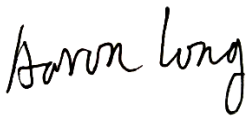
Product Name:Tablet	**Report No: ITEZA2-202400058RF5**
Product Model: T30 Max, T30 Max Cypher, T30 Max Flash, T30 Max Fire, T30 Max Storm, T30 Max Elite, T30 Max Nova	**Security Classification: Open**
Version: V1.0	**Total Page:172**

TIRT Testing Report

Prepared By:	**Checked By:**	**Approved By:**	
Aaron Long	Stone Tang	Joky Wang	
			

FCCRadio Test Report

FCC ID: 2AX4YT30MAX

This report concerns:Original Grant

Applicant:	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
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
Sample No:	1000029923
Product Name:	Tablet
Brand Name:	DOOGEE
Model No.:	T30 Max, T30 Max Cypher, T30 Max Flash, T30 Max Fire, T30 Max Storm, T30 Max Elite, T30 Max Nova
Test No.:	T30 Max

Date of Receipt:	2024/03/20
Date of Test:	2024/03/20~2024/04/02
Issued Date:	2024/04/08
Testing Lab:	TIRT

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
ITEZA2-202400058RF5	V1.0	OriginalReport.	2024.04.08	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
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
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 ~ 18GHz)	±4.9dB
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%	DC 3.8V from battery	Stone Tang
Radiated Emissions-9kHz to 30MHz	24.5°C	50%	DC 3.8V from battery	Stone Tang
Radiated Emissions-30MHz to 1000MHz	24.2°C	53%	DC 3.8V from battery	Stone Tang
Radiated Emissions-Above 1000 MHz	26.0°C	53%	DC 3.8V from battery	Stone Tang
Bandwidth	25.0°C	56%	DC 3.8V from battery	Stone Tang
Maximum Output Power	24.9°C	54%	DC 3.8V from battery	Stone Tang
Power Spectral Density	25.1°C	62%	DC 3.8V from battery	Stone Tang

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet
Brand Name	DOOGEE
Test Model	T30 Max
Series Model	T30 Max, T30 Max Cypher, T30 Max Flash, T30 Max Fire, T30 Max Storm, T30 Max Elite, T30 Max Nova
Model Difference(s)	There is no difference except the name of the model
Software Version	DOOGEE-T30 Max-EEA-Android14.0-20240318
Hardware Version	P3T_TV1.0_20240120
Power Rating	DC 3.8V from battery or DC 11V from adapter
Operation FrequencyBand(s)	UNII-1: 5180 MHz~5240 MHz UNII-2A: 5260 MHz ~ 5320 MHz UNII-2C: 5500 MHz ~ 5700 MHz UNII-3: 5745 MHz~5825MHz
Modulation Type	IEEE 802.11n: OFDM (64QAM,16QAM,QPSK,BPSK) IEEE 802.11a: OFDM (64QAM,16QAM,QPSK,BPSK) IEEE802.11ac: OFDM (64QAM,16QAM, 256QAM,QPSK,BPSK)
Maximum Output Power _UNII-1	IEEE 802.11n20: 13.07dBm(0.020277W)
Maximum Output Power _UNII-2A	IEEE 802.11n20: 11.92dBm(0.015560W)
Maximum Output Power _UNII-2C	IEEE 802.11n20: 10.00dBm(0.010000W)
Maximum Output Power _UNII-3	IEEE 802.11n20: 10.71dBm(0.011776W)

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-2C		UNII-2C		UNII-2C	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
116	5580	110	5550		
136	5680				
140	5700				

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.	Manufactured	Model Name	Antenna Type	Connector	Gain (dBi)
1	SHENZHEN HENGXIANGTONG ANTENNA TECNOLOGY CO., LTD.	P3T	PIFA	N/A	2.1

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 ModeChannel 36/40/48 (UNII-1)
Mode 2	TX N(HT20) ModeChannel 36/40/48 (UNII-1)
Mode 3	TX N(HT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT20) ModeChannel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) ModeChannel 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)
Mode 19	TX A Mode Channel 100/116/140 (UNII-2C)
Mode 20	TX N(HT20) Mode Channel 100/116/140 (UNII-2C)
Mode 21	TX N(HT40) Mode Channel 102/110/134 (UNII-2C)
Mode 22	TX AC(VHT20) Mode Channel 100/116/140 (UNII-2C)
Mode 23	TX AC(VHT40) Mode Channel 102/110/134 (UNII-2C)
Mode 24	TX AC(VHT80) Mode Channel 106/122 (UNII-2C)

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 ModeChannel 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 ModeChannel 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 andradiated 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 tobe 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.

2.3DUTY CYCLE

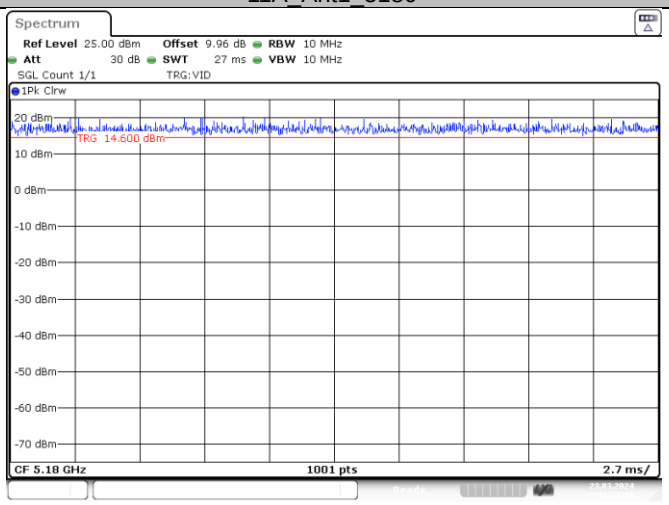
If duty cycle is ≥ 98 %, duty factor is not required.
If duty cycle is < 98 %, duty factor shall be considered.
The output power = measured power + duty factor.
The power spectral density = measured power spectral density + duty factor.

TestMode	Antenna	Freq(MHz)	TransmissionDuration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	27.00	27.00	100.00
		5200	27.00	27.00	100.00
		5240	27.00	27.00	100.00
		5260	27.00	27.00	100.00
		5280	27.00	27.00	100.00
		5320	27.00	27.00	100.00
		5500	27.00	27.00	100.00
		5580	27.00	27.00	100.00
		5700	27.00	27.00	100.00
		5745	27.00	27.00	100.00
		5785	27.00	27.00	100.00
		5825	27.00	27.00	100.00
11N20SISO	Ant1	5180	27.00	27.00	100.00
		5200	27.00	27.00	100.00
		5240	27.00	27.00	100.00
		5260	27.00	27.00	100.00
		5280	27.00	27.00	100.00
		5320	27.00	27.00	100.00
		5500	27.00	27.00	100.00
		5580	27.00	27.00	100.00
		5700	27.00	27.00	100.00
		5745	27.00	27.00	100.00
		5785	27.00	27.00	100.00
		5825	27.00	27.00	100.00
11N40SISO	Ant1	5190	27.00	27.00	100.00
		5230	27.00	27.00	100.00
		5270	27.00	27.00	100.00
		5310	27.00	27.00	100.00
		5510	27.00	27.00	100.00
		5550	27.00	27.00	100.00
		5670	27.00	27.00	100.00
		5755	27.00	27.00	100.00
		5795	27.00	27.00	100.00
11AC20SISO	Ant1	5180	27.00	27.00	100.00
		5200	27.00	27.00	100.00
		5240	27.00	27.00	100.00
		5260	27.00	27.00	100.00
		5280	27.00	27.00	100.00
		5320	27.00	27.00	100.00
		5500	27.00	27.00	100.00
		5580	27.00	27.00	100.00
		5700	27.00	27.00	100.00
		5745	27.00	27.00	100.00
		5785	27.00	27.00	100.00
		5825	27.00	27.00	100.00
11AC40SISO	Ant1	5190	27.00	27.00	100.00
		5230	27.00	27.00	100.00
		5270	27.00	27.00	100.00
		5310	27.00	27.00	100.00
		5510	27.00	27.00	100.00
		5550	27.00	27.00	100.00
		5670	27.00	27.00	100.00
		5755	27.00	27.00	100.00
		5795	27.00	27.00	100.00
11AC80SISO	Ant1	5210	27.00	27.00	100.00
		5290	27.00	27.00	100.00
		5530	27.00	27.00	100.00

		5610	27.00	27.00	100.00
		5775	27.00	27.00	100.00

Test Graphs

11A_Ant1_5180



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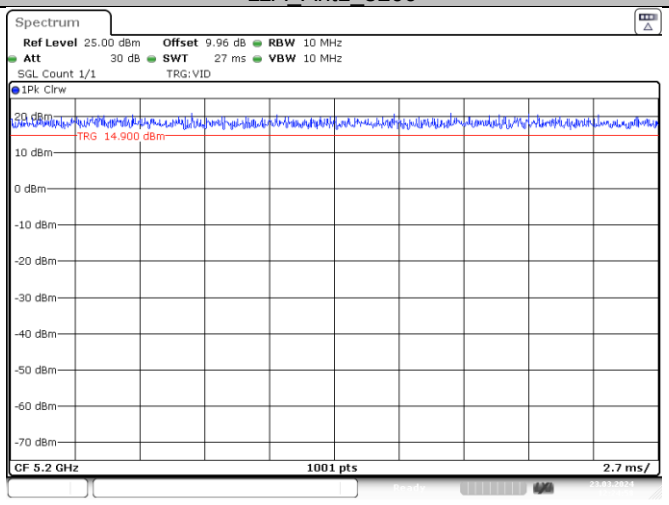

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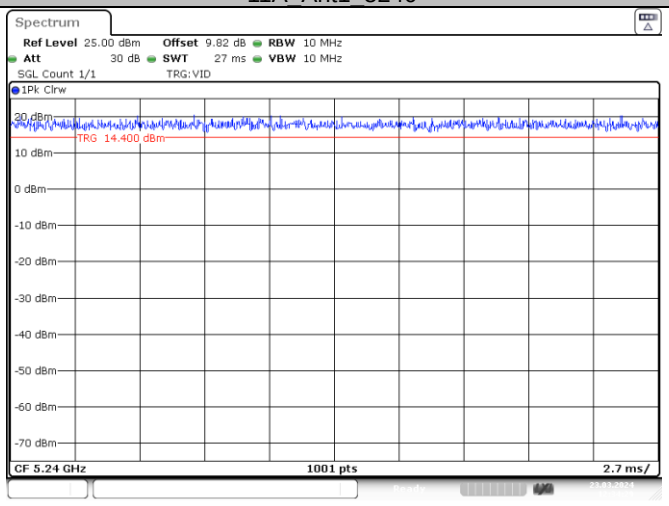

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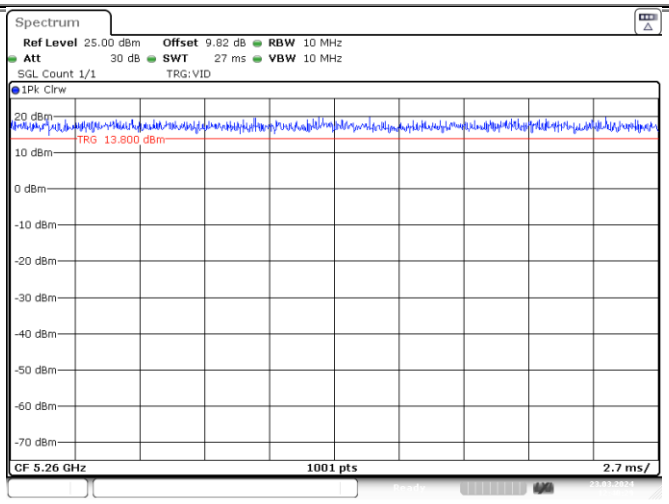

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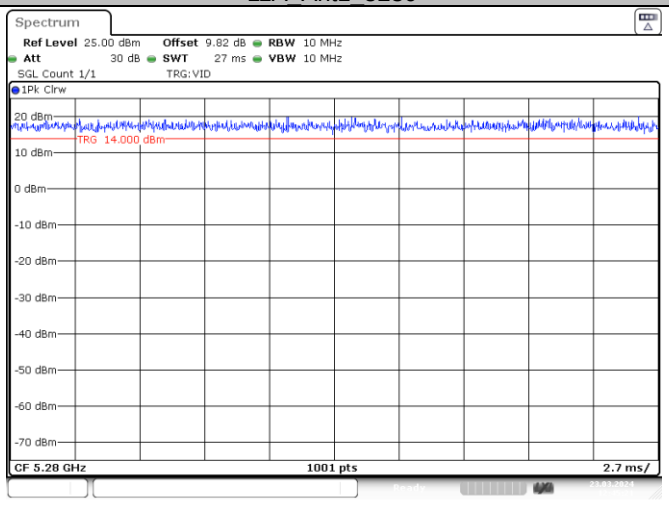

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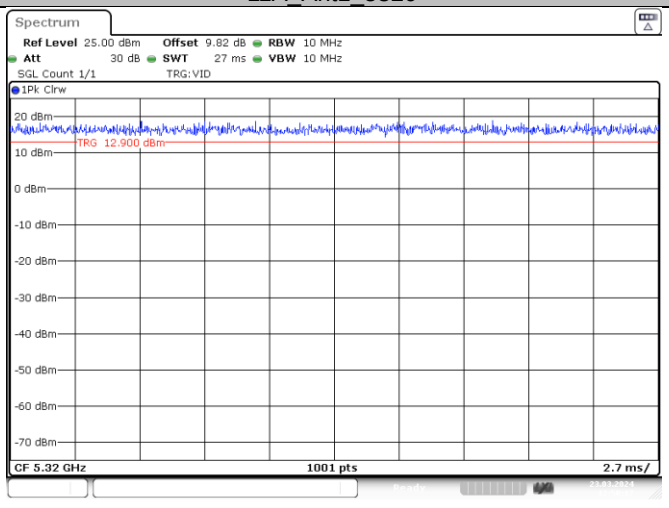

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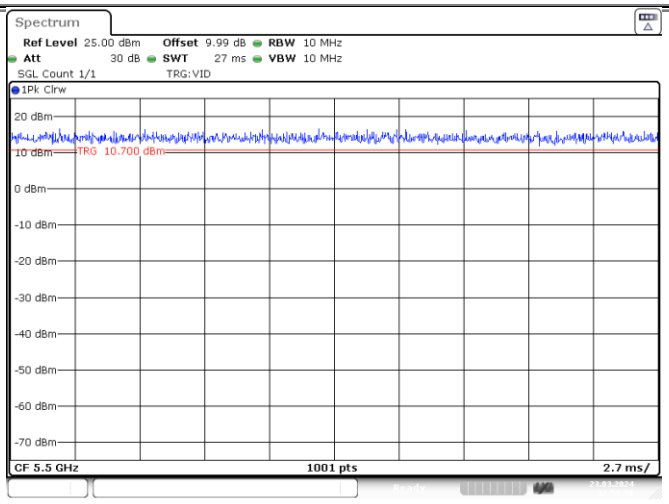

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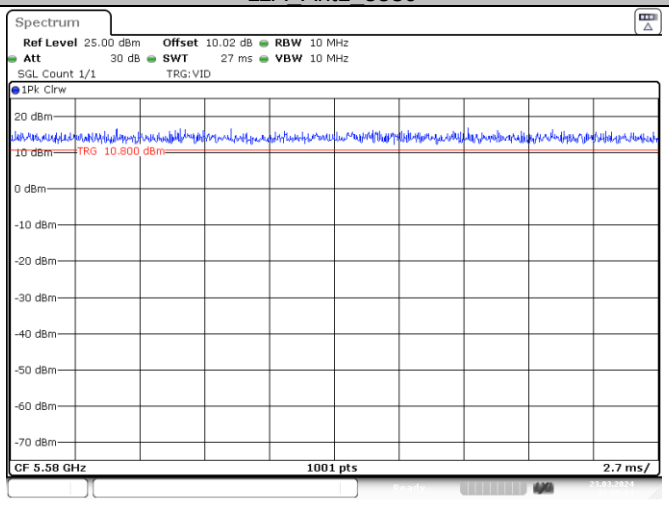

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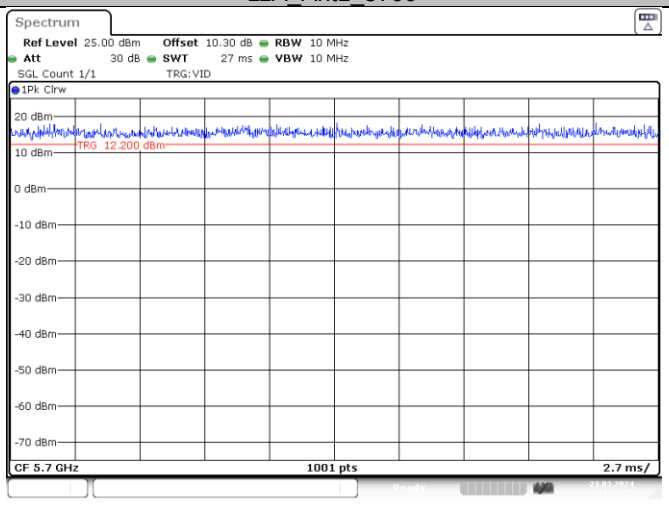

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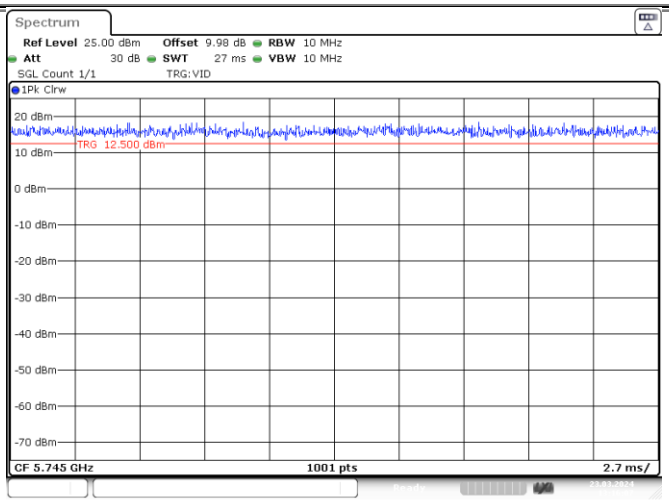

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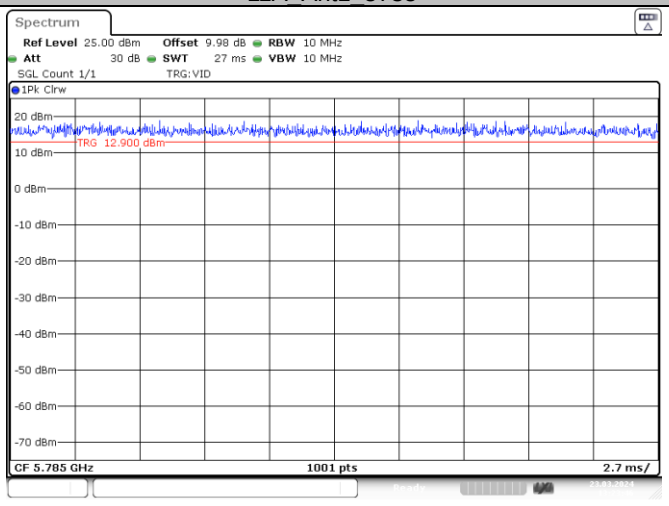

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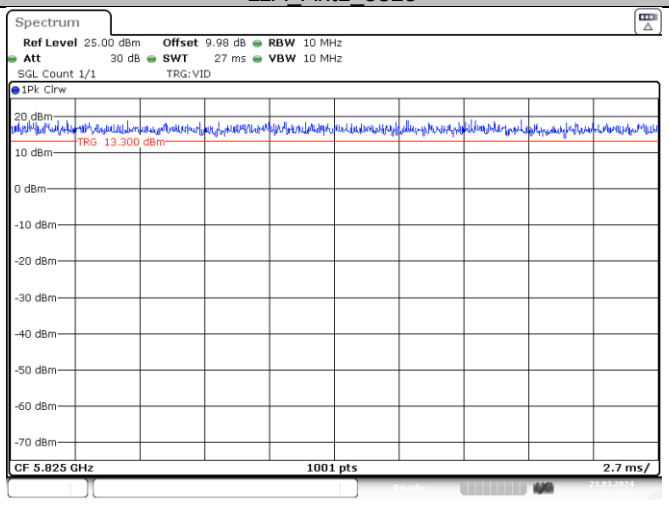

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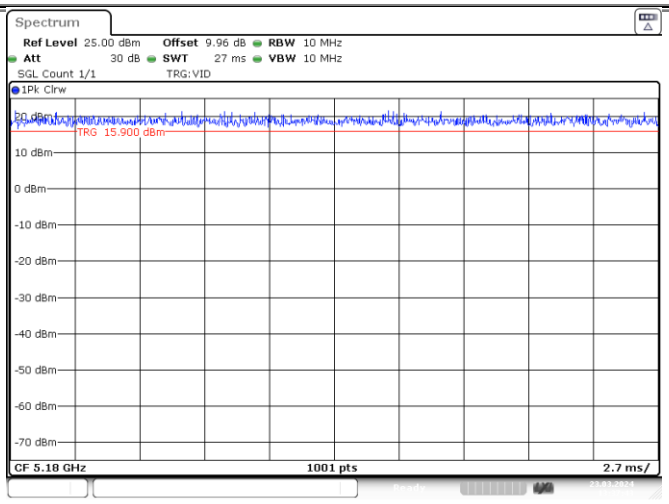

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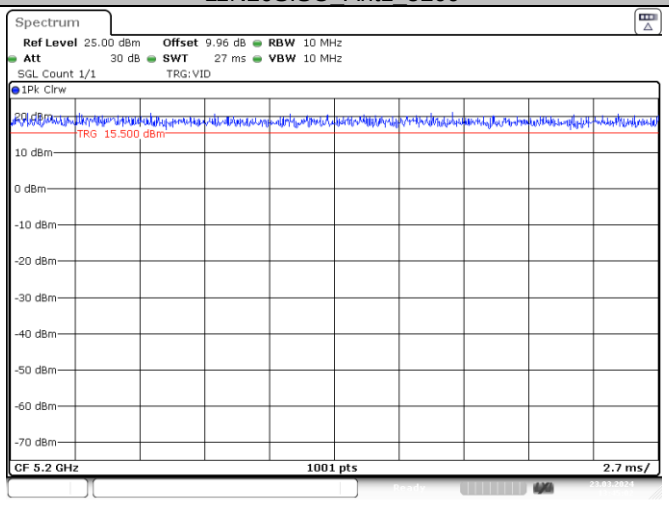

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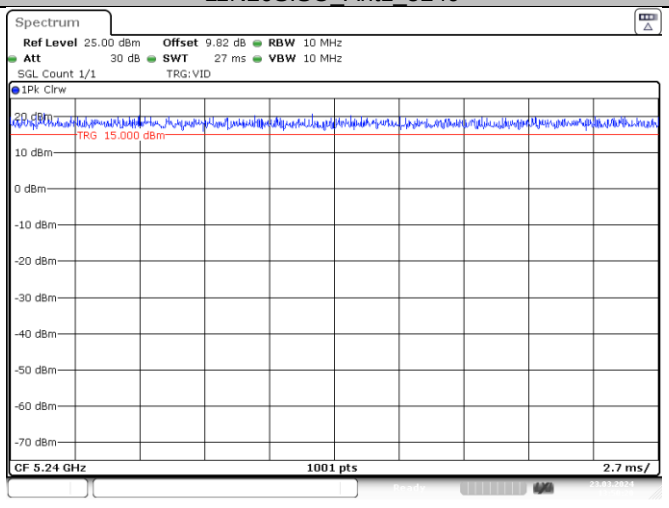

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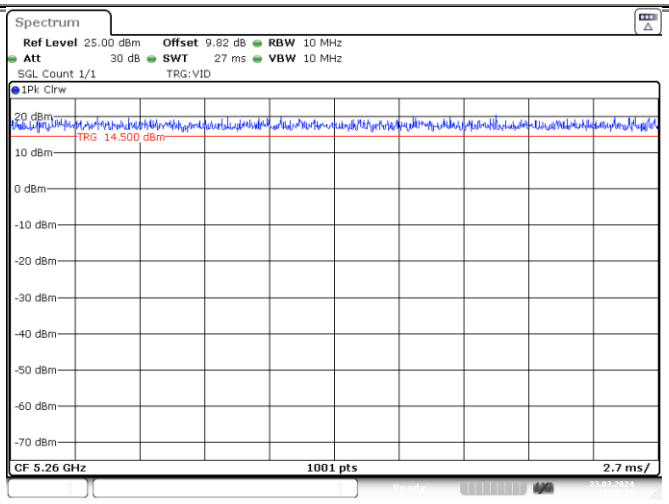

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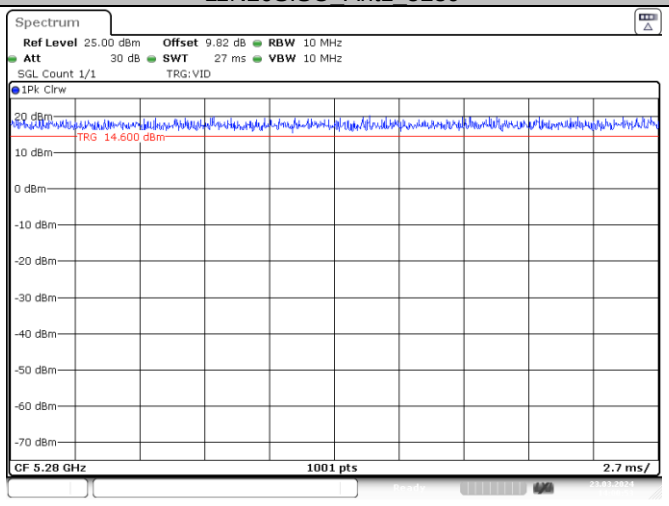

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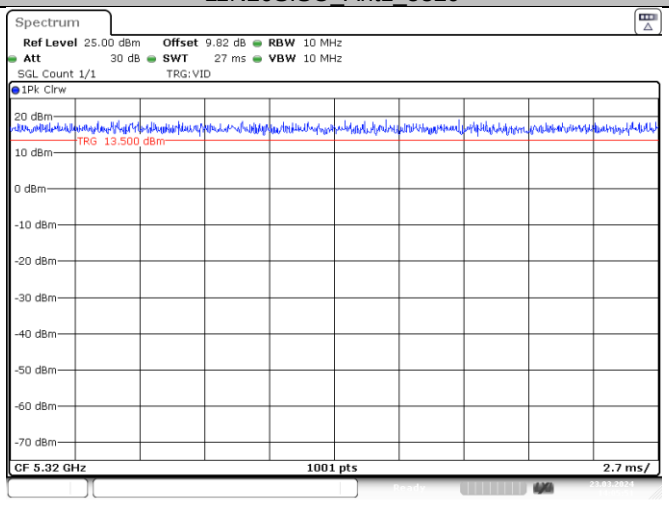

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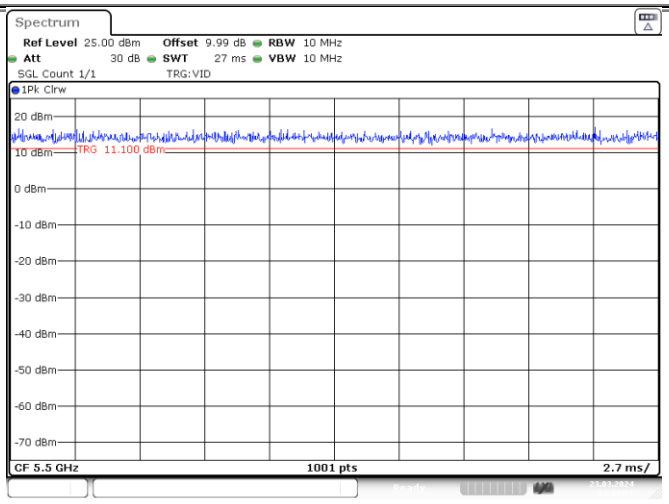

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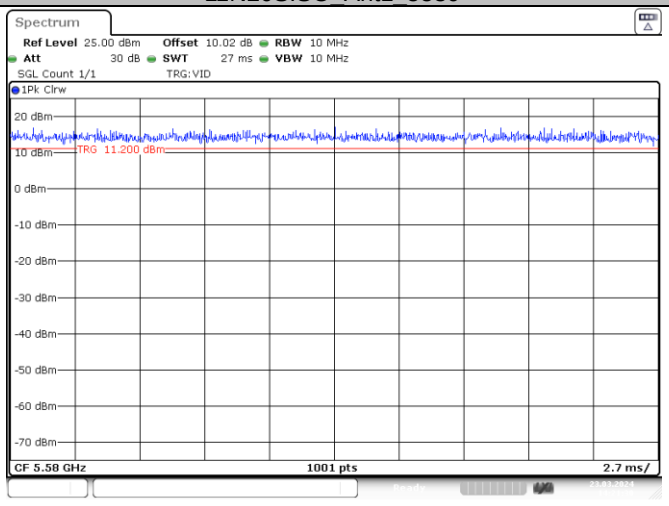

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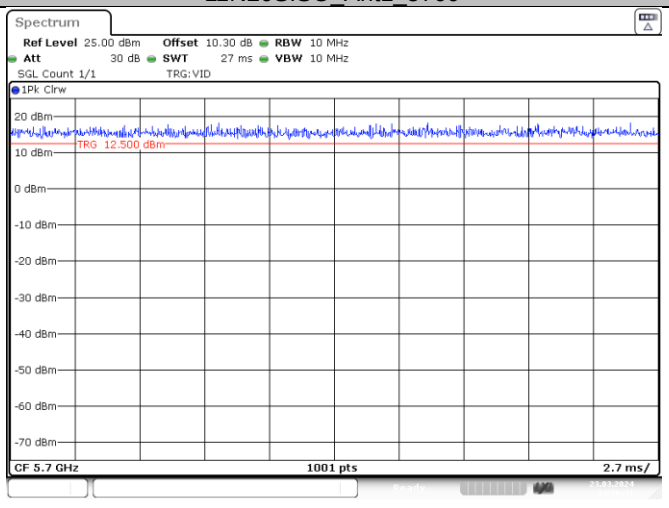

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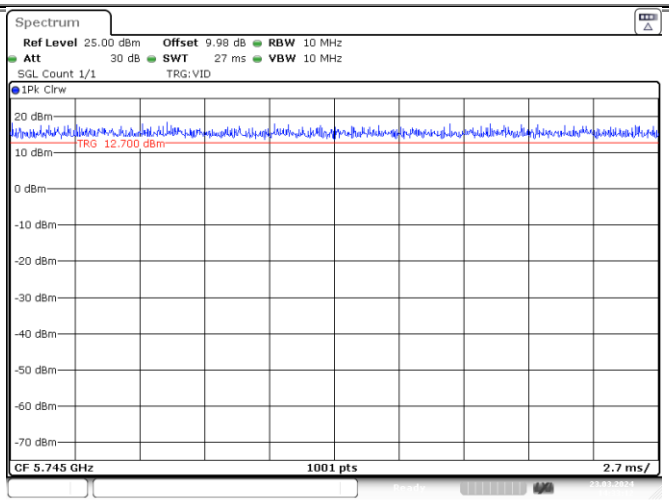

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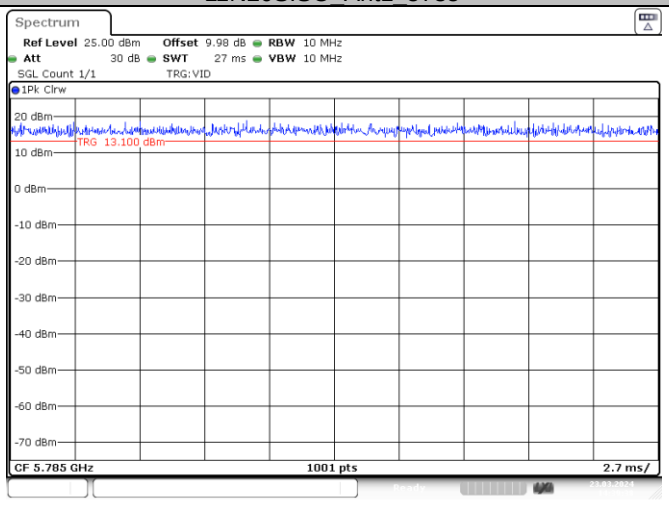

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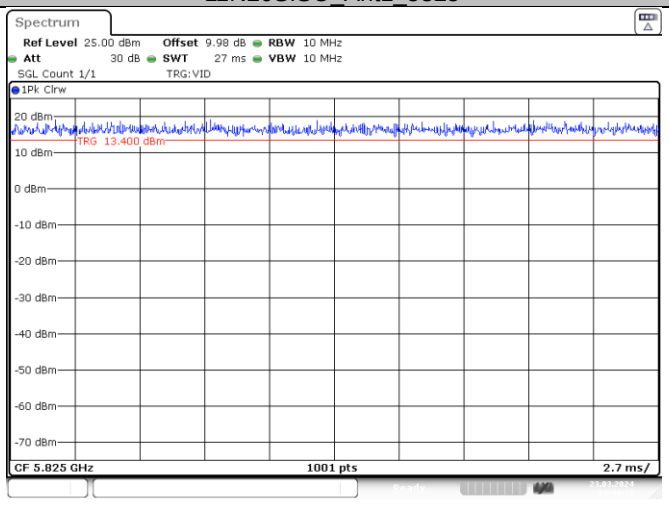

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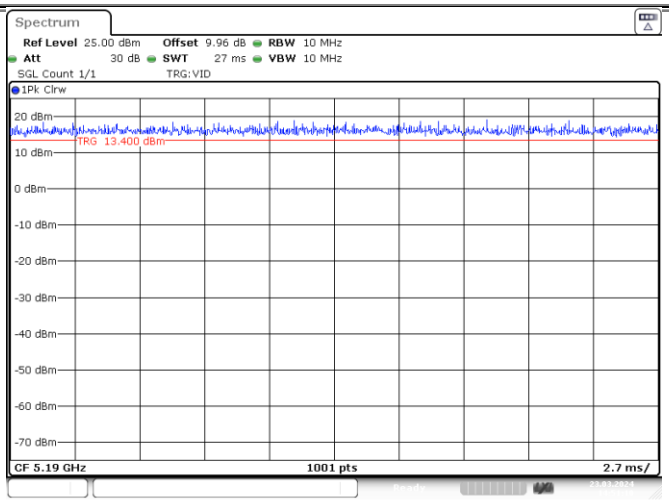

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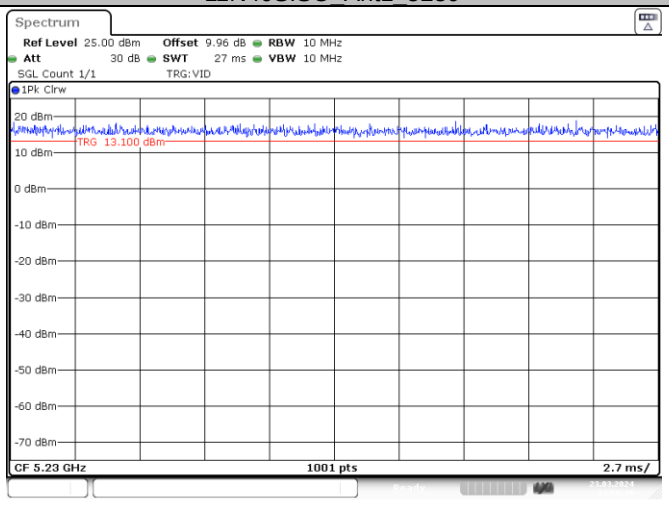

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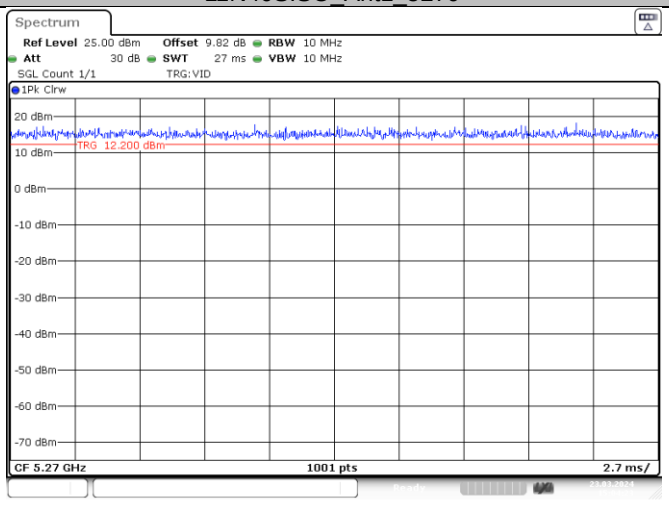

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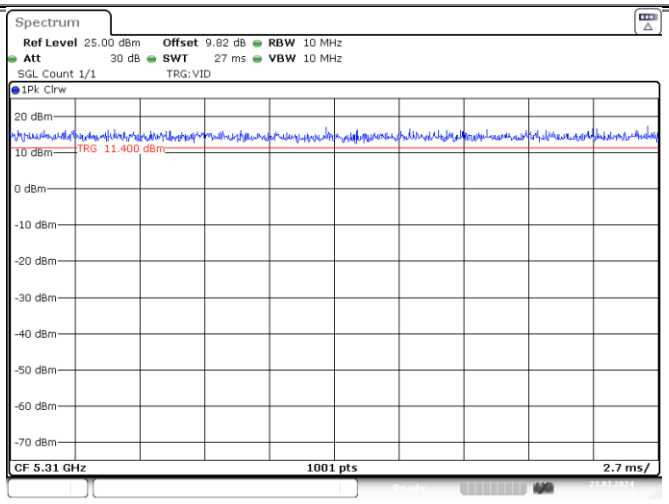

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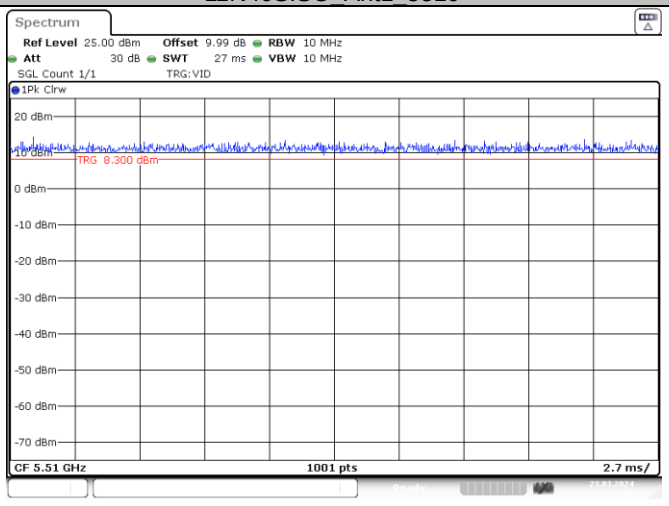

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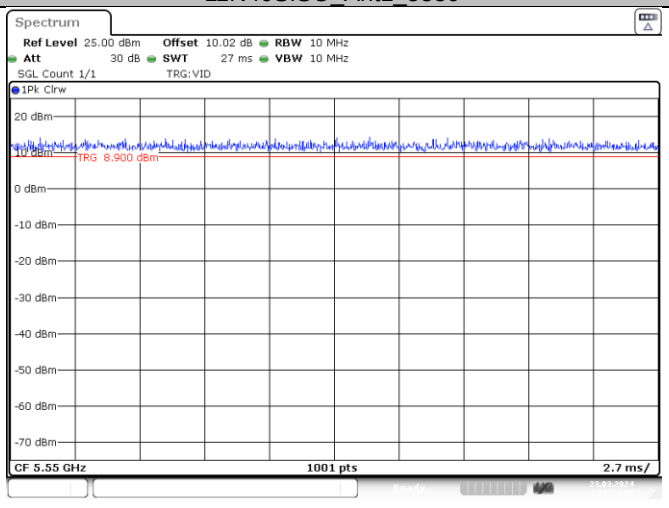

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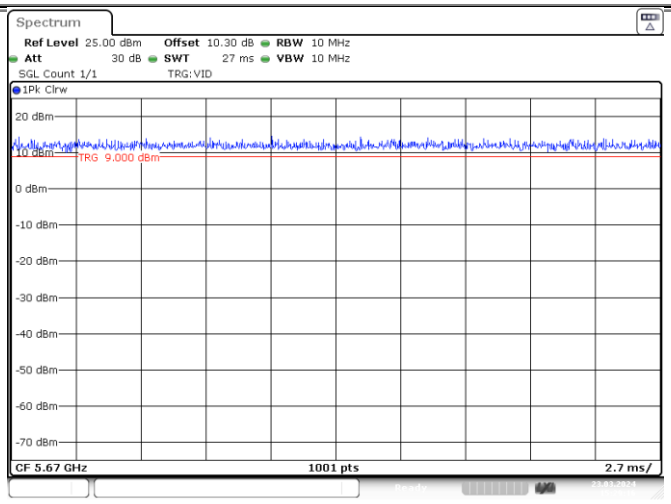

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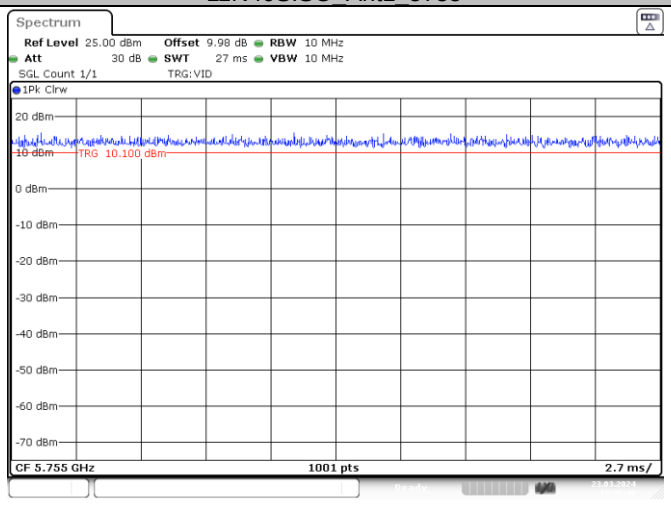

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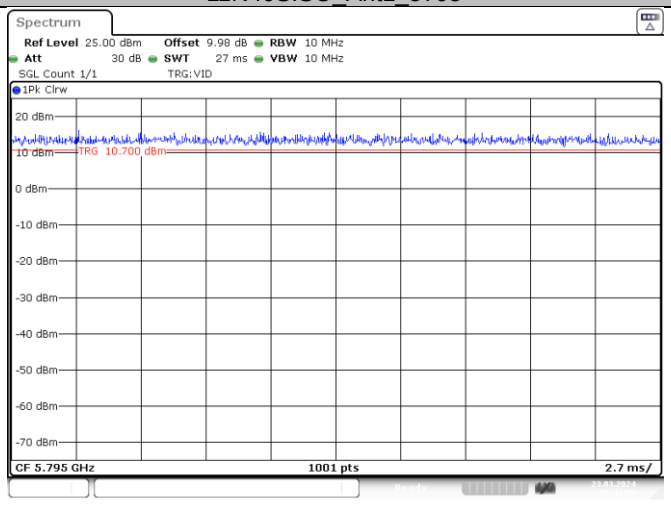

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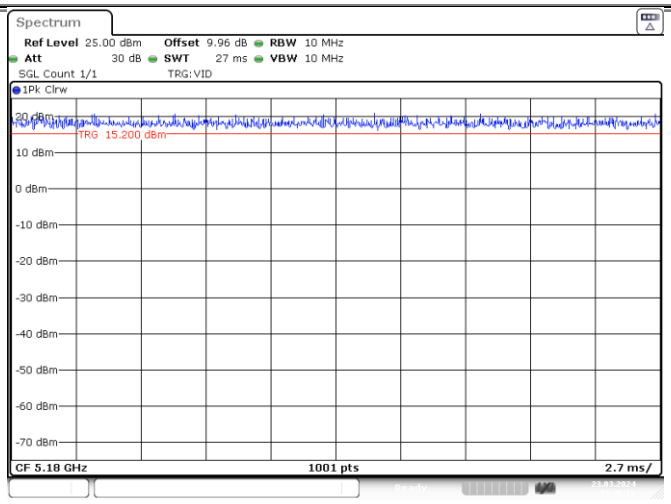

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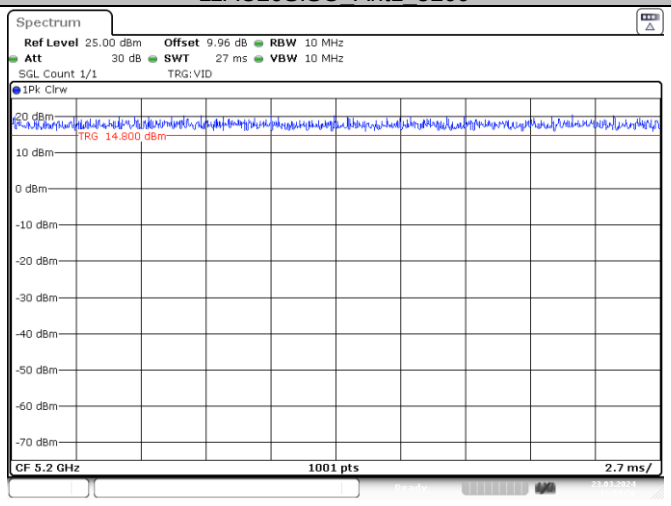

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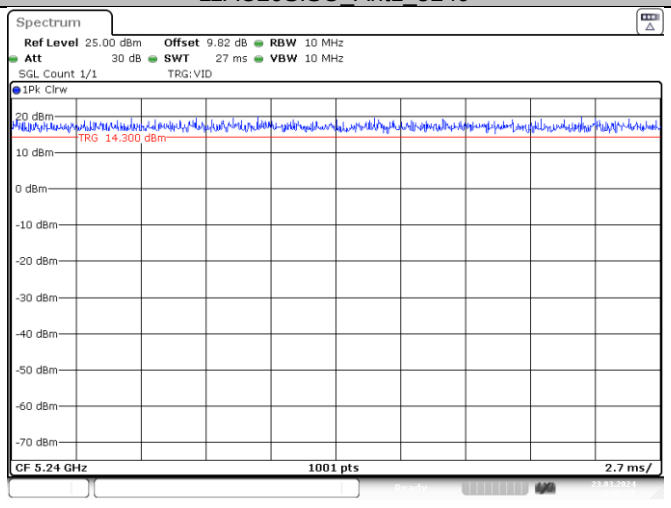

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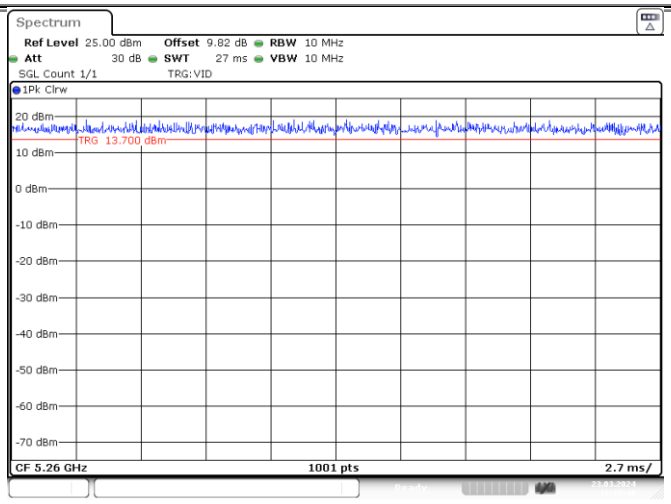

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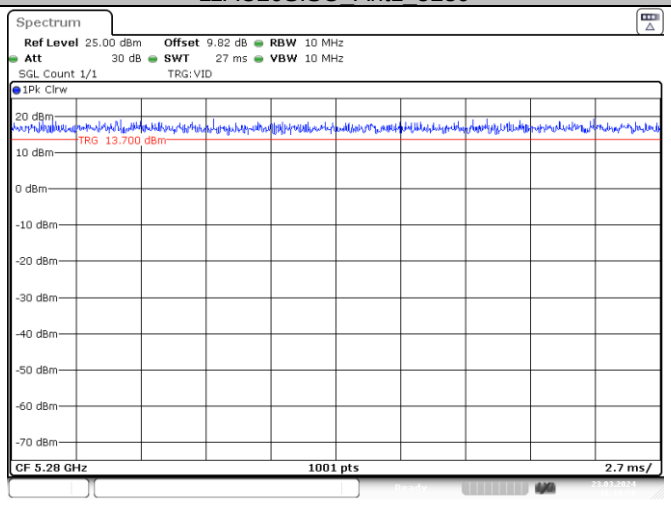

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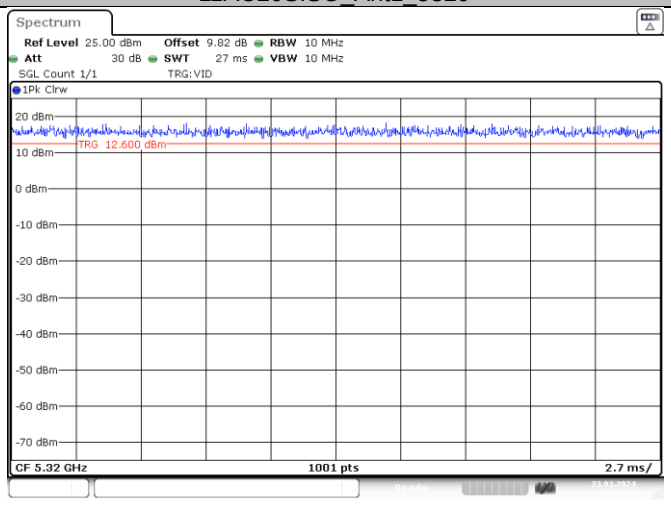

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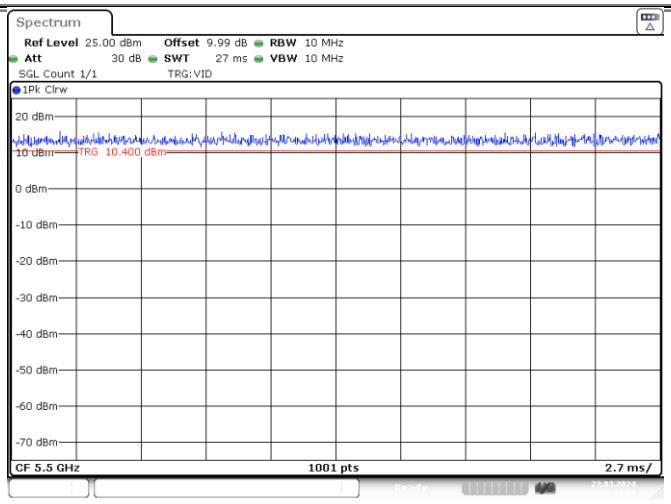

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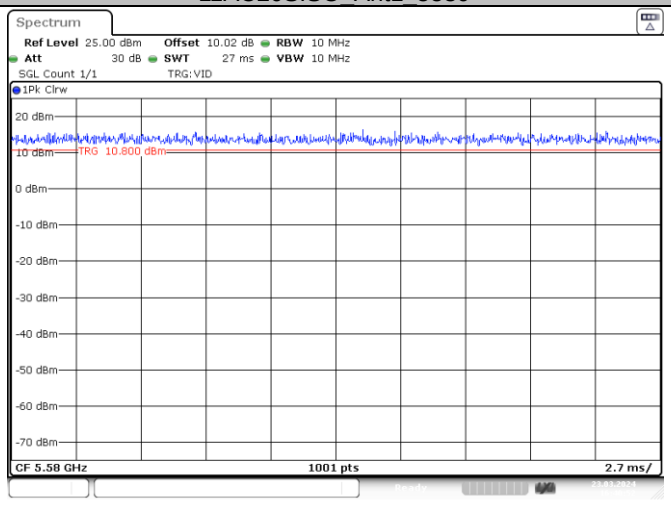

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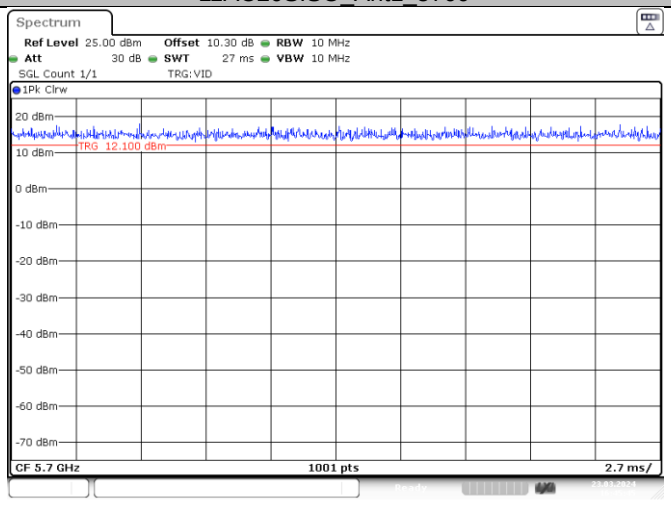

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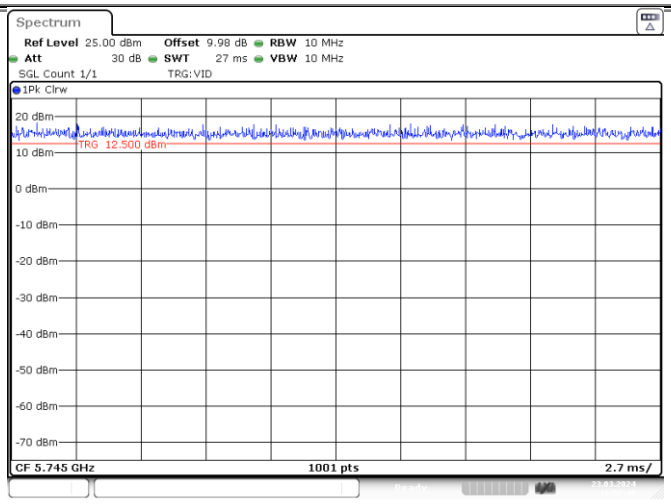

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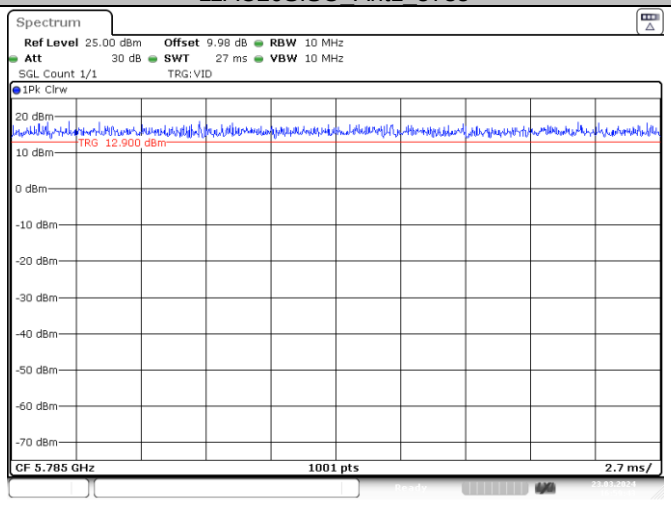

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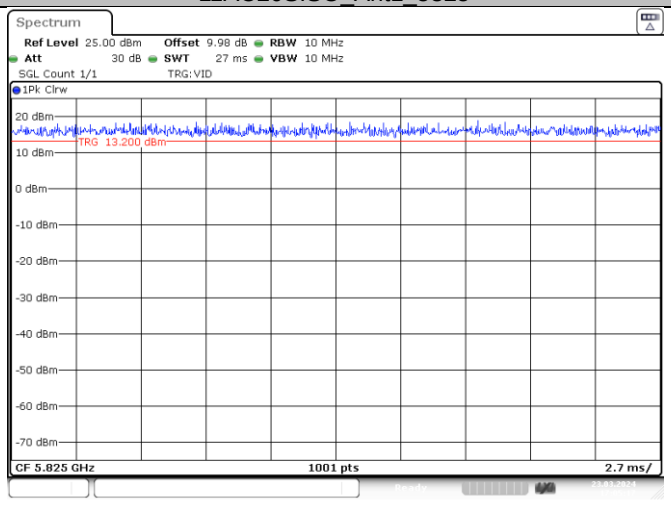

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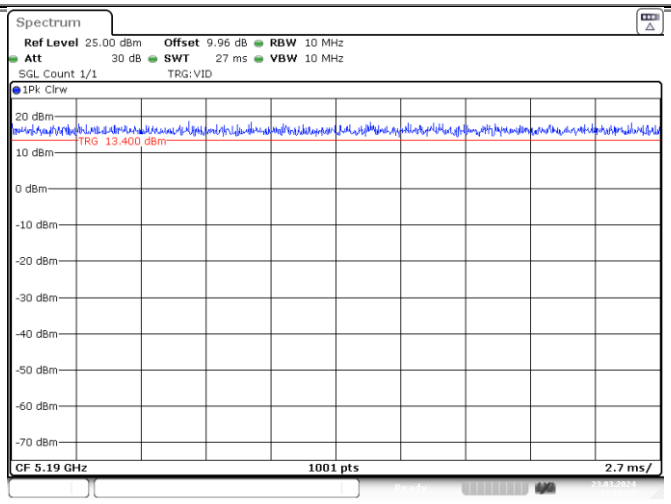

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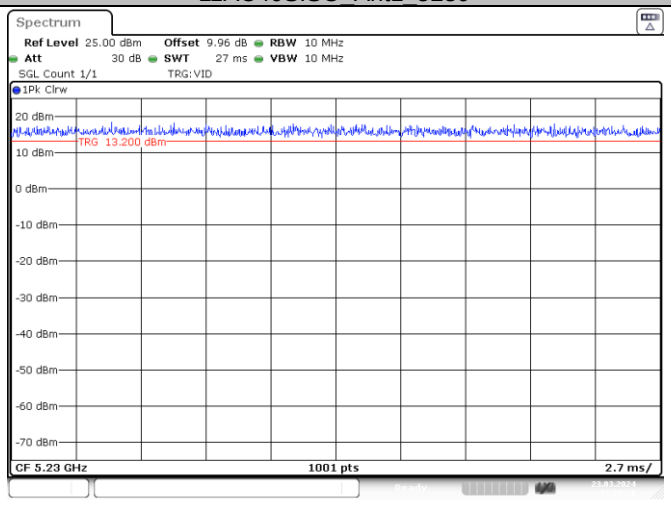

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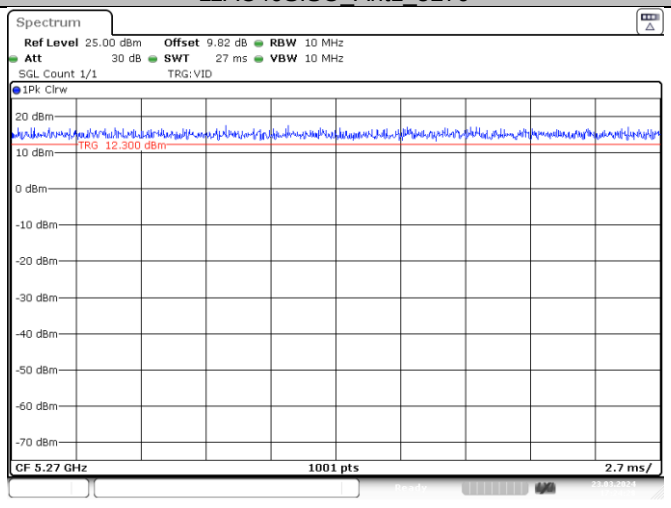

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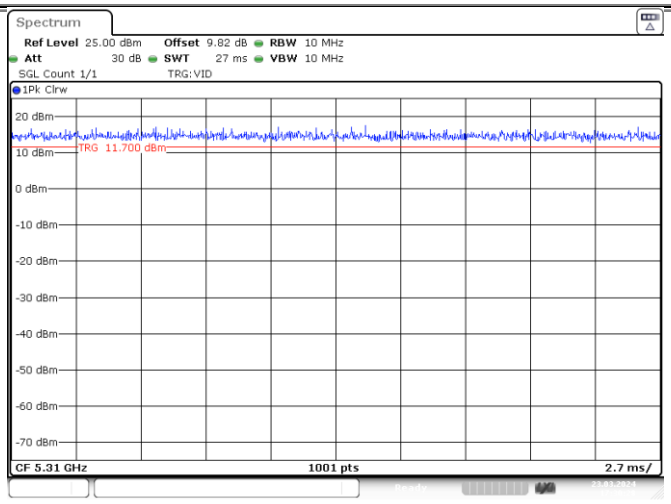

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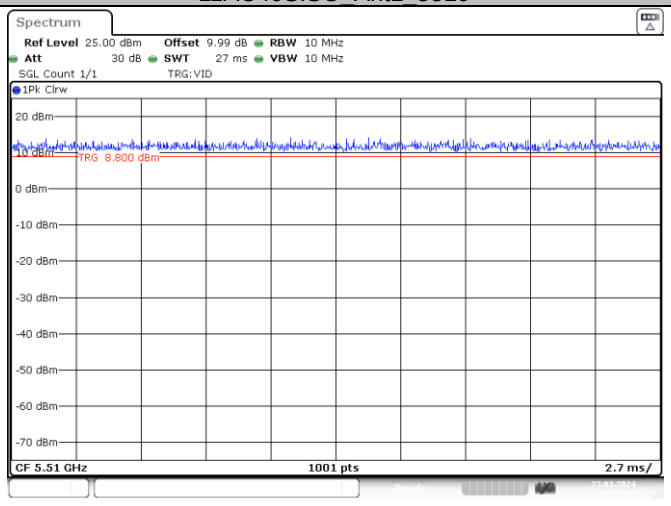

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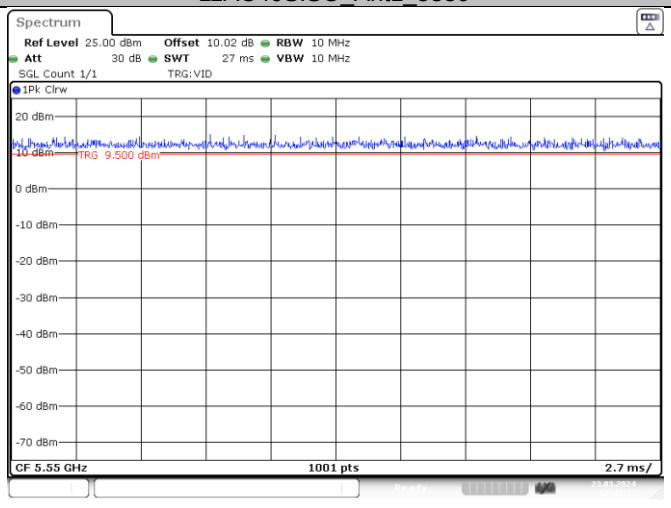

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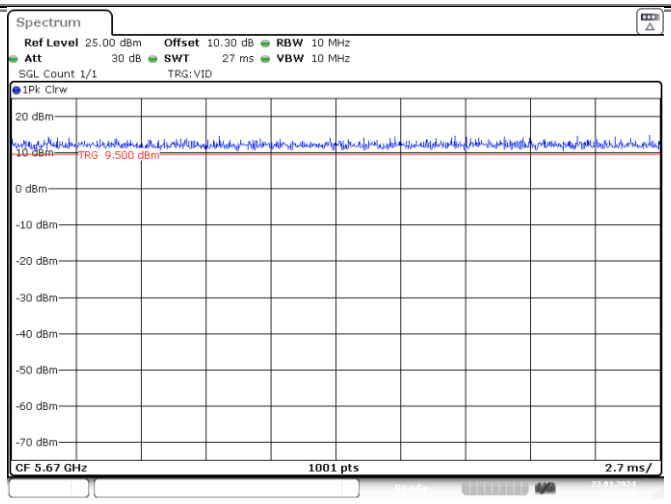

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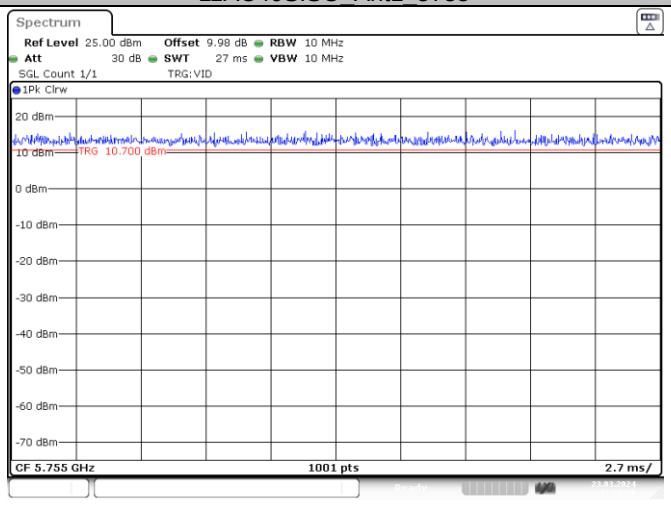

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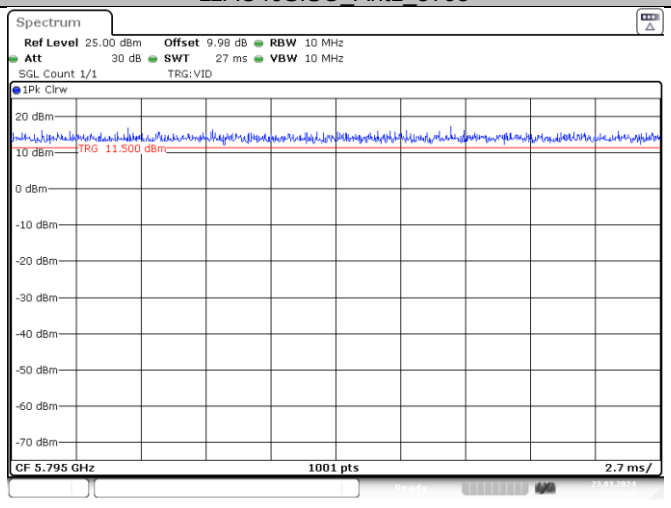

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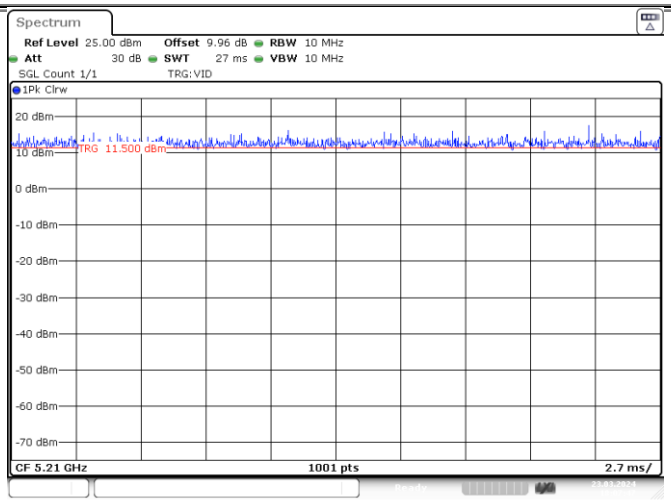

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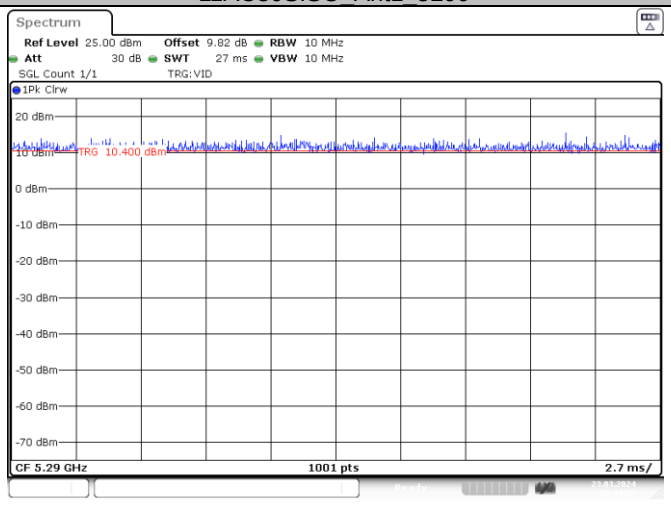

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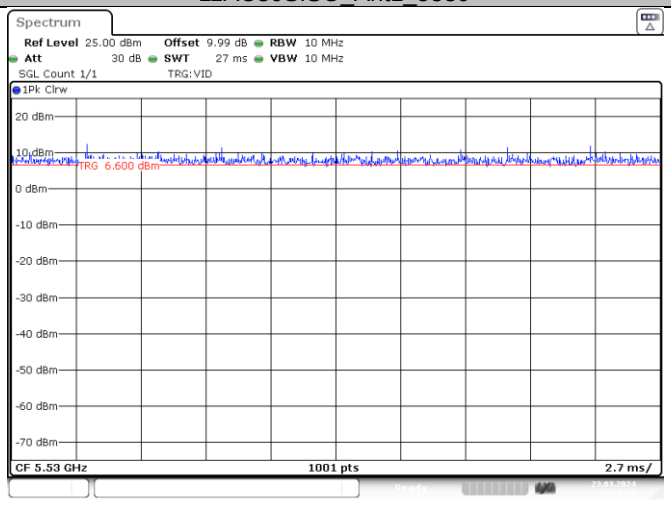

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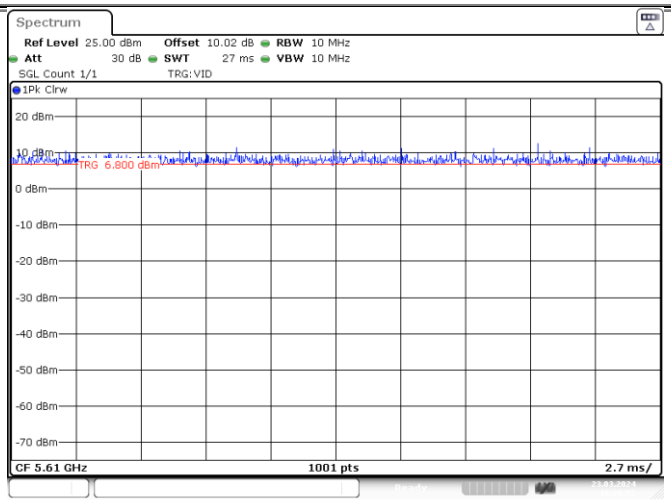

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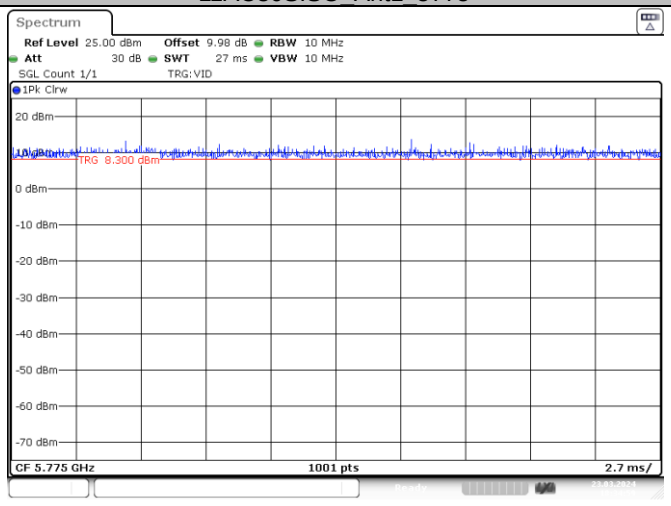


NOTE:
For IEEE 802.11a:
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10Hz (Duty cycle≥ 98%).

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 ≥ 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 ≥ 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 ≥ 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 ≥ 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 ≥ 98%).

2.4BLOCKDIAGRAMSHOWINGTHECONFIGURATIONOFSYSTEMTESTED

EUT

2.5SUPPORT UNITS

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

3.AC POWER LINE CONDUCTED EMISSIONS

3.1LIMIT

Frequency (MHz)	Limit (dBμV)	
	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 equipmentpowered 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 groundplane 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.

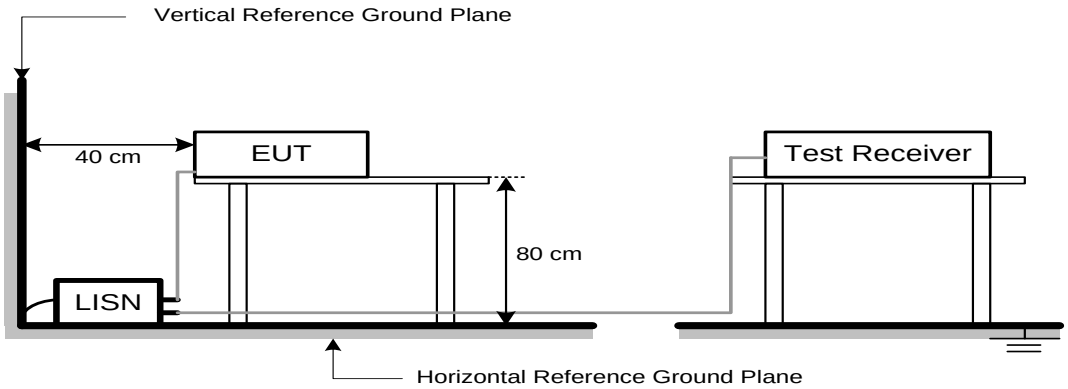
The following table is the setting of the receiver:

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

3.3DEVIATIONFROMTESTSTANDARD

No deviation

3.4TESTSETUP



3.5EUT 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

4.1LIMIT

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 1000MHz)

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:

$E = \frac{1000000\sqrt{30P}}{3}$ μV/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 ormore above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or belowthe band edge, and from 25 MHz above or below the band edge increasing linearly to a level of15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below theband edge increasing linearly to a level of 27 dBm/MHz at the band edge.

4.2TEST PROCEDURE

a. 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)
b. 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)
c. 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.
d. 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).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
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 1GHz)
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 1GHz)
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)	1MHz / 3MHz for PK value 1MHz / 1/THz for AVG value

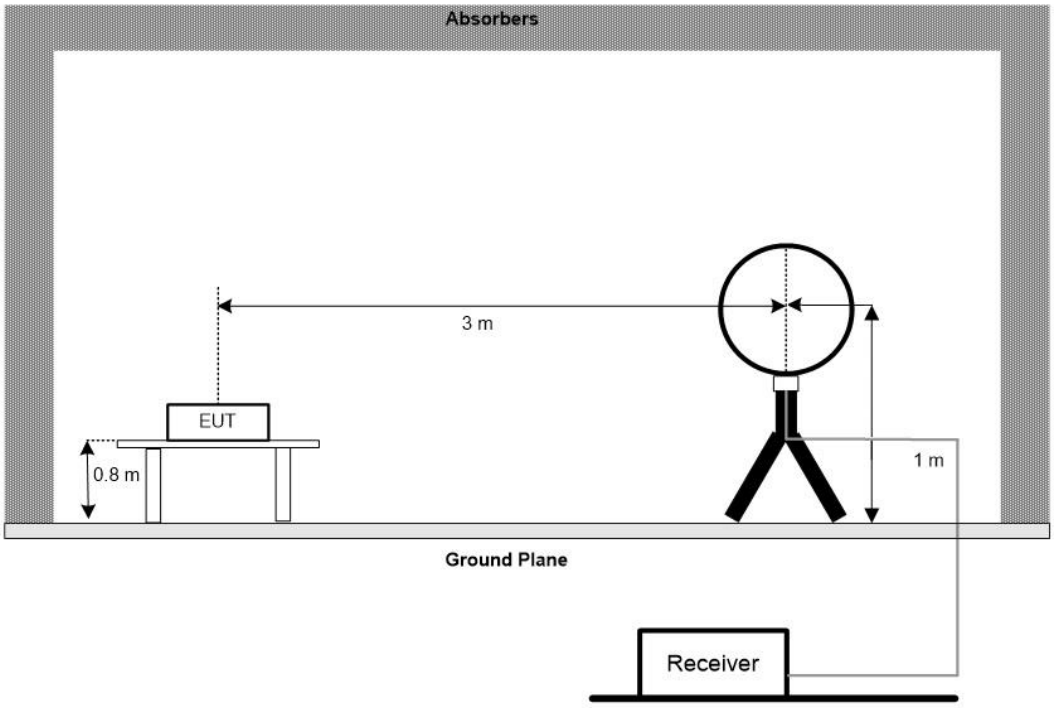
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector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

4.3DEVIATIONFROMTESTSTANDARD

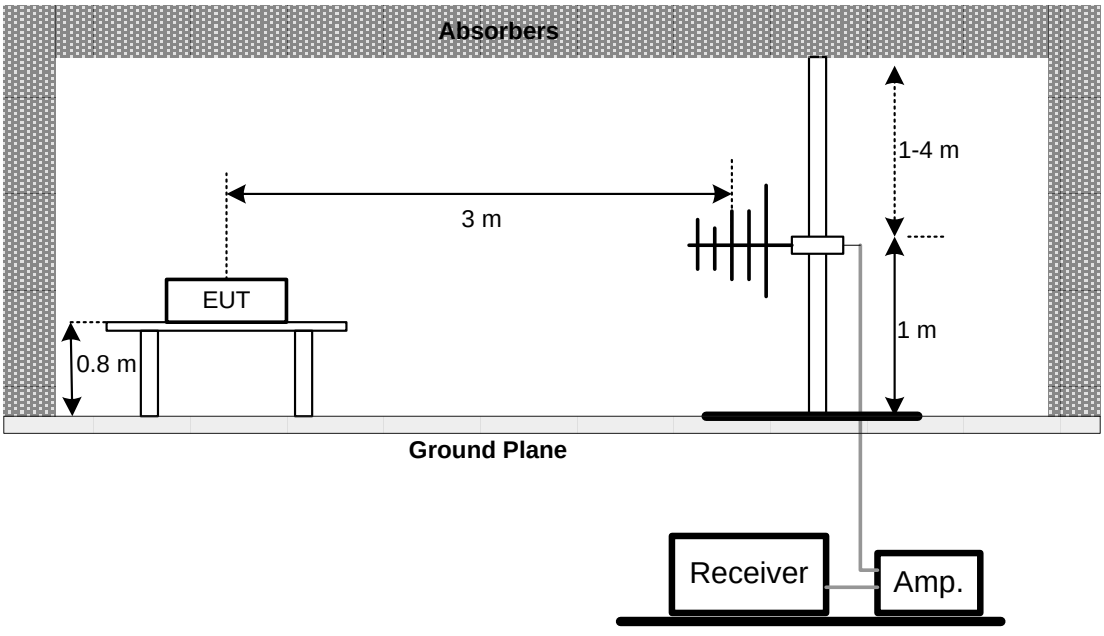
No deviation.

4.4TESTSETUP

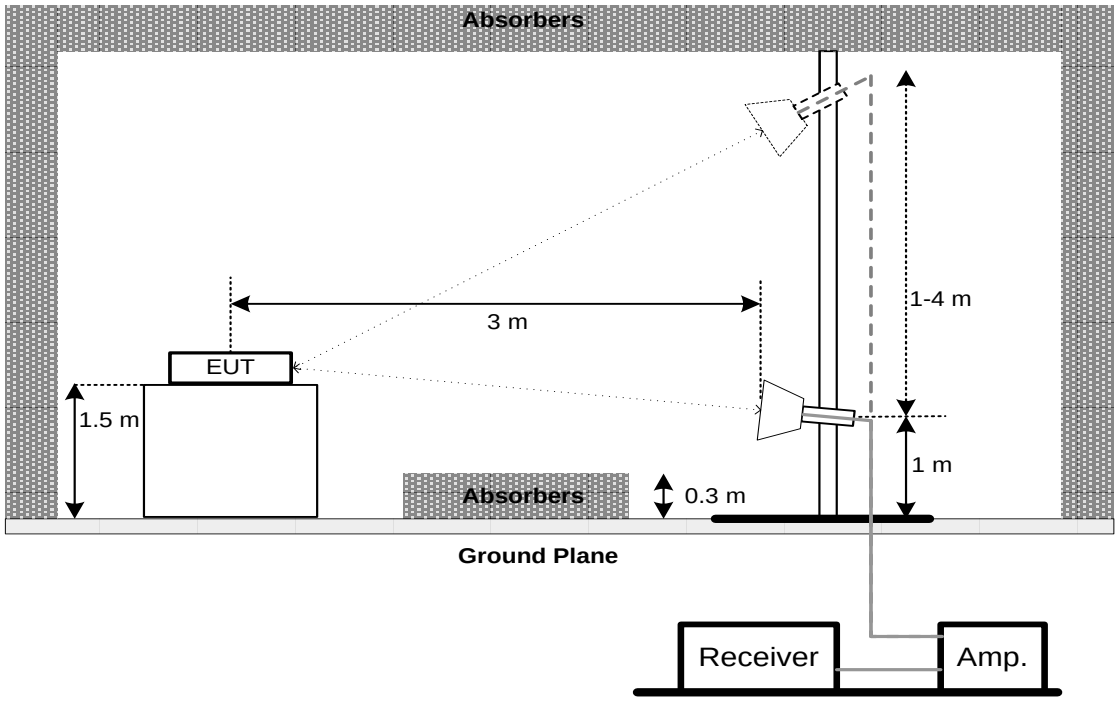
9 kHz to 30 MHz



30 MHz to 1 GHz



Above 1 GHz



4.5EUT 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.

4.6TEST RESULTS - 9 KHZTO 30MHZ

Please refer to the APPENDIX B.

Remark:

(1) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
(2) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.7TEST RESULTS - 30 MHZTO 1000 MHZ

Please refer to the APPENDIX C.

4.8TEST RESULTS - ABOVE1000 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

5.1LIMIT

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
	6dB Bandwidth	Minimum 500 kHz	5725-5850

5.2TEST 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

Spectrum Parameter	Setting
Span Frequency	> 26dB Bandwidth
RBW	Appromiximately 1% of the emission bandwidth
VBW	> RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For UNII-3:

Spectrum Parameter	Setting
Span Frequency	> 6dB Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For 99% Occupied Bandwidth:

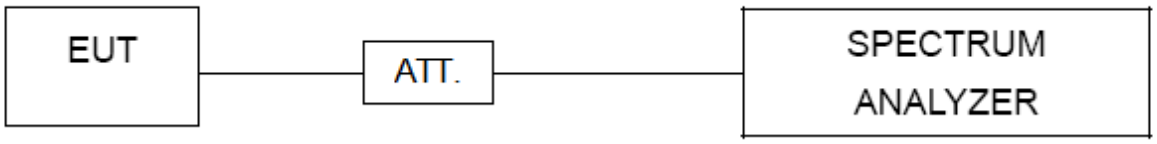
Spectrum Parameter	Setting
Span Frequency	1.5 times to 5 times the OBW
RBW	1% to 5% of the OBW
VBW	≥3*RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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

5.3DEVIATION FROM STANDARD

No deviation.

5.4TEST SETUP



5.5EUT 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

6.1LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	MaximumOutput Power	AP device:1 Watt (30dBm) Client device: 250mW (23.98dBm)	5150-5250
		250mW (23.98dBm)	5250-5350
		250mW (23.98dBm)	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 dBm + 10log B, where B is the 26dB Bandwidth in megahertz.

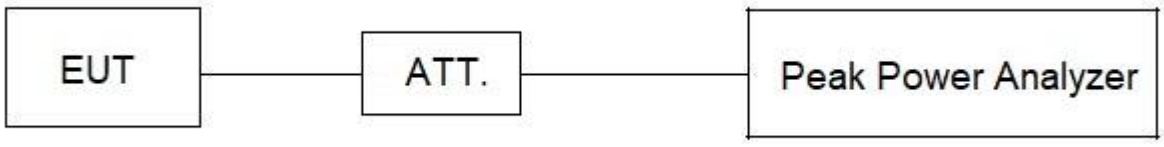
6.2TEST PROCEDURE

a. The EUT was directly connected to the peak power 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.

6.3DEVIATION FROM STANDARD

No deviation.

6.4TEST SETUP



6.5EUT 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

7.1LIMIT

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

7.2TEST 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

Spectrum Parameter	Setting
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1MHz.
VBW	3MHz.
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	100 kHz.
VBW	300 kHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

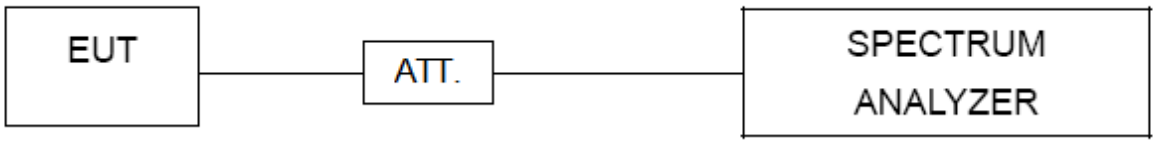
Note:

1. 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 500kHz RBW. Then, add 10 log (500 kHz/100 kHz) to the measured result, i.e. 7 dB.
2. 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 dB when RBW=100kHz is used.

7.3DEVIATION FROM STANDARD

No deviation.

7.4TEST SETUP



7.5EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIXG.

8.FREQUENCY STABILITY

8.1LIMIT

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

8.2TEST 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:

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

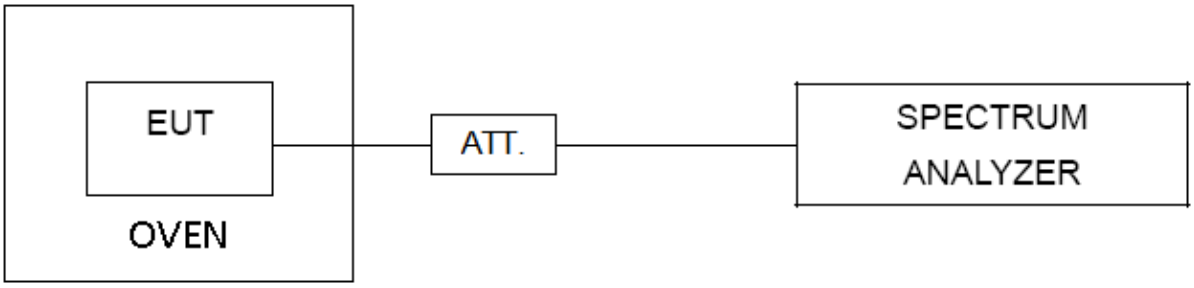
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

d. User manual temperature is-30°C~75°C.

8.3DEVIATION FROM STANDARD

No deviation.

8.4TEST SETUP



8.5EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

N/A.

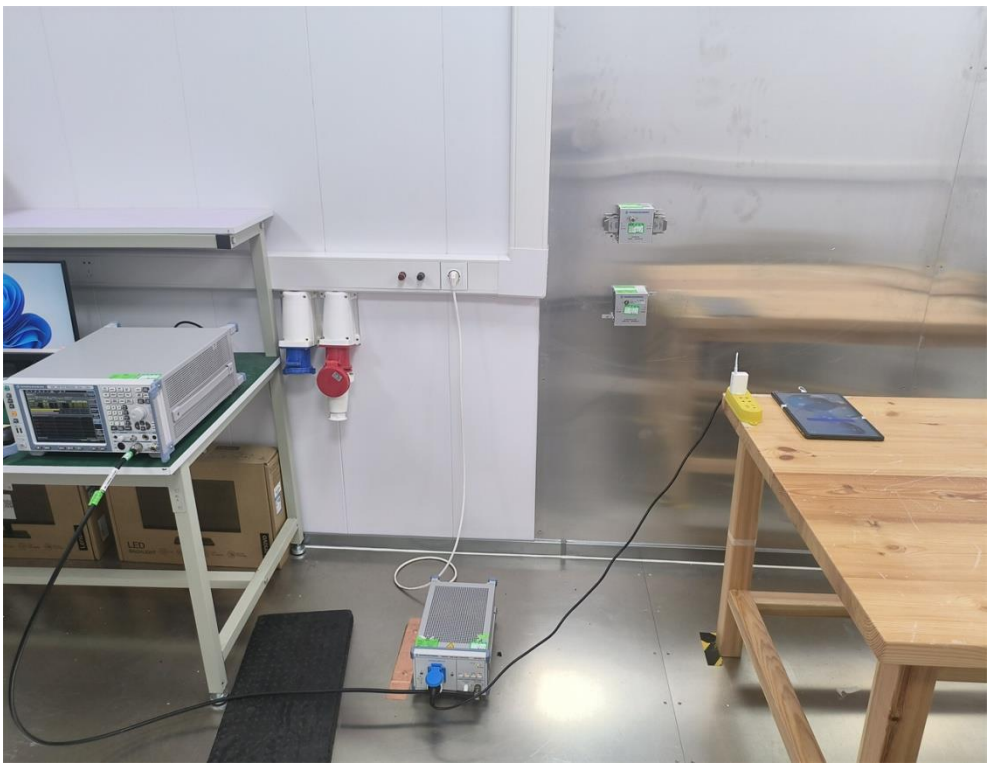
9. MEASUREMENT INSTRUMENTS LIST

Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Receiver	Rohde&Schwarz	ESIB 40	YH-TIRT-SAC-966-20220911	2024/01/05	2025/01/04
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	2024/01/05	2025/01/04
Preamplifier	Schwarzbeck	BBV9744	00143	2024/01/05	2025/01/04
Loop Antenna	ZHINAN	ZN30900A	12024	2024/01/05	2025/01/04
Exposure Level Tester	narda	ELT-400	N-0925	2024/01/05	2025/01/04
Horn Antenna	Schwarzbeck	BBHA9170	00956	2024/01/05	2025/01/04
RF Cable	/	LMR400UF-NMNM-7.0M	/	2024/01/05	2025/01/04
RF Cable	/	SFT2050PUR-NMNM-7.0M	/	2024/01/05	2025/01/04
EMI Receiver	Rohde&Schwarz	ESR7	1316.3003K07-102611-mk	2023/11/02	2024/11/01
LISN	Rohde&Schwarz	ENV216	3560.655.12-102915-Bp	2023/11/02	2024/11/01
ISN	Schwarzbeck	ENY81	1309.8510.03	2024/01/05	2025/01/04
ISN	Schwarzbeck	ENY81-CAT6	1309.8526.03-101976-kh	2024/01/05	2025/01/04
RF Cable	\	SFT2050PUR-NMNM-2.0M	\	2024/01/05	2025/01/04
CMW500	ROHDE&SCHWARZ	CMW500	120434	2024/01/05	2025/01/04
Spectrum analyzer	ROHDE&SCHWARZ	FSU26	200732	2024/01/05	2025/01/04
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	101722	2024/01/05	2025/01/04
vector Signal Generator	KEYSIGHT	N5182B	MY56200458	2024/01/05	2025/01/04
vector Signal Generator	HEWLETT PACKARD	83752A	3610A02458	2024/01/05	2025/01/04
Filter	HEWLETT PACKARD	JS0806-F	19K8060209	2024/01/05	2025/01/04
Wireless comprehensive tester	ANRISTU	MT8821C	SN6262170409	2024/01/05	2025/01/04
Wireless comprehensive tester	ANRISTU	MT8000A	SN6262166782	2024/01/05	2025/01/04

Remark: “N/A” denotes no model name, serial no. or calibration specified.

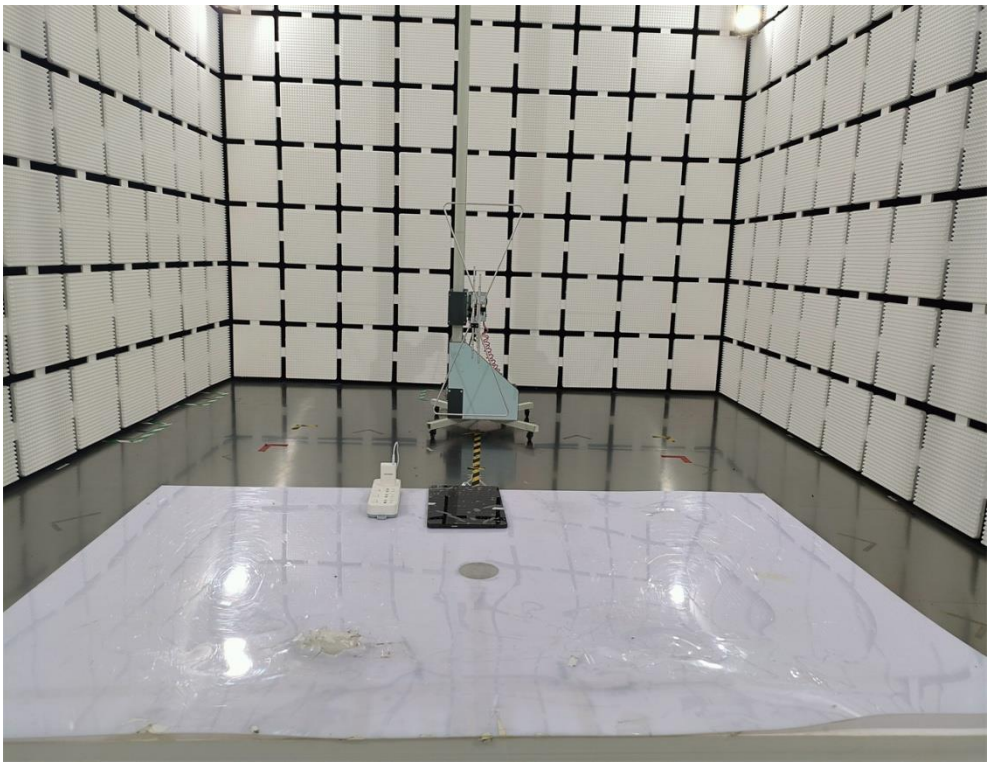
10.EUT TEST PHOTOS

AC Power Line Conducted Emissions Test Photos



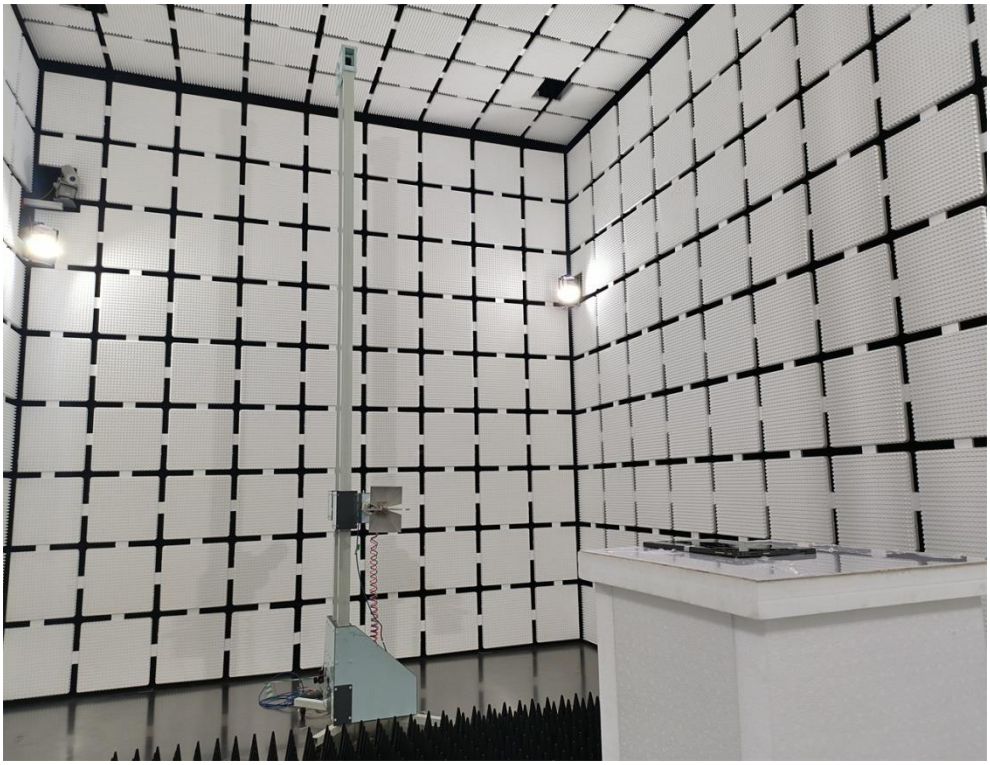
Radiated Emissions Test Photos

30 MHz to 1 GHz



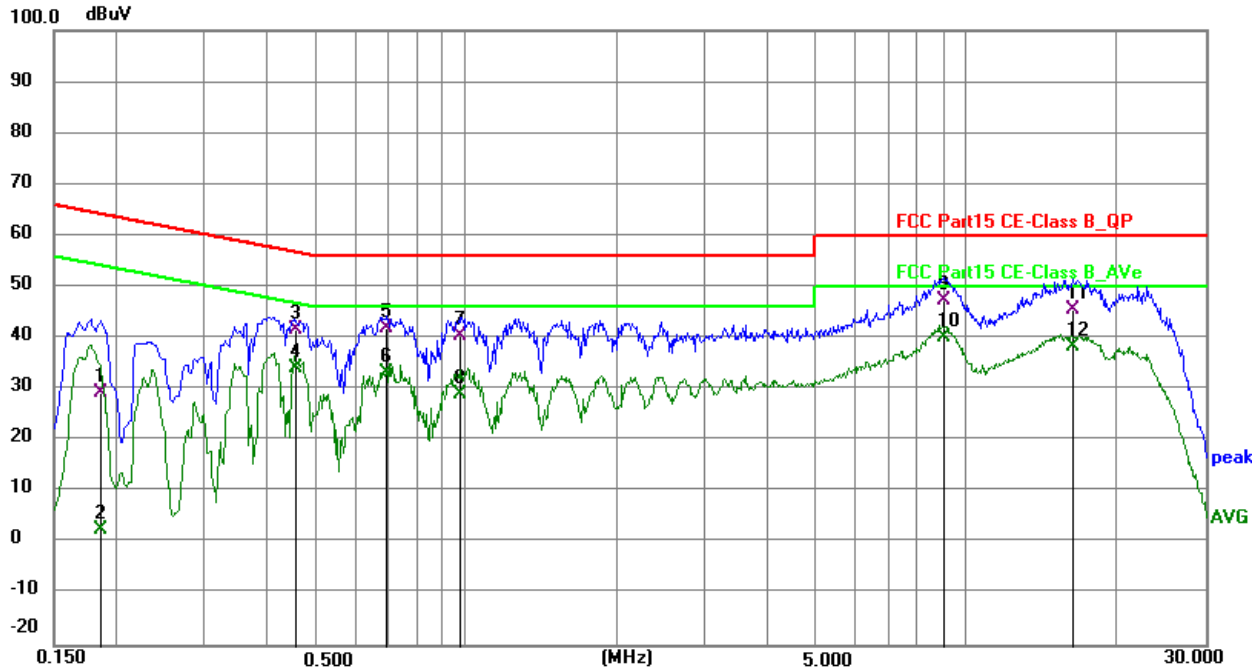
Radiated Emissions Test Photos

Above 1 GHz



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

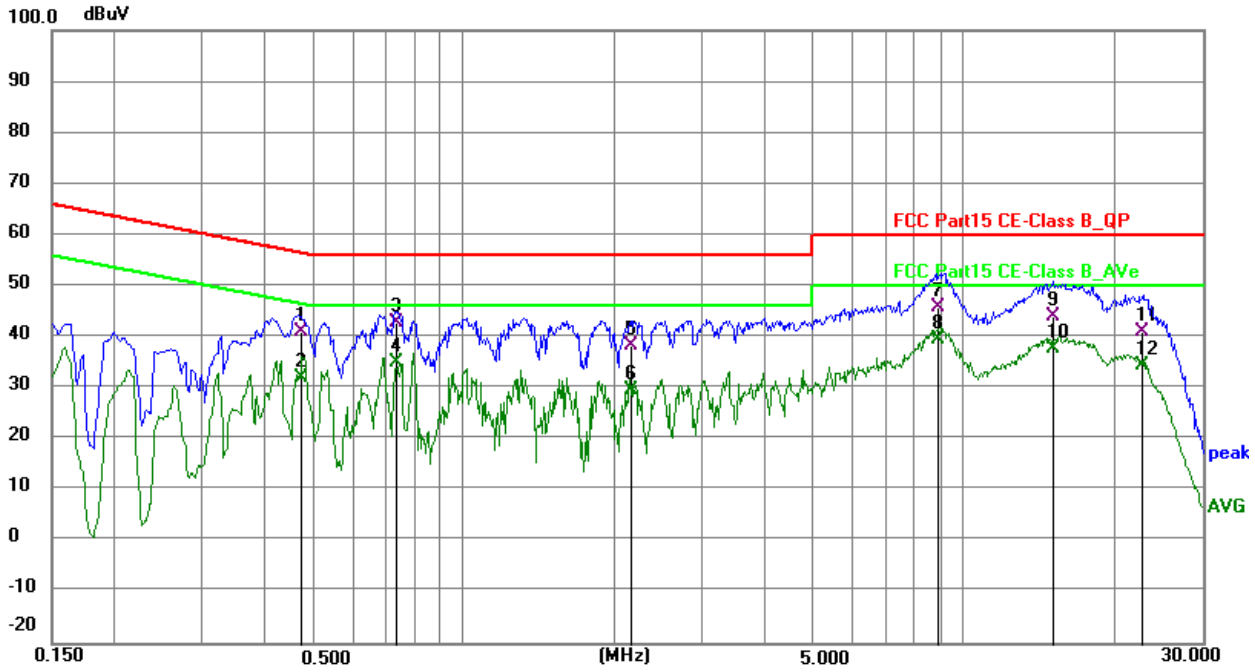
Test Mode	TX AC(VHT80) Mode Channel 155 (UNII-3)	Phase	Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1864	19.81	9.63	29.44	64.20	-34.76	QP	P	
2	0.1864	-7.07	9.63	2.56	54.20	-51.64	AVG	P	
3	0.4573	32.02	9.62	41.64	56.74	-15.10	QP	P	
4	0.4573	24.63	9.62	34.25	46.74	-12.49	AVG	P	
5	0.6911	32.43	9.63	42.06	56.00	-13.94	QP	P	
6	0.6911	23.49	9.63	33.12	46.00	-12.88	AVG	P	
7	0.9788	30.72	9.64	40.36	56.00	-15.64	QP	P	
8	0.9788	19.44	9.64	29.08	46.00	-16.92	AVG	P	
9	9.0327	37.78	9.72	47.50	60.00	-12.50	QP	P	
10 *	9.0327	30.32	9.72	40.04	50.00	-9.96	AVG	P	
11	16.2683	35.70	9.75	45.45	60.00	-14.55	QP	P	
12	16.2683	28.65	9.75	38.40	50.00	-11.60	AVG	P	

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



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.4699	31.36	9.62	40.98	56.52	-15.54	QP	P	
2	0.4699	22.38	9.62	32.00	46.52	-14.52	AVG	P	
3	0.7318	33.12	9.62	42.74	56.00	-13.26	QP	P	
4	0.7318	25.37	9.62	34.99	46.00	-11.01	AVG	P	
5	2.1604	28.56	9.65	38.21	56.00	-17.79	QP	P	
6	2.1604	19.90	9.65	29.55	46.00	-16.45	AVG	P	
7	8.9567	36.18	9.72	45.90	60.00	-14.10	QP	P	
8 *	8.9567	29.91	9.72	39.63	50.00	-10.37	AVG	P	
9	15.1355	34.40	9.76	44.16	60.00	-15.84	QP	P	
10	15.1355	27.86	9.76	37.62	50.00	-12.38	AVG	P	
11	22.7977	31.32	9.83	41.15	60.00	-18.85	QP	P	
12	22.7977	24.56	9.83	34.39	50.00	-15.61	AVG	P	

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

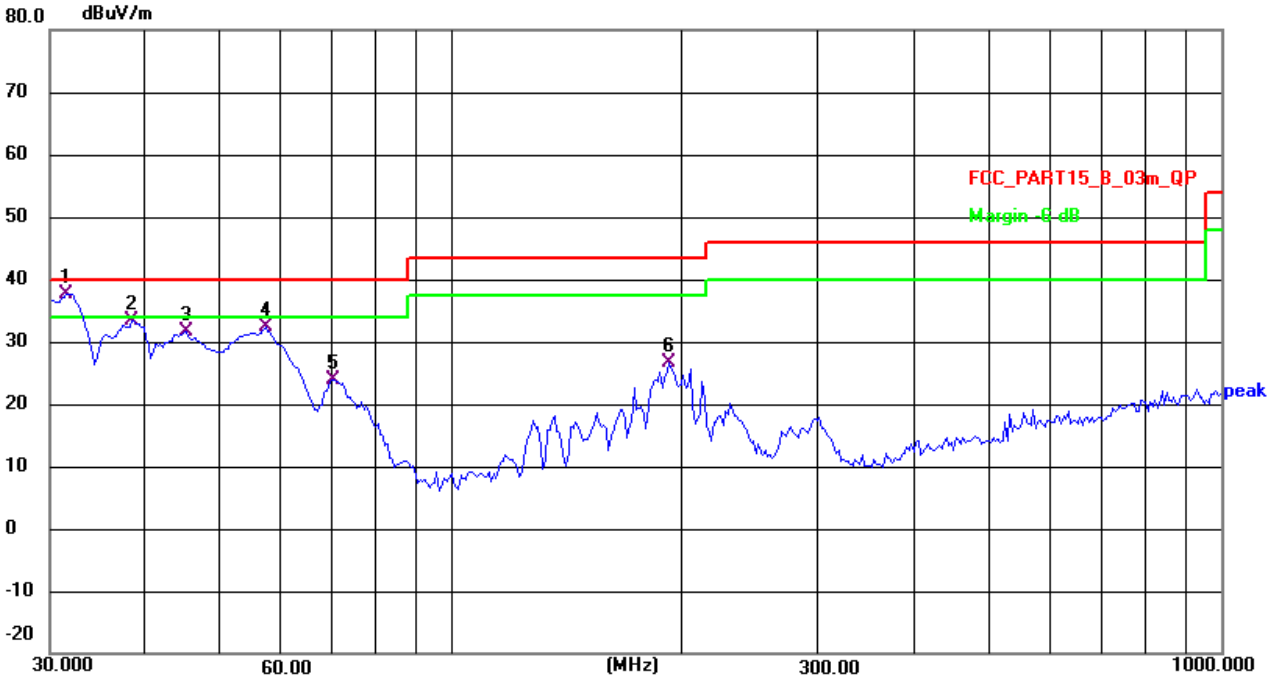
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

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

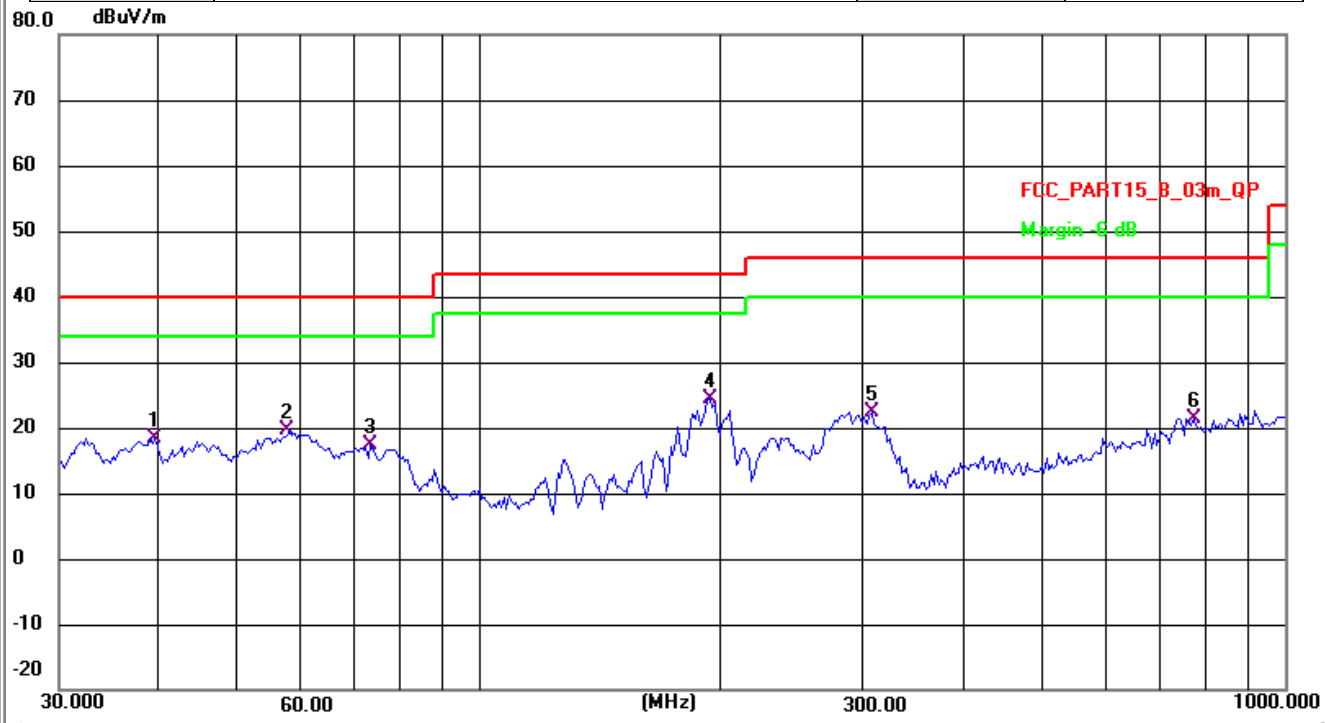
Test Mode	TX AC(VHT80) Mode Channel 155 (UNII-3)	Polarization	Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	31.5126	57.81	-20.10	37.71	40.00	-2.29	QP	100	360	P	
2	38.3651	52.86	-19.41	33.45	40.00	-6.55	QP	100	360	P	
3	45.0951	51.17	-19.52	31.65	40.00	-8.35	QP	100	360	P	
4	57.2654	52.42	-20.13	32.29	40.00	-7.71	QP	100	360	P	
5	70.2096	45.92	-22.12	23.80	40.00	-16.20	QP	100	360	P	
6	191.7841	50.85	-24.28	26.57	43.50	-16.93	QP	100	360	P	

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



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	39.4588	37.57	-19.26	18.31	40.00	-21.69	QP	200	122	P	
2	58.0759	39.69	-20.18	19.51	40.00	-20.49	QP	200	360	P	
3	73.2331	40.23	-22.77	17.46	40.00	-22.54	QP	200	360	P	
4 *	193.1366	48.81	-24.37	24.44	43.50	-19.06	QP	200	360	P	
5	307.1053	44.51	-22.15	22.36	46.00	-23.64	QP	200	360	P	
6	771.0475	31.99	-10.58	21.41	46.00	-24.59	QP	200	356	P	

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 Band edges.

TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-42.6	≤-27	PASS
		High	5320	-41.63	≤-27	PASS
		Low	5500	-40.72	≤-27	PASS
		High	5700	-41.24	≤-27	PASS
11N20SISO	Ant1	Low	5180	-42.22	≤-27	PASS
		High	5320	-41.13	≤-27	PASS
		Low	5500	-40.38	≤-27	PASS
		High	5700	-41.96	≤-27	PASS
11N40SISO	Ant1	Low	5190	-42.37	≤-27	PASS
		High	5310	-41.1	≤-27	PASS
		Low	5510	-40.45	≤-27	PASS
		High	5670	-42.41	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-41.98	≤-27	PASS
		High	5320	-41.45	≤-27	PASS
		Low	5500	-41.35	≤-27	PASS
		High	5700	-37.23	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-41.34	≤-27	PASS
		High	5310	-41.15	≤-27	PASS
		Low	5510	-41.01	≤-27	PASS
		High	5670	-41.7	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-41.24	≤-27	PASS
		High	5290	-39.52	≤-27	PASS
		Low	5530	-37.94	≤-27	PASS
		High	5610	-42.72	≤-27	PASS

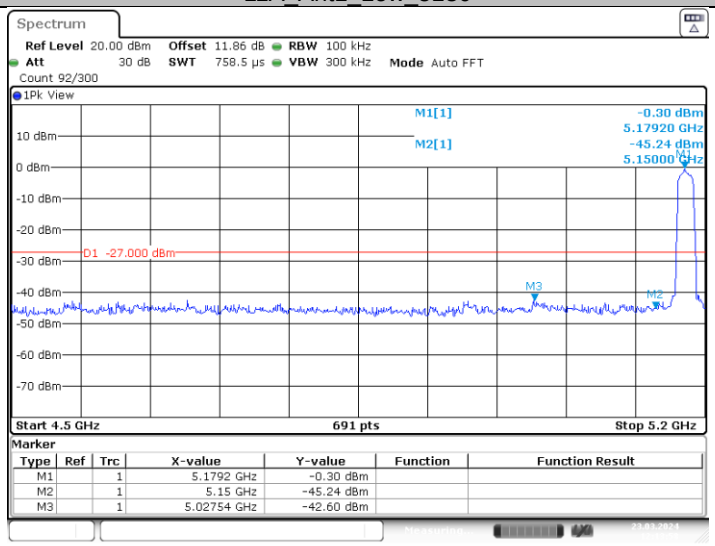
Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-42.33	≤-14.91	PASS
				5700~5720	-42.15	≤14.20	PASS
				5720~5725	-42.54	≤26.24	PASS
				5760~5650	-43.83	≤-27	PASS
		High	5825	5850~5855	-41.5	≤15.80	PASS
				5855~5875	-42.21	≤15.31	PASS
				5875~5925	-42.02	≤-15.18	PASS
				5925~5935	-43.32	≤-27	PASS
11N20SISO	Ant1	Low	5745	5650~5700	-42.78	≤-13.80	PASS
				5700~5720	-42.33	≤15.60	PASS
				5720~5725	-42.41	≤25.48	PASS
				5760~5650	-42.83	≤-27	PASS
		High	5825	5850~5855	-41.38	≤24.72	PASS
				5855~5875	-41.3	≤11.97	PASS
				5875~5925	-40.92	≤6.83	PASS
				5925~5935	-43.62	≤-27	PASS
11N40SISO	Ant1	Low	5755	5650~5700	-42.57	≤-2.61	PASS
				5700~5720	-40.31	≤15.03	PASS
				5720~5725	-40.2	≤25.26	PASS
				5780~5650	-43.13	≤-27	PASS
		High	5795	5850~5855	-43.27	≤25.12	PASS
				5855~5875	-41.85	≤14.59	PASS
				5875~5925	-41.88	≤-16.93	PASS
				5925~5935	-42.55	≤-27	PASS
11AC20SISO	Ant1	Low	5745	5650~5700	-42.61	≤-17.26	PASS
				5700~5720	-42.62	≤10.28	PASS
				5720~5725	-40	≤27.00	PASS
				5760~5650	-43.22	≤-27	PASS
		High	5825	5850~5855	-41.45	≤20.26	PASS

				5855~5875	-42.54	≤11.31	PASS
				5875~5925	-41.75	≤-19.52	PASS
				5925~5935	-42.79	≤-27	PASS
11AC40 SISO	Ant1	Low	5755	5650~5700	-42.7	≤8.25	PASS
				5700~5720	-41.56	≤14.38	PASS
				5720~5725	-40.39	≤26.16	PASS
				5780~5650	-43.51	≤-27	PASS
		High	5795	5850~5855	-41.46	≤19.12	PASS
				5855~5875	-42.87	≤10.04	PASS
				5875~5925	-42.04	≤-5.60	PASS
				5925~5935	-43.07	≤-27	PASS
11AC80 SISO	Ant1	Low	5775	5650~5700	-41.97	≤9.53	PASS
				5700~5720	-39.94	≤14.66	PASS
				5720~5725	-39.65	≤23.35	PASS
				5800~5650	-42.6	≤-27	PASS
		High	5775	5850~5855	-41.22	≤15.62	PASS
				5855~5875	-40.29	≤13.11	PASS
				5875~5925	-41.91	≤-26.84	PASS
				5925~5935	-42.96	≤-27	PASS

Test GraphsB1/2/3

11A_Ant1_Low_5180

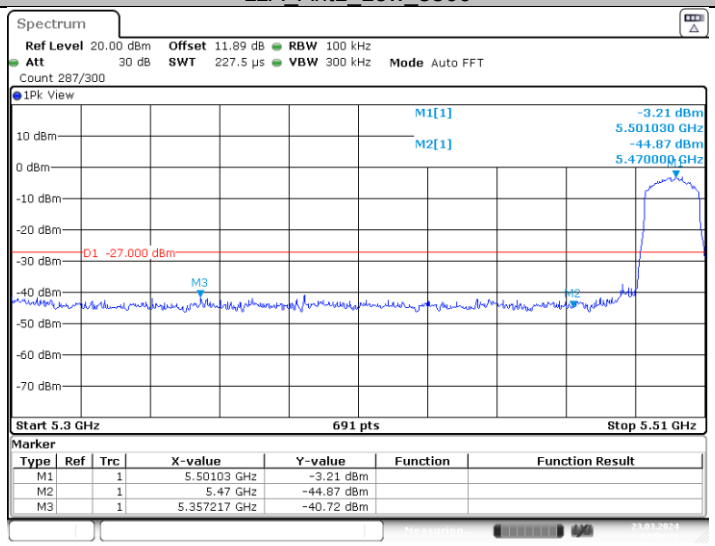


Date: 23.MAR.2024 12:13:58

11A_Ant1_High_5320

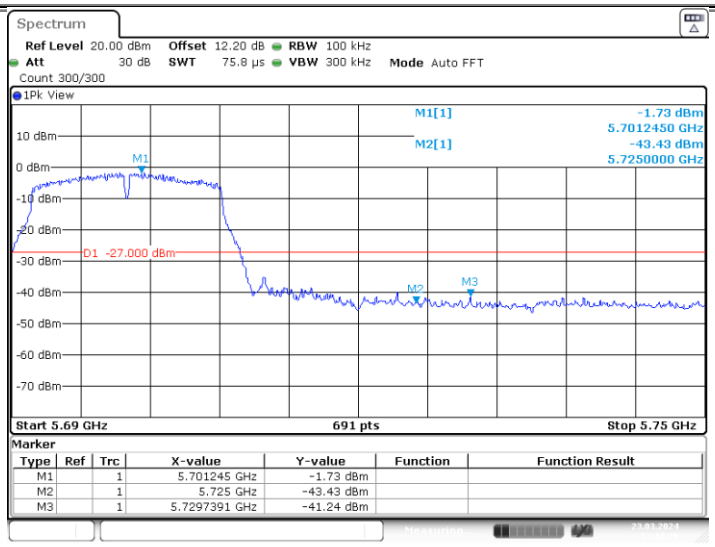
Date: 23.MAR.2024 12:50:58

11A_Ant1_Low_5500

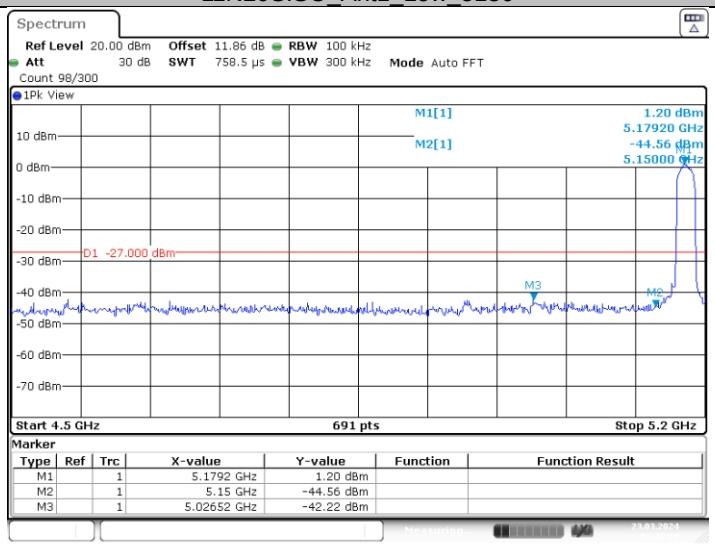


Date: 23.MAR.2024 12:59:31

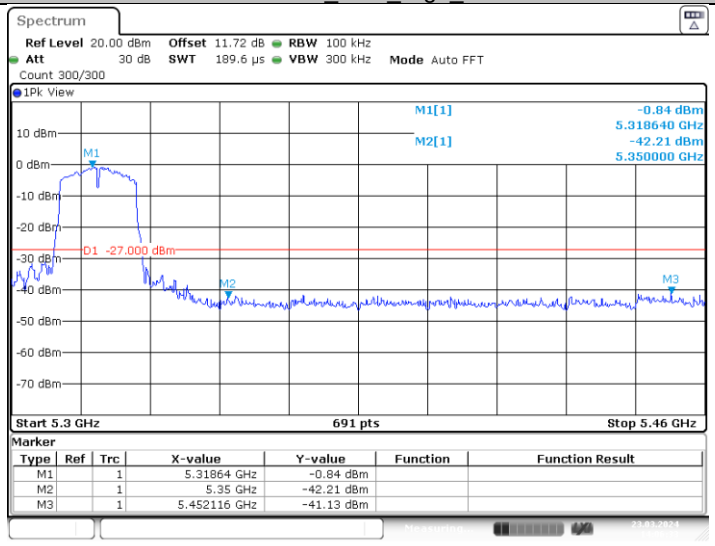
11A_Ant1_High_5700



11N20SISO_Ant1_Low_5180



11N20SISO_Ant1_High_5320



11N20SISO_Ant1_Low_5500