PK+	H
3	5460.000	53.33	-10.26	43.07	68.20	25.13	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5210 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5.16 GHz-5.5 GHz	PK+	1 MHz	Auto



Critical_Freqs

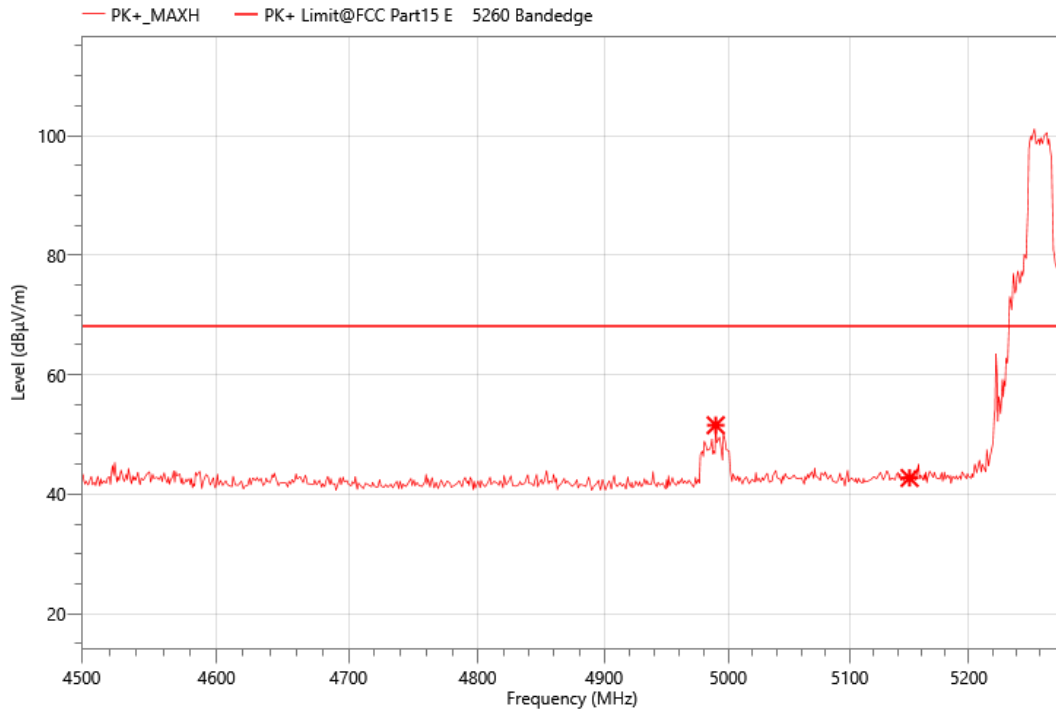
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5350.000	54.14	-10.03	44.11	68.20	24.09	PK+	V
2	5418.740	55.56	-10.04	45.52	68.20	22.68	PK+	V
3	5460.000	54.78	-10.26	44.52	68.20	23.68	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

UNII-2A(5260MHz -5320MHz)

All mode had been tested, only show the worst mode IEEE 802.11ax

Test Standard	FCC Part15 E 5260 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	4.5 GHz-5.28 GHz	PK+	1 MHz	Auto

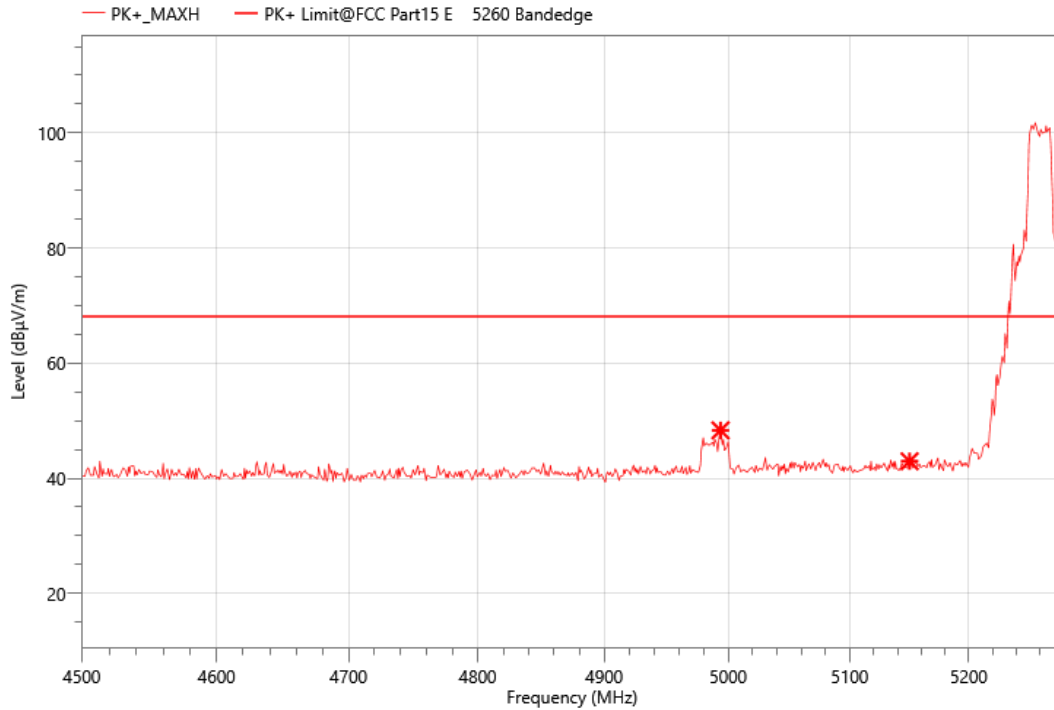


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	4989.840	62.99	-11.45	51.54	68.20	16.66	PK+	V
2	5150.000	53.55	-10.84	42.71	68.20	25.49	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5260 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	4.5 GHz-5.28 GHz	PK+	1 MHz	Auto

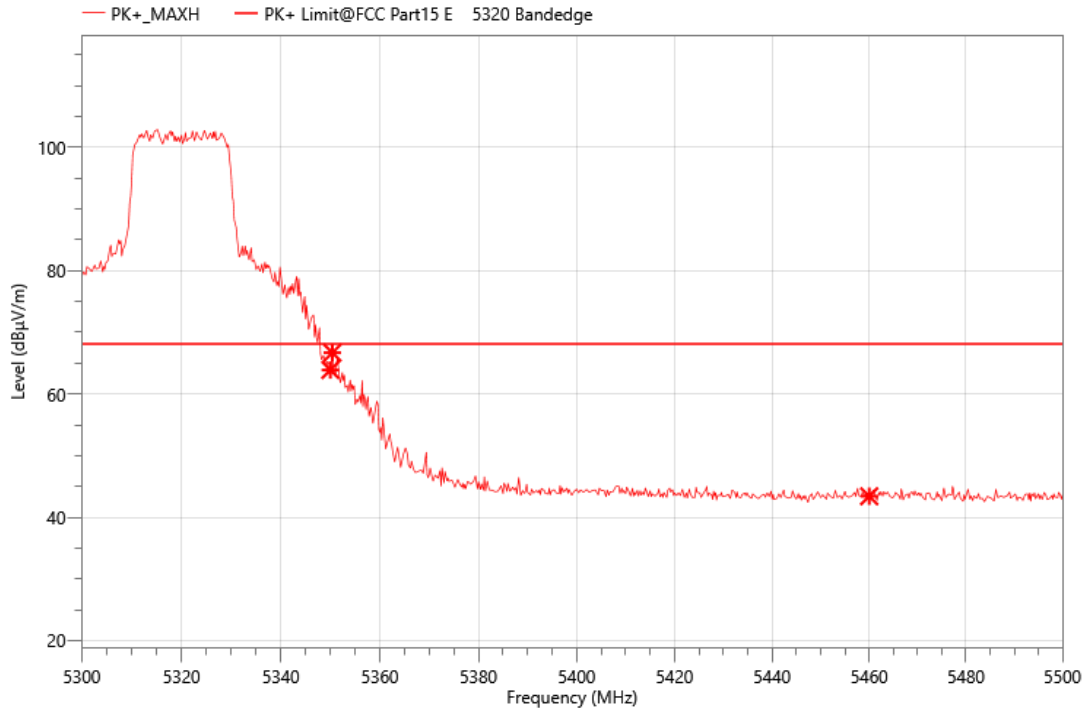


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	4993.740	59.77	-11.43	48.34	68.20	19.86	PK+	H
2	5150.000	53.81	-10.84	42.97	68.20	25.23	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5320 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5.3 GHz-5.5 GHz	PK+	1 MHz	Auto

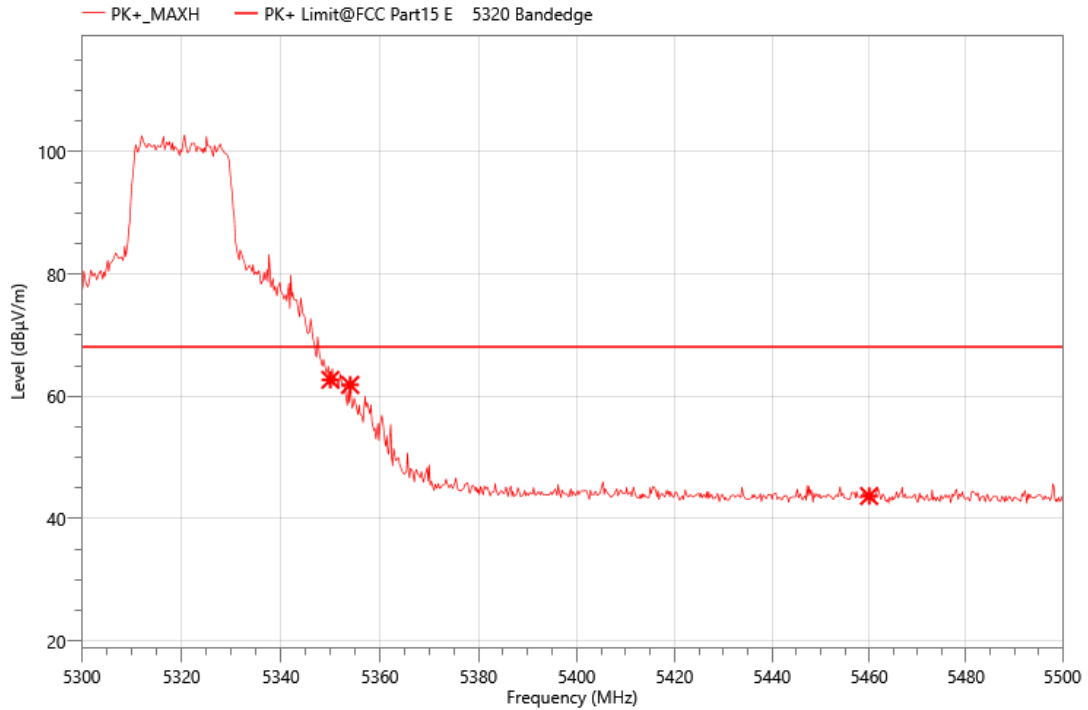


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5350.000	73.93	-10.03	63.90	68.20	4.30	PK+	H
2	5350.400	76.72	-10.02	66.70	68.20	1.50	PK+	H
3	5460.000	53.69	-10.26	43.43	68.20	24.77	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5320 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5.3 GHz-5.5 GHz	PK+	1 MHz	Auto

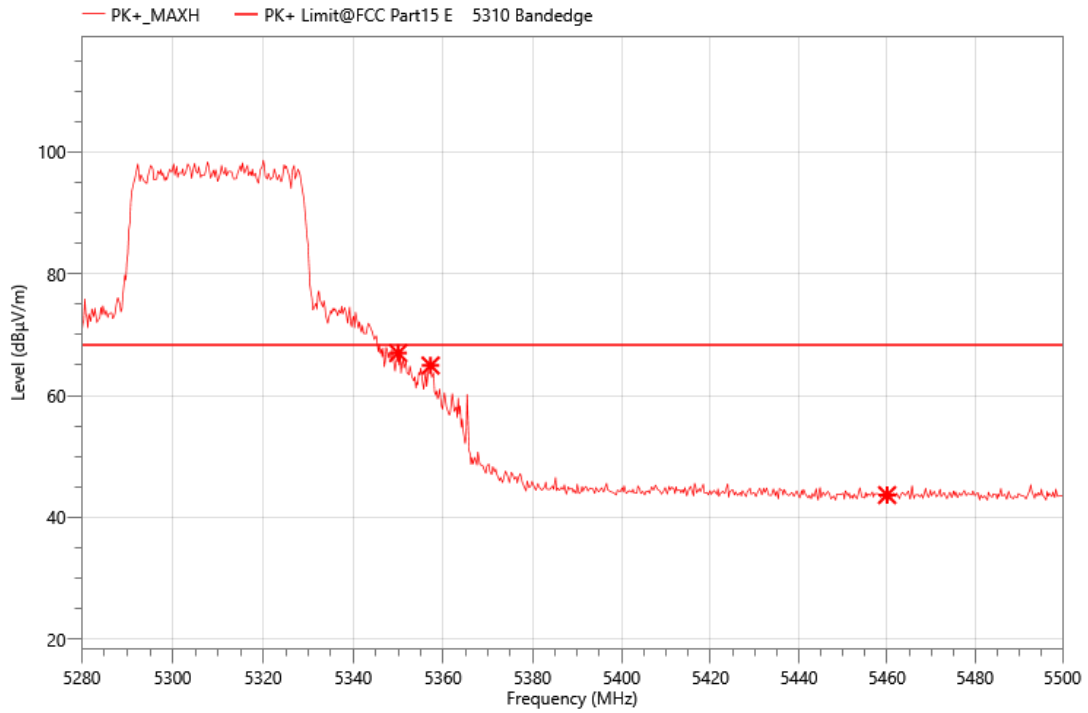


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5350.000	72.73	-10.03	62.70	68.20	5.50	PK+	V
2	5354.000	71.80	-9.93	61.87	68.20	6.33	PK+	V
3	5460.000	53.94	-10.26	43.68	68.20	24.52	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5310 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5.28 GHz-5.5 GHz	PK+	1 MHz	Auto

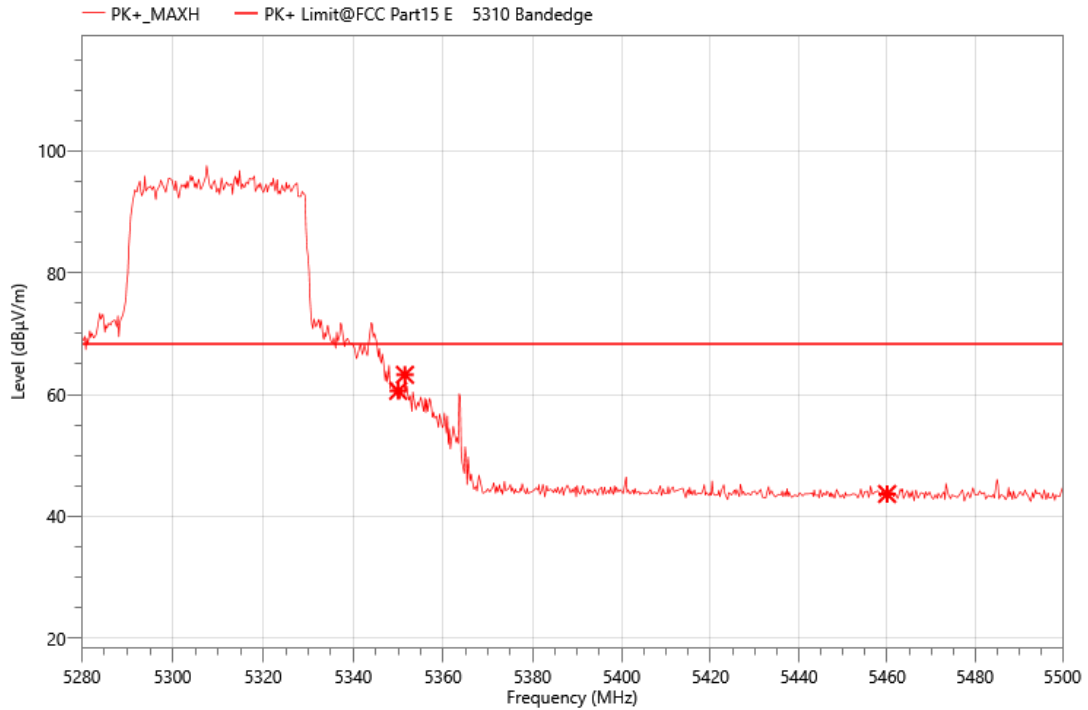


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5350.000	77.01	-10.03	66.98	68.20	1.22	PK+	H
2	5357.220	74.80	-9.86	64.94	68.20	3.26	PK+	H
3	5460.000	53.90	-10.26	43.64	68.20	24.56	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5310 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5.28 GHz-5.5 GHz	PK+	1 MHz	Auto

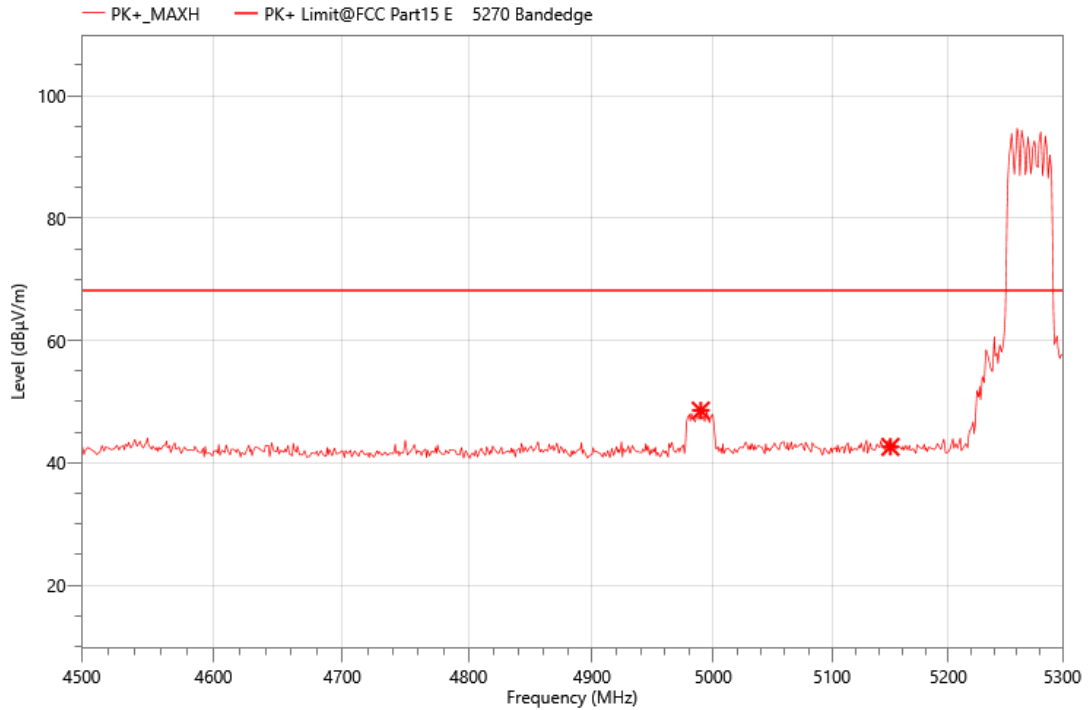


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5350.000	70.63	-10.03	60.60	68.20	7.60	PK+	V
2	5351.500	73.24	-9.99	63.25	68.20	4.95	PK+	V
3	5460.000	53.91	-10.26	43.65	68.20	24.55	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5270 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	4.5 GHz-5.30 GHz	PK+	1 MHz	Auto

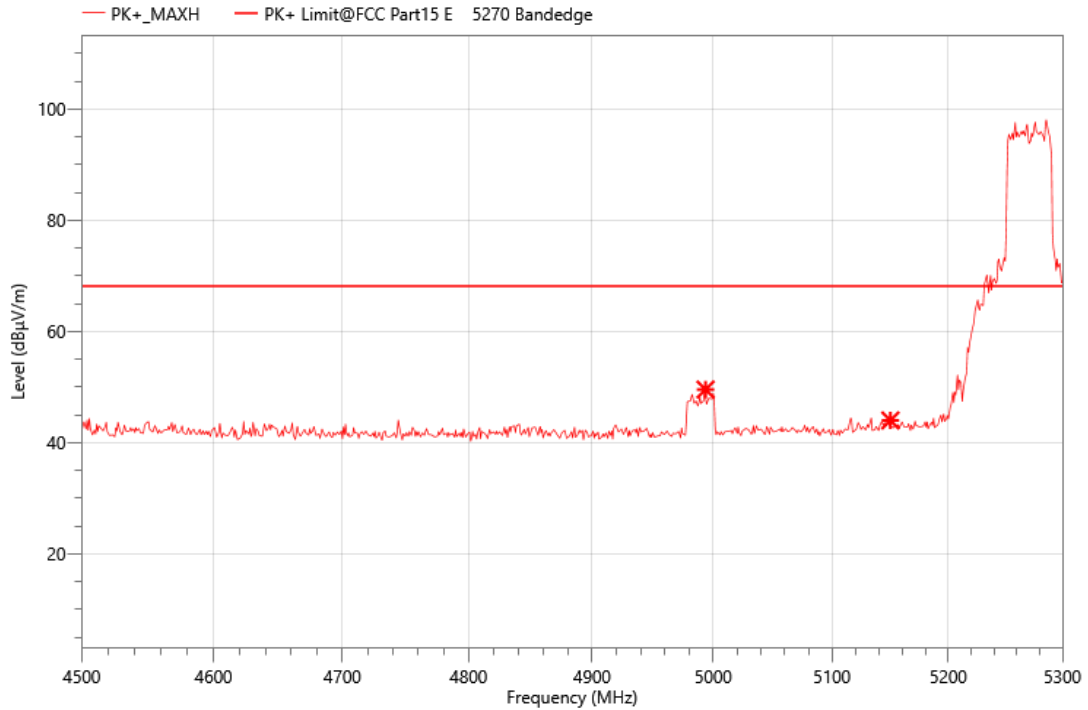


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	4989.600	60.01	-11.46	48.55	68.20	19.65	PK+	V
2	5150.000	53.46	-10.84	42.62	68.20	25.58	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5270 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	4.5 GHz-5.30 GHz	PK+	1 MHz	Auto

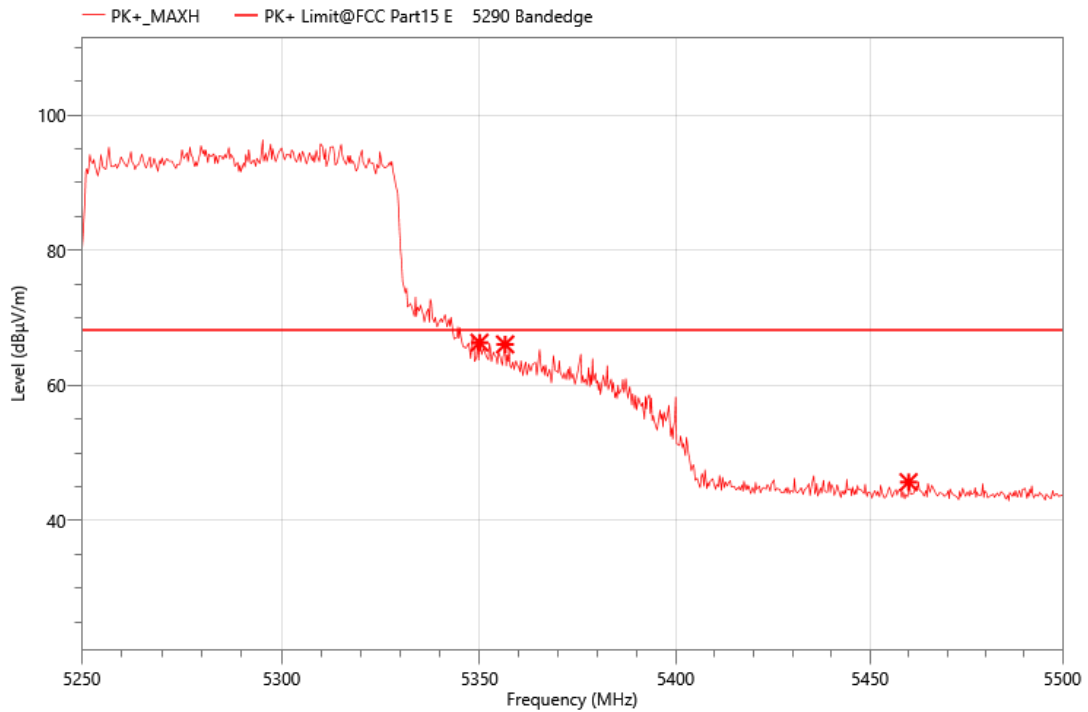


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	4993.600	60.99	-11.43	49.56	68.20	18.64	PK+	H
2	5150.000	54.84	-10.84	44.00	68.20	24.20	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5290 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5.25 GHz-5.5 GHz	PK+	1 MHz	Auto

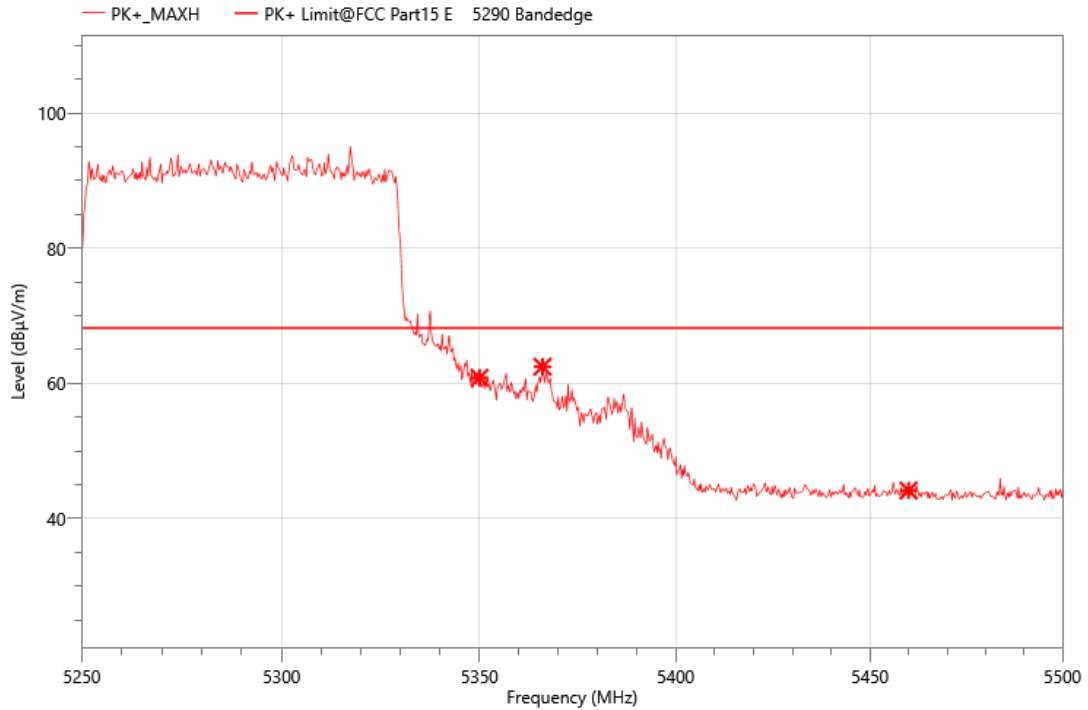


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5350.000	76.37	-10.03	66.34	68.20	1.86	PK+	H
2	5356.500	75.95	-9.87	66.08	68.20	2.12	PK+	H
3	5460.000	55.96	-10.26	45.70	68.20	22.50	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5290 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5.25 GHz-5.5 GHz	PK+	1 MHz	Auto

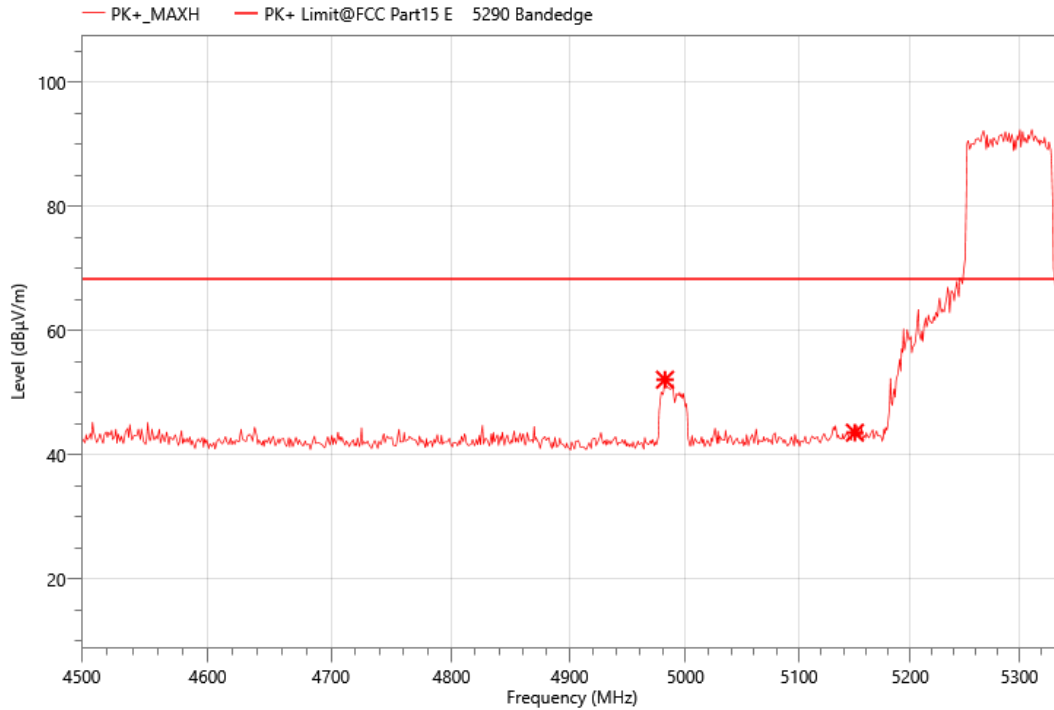


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5350.000	70.87	-10.03	60.84	68.20	7.36	PK+	V
2	5366.000	72.25	-9.77	62.48	68.20	5.72	PK+	V
3	5460.000	54.42	-10.26	44.16	68.20	24.04	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5290 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	4.5 GHz-5.34 GHz	PK+	1 MHz	Auto

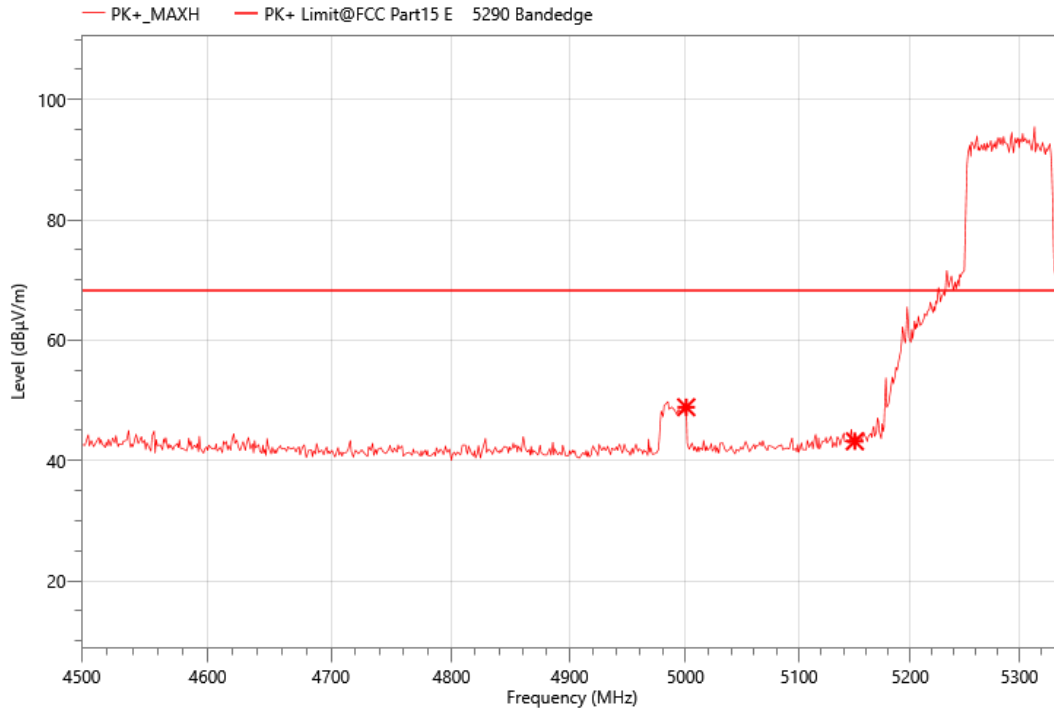


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	4982.160	63.58	-11.51	52.07	68.20	16.13	PK+	V
2	5150.000	54.38	-10.84	43.54	68.20	24.66	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5290 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	4.5 GHz-5.34 GHz	PK+	1 MHz	Auto



Critical_Freqs

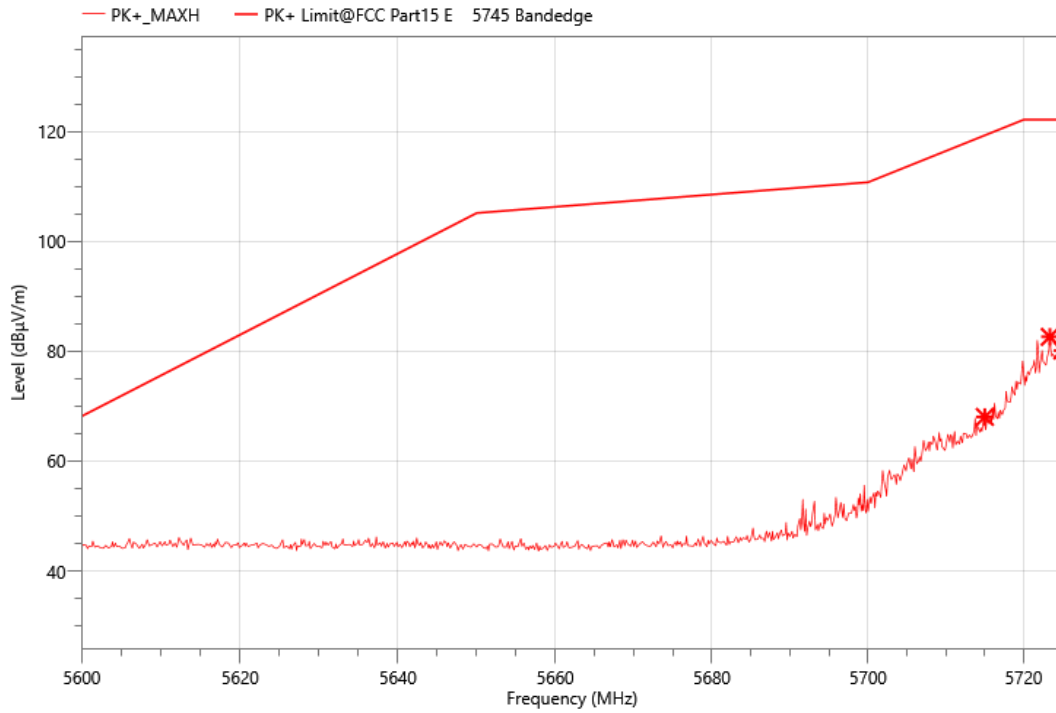
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5000.640	60.25	-11.38	48.87	68.20	19.33	PK+	H
2	5150.000	54.05	-10.84	43.21	68.20	24.99	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

UNII-3(5745MHz -5825MHz)

All mode had been tested, only show the worst mode IEEE 802.11ax

Test Standard	FCC Part15 E 5745 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5.6 GHz-5.725 GHz	PK+	1 MHz	Auto

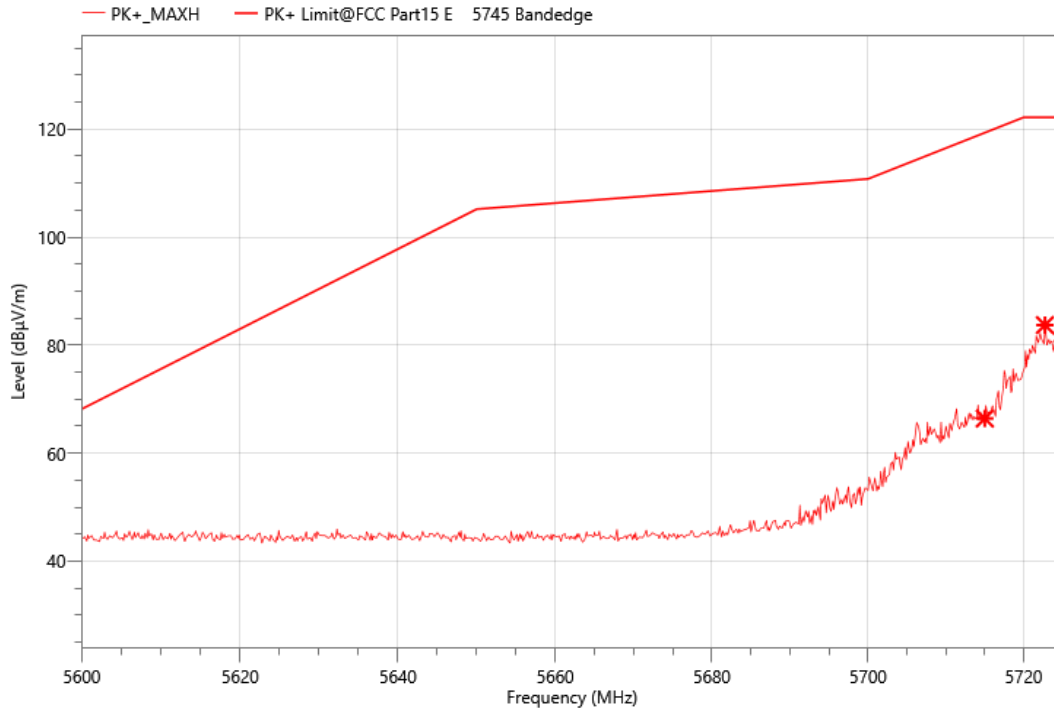


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5715.000	77.78	-9.71	68.07	119.35	51.28	PK+	V
2	5723.375	92.47	-9.83	82.64	122.20	39.56	PK+	V
3	5725.000	90.01	-9.85	80.16	122.20	42.04	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5745 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5.6 GHz-5.725 GHz	PK+	1 MHz	Auto

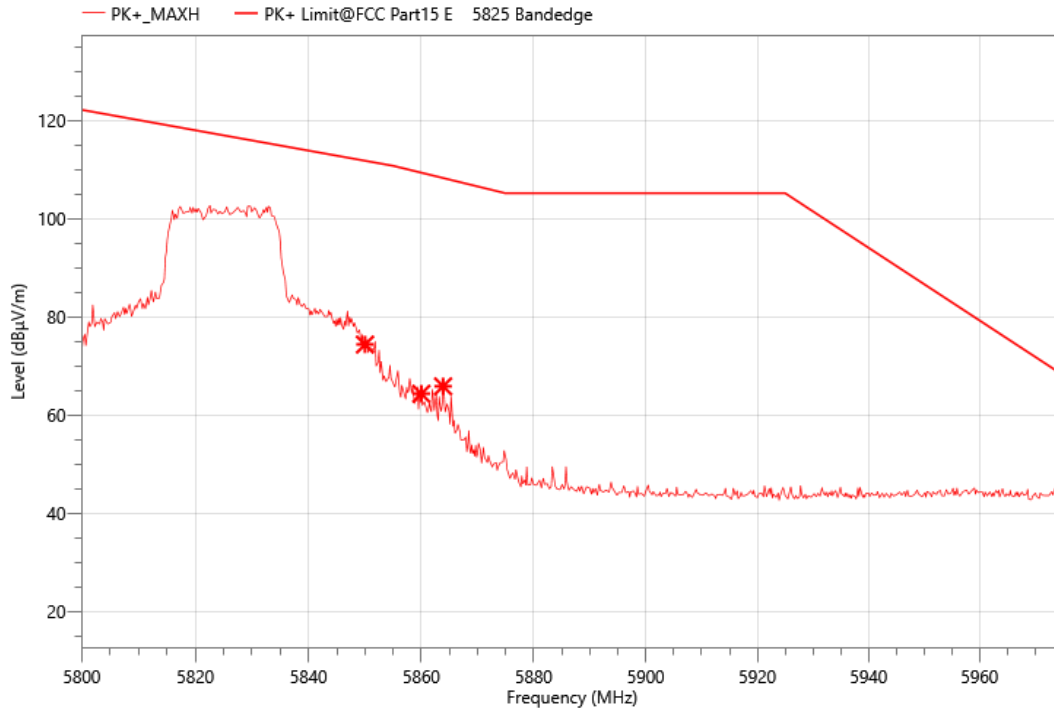


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5715.000	76.14	-9.71	66.43	119.35	52.92	PK+	H
2	5722.750	93.55	-9.82	83.73	122.20	38.47	PK+	H
3	5725.000	90.60	-9.85	80.75	122.20	41.45	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5825 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5.8 GHz-5.975 GHz	PK+	1 MHz	Auto

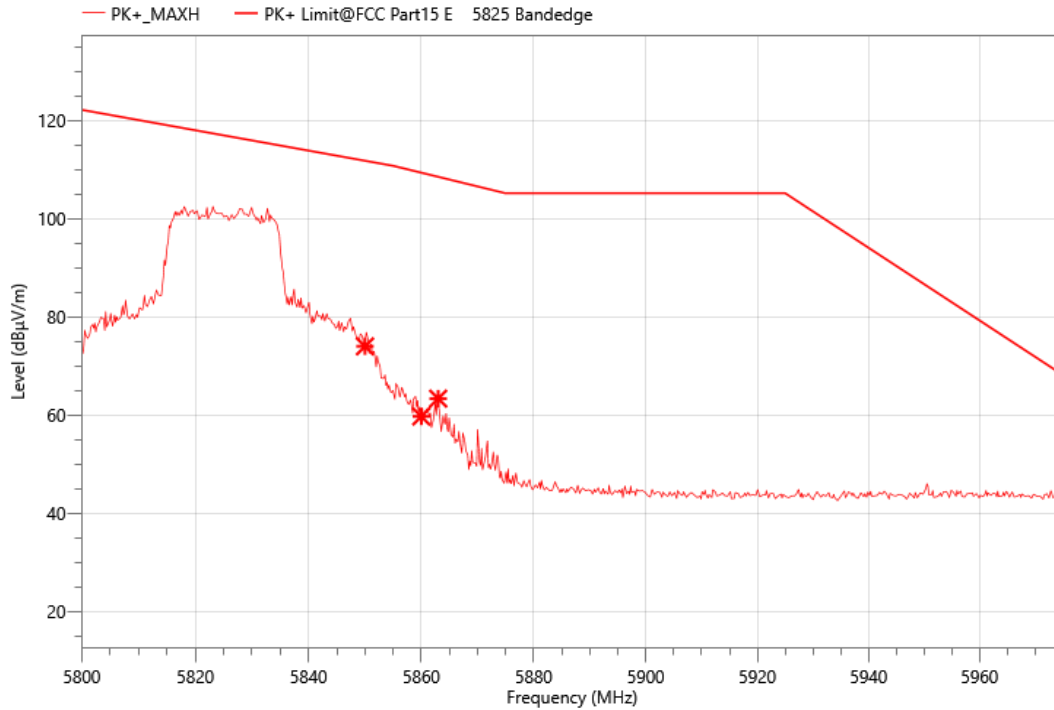


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5850.000	83.81	-9.45	74.36	111.83	37.47	PK+	H
2	5860.000	73.72	-9.39	64.33	109.40	45.07	PK+	H
3	5863.875	75.25	-9.41	65.84	108.31	42.47	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Test Standard	FCC Part15 E 5825 Bandedge				
Instrument	Device	Band	Detector	RBW	Time
FSV	Projector	5.8 GHz-5.975 GHz	PK+	1 MHz	Auto



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	5850.000	83.44	-9.45	73.99	111.83	37.84	PK+	V
2	5860.000	69.07	-9.39	59.68	109.40	49.72	PK+	V
3	5863.000	72.74	-9.41	63.33	108.56	45.23	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]