



FCC PART 15.247
RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT2
RSS-247 ISSUE 4, JULY 24, 2025
TEST REPORT

For

FCC: INGENICO

9 Avenue de la gare - Rovaltain TGV, BP25156,Valence Cedex 9,26958 ,France

IC: Ingenico

9 avenue de la gare Rovaltain TGV,Valence 26958,France

FCC ID: XKB-DX8AM
IC: 2586D-DX8AM

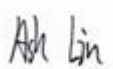
Report Type: Original Report	Product Name: Smart POS Terminal
Report Number:	2607P42218E-RF-02
Report Date:	2026-06-18
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2607P42218E-RF-02	R1V1	2026-06-18	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:		FCC: INGENICO IC: Ingenico		
Product Name:		Smart POS Terminal		
Tested Model:		AXIUM DX8		
Multiple Model(s):		N/A		
HVIN:		AXIUM DX8-AM-S, AXIUM DX8-AM-D, AXIUM DX8-AM-BC		
Trade Mark:		ingenico		
Power Supply:		DC 5V from Adapter or DC 7.2V from Battery		
Adapter 1# information (KLEC - US)	Model:	SW-0983		
	Input:	AC 100-240V, 50/60Hz, 0.5A		
	Output:	DC 5.0V, 2.0A		
Adapter 2# information (Aohai - US)	Model:	A319-050200U-US2		
	Input:	AC 100-240V, 50/60Hz, Max 0.3A		
	Output:	DC 5.0V, 2.0A		
★Maximum Peak Output Power (Conducted):		10 dBm		
RF Function:		Classic BT		
Operating Band/Frequency:		2402-2480 MHz		
Channel Number:		79		
Channel Separation:		1 MHz		
Modulation Type:		GFSK, $\pi/4$ -DQPSK, 8DPSK		
Antenna Type:		IFA antenna		
★Maximum Antenna Gain:		2.98dBi		
Serial Number:		For RF Conducted: GFK-1 For AC Line Conducted Emissions and Radiated Spurious Emissions Above 1G test: 3GFK-2 (Configuration 1#) For Radiated Spurious Emissions Below 1G test: 3GFK-4 (Configuration 3#)		
EUT Received Date:		2026-02-10		
EUT Received Status:		Good		
Note:				
1. The Maximum Antenna Gain was declared by manufacturer.				
2. The EUT contains a variety of configurations, the difference of the configurations show as below:				
Model	Configuration	HVIN	Confouuration Dfference	
			2 nd display	scanner
AXIUM DX8	1 (Scanner variant)	AXIUM DX8-AM-BC	×	√
	2 (2 nd display variant)	AXIUM DX8-AM-D	√	×
	3 (Basic variant)	AXIUM DX8-AM-S	×	×

Note: Per 15B&ICES 003 Issue 7 report, test with Adapter 1# & Battery 5# & Screen 1# & Configuration 1# was the worst for AC Line Conducted Emissions, test with Adapter 2# & Battery 1# & Screen 2# & Configuration 3# was the worst for Radiated Spurious Emissions Below 1G and test with Adapter 1# & Battery 1# & Screen 2# & Configuration 1# was the worst for Radiated Spurious Emissions Above 1G, so only performed it this report.

Battery Information:

No.	Model	Manufacturer	Specification
Battery 1#	LD18650M	SCUD (Fujian) Electronics Co.,Ltd	DC 7.2V 2600mAh/18.72Wh
Battery 2#	LD18650K	SCUD (Fujian) Electronics Co.,Ltd	DC 7.2V 3400mAh/24.48Wh
Battery 3#	LD18650K-1	SCUD (Fujian) Electronics Co.,Ltd	DC 7.2V 3350mAh/24.12Wh
Battery 4#	LD18650M	Xinyu Ganfeng Electronics Co.,Ltd.	DC 7.2V 2600mAh/18.72Wh
Battery 5#	LD18650K-1	Xinyu Ganfeng Electronics Co.,Ltd.	DC 7.2V 3350mAh/24.12Wh
Battery 6#	LD18650M	Dongguan Veken Battery Co., Ltd.	DC 7.2V 2600mAh/18.72Wh

Screen Information:

No.	Ingenico Model	Manufacturer
Screen 1#	MDT0656A	Shenzhen Great Prospect Optoelectronics Co.,Ltd.
Screen 2#	MDT0656A	Tianma Microelectronics Co., Ltd.
Screen 3#	MDT0656A	GuangDonghongbosheng Optoelectronic Technology Co;Ltd

Objective

This test report is prepared for *INGENICO*. in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions's rules and RSS-247 Issue 4, July 24, 2025 and RSS-Gen, Issue 5, February 2021 Amendment 2 of the Innovation, Science and Economic Development Canada.

Test Methodology

All measurements contained in this report were conducted with ANSIC63.10-2020+Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and KDB 558074 D01 15.247 Meas Guidance v05r02.

All tests and measurements indicated in this document were performed in accordance with RSS-247 Issue 4, July 24, 2025 of the Innovation, Science and Economic Development Canada & RSS-Gen, Issue 5, February 2021 Amendment 2: General Requirements for Compliance of Radio Apparatus & ANSIC63.10-2020+Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on Unit 102, No. 902 Meifeng South Road, Binhai West Avenue Science and Technology Innovation Park, Torch High Tech Zone Xiamen, People's Republic of China

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the IC accredited lab under the KDB 974614 D01, the IC Designation No. : CN0176.

Measurement Uncertainty

Item		U_{lab}
Conducted Emission	150kHz-30MHz	2.45 dB
Radiated Spurious Emission	9kHz-150kHz	2.82dB
	150kHz-30MHz	2.74dB
	30MHz~1GHz	4.68dB
	1GHz~18GHz	5.00dB
	18GHz~26.5GHz	4.90dB
Transmitter Conducted Power(Conducted RF power)		0.43 dB
Temperature		1 °C
Humidity		5 %
Supply voltages		1 %

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

SYSTEM TEST CONFIGURATION

Test Mode and Voltage

The system was configured for testing in a typical mode (as normally used by a typical user).	
Test mode:	Test mode 1: Transmitting
Test voltage:	Test mode 1: AC 120V/60Hz
Remark:	During all emission tests, the EUT was configured to measure its highest possible emission level and the worst case's test data was presented in this test report.

Description of Test Configuration

Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	...	...
...	...	...	...
...	...	78	2480
39	2441	/	/

EUT was tested with Channel 0, 39 and 78.

★EUT Exercise Software

BT test in the engineer mode.

RF Test Tool: QRCT_4

Test Modes	Power Level Setting		
	Lowest Channel	Middle Channel	Highest Channel
GFSK	8	8	8
$\pi/4$ -DQPSK	8	8	8
8DPSK	8	8	8

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

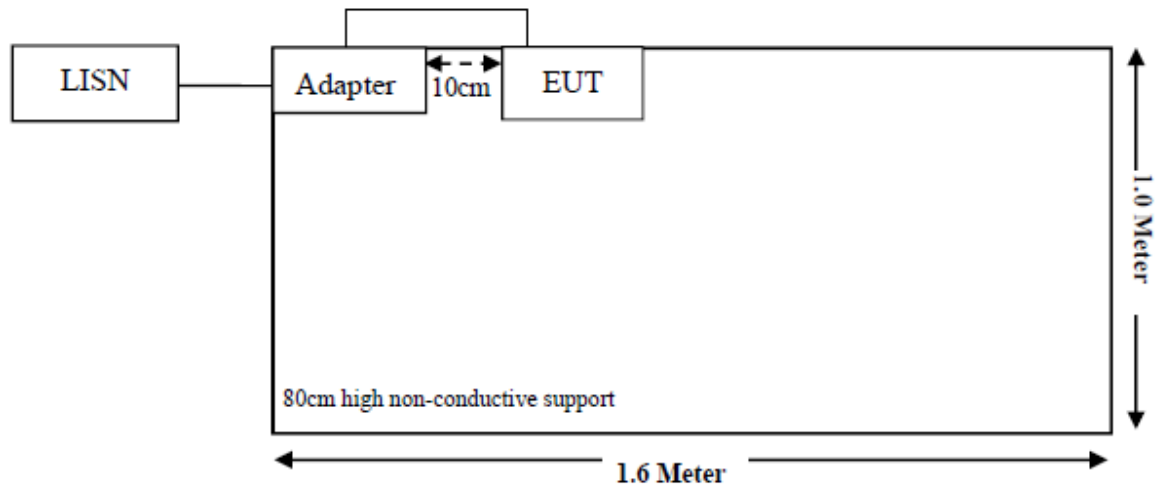
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

Cable Description	Length (m)	From Port	To
/	/	/	/

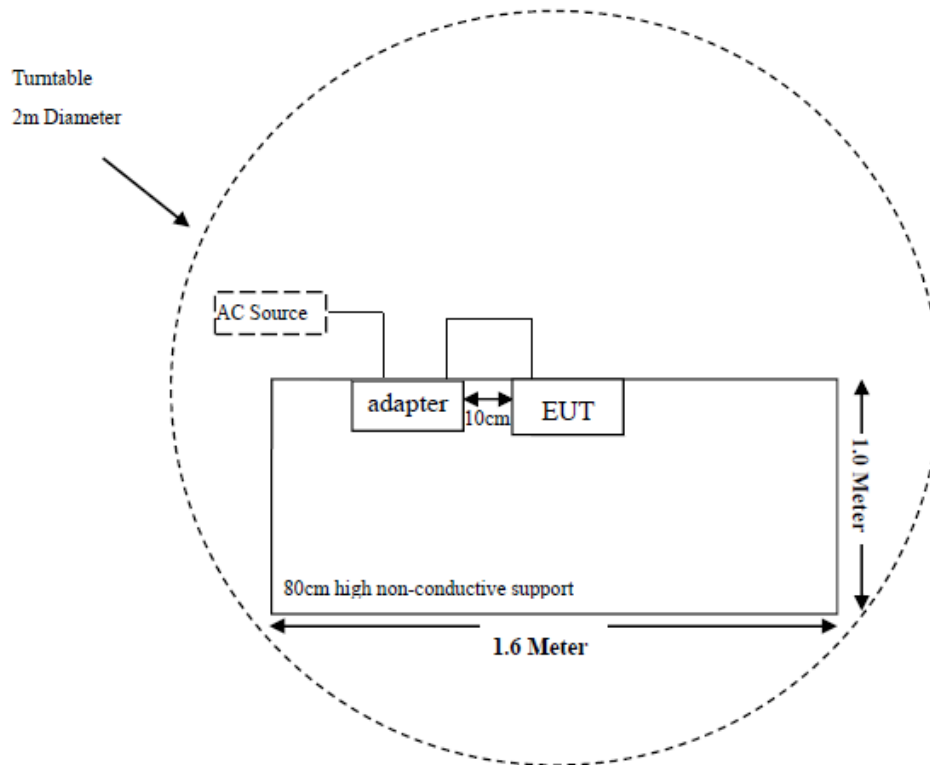
Block Diagram of Test Setup

Conducted Emission:

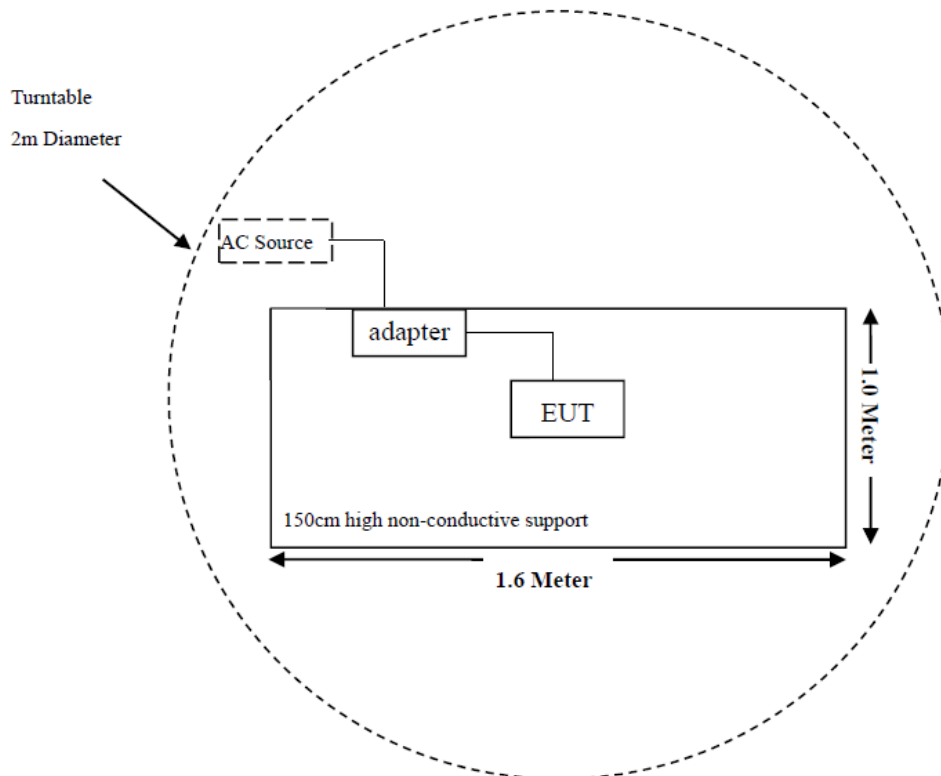


Radiated Spurious Emission:

Below 1GHz:



Above 1GHz:



SUMMARY OF TEST RESULTS

Standard(s)/Rule(s)	Description of Test	Result	Remark
FCC§15.203 RSS-Gen Clause 6.8	Antenna Requirement	Compliant	-
FCC§15.207(a) RSS-Gen Clause 8.8	AC Line Conducted Emissions	Compliant	-
FCC§15.205, §15.209 & §15.247(d) RSS-247 Issue 4 Clause 6.6 RSS-Gen Clause 8.10	Radiated Emissions & Restricted Bands Emissions	Compliant	-
FCC§15.247(a)(1) RSS-247 Clause 6.2.3.1 a)	20 dB Emission Bandwidth	-	please refer to report SZCR250500180902* page51-61 for FCC and SZCR250500181002* page49-59 for IC
RSS-Gen Clause 6.7	99% Occupied Bandwidth	-	please refer to report SZCR250500180902* page51-56 for FCC and SZCR250500181002* page49-54 for IC
FCC§15.247(a)(1) RSS-247 Clause 6.2.3.1 a)	Channel Separation Test	-	please refer to report SZCR250500180902* page63-65 for FCC and SZCR250500181002* page61-63 for IC
FCC§15.247(a)(1)(iii) RSS-247 Clause 6.2.3.1 b)	Time of Occupancy (Dwell Time)	-	please refer to report SZCR250500180902* page69-78 for FCC and SZCR250500181002* page67-76 for IC
FCC§15.247(a)(1)(iii) RSS-247 Clause 6.2.3.1 a)	Quantity of hopping channel Test	-	please refer to report SZCR250500180902* page66-68 for FCC and SZCR250500181002* page64-66 for IC
FCC§15.247(b)(1) RSS-247 Clause 6.2.3.2 a) c)	Peak Output Power Measurement	Reporting	please refer to report SZCR250500180902* page62 for FCC and SZCR250500181002* page60 for IC
FCC§15.247(d) RSS-247 Clause 6.6	Band edges	-	please refer to report SZCR250500180902* page85-95 for FCC and SZCR250500181002* page83-93 for IC

Note: The device built in a certified module, model: ING-A01-1-AM, FCC ID: XKB-INGA01AM, IC: 2586D-INGA01AM, per spot check, the RF parameters are identical with the original module report, therefore, the RF conducted test items please refer to the module FCC report: SZCR250500180902* and IC report: SZCR250500181002*, which was issued by SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch (according to KDB 996369 D02 Module Q&A v02r02, Answer 1 b))

The Bay Area Compliance Laboratories Corp.(Xiamen) is responsible for all the information provided in this report, except when information is provided by the customer as identified in this report.

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions					
EMI Test Receiver	Rohde & Schwarz	ESR	103105	2026/1/21	2027/1/20
LISN	Rohde & Schwarz	ENV216	100129	2026/1/21	2027/1/20
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2026/1/21	2027/1/20
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC001	2026/1/20	2027/1/19
EMI Test software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2026/1/21	2027/1/20
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2023/7/27	2026/7/26
Antenna	Sunol Sciences	JB6	A122022-5	2023/7/27	2026/7/26
Amplifier	Sonoma	310B	120903	2026/1/22	2027/1/21
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2026/1/20	2027/1/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2026/1/20	2027/1/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2026/1/20	2027/1/19
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2026/1/20	2027/1/19
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Above 1 GHz					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2026/1/21	2027/1/20
Filter Switch Unit	Decentest	DT7220FSU	DS79904	2026/1/20	2027/1/19
Multiplex Switch Test Control Set	Decentest	DT7220SCU	DS79901	2026/1/20	2027/1/19
Horn Antenna	EMCO	3115	9002-3355	2024/11/19	2027/11/18
Preamplifier	GLOBAL	1313-A100M18G	4121301	2026/1/14	2027/1/13
Coaxial Cable	XINHANGWEIBO	XH800A-N-6M	CC003	2026/1/20	2027/1/19
Coaxial Cable	XINHANGWEIBO	XH800A-N-1M	CC005	2026/1/20	2027/1/19
Horn Antenna	EMCO	3116	9407-2232	2023/7/31	2026/7/30
Preamplifier	A.H.Systems	PAM-1840	200	2026/1/20	2027/1/19
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-3M	CC008	2026/1/20	2027/1/19
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-1M	CC009	2026/1/20	2027/1/19
Test Software	Audix	E3	18621a	N/A	N/A
RF Conducted Test					
USB Wideband Power Sensor	Boonton	55318	8934	2025/9/8	2026/9/7
Test Software	JD	JDAutoTestSystem	1.0.0.3813	N/A	N/A

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Xiamen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.203 & RSS-Gen Clause 6.8 – ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to RSS-Gen Clause 6.8 The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer. The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISCED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Connector Construction

The EUT has one IFA antenna for Bluetooth, which was permanently attached and the antenna gain is 2.98 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

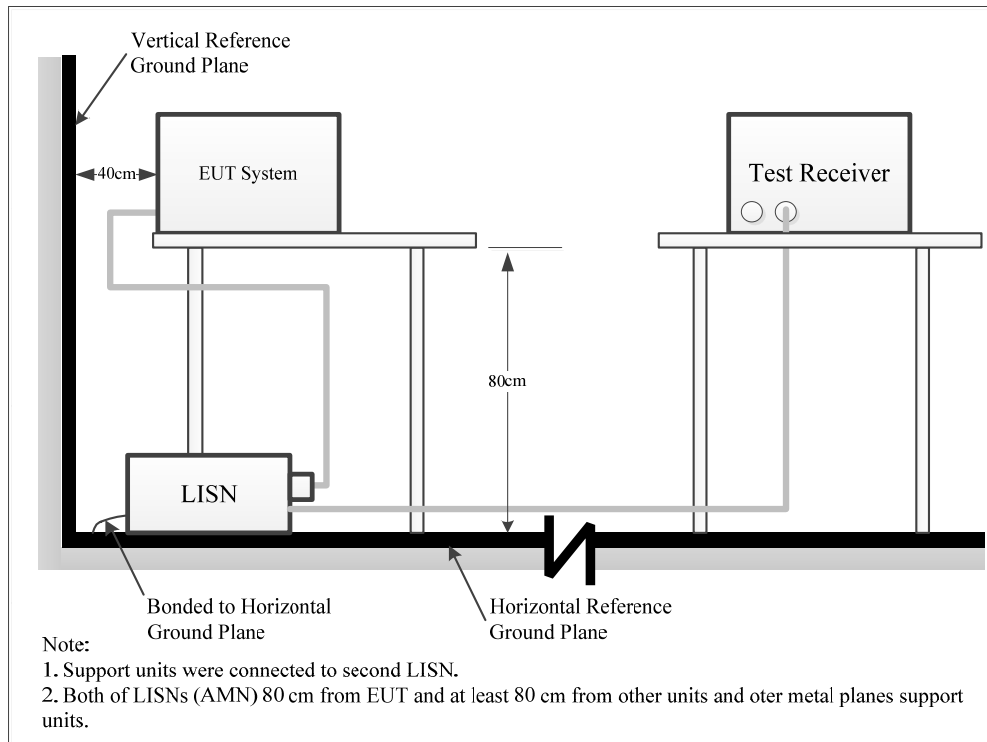
Result: Compliance

FCC §15.207 (a) & RSS-Gen Clause 8.8 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a), RSS-Gen Clause 8.8

Test System Setup



The setup of EUT is according with per ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024 measurement procedure. The specification used was with the FCC Part 15.207, RSS-Gen limits.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

Result & Margin Calculation

The Result is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

$$\begin{aligned}\text{Factor (dB)} &= \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)} \\ \text{Result (dB}\mu\text{V)} &= \text{Reading (dB}\mu\text{V)} + \text{Factor (dB)}\end{aligned}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V)} - \text{Result (dB}\mu\text{V)}$$

Test Data

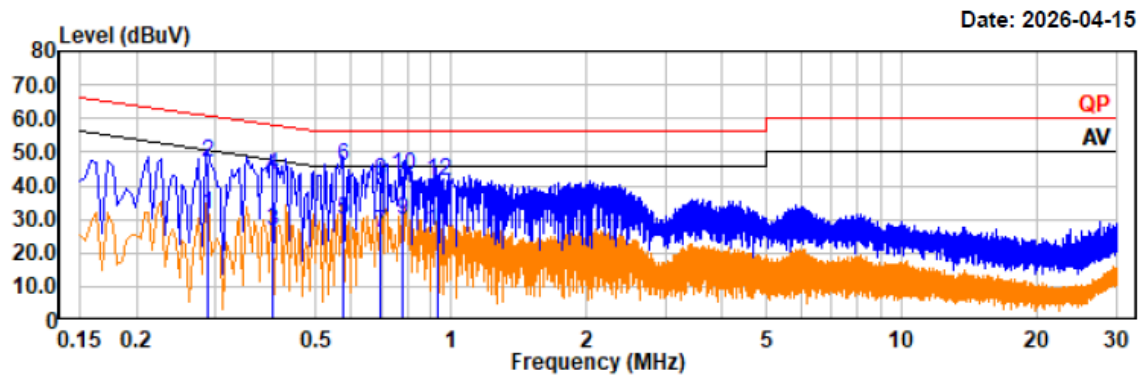
Temperature:	24.3 °C
Relative Humidity:	64 %
ATM Pressure:	100.1 kPa
Test Date:	2026-04-15
Test Engineer:	Wlif Wu

Note: The maximum output power mode: BDR(GFSK) middle channel was tested.

Configuration 1#(Scanner variant)

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2441MHz
EUT Model: AXIUM DX8

Temp/Humi/ATM: 24.3°C/64%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



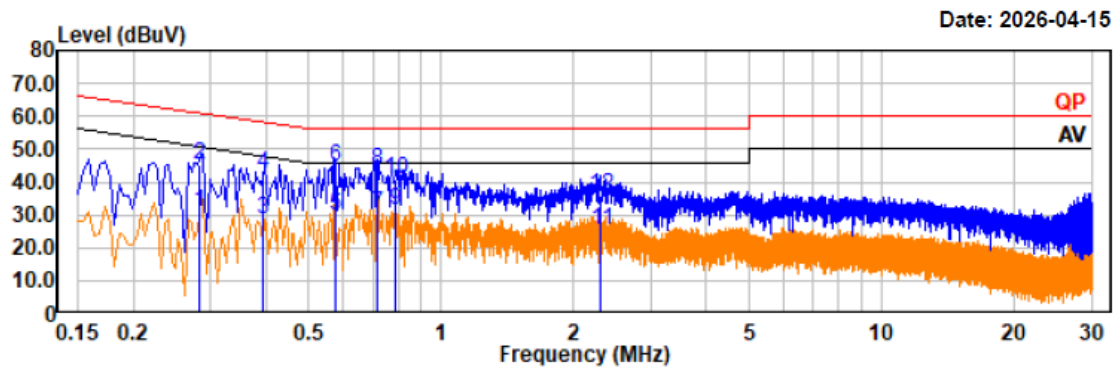
Trace: 1

Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.29	11.03	20.58	31.61	50.61	19.00	Line	Average
0.29	26.31	20.58	46.89	60.61	13.72	Line	QP
0.40	6.19	20.50	26.69	47.83	21.14	Line	Average
0.40	22.63	20.50	43.13	57.83	14.70	Line	QP
0.58	9.56	20.47	30.03	46.00	15.97	Line	Average
0.58	25.13	20.47	45.60	56.00	10.40	Line	QP
0.70	5.68	20.49	26.17	46.00	19.83	Line	Average
0.70	20.93	20.49	41.42	56.00	14.58	Line	QP
0.78	9.11	20.50	29.61	46.00	16.39	Line	Average
0.78	22.63	20.50	43.13	56.00	12.87	Line	QP
0.93	5.88	20.50	26.38	46.00	19.62	Line	Average
0.93	20.65	20.50	41.15	56.00	14.85	Line	QP

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2441MHz
EUT Model: AXIUM DX8

Temp/Humi/ATM: 24.3°C/64%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.28	10.52	20.59	31.11	50.70	19.59	Neutral	Average
0.28	24.77	20.59	45.36	60.70	15.34	Neutral	QP
0.39	7.98	20.47	28.45	47.97	19.52	Neutral	Average
0.39	21.84	20.47	42.31	57.97	15.66	Neutral	QP
0.58	9.44	20.42	29.86	46.00	16.14	Neutral	Average
0.58	24.03	20.42	44.45	56.00	11.55	Neutral	QP
0.71	9.96	20.45	30.41	46.00	15.59	Neutral	Average
0.71	23.28	20.45	43.73	56.00	12.27	Neutral	QP
0.79	11.12	20.46	31.58	46.00	14.42	Neutral	Average
0.79	20.62	20.46	41.08	56.00	14.92	Neutral	QP
2.31	4.79	20.33	25.12	46.00	20.88	Neutral	Average
2.31	15.55	20.33	35.88	56.00	20.12	Neutral	QP

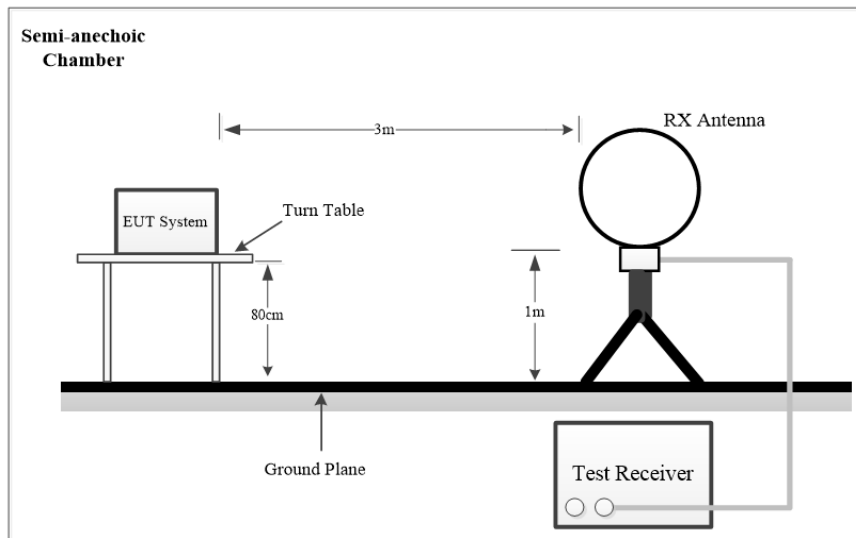
FCC §15.205, §15.209 & §15.247(d) & RSS-247 Clause 6.6, RSS-GEN ISSUE5 Clause 8.10 – RADIATED EMISSIONS

Applicable Standard

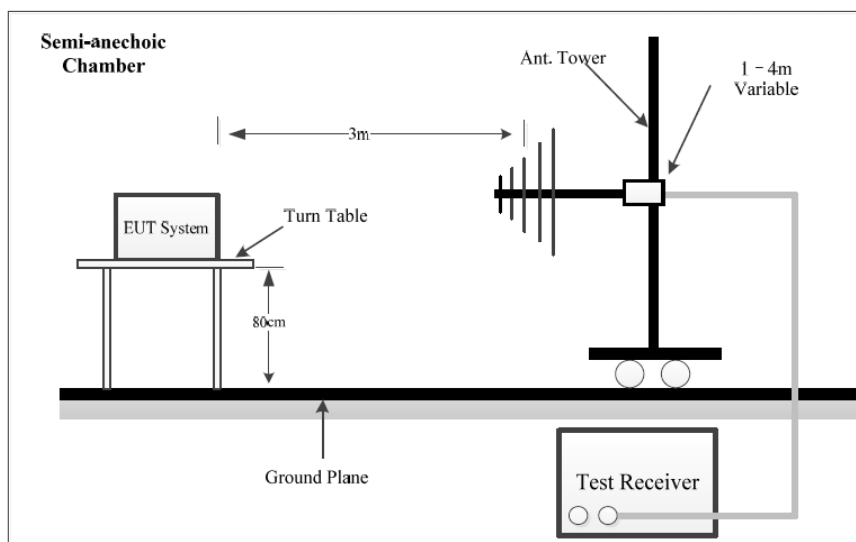
FCC §15.205; §15.209; §15.247(d); RSS-247 Clause 6.6; RSS-GEN ISSUE5 Clause 8.10

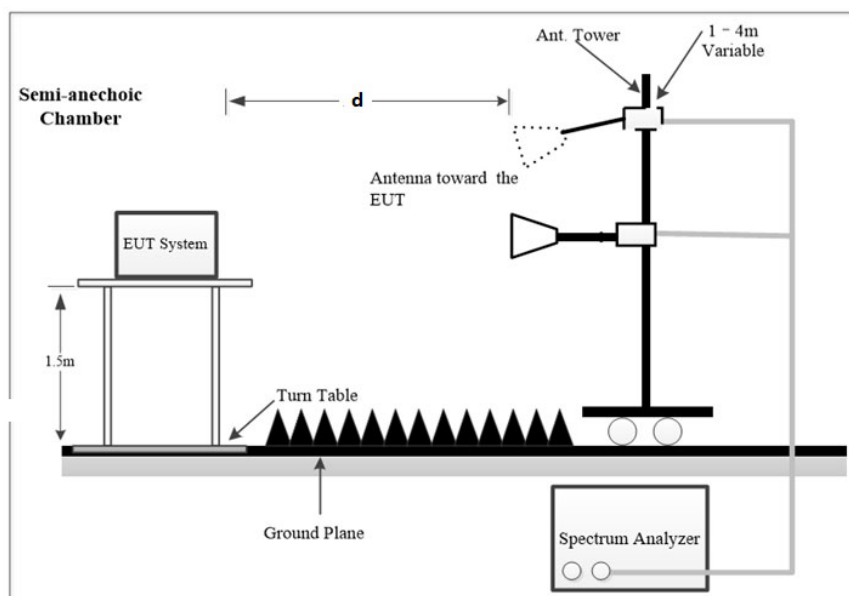
Test System Setup

9 kHz-30MHz



Below 1 GHz:



Above 1GHz:

The radiated emission tests using the setup accordance with the ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024. The specification used was the FCC 15.209, FCC 15.247, RSS-247, RSS-Gen limits.

NOTE: d is testing distance;

For Radiated Emission test (1GHz-18GHz) and Bandedge Emission test, which was performed at 3 m distance.

For Radiated Emission test (18GHz-25GHz), which was performed at 1.5 m distance, according to ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024, the test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m.

Distance extrapolation Factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1.5m]})$ dB = 6 dB

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

During the radiated emission test, the EMI Test Receiver & Spectrum Analyzer Setup was set with the following configurations:

Frequency Range	RBW	VBW	Measurement
9 kHz – 150 kHz	300Hz	1 kHz	PK
	200Hz	/	QP
150 kHz – 30 MHz	10 kHz	30 kHz	PK
	9kHz	/	QP
30 MHz – 1000 MHz	100 kHz	300 kHz	PK
	120kHz	/	QP

1GHz~25GHz:

Pre-scan:

Measurement	RBW	Video B/W	Detector
PK	1MHz	3MHz	PK
Ave	1MHz	5kHz	PK

Final measurement for emission identified during the pre-scan:

Measurement	RBW	Video B/W	Detector
PK	1MHz	3MHz	PK
Ave	1MHz	10Hz	PK

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable. The report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground parallel) unless the margin is greater than 20 dB, then the following statement shall be made: "all emissions were greater than 20 dB below the limit."

Below 1GHz, if the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

Above 1GHz, if the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is below the AV emission limit, there's no need to record the measured AV level of the emissions in the report.

Result & Margin Calculation

The Result is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

For 9 kHz to 18GHz Radiated emission test and Bandedge emissions test
 Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

For 18GHz to 25GHz Radiated emission test
 Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB) - Extrapolation factor (dB)

Extrapolation factor = 6 dB (distance = 1.5m)

Result (dBμV/m) = Reading (dBμV) + Factor (dB/m)

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dBμV/m) - Result (dBμV/m)

The spurious emission from 9 kHz-30MHz of IC RSS-Gen standard, the unit of final result on the test plots are dB μ V/m, so the limit should be added by 51.5dB from dB μ A/m to dB μ V/m.

Test Data

Please refer to the below table and plots.

Frequency Range:	Below 1 GHz	Above 1 GHz
Temperature:	22.2°C	23.2 °C
Relative Humidity:	57 %	55 %
ATM Pressure:	100.1kPa	100.1kPa
Test Date:	2026-04-08	2026-04-14
Test Engineer:	Wlif Wu	Wlif Wu

Note: Pre-scan in the X, Y and Z axes of orientation, the worst case Z-axis of orientation was recorded.

1) 9 kHz ~30 MHz

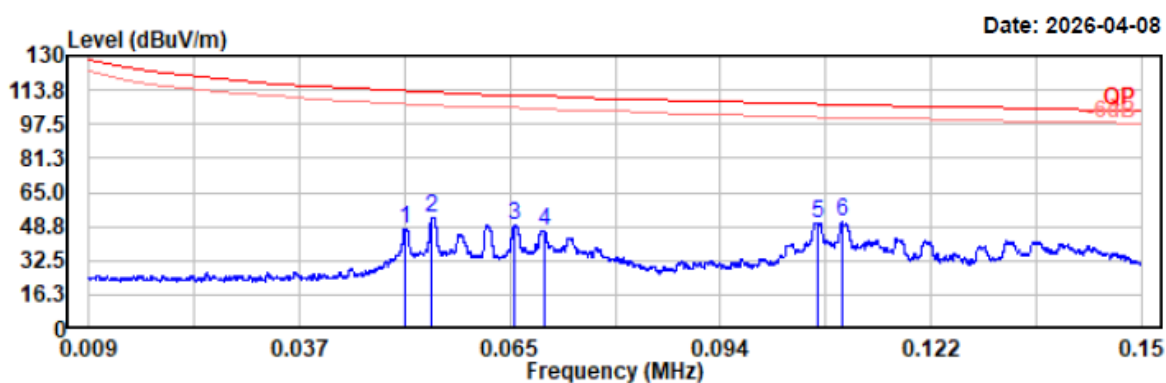
Pre-scan in parallel, ground-parallel and perpendicular of orientation of loop antenna, parallel is worst case.

Note: The maximum output power mode: BDR(GFSK) middle channel was tested.

Configuration 3#(Basic variant)

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2441MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 22.2°C/57%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

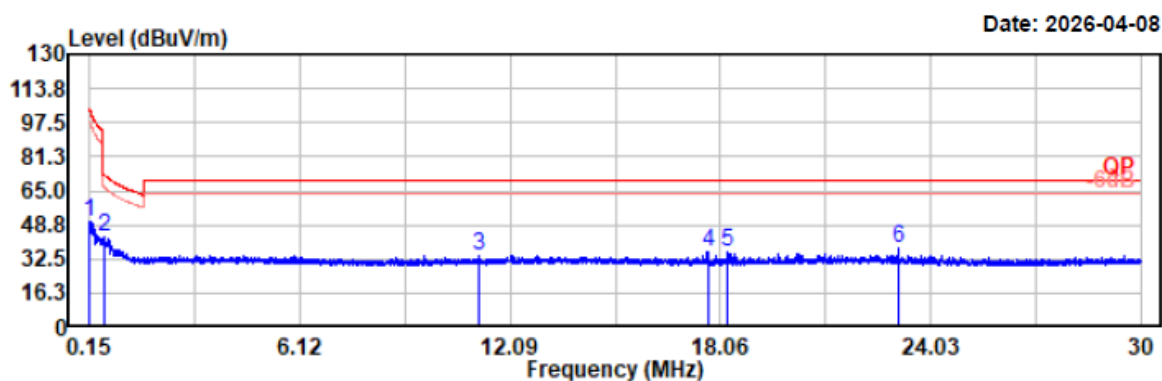


Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.051	27.74	19.91	47.65	113.41	65.76	Peak
0.055	33.06	19.91	52.97	112.82	59.85	Peak
0.066	29.20	19.85	49.05	111.22	62.17	Peak
0.070	27.26	19.81	47.07	110.70	63.63	Peak
0.107	30.71	19.73	50.44	107.05	56.61	Peak
0.110	31.01	19.73	50.74	106.79	56.05	Peak

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2441MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 22.2°C/57%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.159	30.76	19.72	50.48	103.58	53.10	Peak
0.559	23.36	19.80	43.16	72.66	29.50	Peak
11.206	14.36	19.71	34.07	69.54	35.47	Peak
17.696	16.03	19.94	35.97	69.54	33.57	Peak
18.245	15.78	19.97	35.75	69.54	33.79	Peak
23.129	17.15	20.17	37.32	69.54	32.22	Peak

Note: $\text{dBuV/m} = \text{dBuA/m} + 51.5\text{dB}$

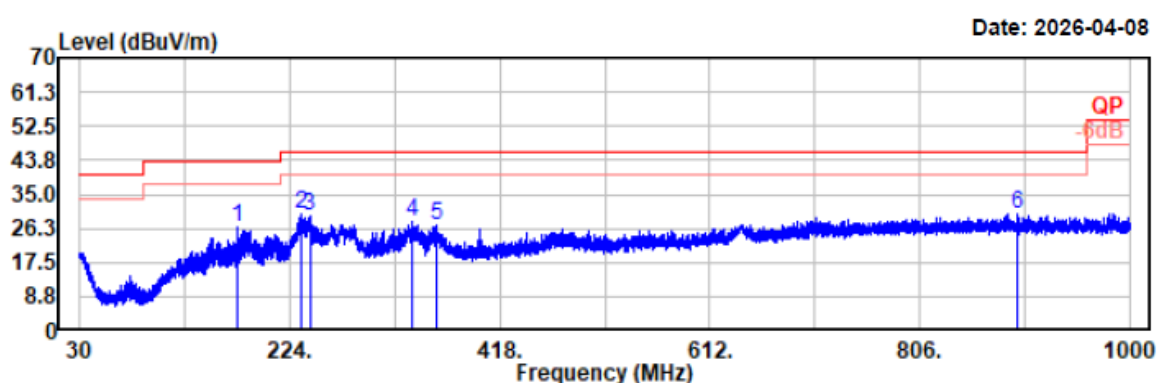
2) 30MHz-1GHz

Note: The maximum output power mode: BDR(GFSK) middle channel was tested.

Configuration 3#(Basic variant)

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2441MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 22.2°C/57%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

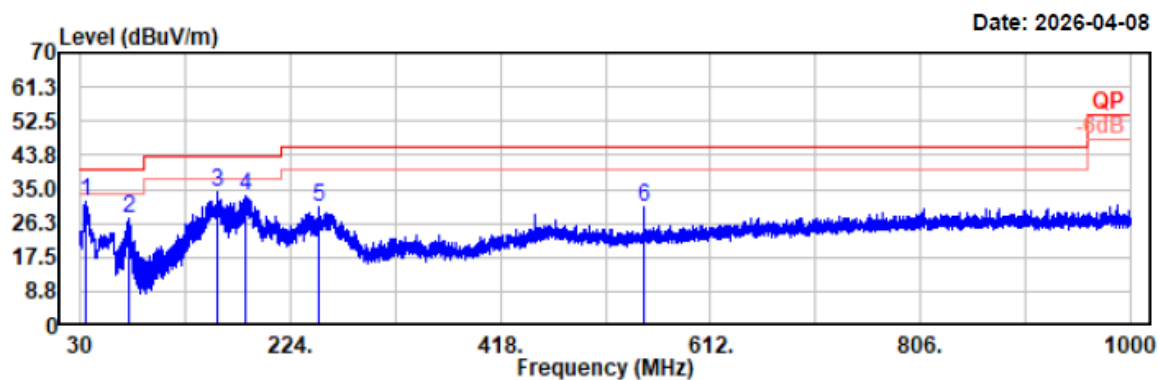


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
175.21	38.55	-12.11	26.44	43.50	17.06	Horizontal	Peak
234.48	42.05	-12.08	29.97	46.00	16.03	Horizontal	Peak
242.43	40.92	-11.61	29.31	46.00	16.69	Horizontal	Peak
337.30	36.37	-8.35	28.02	46.00	17.98	Horizontal	Peak
359.70	34.73	-7.73	27.00	46.00	19.00	Horizontal	Peak
896.99	27.45	2.48	29.93	46.00	16.07	Horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2441MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 22.2°C/57%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Condition: PK RBW:100kHz VBW:300kHz SWT:auto

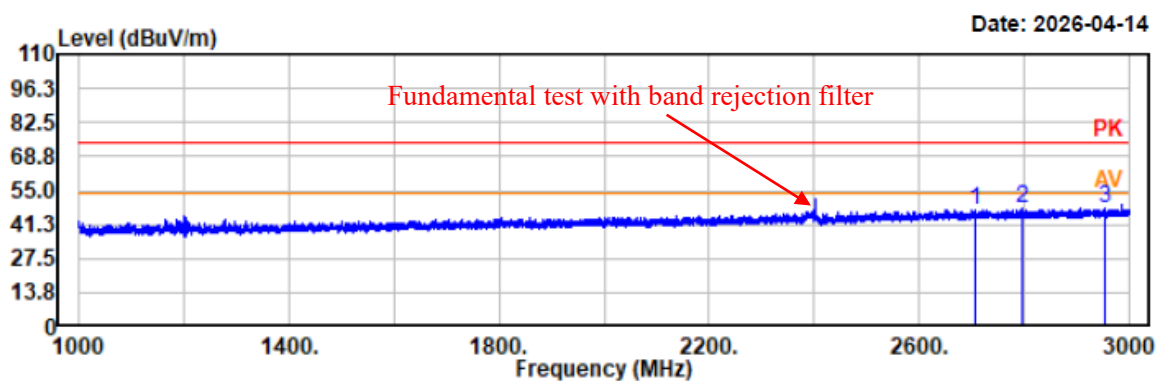
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
34.46	39.54	-7.75	31.79	40.00	8.21	Vertical	Peak
74.43	44.52	-17.14	27.38	40.00	12.62	Vertical	Peak
156.20	45.67	-11.31	34.36	43.50	9.14	Vertical	Peak
182.48	45.51	-12.40	33.11	43.50	10.39	Vertical	Peak
250.00	41.67	-11.46	30.21	46.00	15.79	Vertical	Peak
550.02	33.18	-2.73	30.45	46.00	15.55	Vertical	Peak

3) 1 GHz-3 GHz

Configuration 1#(Scanner variant)

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

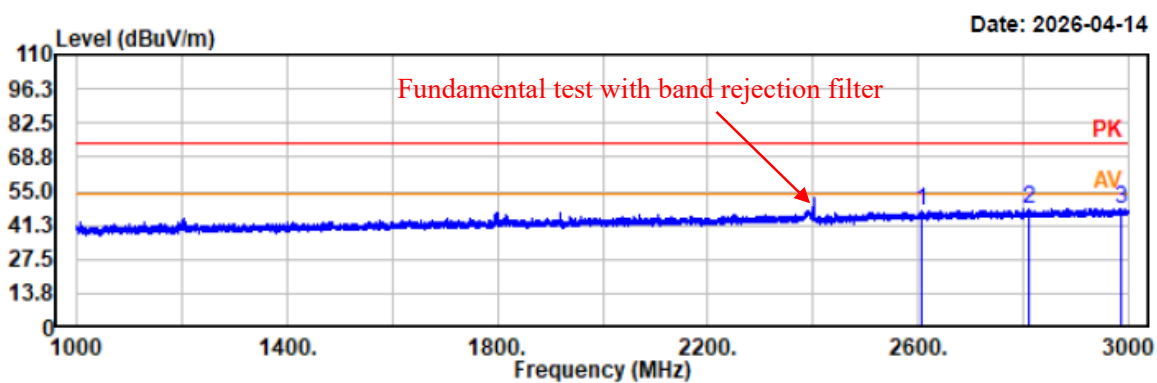


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2706.20	47.31	-0.02	47.29	74.00	26.71	horizontal	Peak
2796.60	47.27	0.22	47.49	74.00	26.51	horizontal	Peak
2953.80	46.89	0.75	47.64	74.00	26.36	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

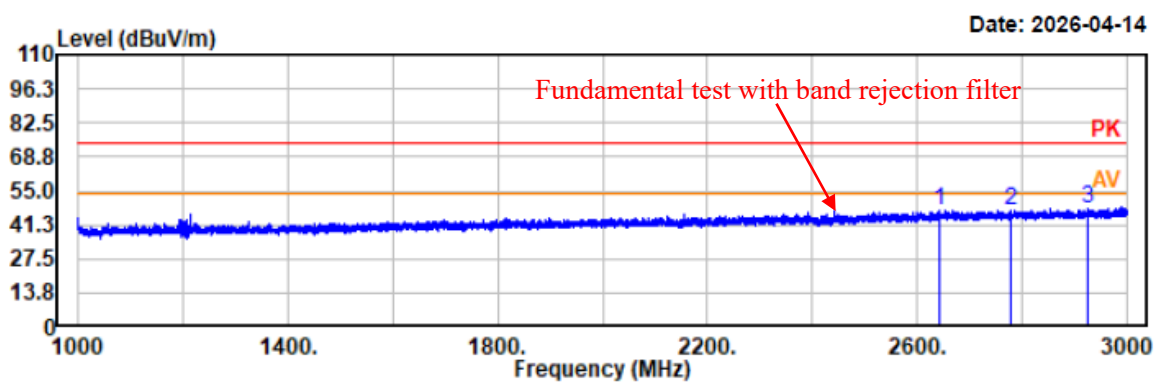


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2605.80	47.61	-0.40	47.21	74.00	26.79	vertical	Peak
2810.20	47.54	0.25	47.79	74.00	26.21	vertical	Peak
2986.80	47.21	0.93	48.14	74.00	25.86	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2441MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

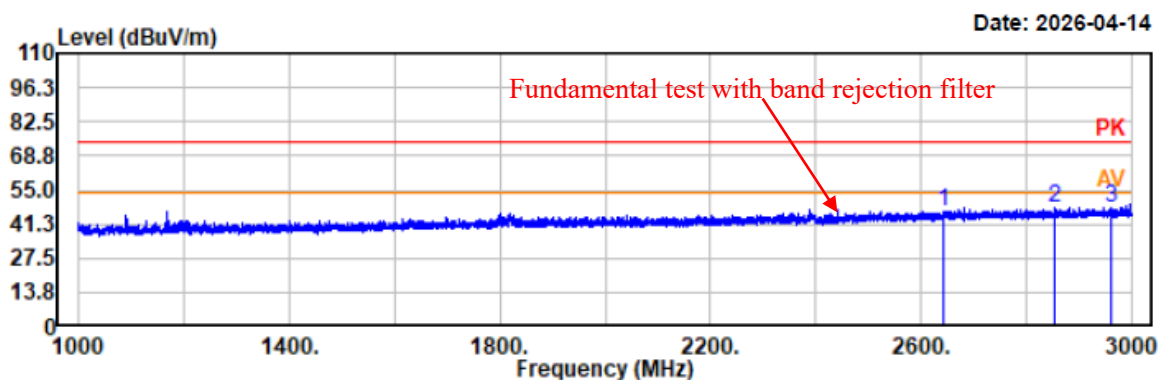


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2643.40	46.94	-0.25	46.69	74.00	27.31	horizontal	Peak
2780.40	46.91	0.16	47.07	74.00	26.93	horizontal	Peak
2924.60	47.18	0.55	47.73	74.00	26.27	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2441MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

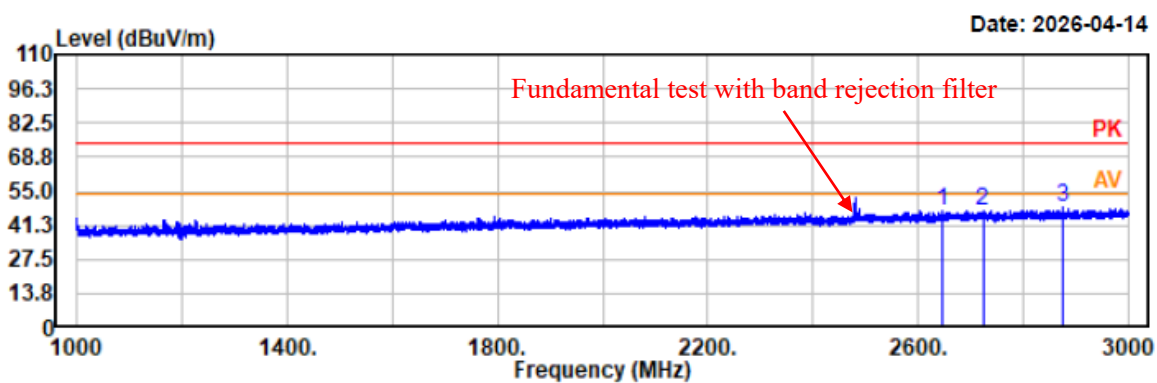


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2643.80	46.63	-0.24	46.39	74.00	27.61	vertical	Peak
2853.60	47.21	0.35	47.56	74.00	26.44	vertical	Peak
2962.00	47.15	0.79	47.94	74.00	26.06	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

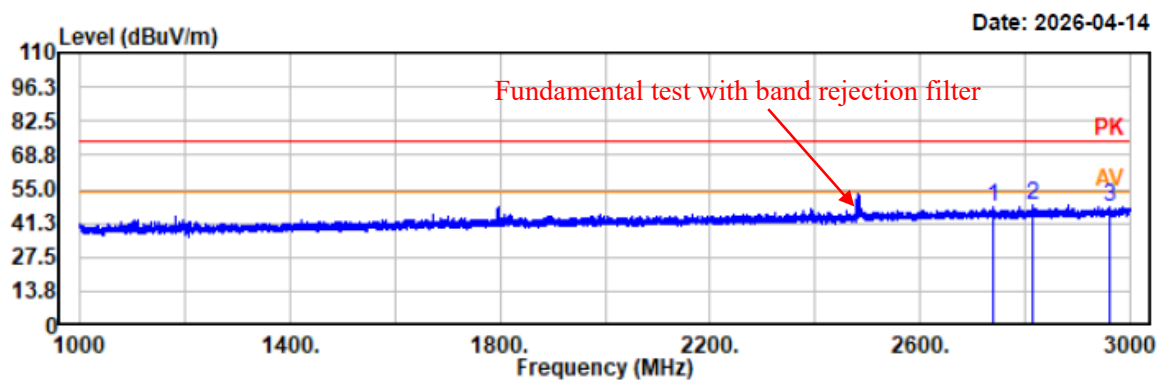


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2644.60	47.62	-0.24	47.38	74.00	26.62	horizontal	Peak
2723.20	47.03	0.01	47.04	74.00	26.96	horizontal	Peak
2876.20	47.89	0.35	48.24	74.00	25.76	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

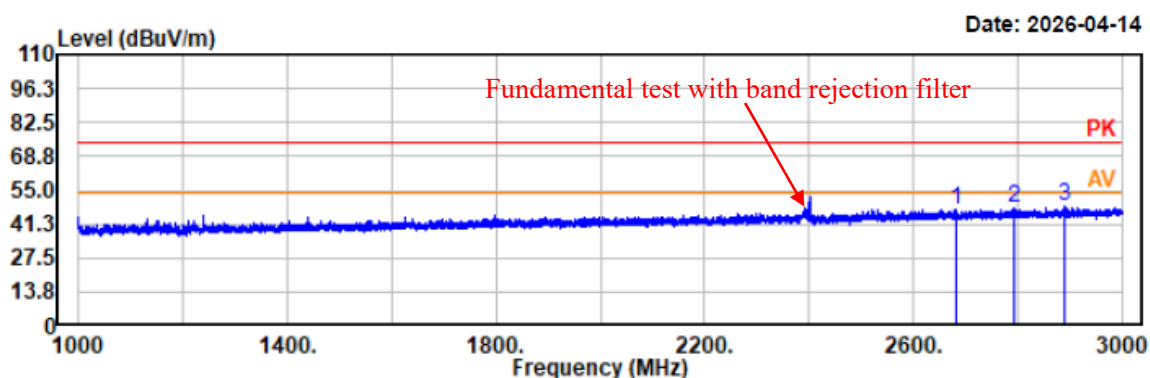


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2739.20	47.65	0.03	47.68	74.00	26.32	vertical	Peak
2814.20	48.01	0.26	48.27	74.00	25.73	vertical	Peak
2960.40	47.19	0.78	47.97	74.00	26.03	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 2DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

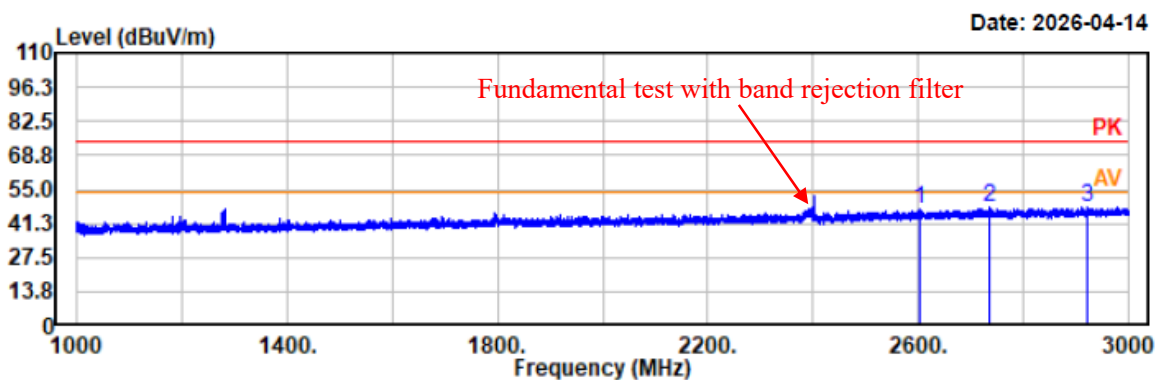


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2680.60	47.42	-0.10	47.32	74.00	26.68	horizontal	Peak
2793.00	47.44	0.20	47.64	74.00	26.36	horizontal	Peak
2888.80	48.54	0.36	48.90	74.00	25.10	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 2DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

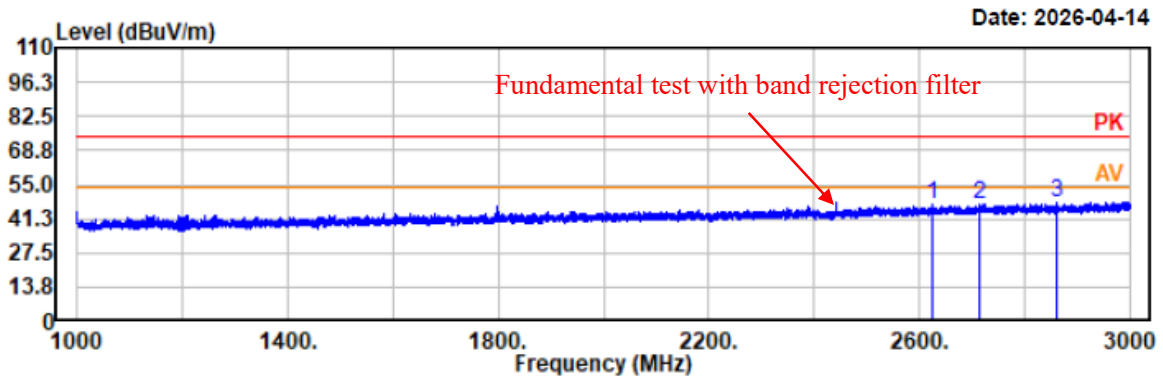


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2603.20	47.43	-0.41	47.02	74.00	26.98	vertical	Peak
2734.60	47.73	0.02	47.75	74.00	26.25	vertical	Peak
2922.40	47.43	0.53	47.96	74.00	26.04	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 2DH5 2441MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

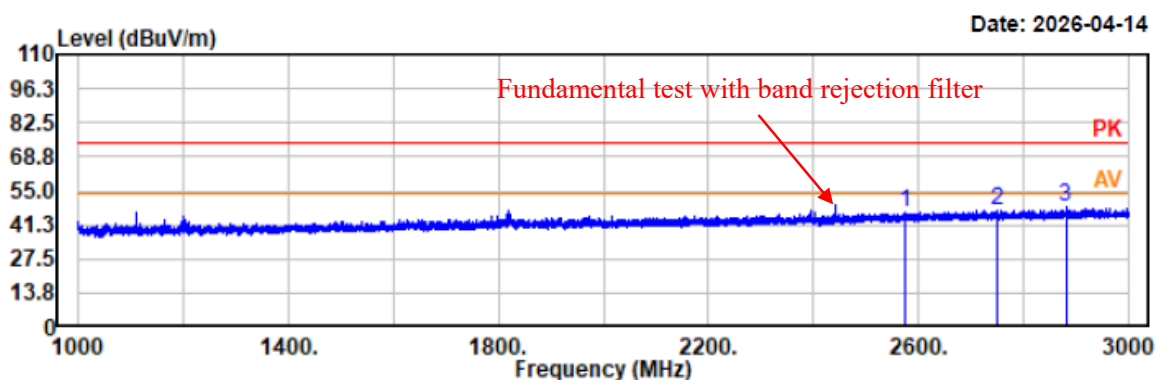


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2624.00	47.22	-0.32	46.90	74.00	27.10	horizontal	Peak
2713.40	47.39	-0.01	47.38	74.00	26.62	horizontal	Peak
2860.20	47.12	0.35	47.47	74.00	26.53	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 2DH5 2441MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

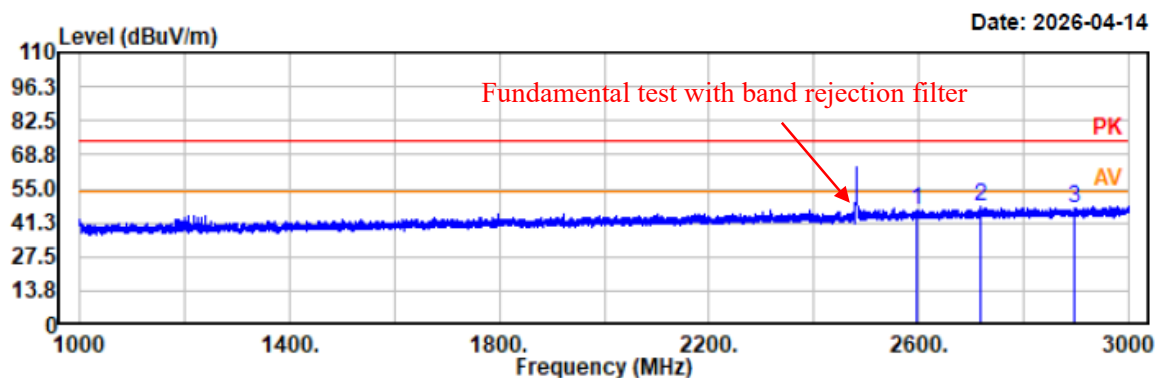


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2576.20	47.06	-0.52	46.54	74.00	27.46	vertical	Peak
2750.00	47.21	0.06	47.27	74.00	26.73	vertical	Peak
2880.80	48.19	0.35	48.54	74.00	25.46	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 2DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

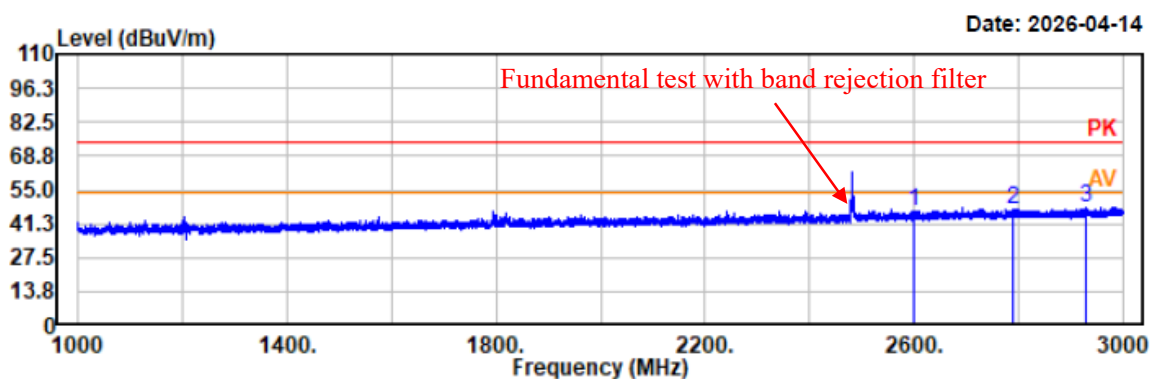


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2595.20	46.88	-0.44	46.44	74.00	27.56	horizontal	Peak
2719.40	47.45	0.00	47.45	74.00	26.55	horizontal	Peak
2895.80	46.61	0.37	46.98	74.00	27.02	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 2DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

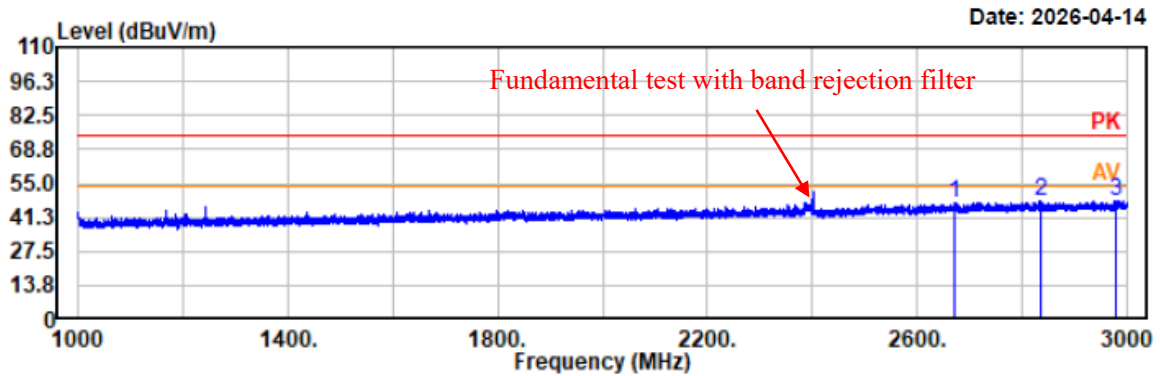


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2600.40	46.82	-0.42	46.40	74.00	27.60	vertical	Peak
2789.00	47.06	0.20	47.26	74.00	26.74	vertical	Peak
2927.60	47.55	0.57	48.12	74.00	25.88	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 3DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

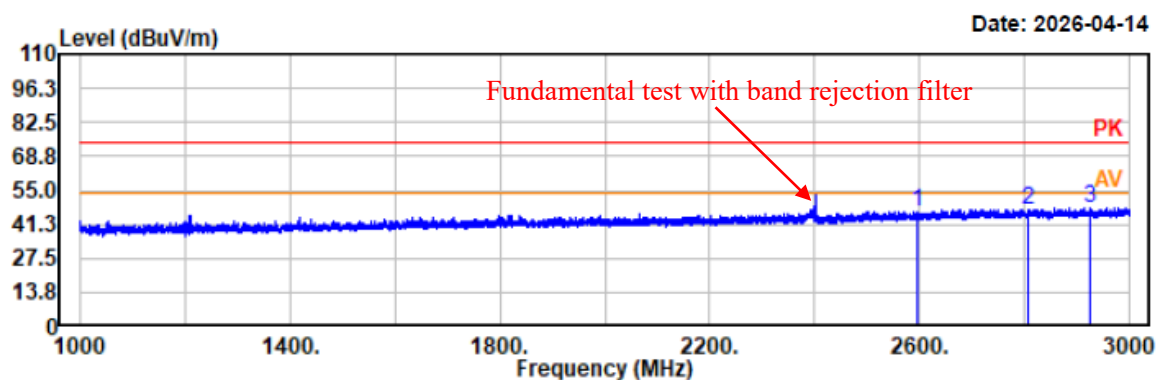


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2670.40	47.13	-0.15	46.98	74.00	27.02	horizontal	Peak
2834.60	47.39	0.32	47.71	74.00	26.29	horizontal	Peak
2980.80	47.22	0.90	48.12	74.00	25.88	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 3DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

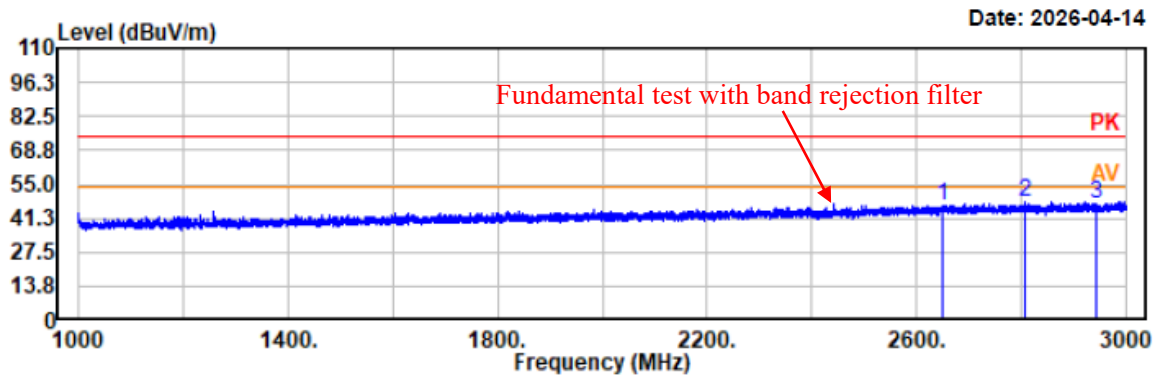


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2594.60	47.03	-0.44	46.59	74.00	27.41	vertical	Peak
2806.40	47.10	0.25	47.35	74.00	26.65	vertical	Peak
2924.00	47.31	0.54	47.85	74.00	26.15	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 3DH5 2441MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

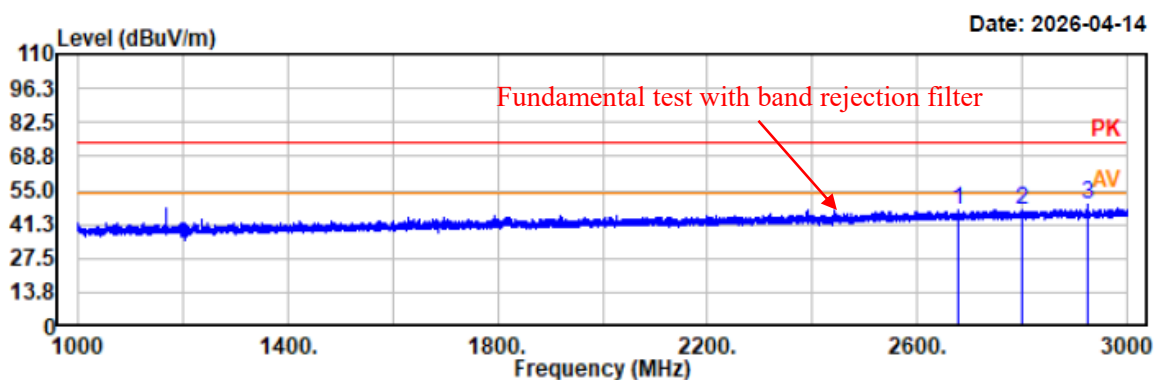


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2648.40	46.83	-0.23	46.60	74.00	27.40	horizontal	Peak
2806.60	47.19	0.25	47.44	74.00	26.56	horizontal	Peak
2943.40	46.61	0.68	47.29	74.00	26.71	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 3DH5 2441MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

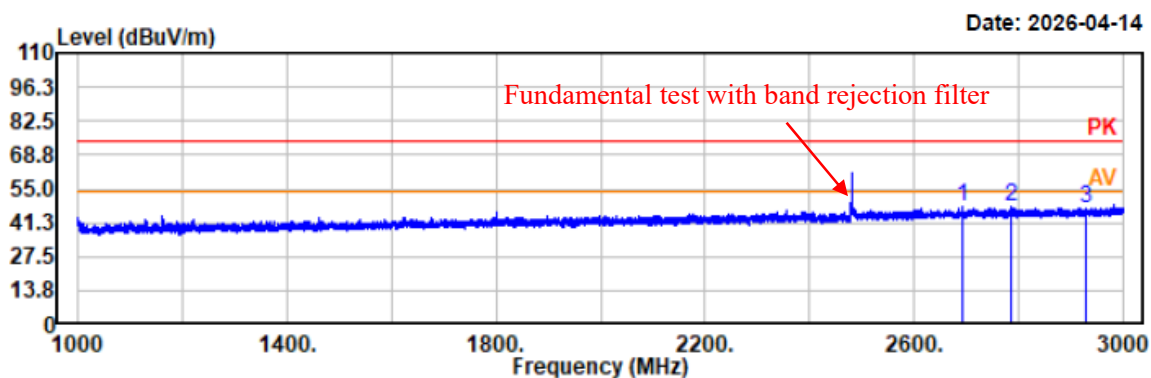


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2680.20	46.93	-0.10	46.83	74.00	27.17	vertical	Peak
2800.00	46.43	0.23	46.66	74.00	27.34	vertical	Peak
2926.00	48.81	0.56	49.37	74.00	24.63	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 3DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

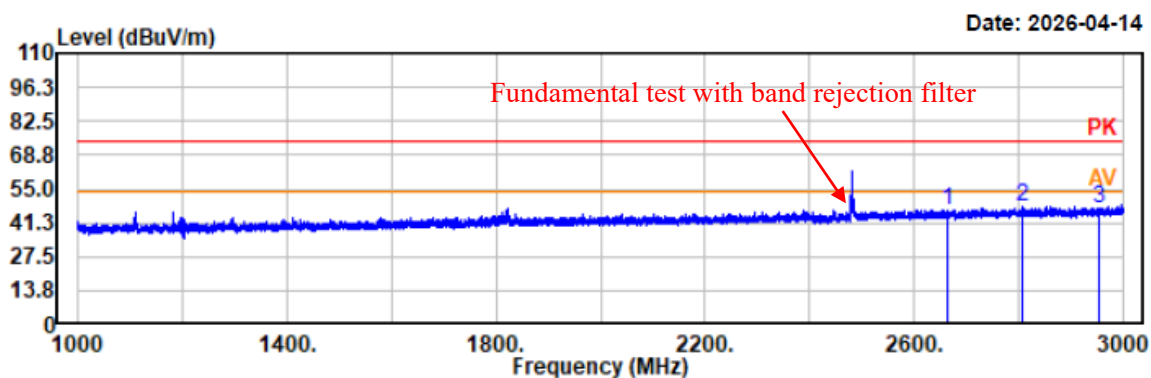


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2693.00	47.58	-0.06	47.52	74.00	26.48	horizontal	Peak
2785.80	47.32	0.18	47.50	74.00	26.50	horizontal	Peak
2929.20	46.75	0.59	47.34	74.00	26.66	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 3DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Condition: PK RBW:1MHz VBW:3MHz SWT:auto

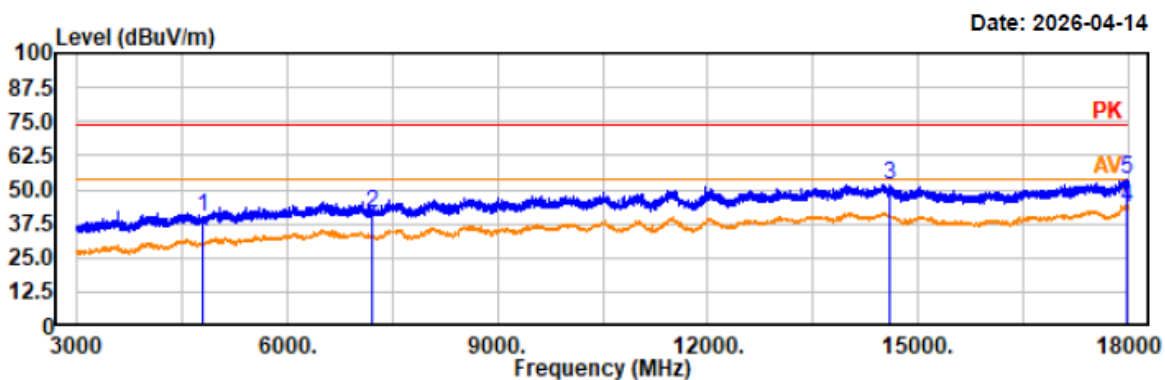
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2663.20	46.66	-0.18	46.48	74.00	27.52	vertical	Peak
2807.20	47.38	0.25	47.63	74.00	26.37	vertical	Peak
2955.80	46.56	0.76	47.32	74.00	26.68	vertical	Peak

4) 3 GHz - 18 GHz

Configuration 1#(Scanner variant)

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

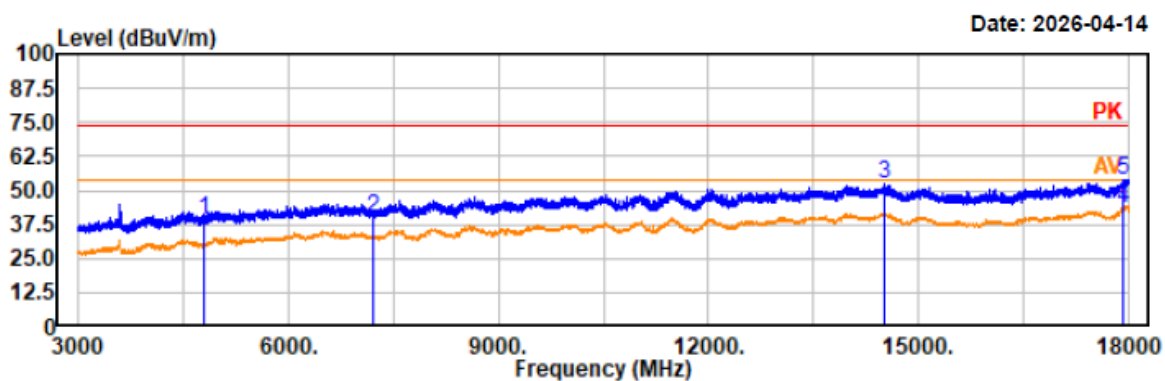
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.00	45.43	-5.26	40.17	74.00	33.83	horizontal	Peak
7206.00	44.18	-2.53	41.65	74.00	32.35	horizontal	Peak
14595.00	47.02	5.03	52.05	74.00	21.95	horizontal	Peak
17991.00	36.85	6.83	43.68	54.00	10.32	horizontal	Average
17991.00	46.66	6.83	53.49	74.00	20.51	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

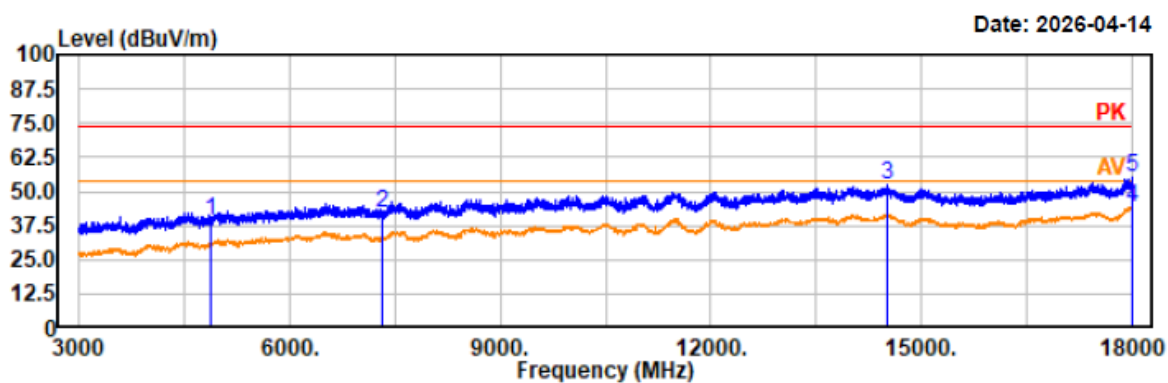
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.00	44.59	-5.26	39.33	74.00	34.67	vertical	Peak
7206.00	42.55	-2.53	40.02	74.00	33.98	vertical	Peak
14505.00	47.10	5.15	52.25	74.00	21.75	vertical	Peak
17919.00	36.89	6.79	43.68	54.00	10.32	vertical	Average
17919.00	46.89	6.79	53.68	74.00	20.32	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2441MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

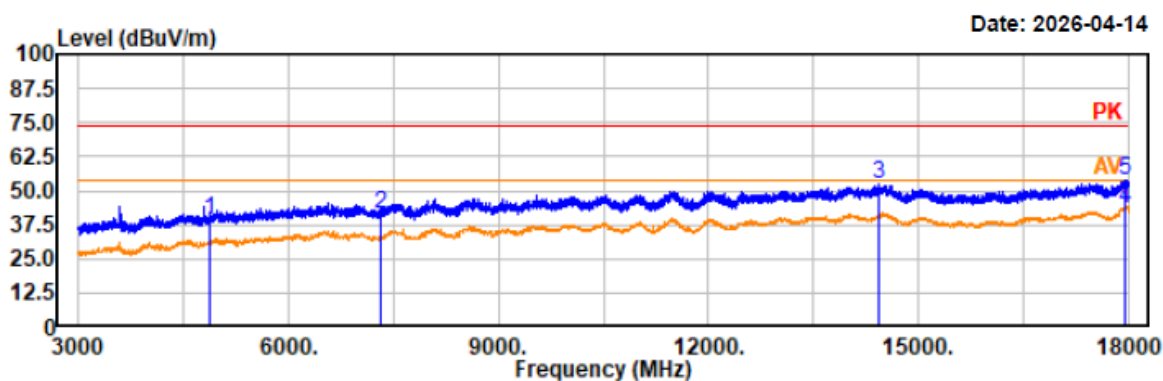
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4882.00	44.36	-5.25	39.11	74.00	34.89	horizontal	Peak
7323.00	44.32	-2.27	42.05	74.00	31.95	horizontal	Peak
14526.00	47.56	5.12	52.68	74.00	21.32	horizontal	Peak
17995.50	37.18	6.84	44.02	54.00	9.98	horizontal	Average
17995.50	48.15	6.84	54.99	74.00	19.01	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2441MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

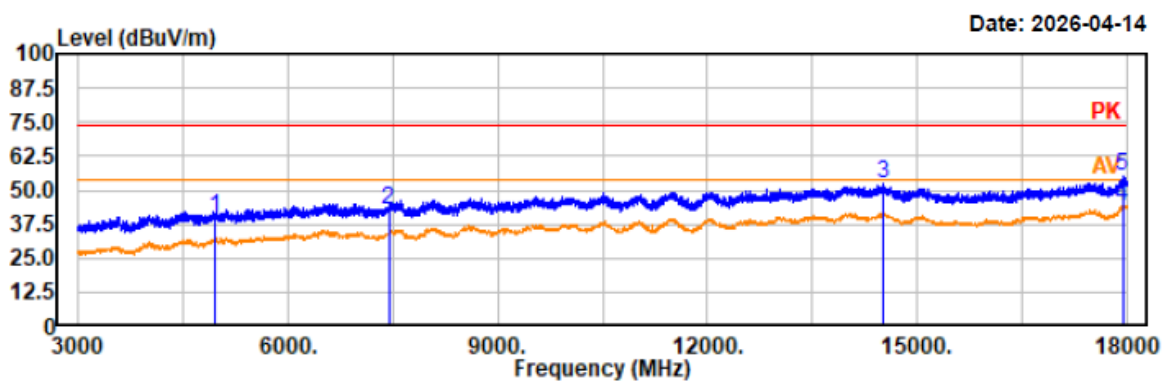
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4882.00	44.22	-5.25	38.97	74.00	35.03	vertical	Peak
7323.00	43.53	-2.27	41.26	74.00	32.74	vertical	Peak
14431.50	47.14	5.26	52.40	74.00	21.60	vertical	Peak
17944.50	36.83	6.80	43.63	54.00	10.37	vertical	Average
17944.50	46.95	6.80	53.75	74.00	20.25	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

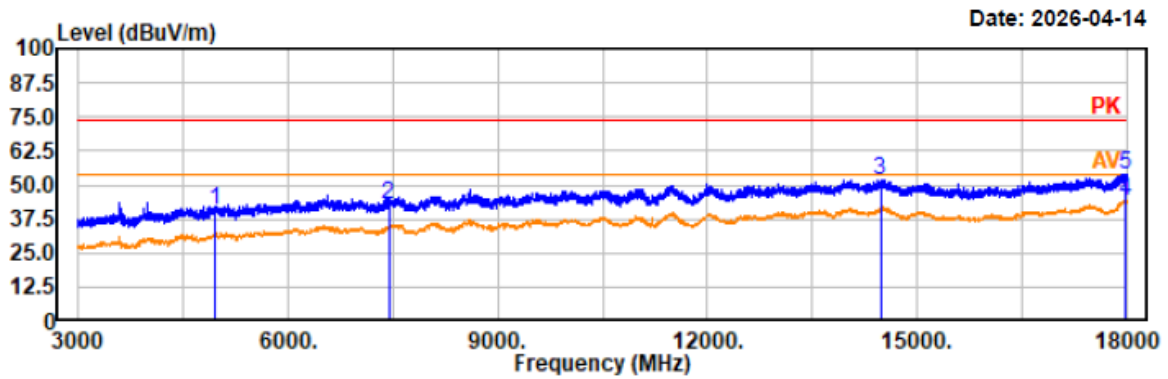
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	44.96	-5.09	39.87	74.00	34.13	horizontal	Peak
7440.00	44.63	-2.12	42.51	74.00	31.49	horizontal	Peak
14523.00	47.57	5.13	52.70	74.00	21.30	horizontal	Peak
17938.50	37.25	6.80	44.05	54.00	9.95	horizontal	Average
17938.50	48.19	6.80	54.99	74.00	19.01	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

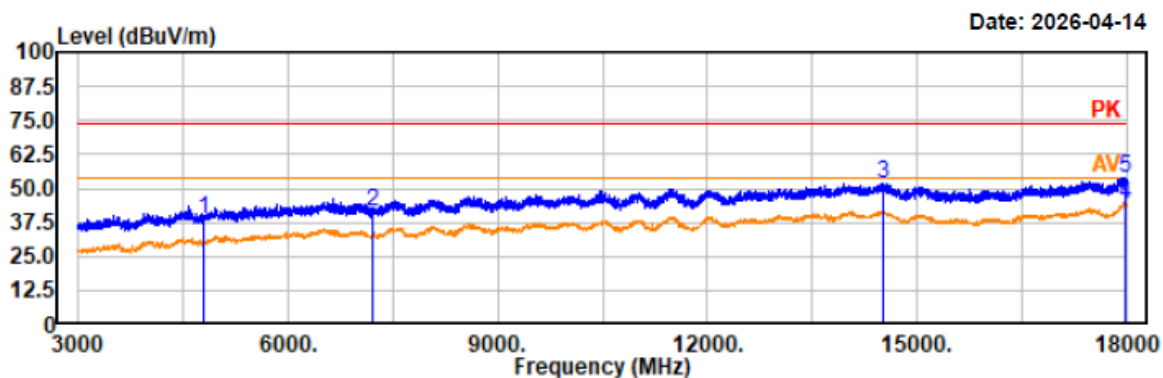
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	45.75	-5.09	40.66	74.00	33.34	vertical	Peak
7440.00	44.66	-2.12	42.54	74.00	31.46	vertical	Peak
14475.00	46.69	5.19	51.88	74.00	22.12	vertical	Peak
17989.50	37.24	6.83	44.07	54.00	9.93	vertical	Average
17989.50	47.12	6.83	53.95	74.00	20.05	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 2DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

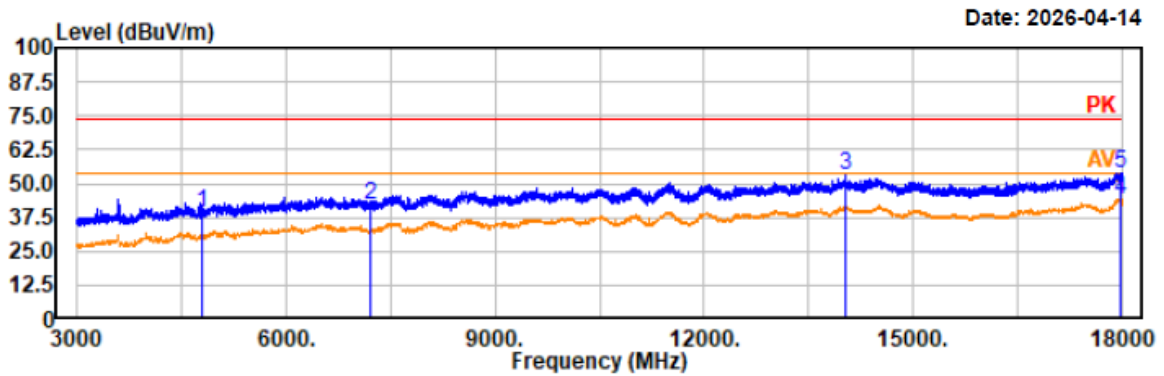
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.00	44.06	-5.26	38.80	74.00	35.20	horizontal	Peak
7206.00	44.08	-2.53	41.55	74.00	32.45	horizontal	Peak
14514.00	46.92	5.15	52.07	74.00	21.93	horizontal	Peak
17991.00	37.38	6.83	44.21	54.00	9.79	horizontal	Average
17991.00	47.30	6.83	54.13	74.00	19.87	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 2DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

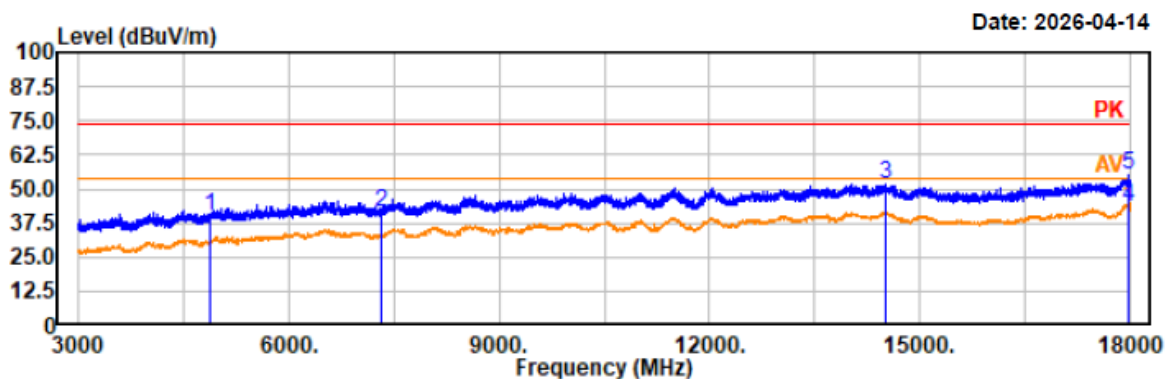
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.00	44.52	-5.26	39.26	74.00	34.74	vertical	Peak
7206.00	44.46	-2.53	41.93	74.00	32.07	vertical	Peak
14037.00	47.77	5.19	52.96	74.00	21.04	vertical	Peak
17986.50	37.21	6.83	44.04	54.00	9.96	vertical	Average
17986.50	47.29	6.83	54.12	74.00	19.88	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 2DH5 2441MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

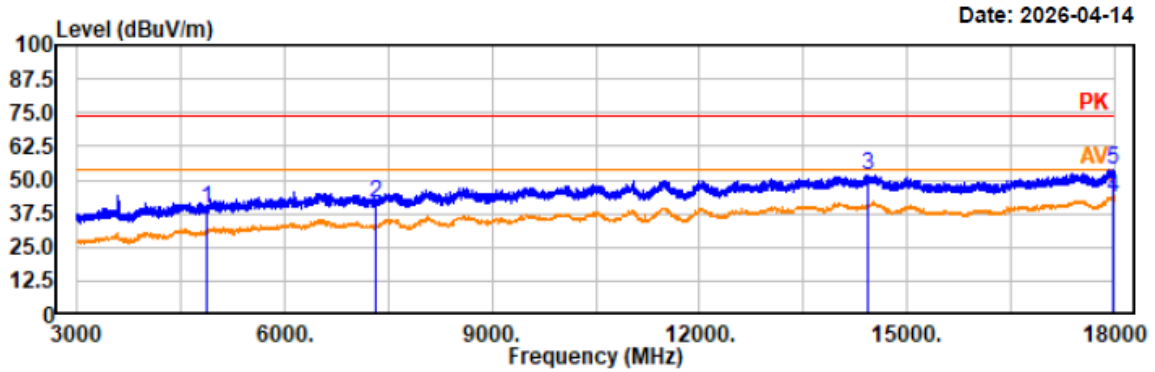
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4882.00	44.94	-5.25	39.69	74.00	34.31	horizontal	Peak
7323.00	43.53	-2.27	41.26	74.00	32.74	horizontal	Peak
14523.00	46.56	5.13	51.69	74.00	22.31	horizontal	Peak
17980.50	36.59	6.83	43.42	54.00	10.58	horizontal	Average
17980.50	48.40	6.83	55.23	74.00	18.77	horizontal	Peak

Project No.: 2607P42218E-RF
 Test Mode: EDR 2DH5 2441MHz
 EUT Model: AXIUM DX8
 Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz



Trace: 1

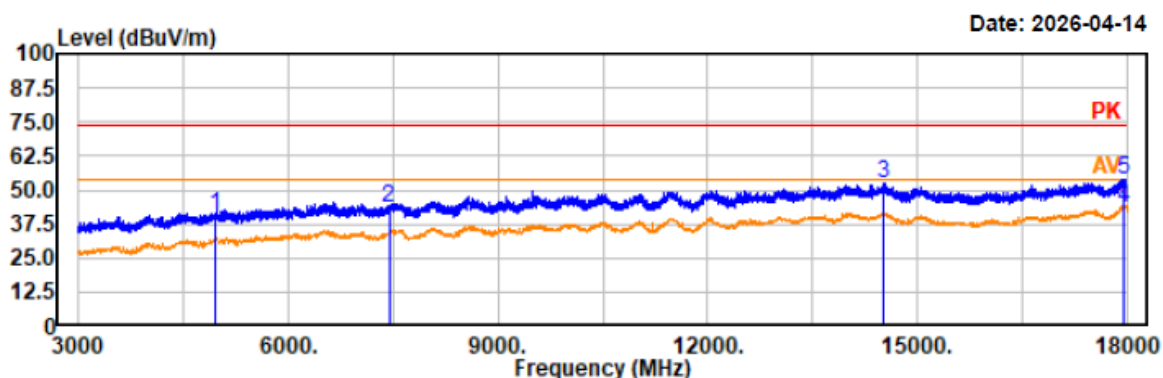
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4882.00	44.78	-5.25	39.53	74.00	34.47	vertical	Peak
7323.00	43.95	-2.27	41.68	74.00	32.32	vertical	Peak
14434.50	46.63	5.26	51.89	74.00	22.11	vertical	Peak
17982.00	36.69	6.83	43.52	54.00	10.48	vertical	Average
17982.00	46.99	6.83	53.82	74.00	20.18	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 2DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

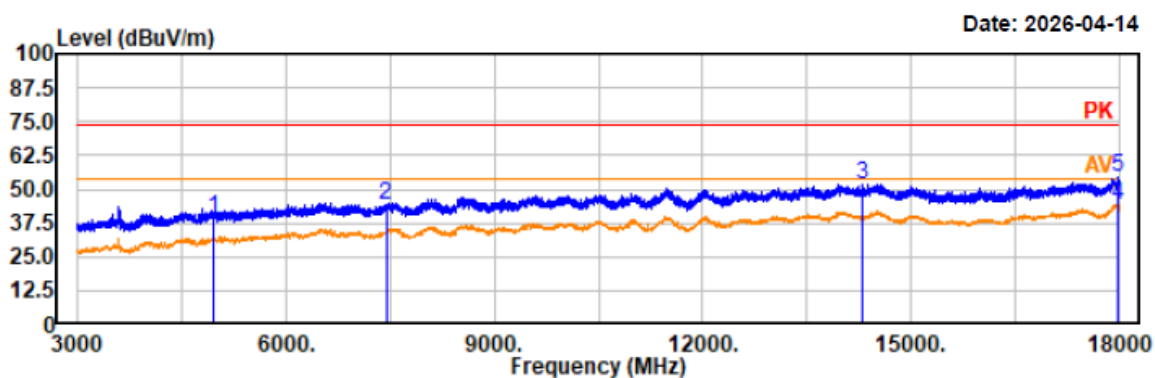
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	45.77	-5.09	40.68	74.00	33.32	horizontal	Peak
7440.00	45.29	-2.12	43.17	74.00	30.83	horizontal	Peak
14527.50	47.19	5.12	52.31	74.00	21.69	horizontal	Peak
17958.00	36.56	6.82	43.38	54.00	10.62	horizontal	Average
17958.00	46.98	6.82	53.80	74.00	20.20	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 2DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

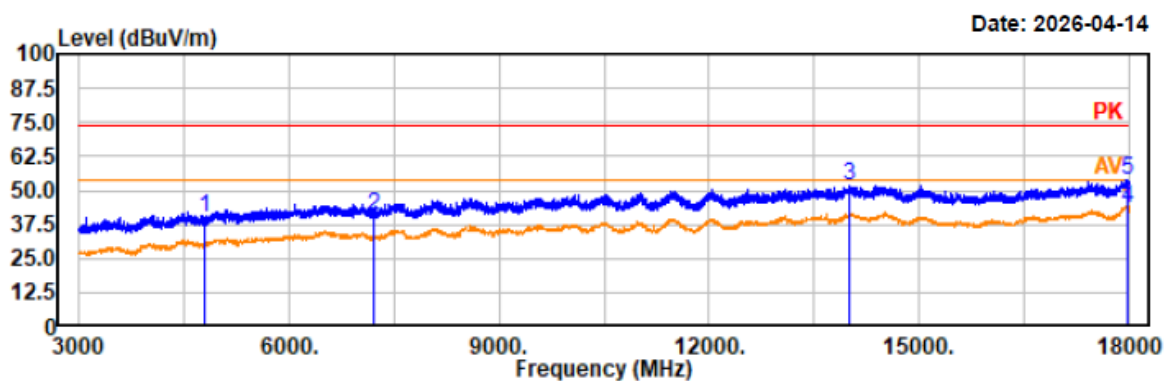
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	44.48	-5.09	39.39	74.00	34.61	vertical	Peak
7440.00	46.49	-2.12	44.37	74.00	29.63	vertical	Peak
14302.50	46.42	5.33	51.75	74.00	22.25	vertical	Peak
17982.00	37.27	6.83	44.10	54.00	9.90	vertical	Average
17982.00	47.61	6.83	54.44	74.00	19.56	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 3DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

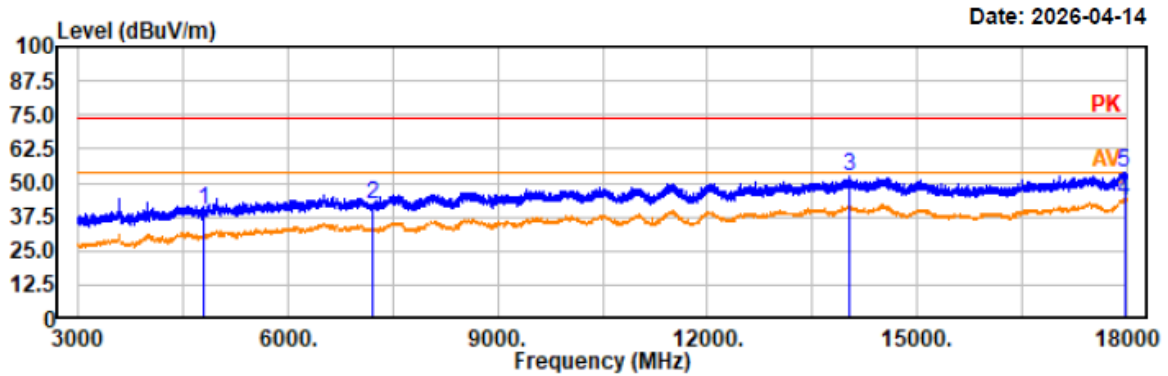
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.50	45.35	-5.27	40.08	74.00	33.92	horizontal	Peak
7206.00	43.24	-2.53	40.71	74.00	33.29	horizontal	Peak
14011.50	46.42	5.15	51.57	74.00	22.43	horizontal	Peak
17985.00	36.87	6.83	43.70	54.00	10.30	horizontal	Average
17985.00	46.71	6.83	53.54	74.00	20.46	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 3DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

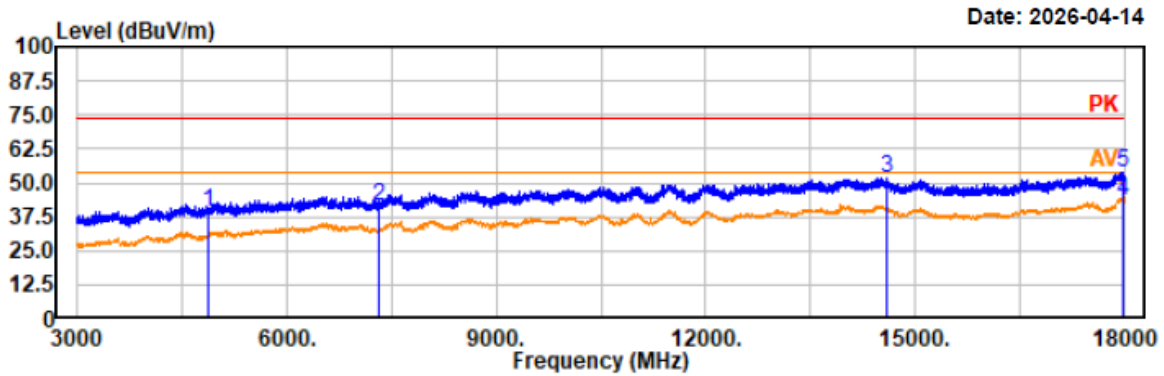
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.00	45.04	-5.26	39.78	74.00	34.22	vertical	Peak
7206.00	44.33	-2.53	41.80	74.00	32.20	vertical	Peak
14032.50	46.96	5.18	52.14	74.00	21.86	vertical	Peak
17965.50	36.46	6.82	43.28	54.00	10.72	vertical	Average
17965.50	47.27	6.82	54.09	74.00	19.91	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 3DH5 2441MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

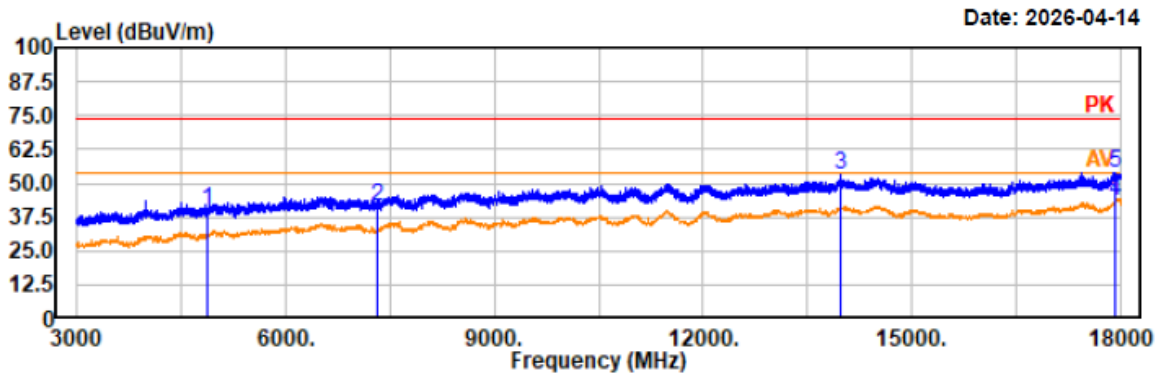
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4882.00	44.66	-5.25	39.41	74.00	34.59	horizontal	Peak
7323.00	43.53	-2.27	41.26	74.00	32.74	horizontal	Peak
14592.00	46.79	5.05	51.84	74.00	22.16	horizontal	Peak
17976.00	36.79	6.83	43.62	54.00	10.38	horizontal	Average
17976.00	46.80	6.83	53.63	74.00	20.37	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 3DH5 2441MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

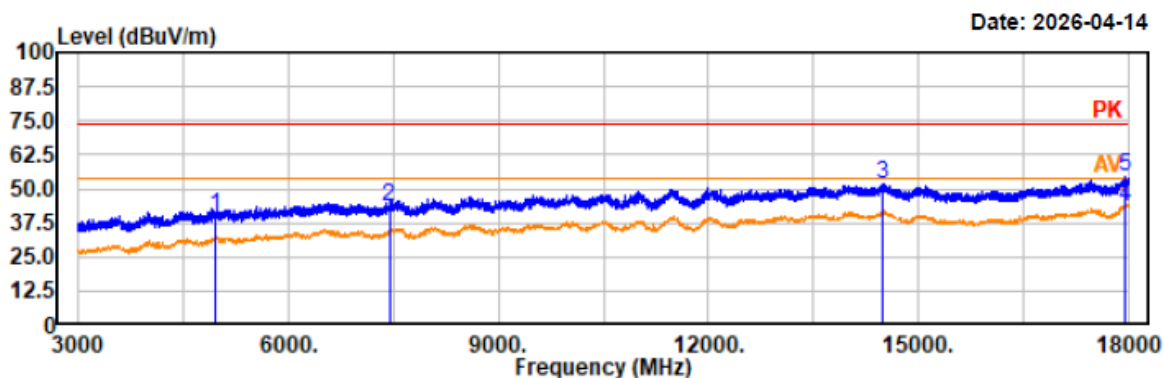
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4882.00	45.37	-5.25	40.12	74.00	33.88	vertical	Peak
7323.00	43.65	-2.27	41.38	74.00	32.62	vertical	Peak
13980.00	48.30	5.13	53.43	74.00	20.57	vertical	Peak
17934.00	36.59	6.79	43.38	54.00	10.62	vertical	Average
17934.00	47.31	6.79	54.10	74.00	19.90	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 3DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

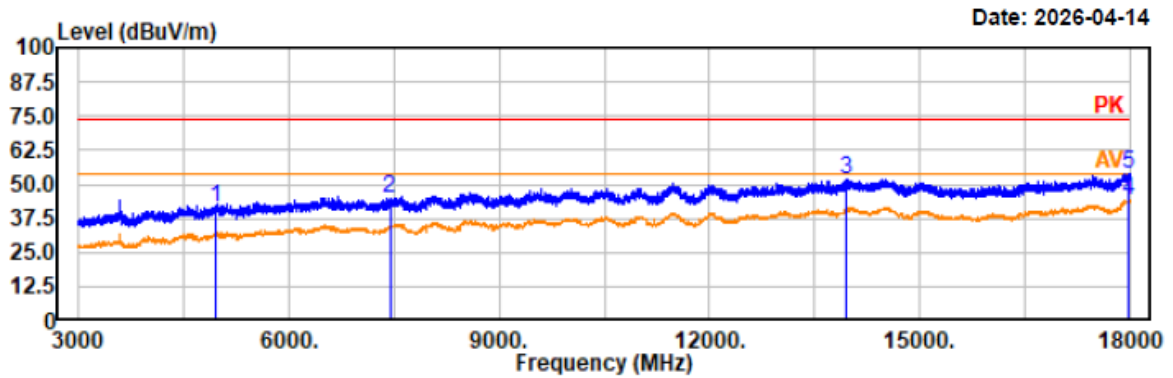
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	45.02	-5.09	39.93	74.00	34.07	horizontal	Peak
7440.00	45.78	-2.12	43.66	74.00	30.34	horizontal	Peak
14494.50	46.86	5.17	52.03	74.00	21.97	horizontal	Peak
17953.50	36.57	6.81	43.38	54.00	10.62	horizontal	Average
17953.50	47.40	6.81	54.21	74.00	19.79	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 3DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	46.33	-5.09	41.24	74.00	32.76	vertical	Peak
7440.00	46.78	-2.12	44.66	74.00	29.34	vertical	Peak
13957.50	46.53	5.13	51.66	74.00	22.34	vertical	Peak
17989.50	37.44	6.83	44.27	54.00	9.73	vertical	Average
17989.50	47.20	6.83	54.03	74.00	19.97	vertical	Peak

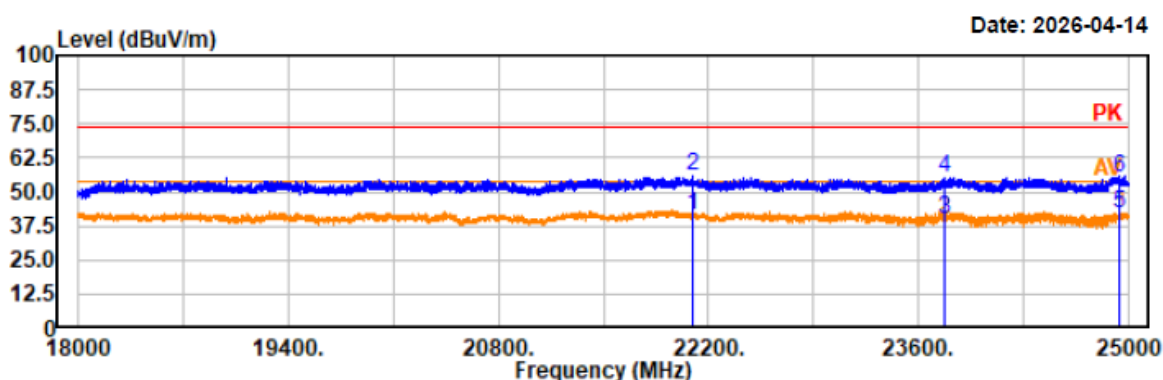
5) 18GHz-25GHz

Note: The maximum output power mode: BDR(GFSK) middle channel was tested.

Configuration 1#(Scanner variant)

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2441MHz
EUT Model: AXIUM DX8
Test distance: 1.5m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

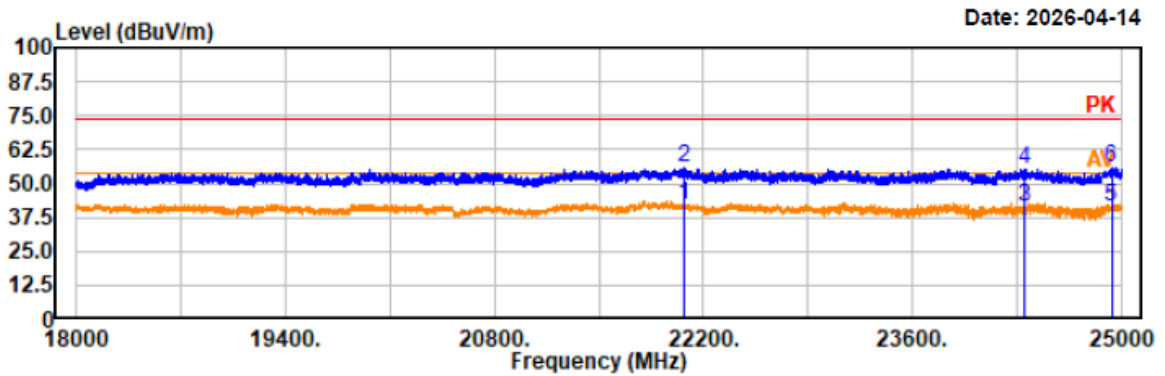
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
22098.50	36.55	5.01	41.56	54.00	12.44	horizontal	Average
22098.50	50.56	5.01	55.57	74.00	18.43	horizontal	Peak
23779.20	34.49	5.17	39.66	54.00	14.34	horizontal	Average
23779.20	49.93	5.17	55.10	74.00	18.90	horizontal	Peak
24935.60	35.57	6.31	41.88	54.00	12.12	horizontal	Average
24935.60	49.10	6.31	55.41	74.00	18.59	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2441MHz
EUT Model: AXIUM DX8
Test distance: 1.5m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

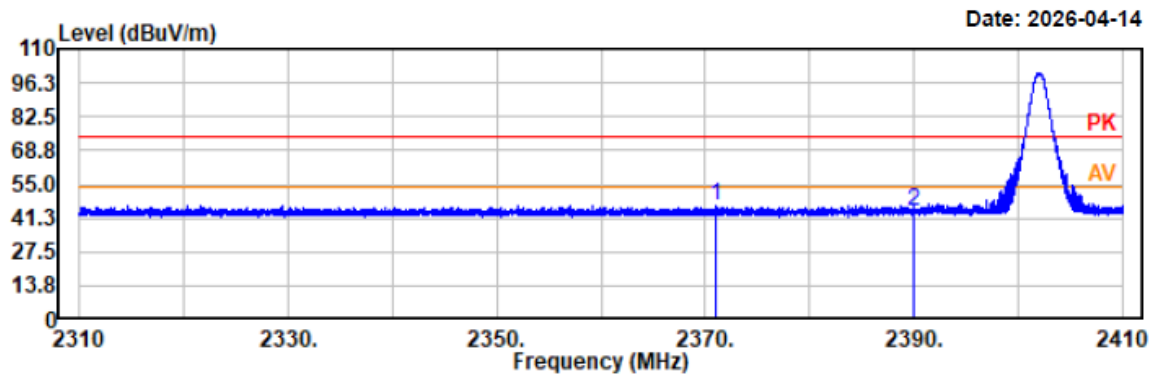
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
22070.50	36.66	5.08	41.74	54.00	12.26	vertical	Average
22070.50	50.59	5.08	55.67	74.00	18.33	vertical	Peak
24354.60	35.33	6.03	41.36	54.00	12.64	vertical	Average
24354.60	49.42	6.03	55.45	74.00	18.55	vertical	Peak
24933.50	34.83	6.31	41.14	54.00	12.86	vertical	Average
24933.50	49.41	6.31	55.72	74.00	18.28	vertical	Peak

Restricted Bands Emissions:

Configuration 1#(Scanner variant)

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

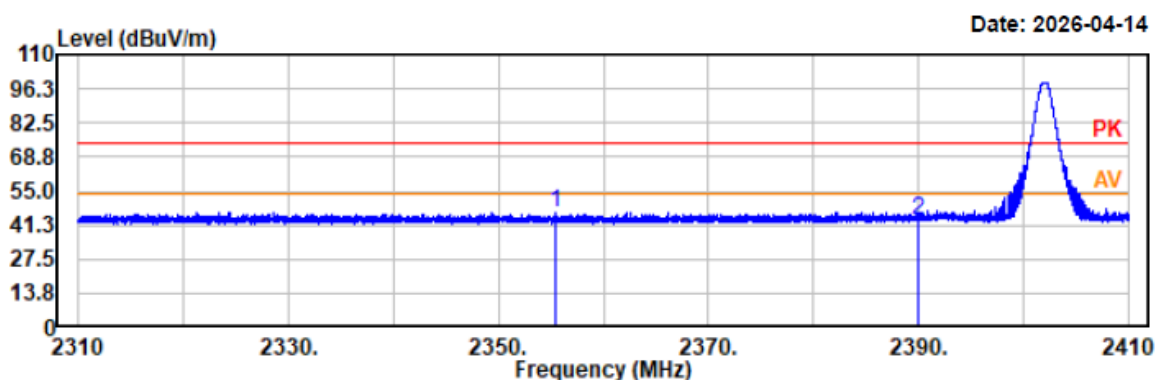


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2370.97	47.67	-1.35	46.32	74.00	27.68	horizontal	Peak
2390.00	45.55	-1.26	44.29	74.00	29.71	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

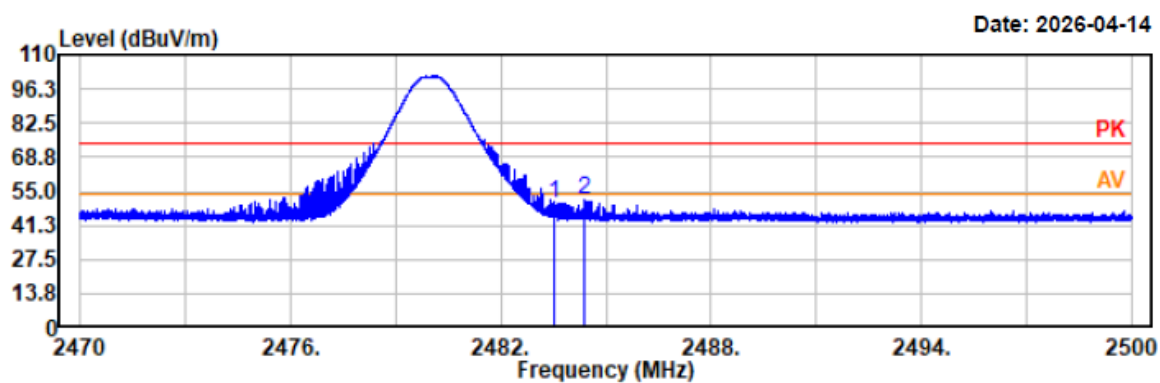


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2355.48	47.69	-1.41	46.28	74.00	27.72	vertical	Peak
2390.00	44.69	-1.26	43.43	74.00	30.57	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

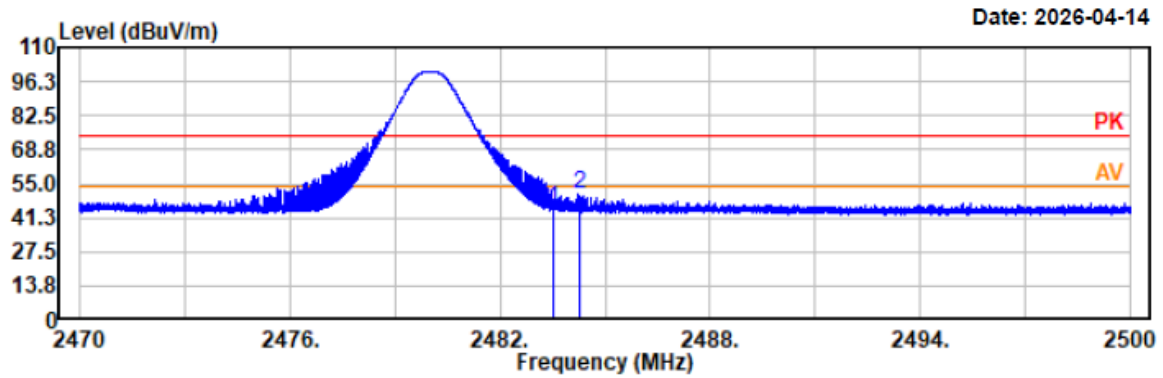


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	50.76	-0.82	49.94	74.00	24.06	horizontal	Peak
2484.37	52.40	-0.81	51.59	74.00	22.41	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: BDR DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

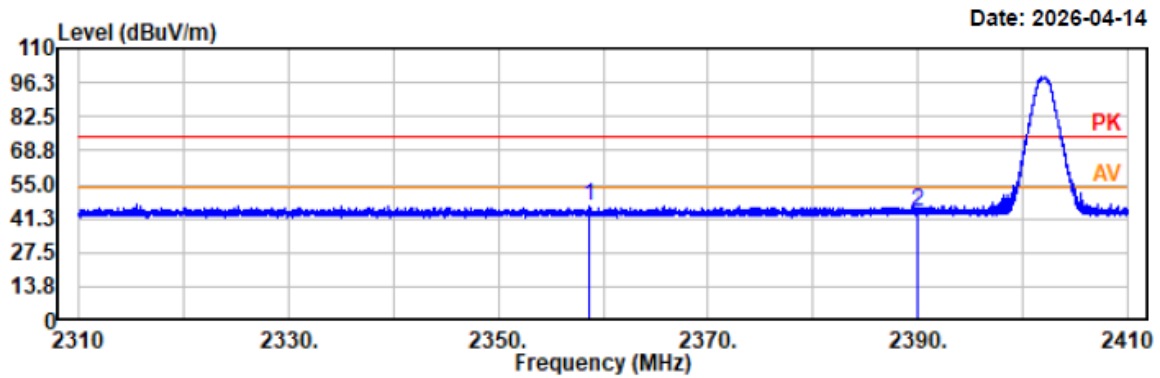


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	45.42	-0.82	44.60	74.00	29.40	vertical	Peak
2484.30	51.37	-0.81	50.56	74.00	23.44	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 2DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

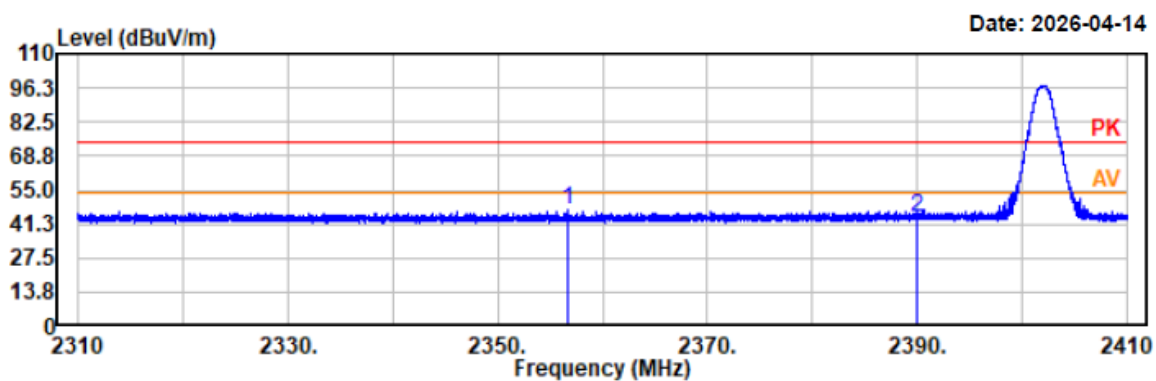


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2358.74	47.72	-1.40	46.32	74.00	27.68	horizontal	Peak
2390.00	45.06	-1.26	43.80	74.00	30.20	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 2DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

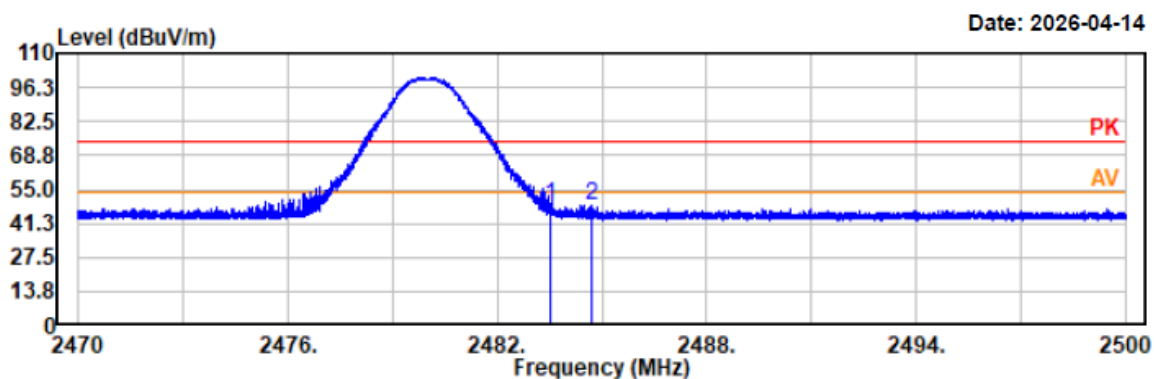


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2356.75	48.18	-1.40	46.78	74.00	27.22	vertical	Peak
2390.00	45.31	-1.26	44.05	74.00	29.95	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 2DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

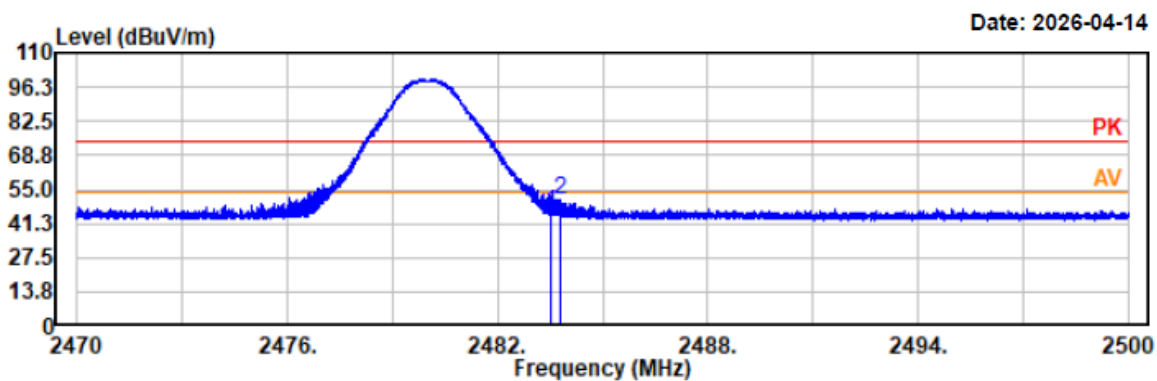


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	49.35	-0.82	48.53	74.00	25.47	horizontal	Peak
2484.72	49.38	-0.81	48.57	74.00	25.43	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 2DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

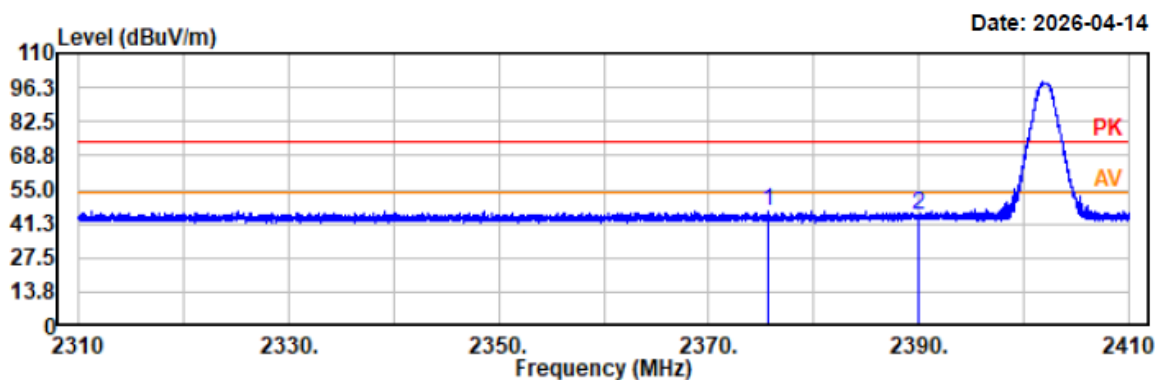


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	46.39	-0.82	45.57	74.00	28.43	vertical	Peak
2483.79	51.98	-0.81	51.17	74.00	22.83	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 3DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

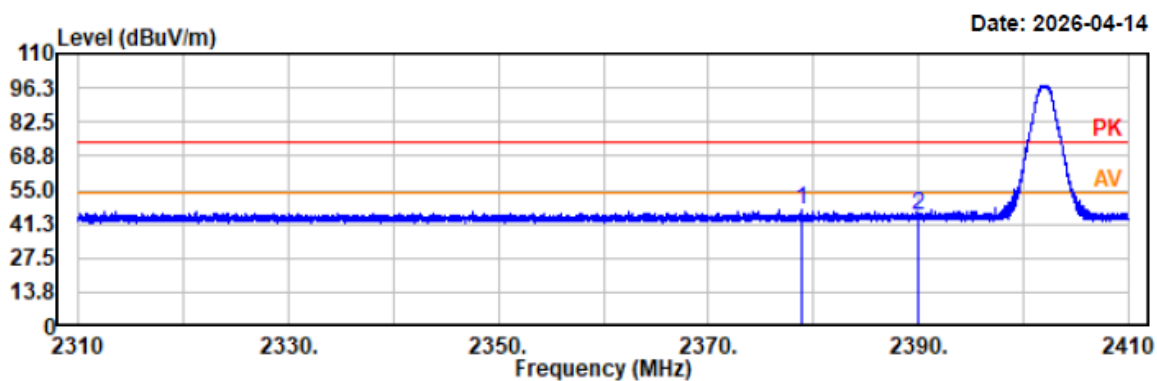


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2375.70	47.56	-1.33	46.23	74.00	27.77	horizontal	Peak
2390.00	45.93	-1.26	44.67	74.00	29.33	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 3DH5 2402MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

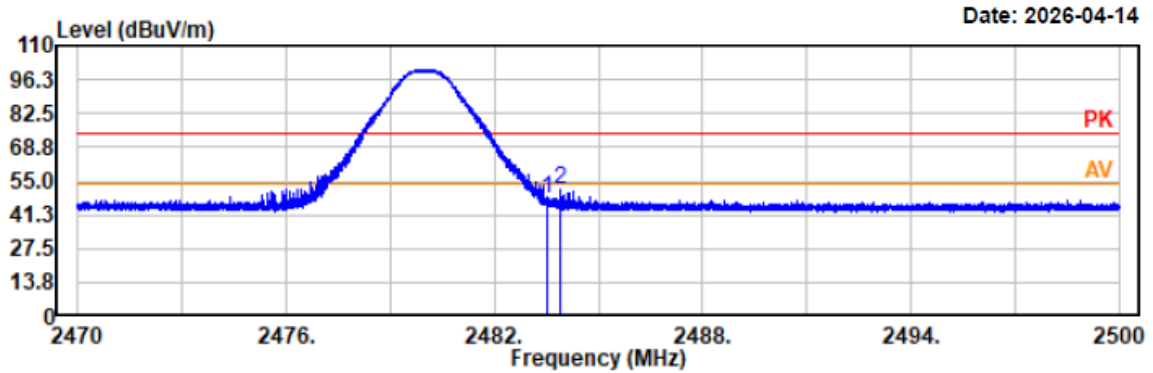


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2378.87	48.23	-1.31	46.92	74.00	27.08	vertical	Peak
2390.00	46.08	-1.26	44.82	74.00	29.18	vertical	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 3DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

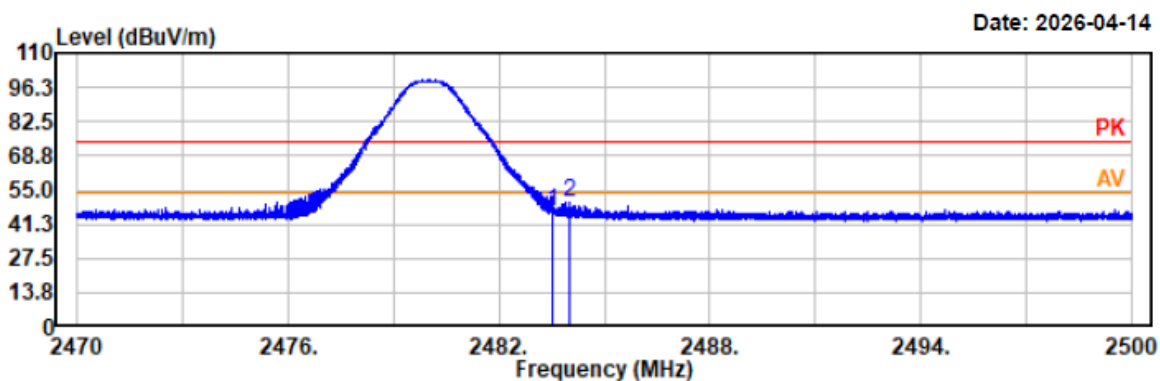


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	48.95	-0.82	48.13	74.00	25.87	horizontal	Peak
2483.90	52.44	-0.81	51.63	74.00	22.37	horizontal	Peak

Project No.: 2607P42218E-RF
Test Mode: EDR 3DH5 2480MHz
EUT Model: AXIUM DX8
Test distance: 3m

Temp/Humi/ATM: 23.2°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	47.15	-0.82	46.33	74.00	27.67	vertical	Peak
2484.00	51.10	-0.81	50.29	74.00	23.71	vertical	Peak

FCC §15.247(b) (1) & RSS-247 ISSUE 4 Clause 6.2.3.2 - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

FCC§15.247(b) (1)

For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

According to RSS-247 ISSUE 4 Clause 6.2.3.2 a) c)

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W, except as provided in section 6.5 a) and b).

EUT Setup



Test Procedure

According to ANSI C63.10-2020 Section 7.8.5

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer setting:

- a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- b) RBW > 20 dB bandwidth of the emission being measured.
- c) VBW ≥ RBW.
- d) Sweep: No faster than coupled (auto) time.
- e) Detector function: Peak.
- f) Trace: Max-hold.
- g) Allow trace to stabilize.
- h) Use the marker-to-peak function to set the marker to the peak of the emission.
- i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- j) A plot of the test results and setup description shall be included in the test report.

NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

Test Data

Test Mode:	Transmitting	Test Engineer:	Braylon Ma
Test Date:	2026-04-01	Environment:	Temp.: 22.1°C Humi.: 54% Atm : 100.1kPa
Mode	Frequency (MHz)	Peak Conducted Output Power (dBm)	Limit (dBm)
BDR (GFSK)	2402	8.71	21
	2441	9.12	21
	2480	8.28	21
Antenna Gain(dBi):	2.98	Max.EIRP(dBm):	12.1
EIRP Limit for RSS-247: 36 dBm			

Note:

The Spot Check data were similar to the original data.

EUT PHOTOGRAPHS

Please refer to the attachment 2607P42218E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2607P42218E-RF-INP EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2607P42218E-RF-TSP-01 TEST SETUP PHOTOGRAPHS.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor k with the 95% confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).
6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

******* END OF REPORT *******