



FCC PART 15.247

TEST REPORT

For

Austar Hearing Science and Technology (Xiamen) Co., Ltd.

B8, Biomedical Industrial Park, No.2064 Wengjiao West Road, Haicang Dist. Xiamen, Fujian, China

FCC ID: 2A445FAIP916-DW

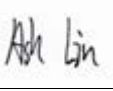
Report Type: Original Report	Product Name: Digital Rechargeable BTE Hearing Aids
Report Number:	2607S35862E-RF-01
Report Date:	2026-08-05
Reviewed By:	Ash Lin 
Approves By:	Miles Chen 
Prepared By:	Bay Area Compliance Laboratories Corp. (Xiamen) Unit 102, No. 902 Meifeng South Road, Binhai West Avenue Science and Technology Innovation Park, Torch High Tech Zone Xiamen, People's Republic of China Tel: +86-592-3200111 www.baclcorp.com.cn

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2607S35862E-RF-01	R1V1	2026-08-05	Initial Release

GENERAL INFORMATION**Product Description for Equipment under Test (EUT)**

Applicant:		Austar Hearing Science and Technology (Xiamen) Co., Ltd.
Product Name:		Digital Rechargeable BTE Hearing Aids
Tested Model:		FAIP916-DW
Multiple Model(s):		N/A
Trade Mark:		AUSTAR®
Power Supply:		Charging case: DC 5V from adapter or DC 3.7V from battery Hearing aid: DC 3.6V from battery or DC 5V from Charging case
Adapter information	Model:	LX050100
	Input:	AC 100-240V, 50/60Hz, 0.35A
	Output:	DC 5V, 1A
Maximum Conducted Output Peak Power:		-1.5dBm
Frequency Range:		2402-2480MHz
Modulation Technique:		GFSK
Antenna Type:		Monopole Antenna
★Maximum Antenna Gain:		0.96dBi
EUT Received Status:		Good
<i>Note:</i> 1. The Maximum Antenna Gain was declared by manufacturer. 2. The device includes left and right unit, and the two units were electrically identical. Please refer to the declaration letter for more detail, which was provided by manufacturer. Only the left unit was tested. 3. All measurement and test data in this report was gathered from production sample serial number: 3L5E-10 (RF conducted), 3L5E-12 (Radiated Spurious Emission) (Assigned by the BACL(Xiamen). The EUT supplied by the applicant was received on 2026-04-29)		

Objective

This report is prepared on behalf of *Austar Hearing Science and Technology (Xiamen) Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Xiamen).

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the 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.

Measurement Uncertainty

Item		U_{lab}
Radiated Spurious Emission	9kHz-150kHz	2.82dB
	150kHz-30MHz	2.74dB
	30MHz~1GHz	4.68dB
	1GHz~18GHz	5.00dB
	18GHz~26.5GHz	4.90dB
Occupied Channel Bandwidth		1.69%
Transmitter Conducted Power(Conducted RF power)		0.43 dB
Conducted Spurious Emission		2.92 dB
Power Spectral Density		2.52 dB
Duty Cycle		1 %
Temperature		1 °C
Humidity		5 %
Supply voltages		0.4 %

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 configured for testing in engineering mode, which was provided by applicant.	
Test mode:	Transmitting
Test voltage:	DC 3.6V from battery
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

For BLE mode, 40 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

EUT was tested with Channel 0, 19 and 39.

Equipment Modifications

No modification was made to the EUT tested.

★EUT Exercise Software

RF Test Tool: Airoha.Tool.Kit.exe

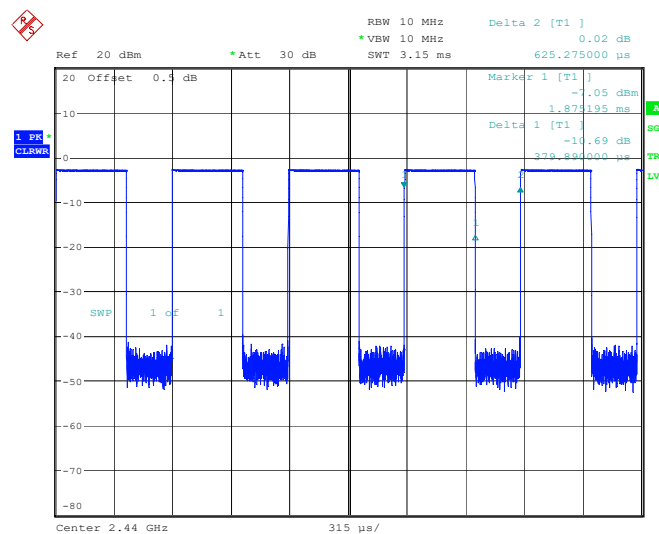
Mode	Power level		
	Low channel	Middle channel	High channel
BLE 1Mbps	45	45	45
BLE 2Mbps	45	45	45

Note: the applicant declared the power level.

Duty cycle

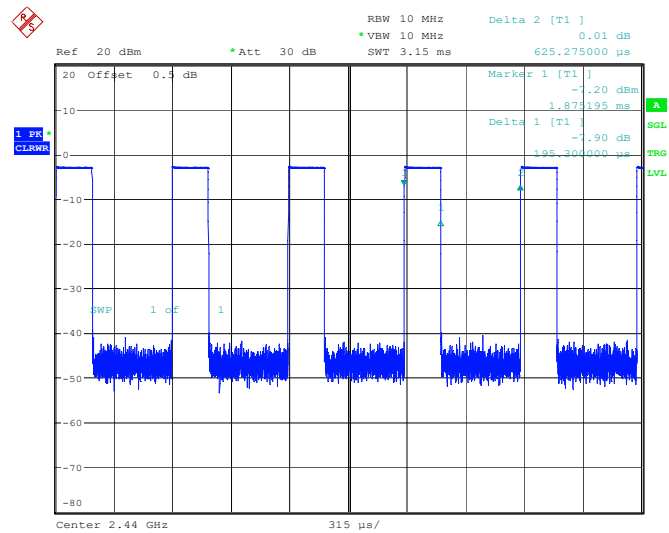
Test Mode:		Transmitting		Test Engineer:		Yuki
Test Date:		2026-07-15		Environment:		Temp.: 22.3°C Humi.: 45% Atm :100.1 kPa
Test Modes	Test Frequency (MHz)	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	VBW Setting (kHz)
BLE 1Mbps	2440	0.380	0.625	60.80	2632	3.00
BLE 2Mbps	2440	0.195	0.625	31.20	5128	10.00

BLE 1Mbps: Middle Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 16:23:24

BLE 2Mbps: Middle Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 16:26:07

Support Equipment List and Details

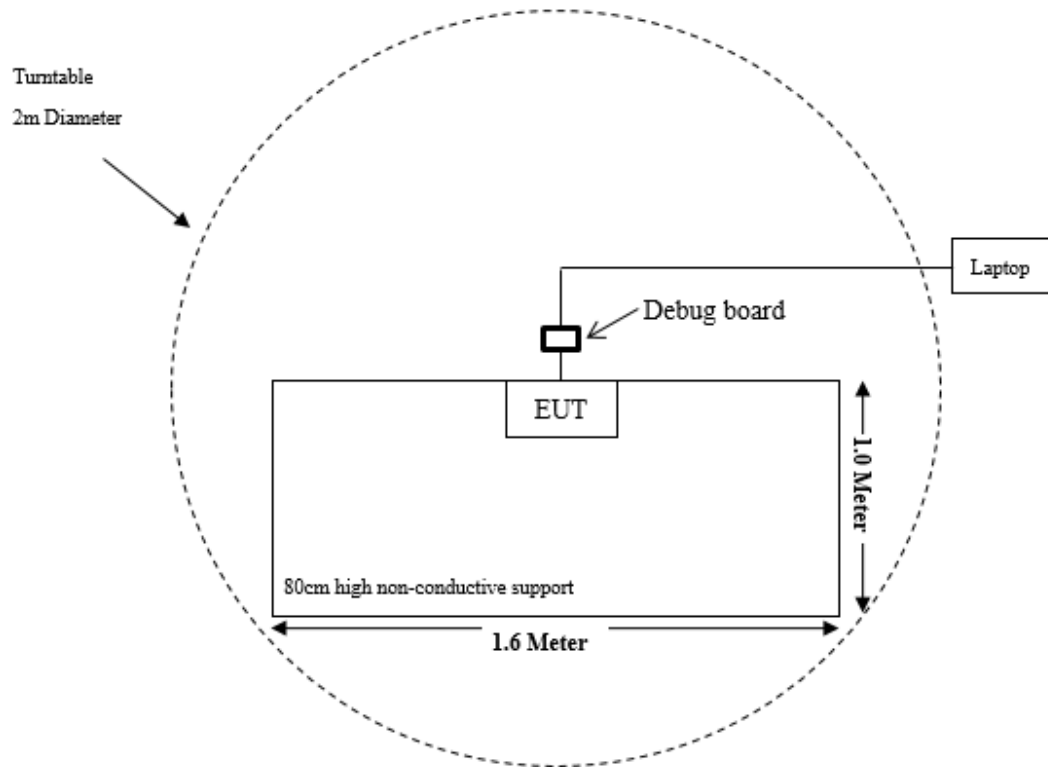
Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T480	PF1P5K4F
Unknown	Debug board	Unknown	Unknown

External I/O Cable

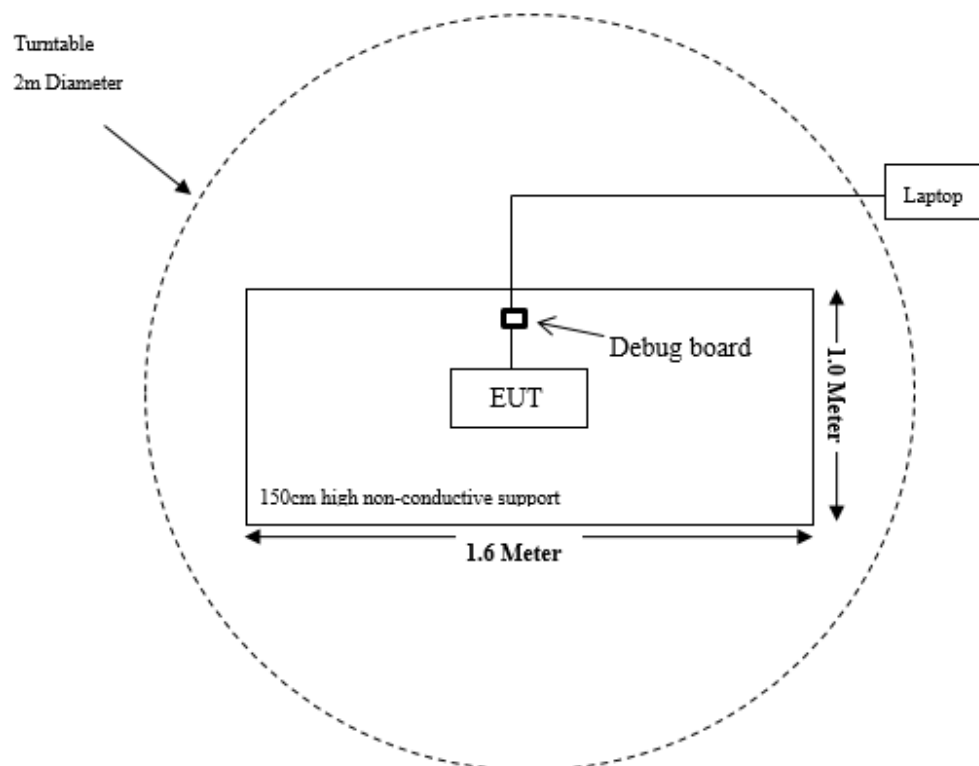
Cable Description	Length (m)	From Port	To
Jumper Wire	0.2	Debug board	EUT
USB Cable	10	Debug board	Laptop
RF Cable	0.1	EUT antenna port	Spectrum Analyzer

Block Diagram of Test Setup

Radiated Spurious Emission
Below 1GHz:



Above 1GHz:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Not Applicable (See Note 1)
§15.205, §15.209, §15.247(d)	Radiated Emissions & Restricted Bands Emissions & Antenna-port conducted emission	Compliant
§15.247(a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

Note:

1. The EUT is powered by Battery.

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emissions Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESR3	103103	2026/1/21	2027/1/20
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2026/5/12	2029/5/11
Antenna	Sunol Sciences	JB6	A122022-5	2026/5/12	2029/5/11
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	2026/5/12	2027/5/11
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
Spectrum Analyzer	Rohde & Schwarz	FSU	100405	2026/1/21	2027/1/20
Filter Switch Unit	Decentest	DT7220FSU	DS79904	2026/1/21	2027/1/20
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	2026/5/12	2029/5/11
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					
Spectrum Analyzer	Rohde & Schwarz	FSU	100405	2026/1/21	2027/1/20
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 - ANTENNA REQUIREMENT

Applicable Standard

According to § 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 user 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.

Antenna Connector Construction

The EUT has one Monopole antenna arrangement for BLE, which was permanently attached and the antenna gain is 0.96dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant

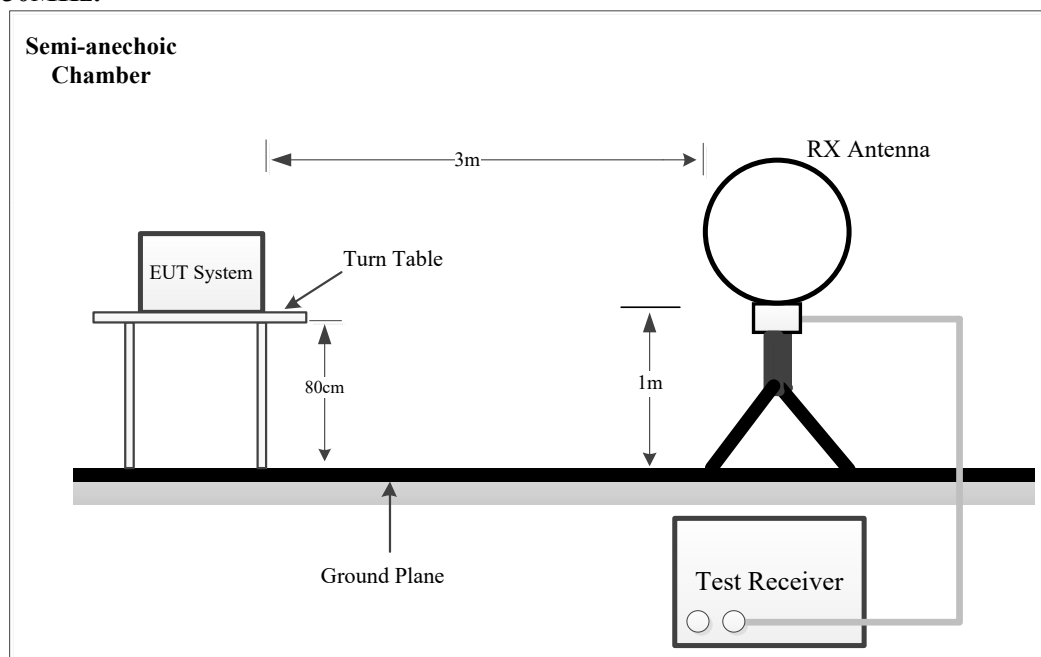
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS**Applicable Standard**

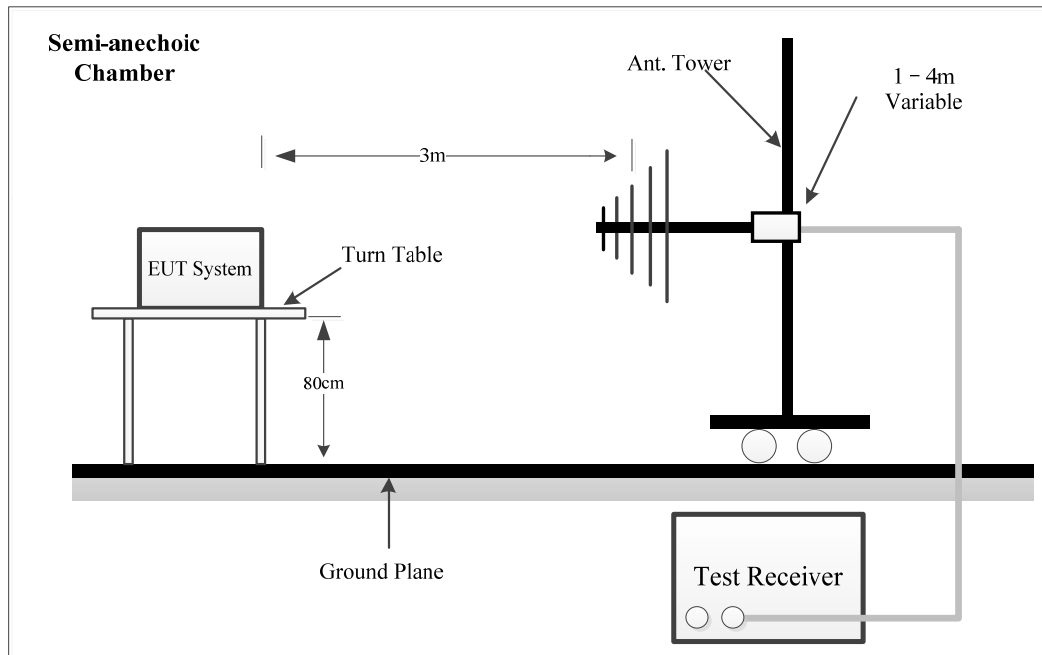
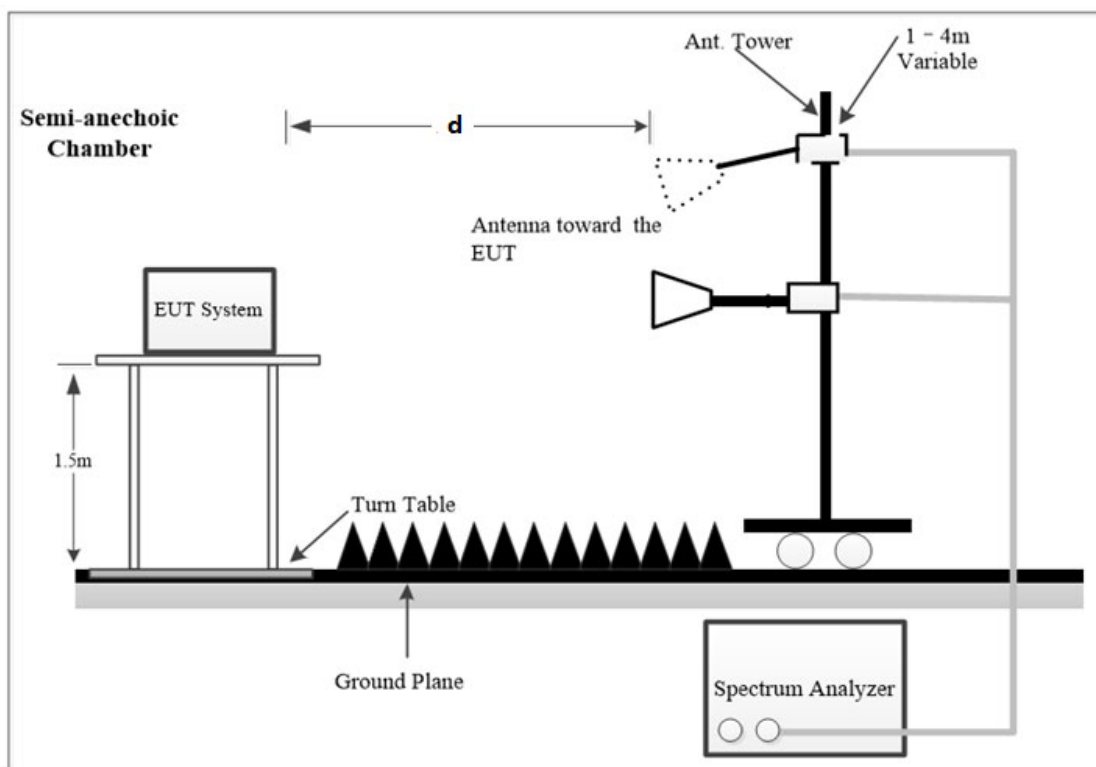
FCC §15.247 (d); §15.209; §15.205;

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

EUT Setup

9 kHz-30MHz:



30MHz -1 GHz:**Above 1GHz:**

The radiated emission tests using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, and FCC 15.247 limits.

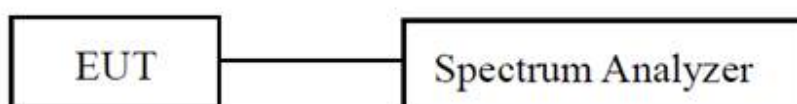
NOTE: d is testing distance;

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, 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 = 6.0 dB

Antenna-port conducted emission:



Note: A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable was TDF into the setting of test equipment:

TDF = Insert loss of RF cable

★ The Insert loss was declared by manufacturer.

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 were set with the following configurations:

Below 1GHz:

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

Above 1GHz:

Pre-scan:

Measurement	Duty Cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3MHz	PK
Ave.	>98%	1MHz	5kHz	PK
	<98%	1MHz	1/T, not less than 5kHz	PK

Final measurement for emission identified during the pre-scan:

Measurement	Duty Cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3MHz	PK
Ave.	>98%	1MHz	10Hz	PK
	<98%	1MHz	1/T	PK

Note: T is minimum transmission duration

Test Procedure

Radiated Emissions:

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.

Antenna-port conducted emission:

Typical regulatory requirements specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated by an amount specified by the regulator.

- a) Set the RBW = 100 kHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Sweep time = No faster than coupled (auto) time.
- e) Trace mode = max-hold.
- f) Allow trace to fully stabilize.
- g) Use the peak marker function to determine the maximum amplitude level.

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 = 6dB (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:

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

Test Data

Please refer to the below table and plots.

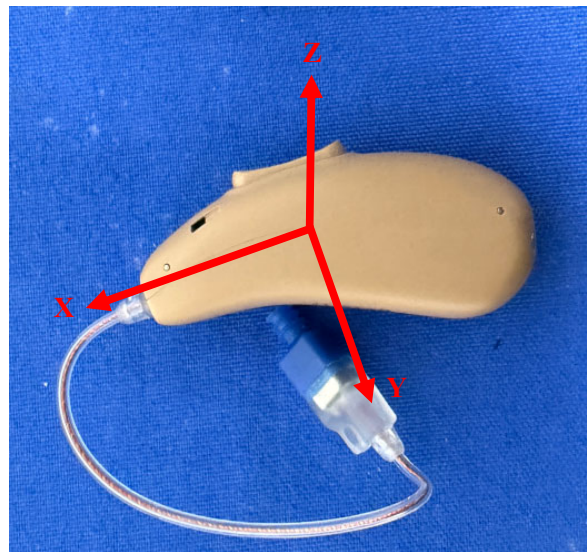
Frequency Range:	Below 1 GHz	Above 1 GHz	Antenna-port conducted emission
Temperature:	23.0°C	23.0°C	22.3°C
Relative Humidity:	60%	60%	45%
ATM Pressure:	100.1kPa	100.1kPa	100.1kPa
Test Date:	2026-07-24	2026-07-24	2026-07-15
Test Engineer:	Wlif Wu	Wlif Wu	Yuki

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

X-axis forward: From the Sound tube/earhook to the battery compartment.

Y-axis forward: From the top (with buttons) to the other side.

Z-axis forward: Vertical to the X and Y axes.



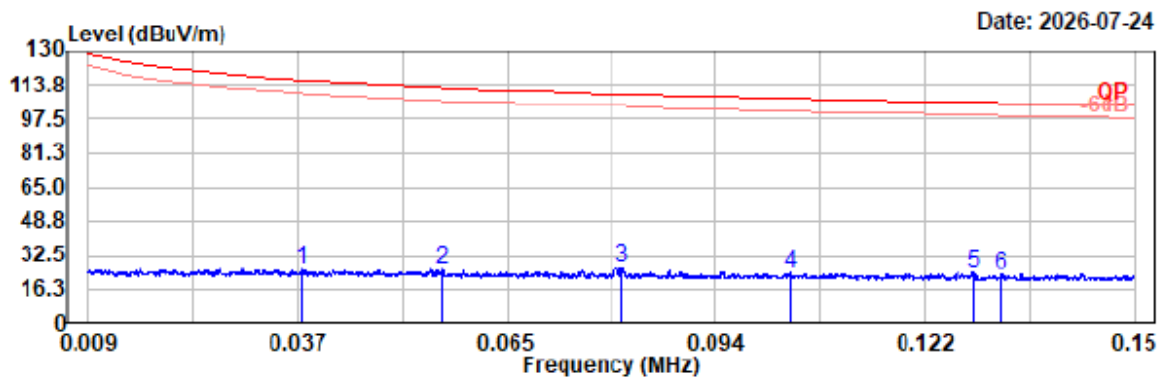
1) 9 kHz~30MHz

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

Note: The maximum output power mode: BLE 2Mbps low channel was tested.

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

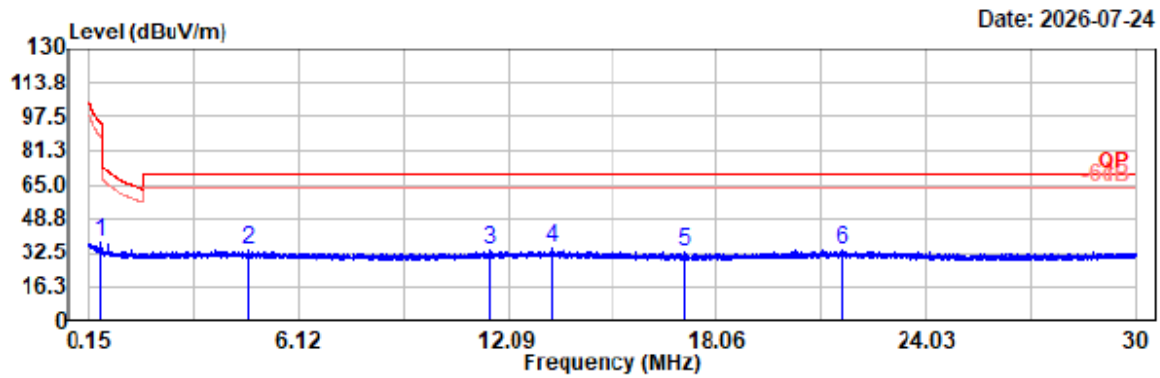


Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.038	6.38	20.01	26.39	116.08	89.69	Peak
0.057	5.88	19.91	25.79	112.54	86.75	Peak
0.081	7.27	19.72	26.99	109.46	82.47	Peak
0.104	4.05	19.73	23.78	107.31	83.53	Peak
0.128	4.87	19.76	24.63	105.44	80.81	Peak
0.132	3.53	19.76	23.29	105.20	81.91	Peak

Project No.: 2607S35862E-RF
 Test Mode: BLE 2M 2402MHz
 EUT Model: FAIP916-DW
 Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
 Tested by: Wlif Wu
 Power Source: DC 3.6V



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

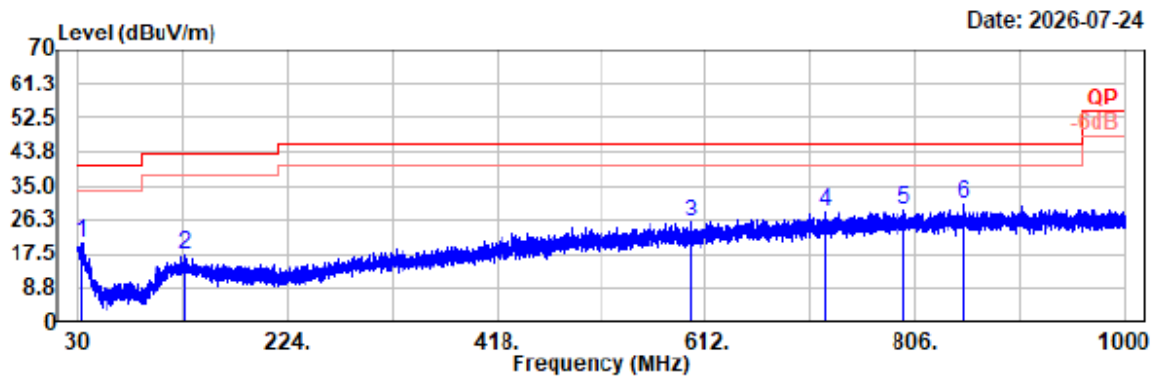
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.454	17.67	19.79	37.46	94.45	56.99	Peak
4.696	13.96	19.70	33.66	69.54	35.88	Peak
11.586	14.34	19.75	34.09	69.54	35.45	Peak
13.326	14.86	19.81	34.67	69.54	34.87	Peak
17.123	13.38	19.95	33.33	69.54	36.21	Peak
21.642	13.71	20.17	33.88	69.54	35.66	Peak

2) 30MHz-1GHz

Note: The maximum output power mode: BLE 2Mbps low channel was tested.

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

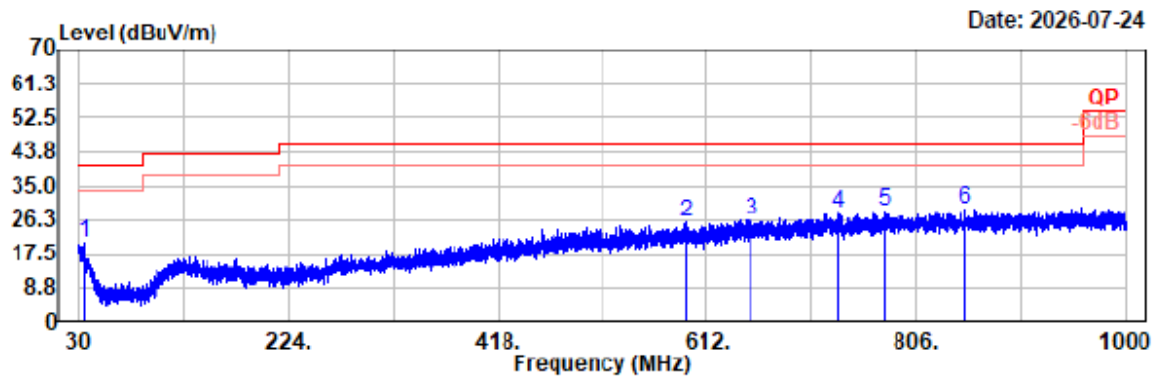


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
32.72	26.90	-6.72	20.18	40.00	19.82	Horizontal	Peak
128.55	27.19	-9.66	17.53	43.50	25.97	Horizontal	Peak
597.06	27.59	-2.11	25.48	46.00	20.52	Horizontal	Peak
722.48	27.87	0.43	28.30	46.00	17.70	Horizontal	Peak
794.94	27.34	1.76	29.10	46.00	16.90	Horizontal	Peak
850.91	28.23	2.29	30.52	46.00	15.48	Horizontal	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



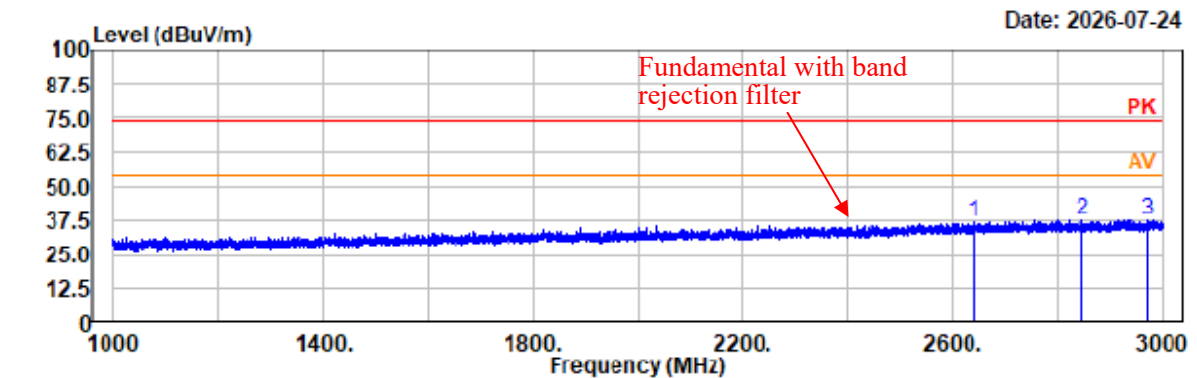
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
34.17	27.91	-7.40	20.51	40.00	19.49	Vertical	Peak
591.53	28.04	-2.38	25.66	46.00	20.34	Vertical	Peak
653.52	26.69	-0.47	26.22	46.00	19.78	Vertical	Peak
732.57	27.43	0.64	28.07	46.00	17.93	Vertical	Peak
776.12	27.04	1.35	28.39	46.00	17.61	Vertical	Peak
851.69	26.80	2.25	29.05	46.00	16.95	Vertical	Peak

3) 1GHz~3GHz

Project No.: 2607S35862E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

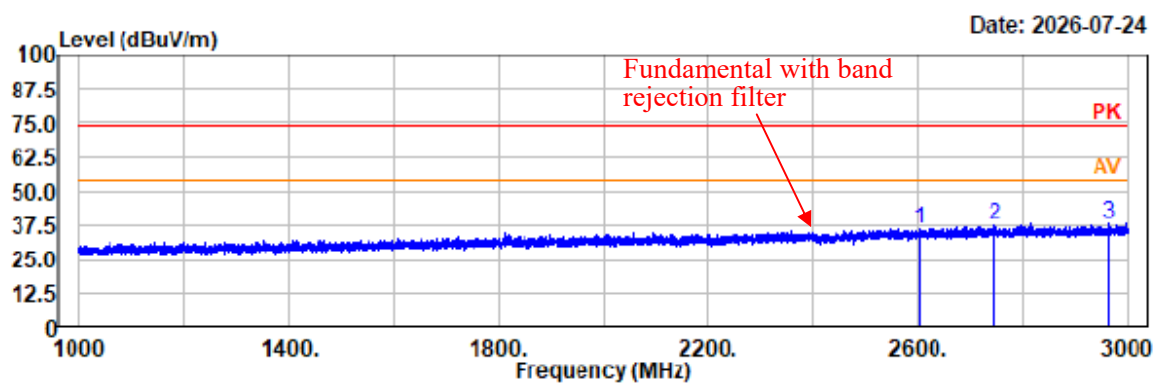


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2639.60	46.65	-10.26	36.39	74.00	37.61	horizontal	Peak
2847.80	46.89	-9.66	37.23	74.00	36.77	horizontal	Peak
2970.80	46.61	-9.16	37.45	74.00	36.55	horizontal	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

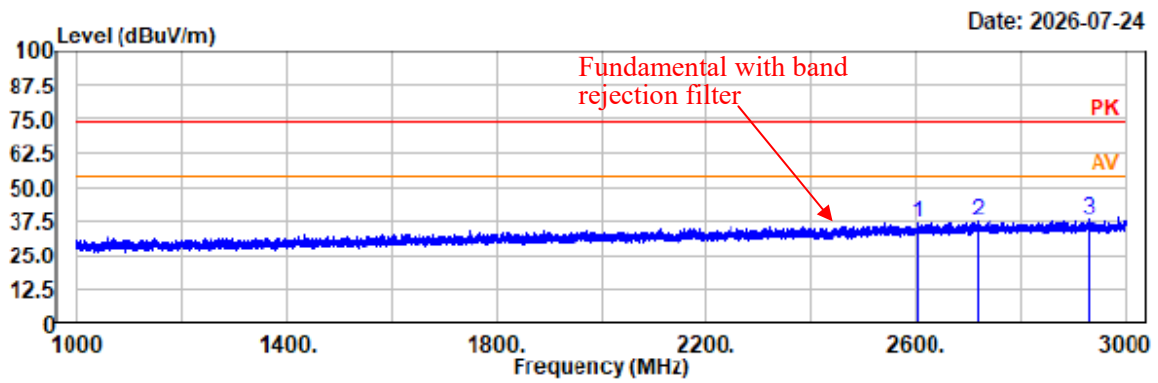


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2604.00	46.29	-10.40	35.89	74.00	38.11	vertical	Peak
2746.60	47.14	-9.96	37.18	74.00	36.82	vertical	Peak
2964.40	46.94	-9.18	37.76	74.00	36.24	vertical	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

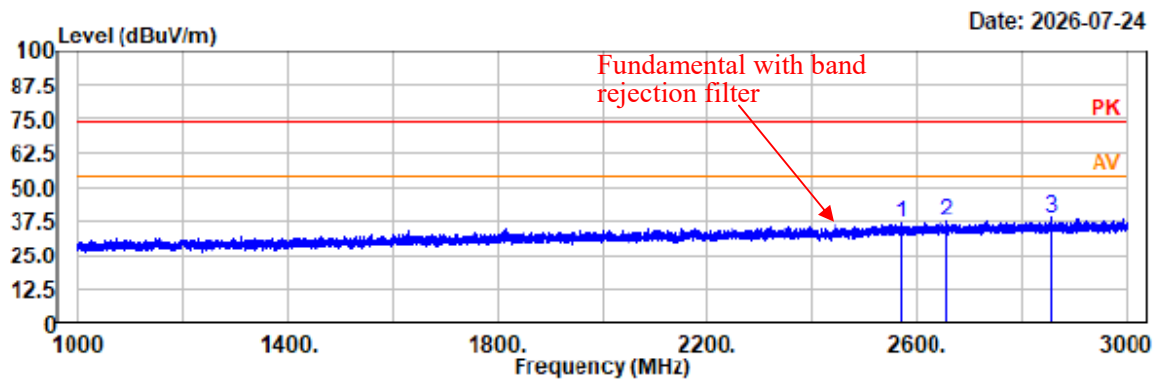


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2604.20	46.78	-10.40	36.38	74.00	37.62	horizontal	Peak
2717.00	47.24	-10.01	37.23	74.00	36.77	horizontal	Peak
2928.20	47.45	-9.43	38.02	74.00	35.98	horizontal	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

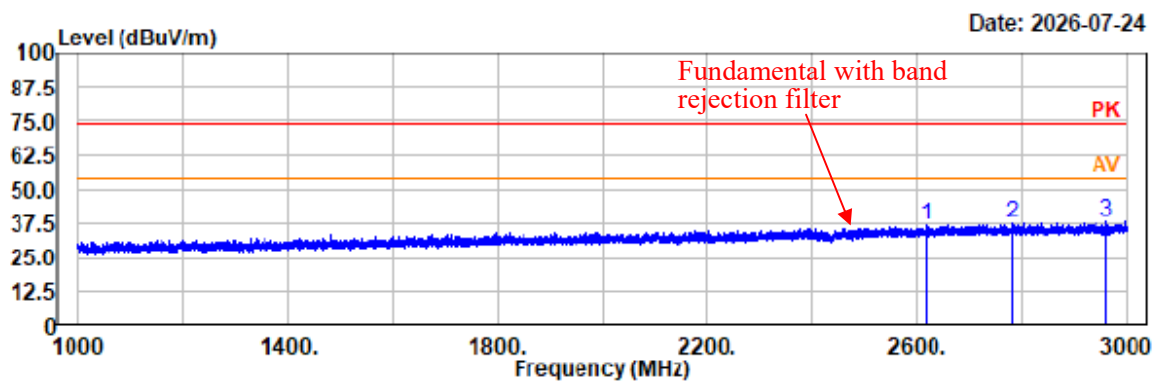


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2572.40	46.96	-10.53	36.43	74.00	37.57	vertical	Peak
2657.80	47.18	-10.20	36.98	74.00	37.02	vertical	Peak
2859.00	47.93	-9.65	38.28	74.00	35.72	vertical	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

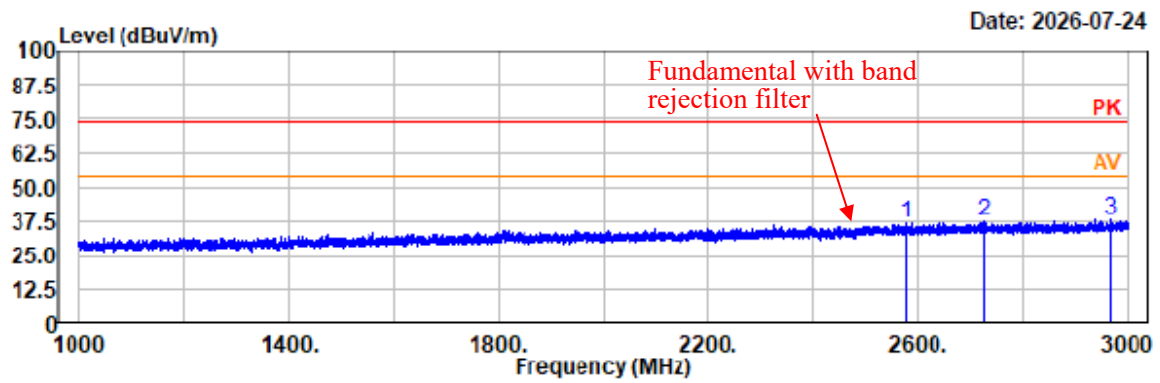


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2617.20	47.18	-10.35	36.83	74.00	37.17	horizontal	Peak
2783.20	47.24	-9.83	37.41	74.00	36.59	horizontal	Peak
2961.20	46.81	-9.22	37.59	74.00	36.41	horizontal	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

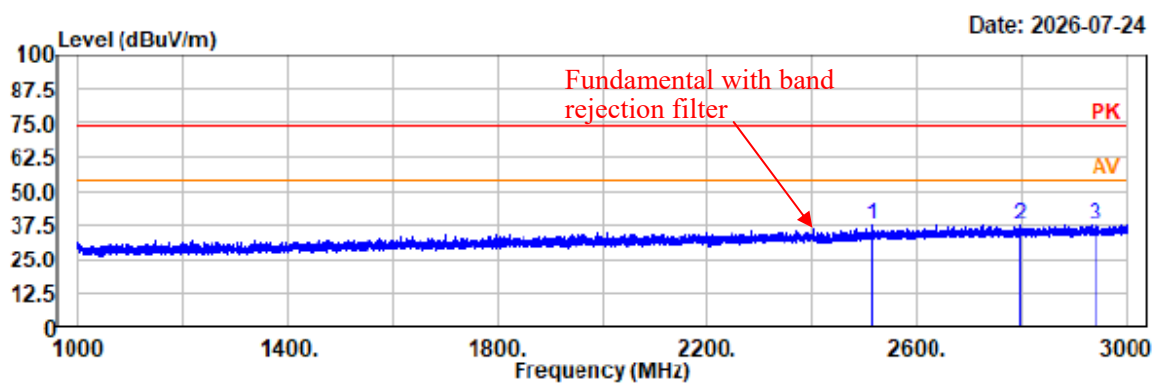


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2579.40	46.81	-10.50	36.31	74.00	37.69	vertical	Peak
2725.60	47.15	-9.99	37.16	74.00	36.84	vertical	Peak
2970.00	47.43	-9.16	38.27	74.00	35.73	vertical	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

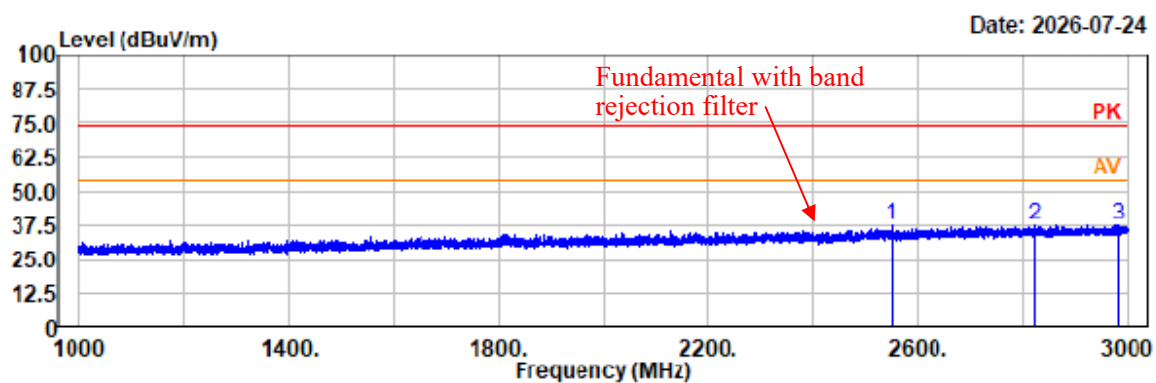


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2515.20	48.05	-10.71	37.34	74.00	36.66	horizontal	Peak
2795.60	47.14	-9.79	37.35	74.00	36.65	horizontal	Peak
2939.60	46.53	-9.34	37.19	74.00	36.81	horizontal	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

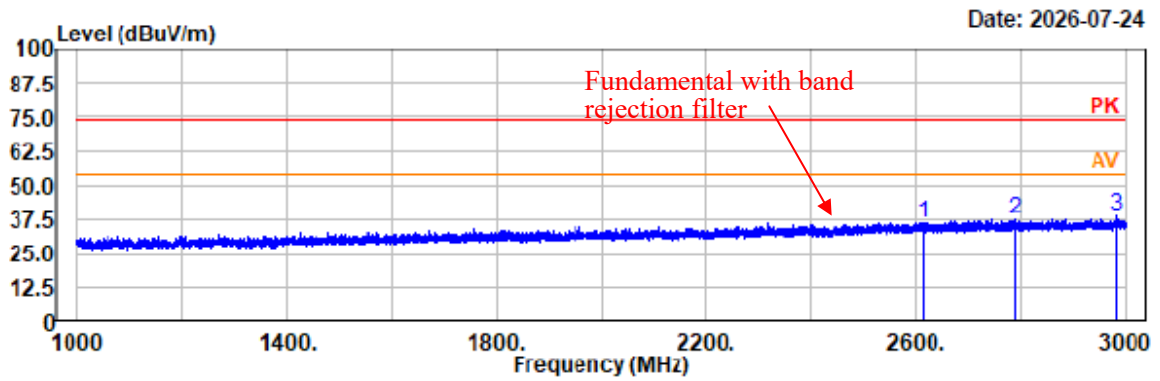


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2551.40	47.72	-10.61	37.11	74.00	36.89	vertical	Peak
2821.20	47.06	-9.73	37.33	74.00	36.67	vertical	Peak
2983.60	46.42	-9.09	37.33	74.00	36.67	vertical	Peak

Project No.: 2607S35862E-RF
 Test Mode: BLE 2M 2440MHz
 EUT Model: FAIP916-DW
 Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
 Tested by: Wlif Wu
 Power Source: DC 3.6V

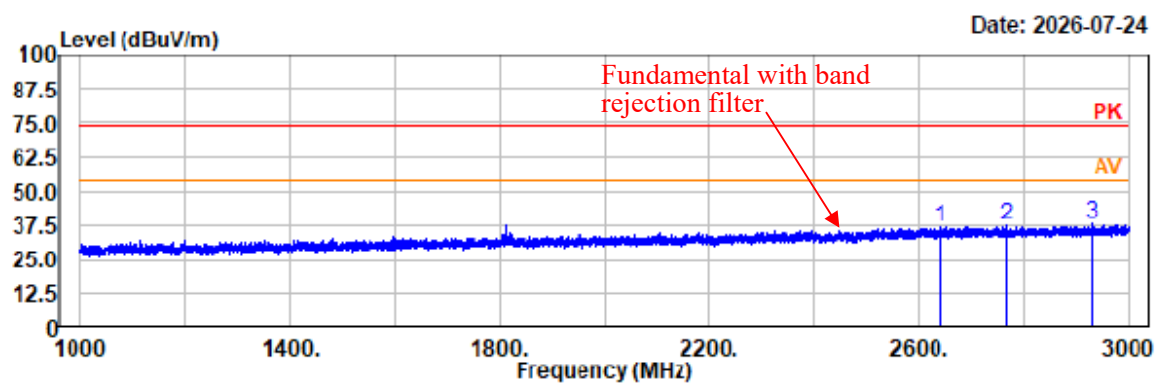


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2615.60	46.49	-10.35	36.14	74.00	37.86	horizontal	Peak
2790.60	46.86	-9.81	37.05	74.00	36.95	horizontal	Peak
2981.80	47.38	-9.09	38.29	74.00	35.71	horizontal	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2440MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

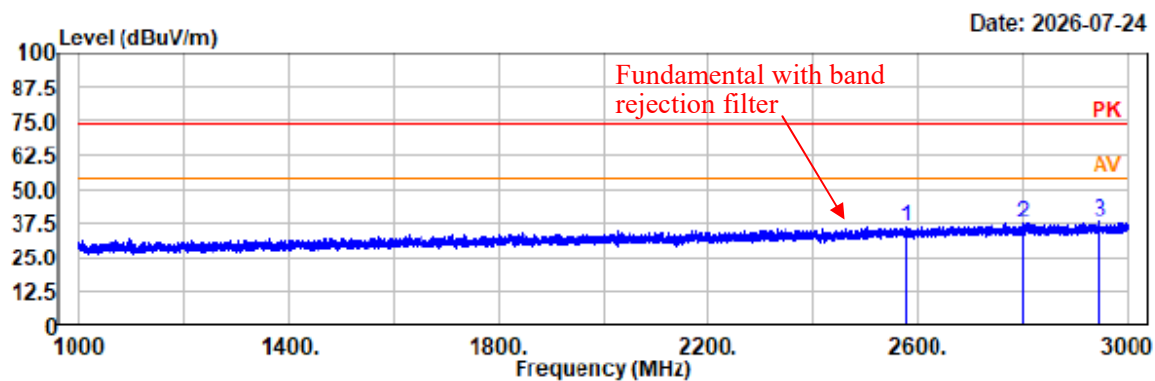


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2638.80	46.72	-10.26	36.46	74.00	37.54	vertical	Peak
2767.00	47.19	-9.88	37.31	74.00	36.69	vertical	Peak
2928.20	47.54	-9.43	38.11	74.00	35.89	vertical	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

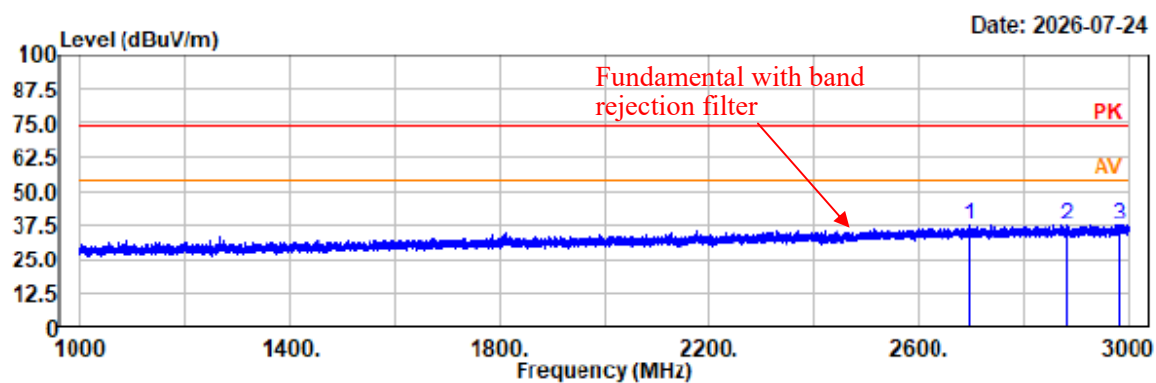


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2578.40	46.67	-10.51	36.16	74.00	37.84	horizontal	Peak
2799.20	47.16	-9.77	37.39	74.00	36.61	horizontal	Peak
2948.40	46.90	-9.28	37.62	74.00	36.38	horizontal	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



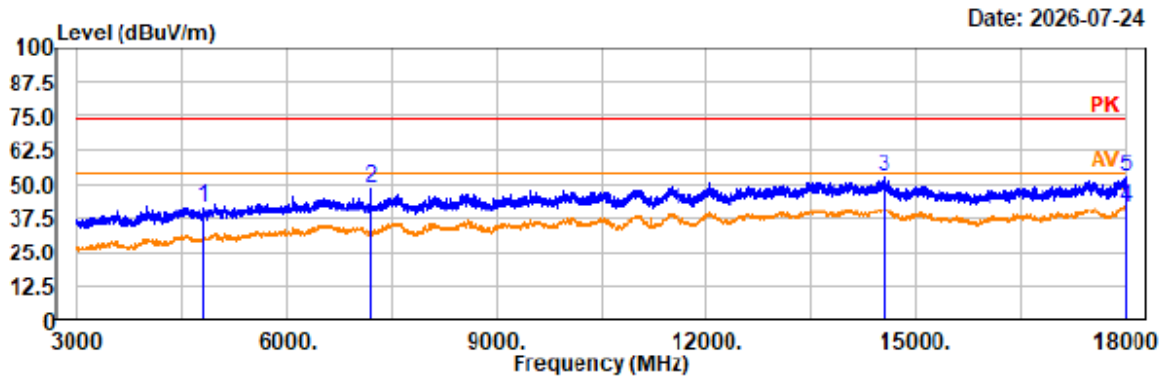
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2697.60	47.13	-10.04	37.09	74.00	36.91	vertical	Peak
2883.40	46.84	-9.64	37.20	74.00	36.80	vertical	Peak
2983.20	46.61	-9.09	37.52	74.00	36.48	vertical	Peak

4) 3 GHz ~18 GHz

Project No.: 2607S35862E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



Trace: 1

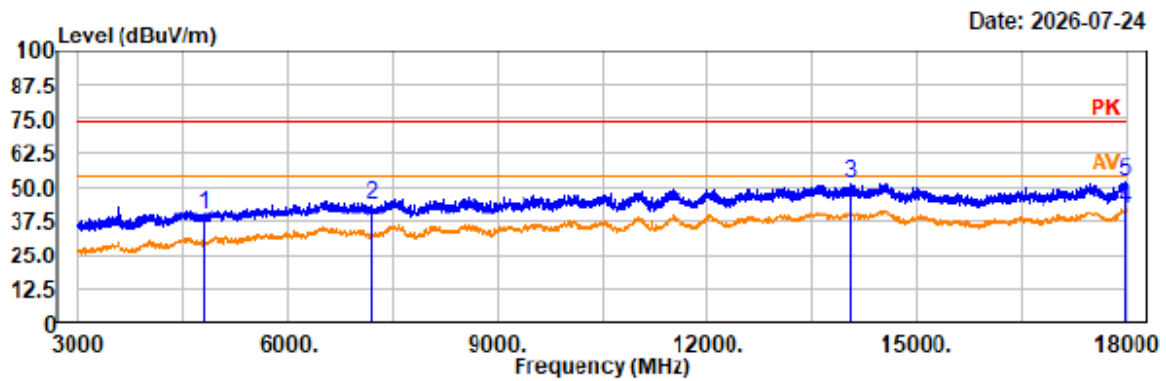
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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	46.31	-5.26	41.05	74.00	32.95	horizontal	Peak
7206.00	50.66	-2.53	48.13	74.00	25.87	horizontal	Peak
14547.00	47.15	5.10	52.25	74.00	21.75	horizontal	Peak
17997.00	34.36	6.84	41.20	54.00	12.80	horizontal	Average
17997.00	45.25	6.84	52.09	74.00	21.91	horizontal	Peak

Project No.: 2607S35862E-RF
 Test Mode: BLE 1M 2402MHz
 EUT Model: FAIP916-DW
 Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
 Tested by: Wlif Wu
 Power Source: DC 3.6V



Trace: 1

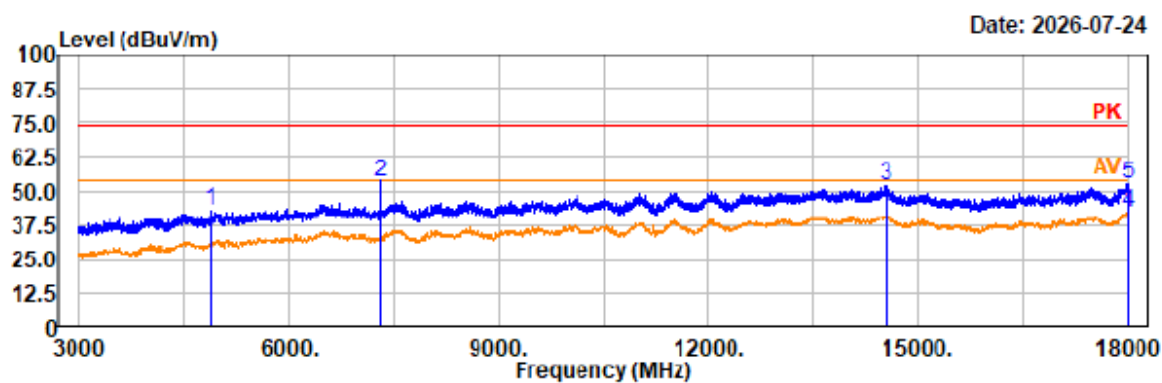
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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	45.15	-5.27	39.88	74.00	34.12	vertical	Peak
7206.00	46.18	-2.53	43.65	74.00	30.35	vertical	Peak
14064.00	45.99	5.23	51.22	74.00	22.78	vertical	Peak
17986.50	35.02	6.83	41.85	54.00	12.15	vertical	Average
17986.50	44.71	6.83	51.54	74.00	22.46	vertical	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



Trace: 1

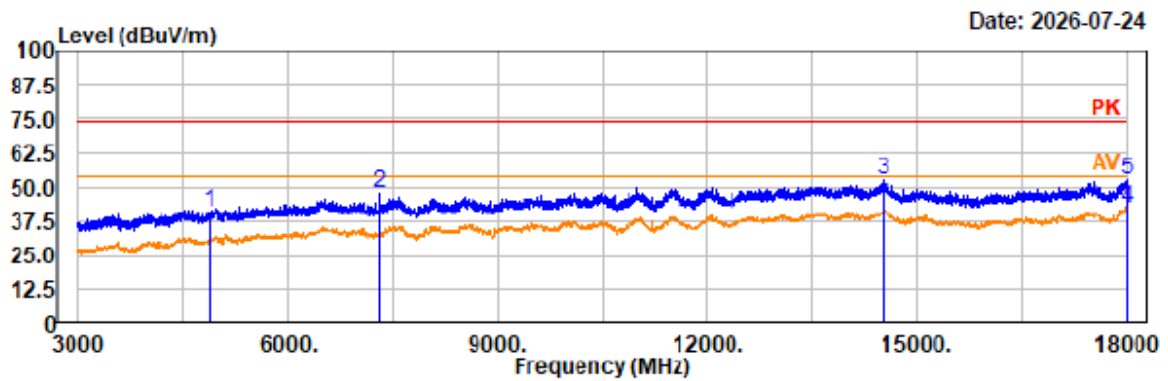
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4880.00	48.21	-5.25	42.96	74.00	31.04	horizontal	Peak
7320.00	55.04	-2.28	52.76	74.00	21.24	horizontal	Peak
14542.50	46.34	5.11	51.45	74.00	22.55	horizontal	Peak
17995.50	35.03	6.84	41.87	54.00	12.13	horizontal	Average
17995.50	45.34	6.84	52.18	74.00	21.82	horizontal	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



Trace: 1

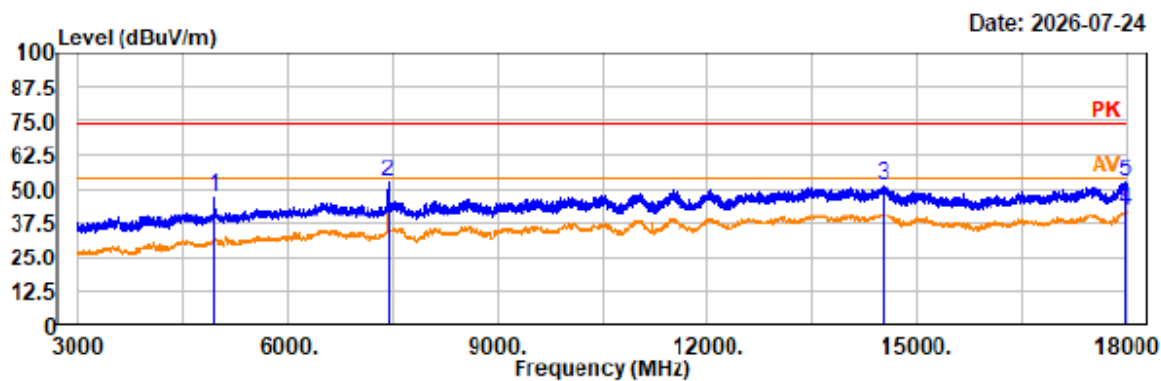
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4879.50	46.16	-5.25	40.91	74.00	33.09	vertical	Peak
7320.00	49.99	-2.28	47.71	74.00	26.29	vertical	Peak
14511.00	46.96	5.14	52.10	74.00	21.90	vertical	Peak
17995.50	35.52	6.84	42.36	54.00	11.64	vertical	Average
17995.50	45.54	6.84	52.38	74.00	21.62	vertical	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



Trace: 1

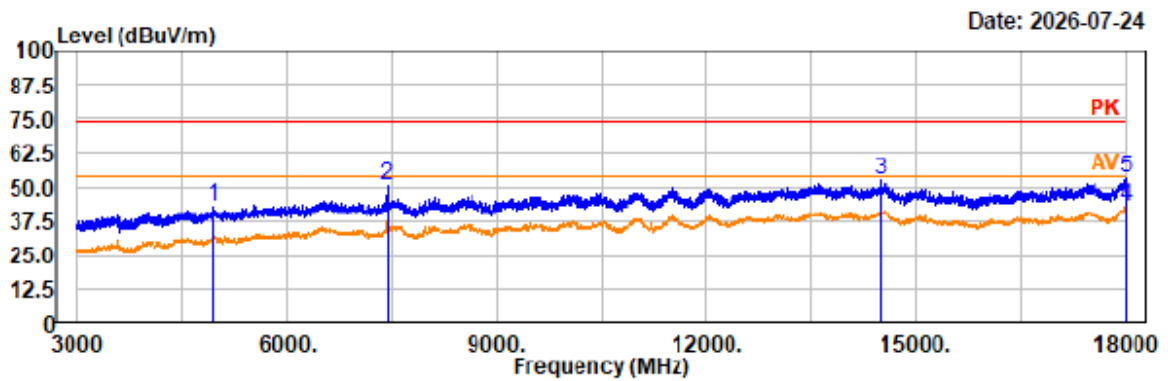
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.50	51.86	-5.09	46.77	74.00	27.23	horizontal	Peak
7440.00	54.31	-2.12	52.19	74.00	21.81	horizontal	Peak
14512.50	45.85	5.15	51.00	74.00	23.00	horizontal	Peak
17982.00	35.22	6.83	42.05	54.00	11.95	horizontal	Average
17982.00	45.54	6.83	52.37	74.00	21.63	horizontal	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



Trace: 1

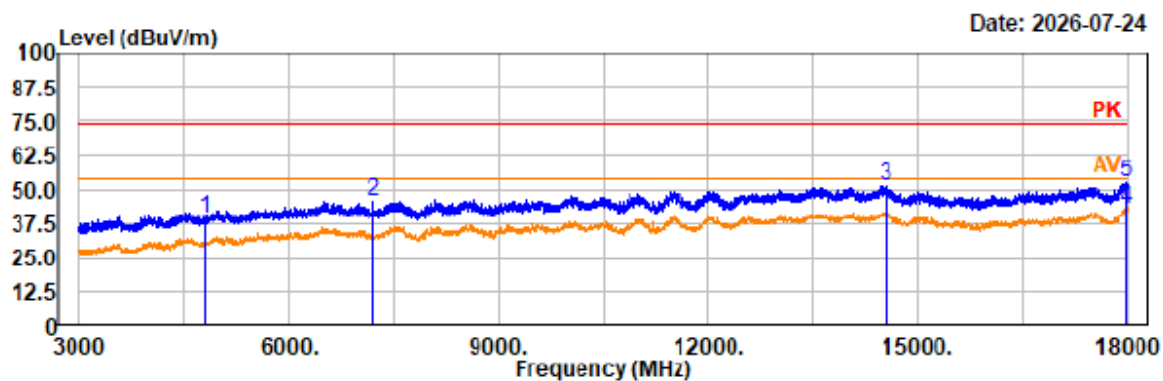
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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	47.91	-5.09	42.82	74.00	31.18	vertical	Peak
7440.00	52.71	-2.12	50.59	74.00	23.41	vertical	Peak
14478.00	47.23	5.19	52.42	74.00	21.58	vertical	Peak
17992.50	35.73	6.83	42.56	54.00	11.44	vertical	Average
17992.50	46.45	6.83	53.28	74.00	20.72	vertical	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



Trace: 1

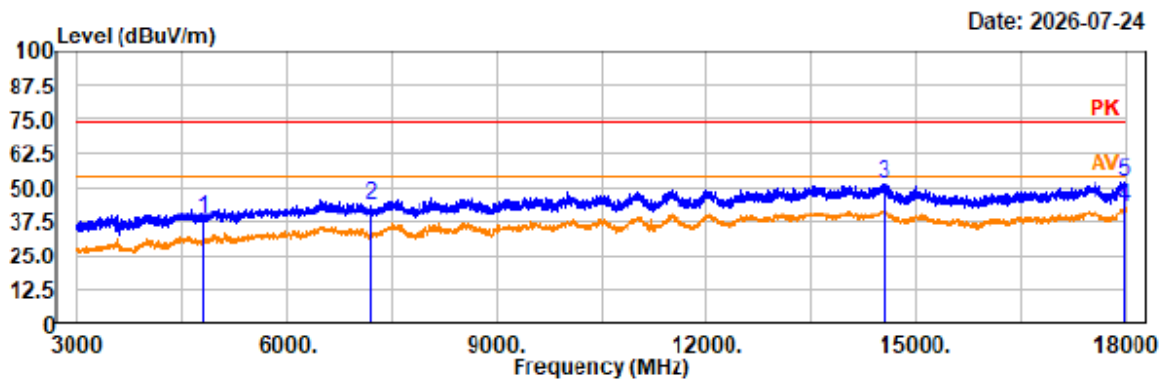
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:10kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.00	44.28	-5.26	39.02	74.00	34.98	horizontal	Peak
7206.00	48.28	-2.53	45.75	74.00	28.25	horizontal	Peak
14532.00	45.93	5.12	51.05	74.00	22.95	horizontal	Peak
17986.50	35.73	6.83	42.56	54.00	11.44	horizontal	Average
17986.50	45.77	6.83	52.60	74.00	21.40	horizontal	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



Trace: 1

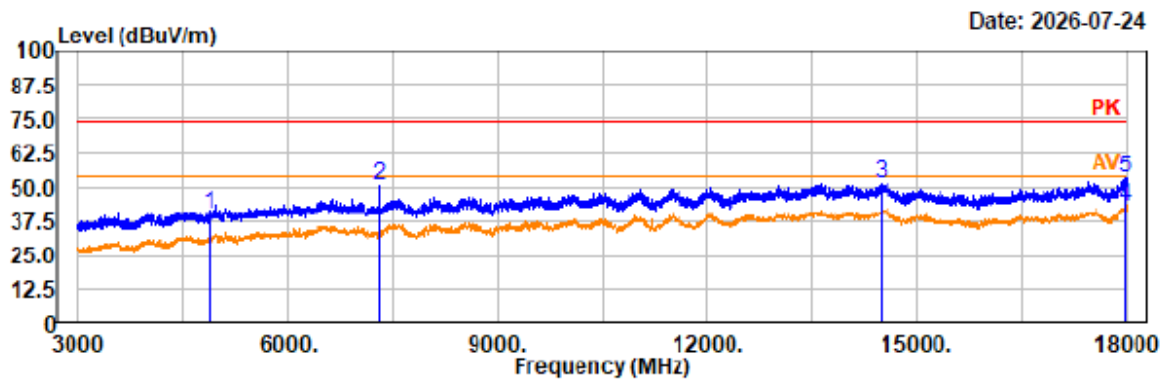
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:10kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.50	43.98	-5.27	38.71	74.00	35.29	vertical	Peak
7206.00	46.27	-2.53	43.74	74.00	30.26	vertical	Peak
14547.00	46.12	5.10	51.22	74.00	22.78	vertical	Peak
17988.00	35.72	6.83	42.55	54.00	11.45	vertical	Average
17988.00	44.91	6.83	51.74	74.00	22.26	vertical	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2440MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



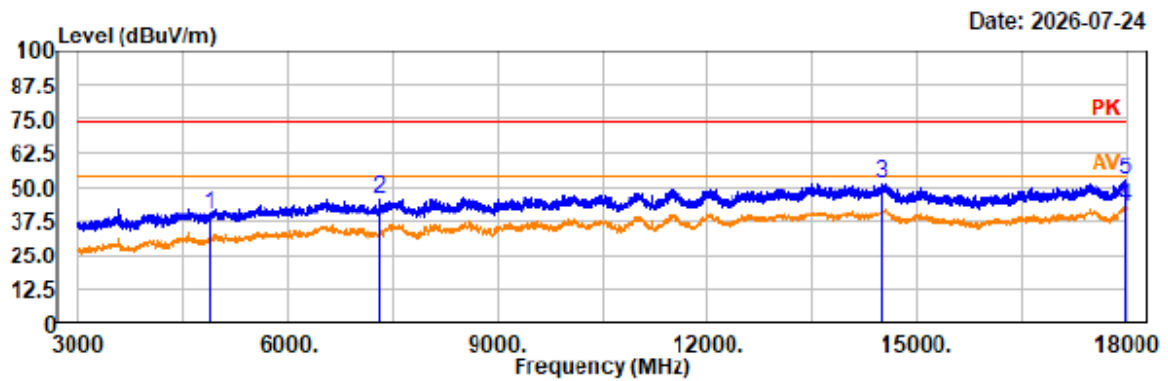
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:10kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4880.00	45.28	-5.25	40.03	74.00	33.97	horizontal	Peak
7320.00	52.92	-2.28	50.64	74.00	23.36	horizontal	Peak
14494.50	45.92	5.17	51.09	74.00	22.91	horizontal	Peak
17982.00	35.73	6.83	42.56	54.00	11.44	horizontal	Average
17982.00	46.55	6.83	53.38	74.00	20.62	horizontal	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2440MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



Trace: 1

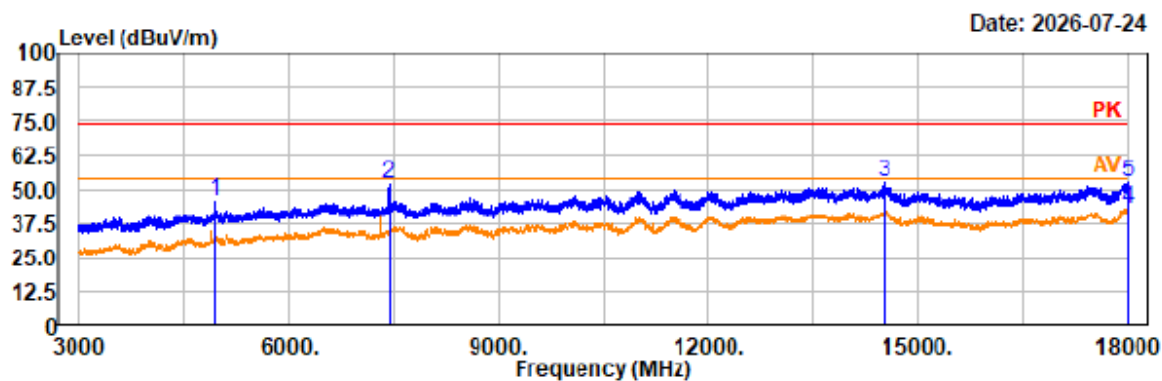
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:10kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4879.50	45.08	-5.25	39.83	74.00	34.17	vertical	Peak
7320.00	47.47	-2.28	45.19	74.00	28.81	vertical	Peak
14500.50	45.98	5.16	51.14	74.00	22.86	vertical	Peak
17989.50	35.96	6.83	42.79	54.00	11.21	vertical	Average
17989.50	45.65	6.83	52.48	74.00	21.52	vertical	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



Trace: 1

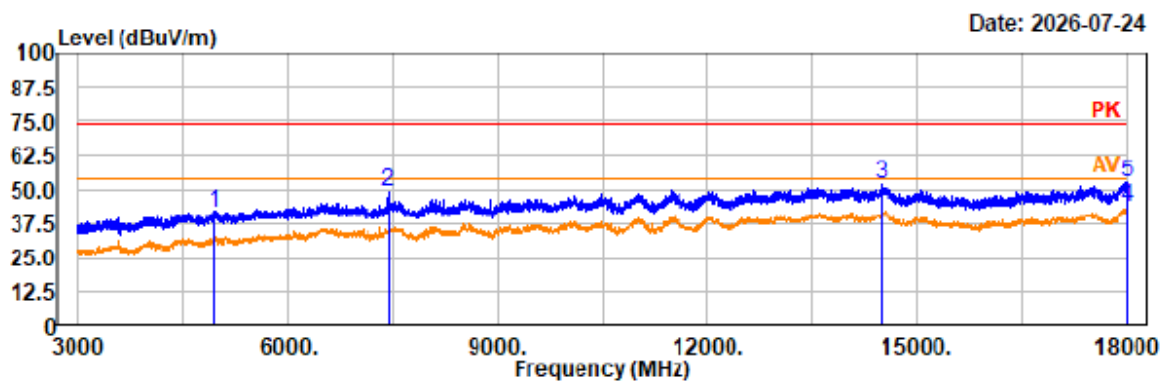
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:10kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4959.00	50.59	-5.09	45.50	74.00	28.50	horizontal	Peak
7440.00	53.78	-2.12	51.66	74.00	22.34	horizontal	Peak
14508.00	47.10	5.14	52.24	74.00	21.76	horizontal	Peak
17994.00	35.68	6.83	42.51	54.00	11.49	horizontal	Average
17994.00	45.88	6.83	52.71	74.00	21.29	horizontal	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



Trace: 1

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

AV RBW:1MHz VBW:10kHz SWT:auto

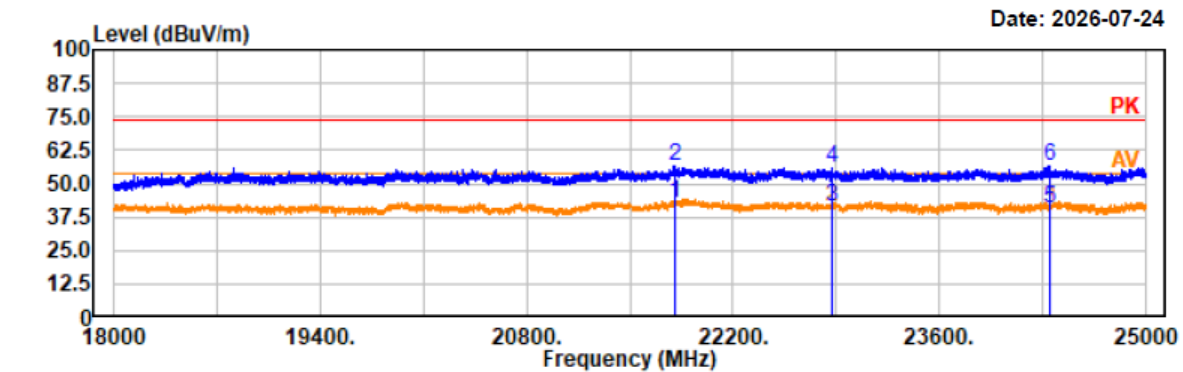
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	46.22	-5.09	41.13	74.00	32.87	vertical	Peak
7440.00	51.36	-2.12	49.24	74.00	24.76	vertical	Peak
14500.50	46.36	5.16	51.52	74.00	22.48	vertical	Peak
17994.00	36.44	6.83	43.27	54.00	10.73	vertical	Average
17994.00	45.86	6.83	52.69	74.00	21.31	vertical	Peak

5) 18 GHz ~25 GHz

Note: The maximum output power mode: BLE 2Mbps low channel was tested.

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: FAIP916-DW
Test distance: 1.5m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



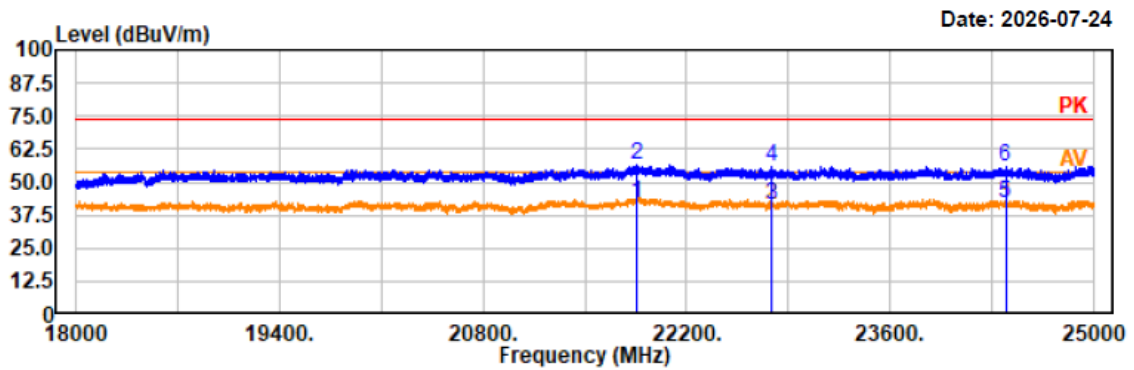
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:10kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
21812.90	37.41	5.03	42.44	54.00	11.56	horizontal	Average
21812.90	51.30	5.03	56.33	74.00	17.67	horizontal	Peak
22878.30	36.42	5.01	41.43	54.00	12.57	horizontal	Average
22878.30	50.91	5.01	55.92	74.00	18.08	horizontal	Peak
24356.70	34.76	6.03	40.79	54.00	13.21	horizontal	Average
24356.70	50.64	6.03	56.67	74.00	17.33	horizontal	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: FAIP916-DW
Test distance: 1.5m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



Trace: 1

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

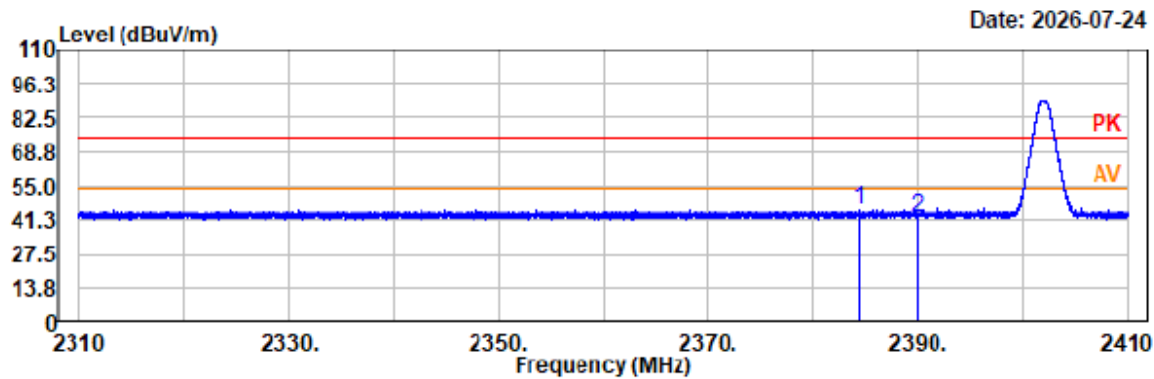
AV RBW:1MHz VBW:10kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
21859.80	36.89	5.10	41.99	54.00	12.01	vertical	Average
21859.80	51.74	5.10	56.84	74.00	17.16	vertical	Peak
22783.10	36.17	5.01	41.18	54.00	12.82	vertical	Average
22783.10	50.86	5.01	55.87	74.00	18.13	vertical	Peak
24394.50	36.32	6.09	42.41	54.00	11.59	vertical	Average
24394.50	49.64	6.09	55.73	74.00	18.27	vertical	Peak

Restricted Bands Emissions:

Project No.: 2607S35862E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0℃/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

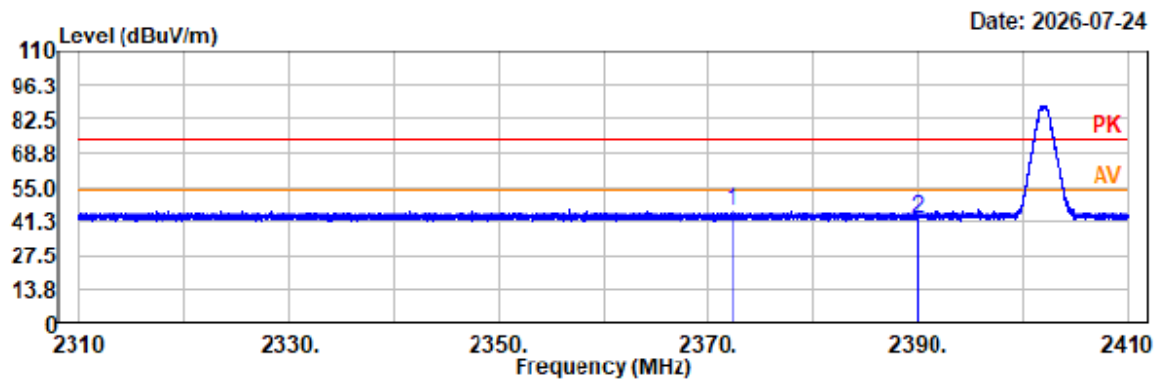


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2384.43	46.92	-1.28	45.64	74.00	28.36	horizontal	Peak
2390.00	43.91	-1.26	42.65	74.00	31.35	horizontal	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

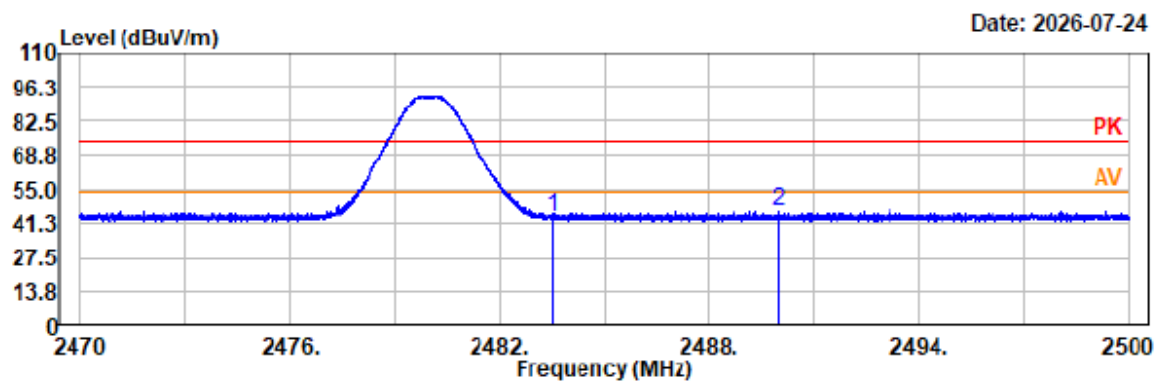


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2372.21	47.05	-1.34	45.71	74.00	28.29	vertical	Peak
2390.00	43.59	-1.26	42.33	74.00	31.67	vertical	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

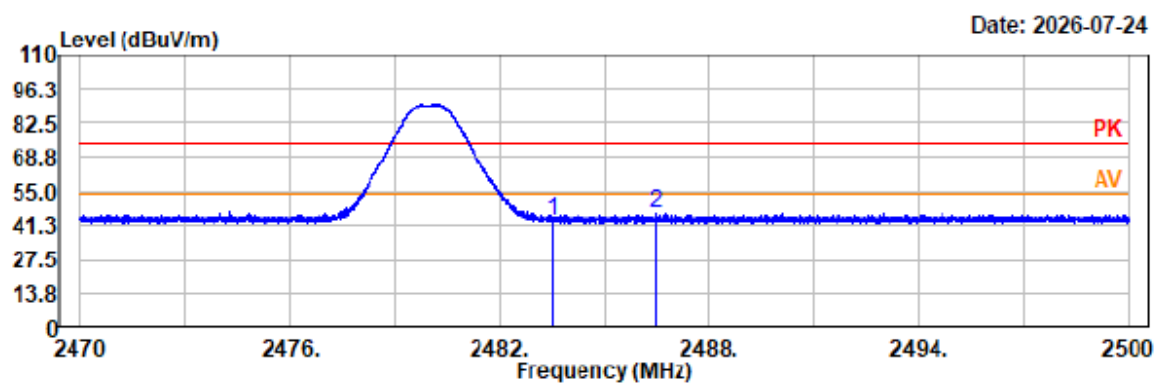


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	44.47	-0.82	43.65	74.00	30.35	horizontal	Peak
2489.96	47.21	-0.79	46.42	74.00	27.58	horizontal	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

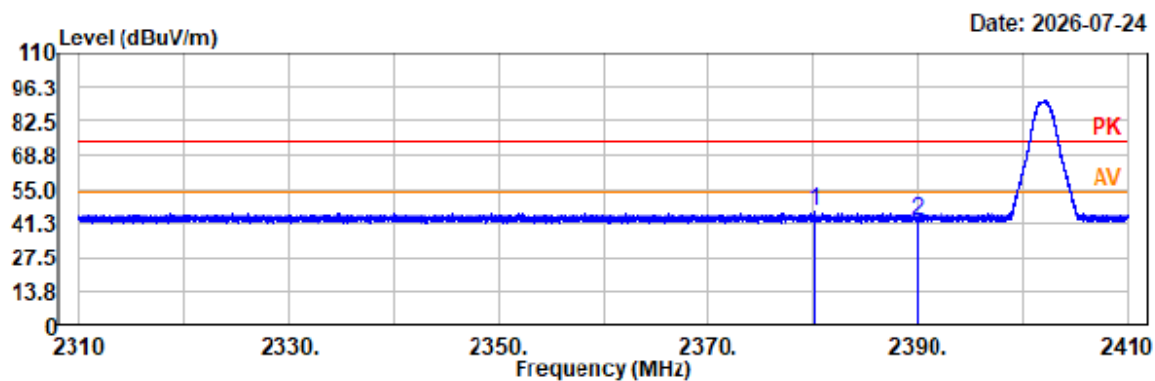


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	44.06	-0.82	43.24	74.00	30.76	vertical	Peak
2486.49	46.81	-0.80	46.01	74.00	27.99	vertical	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

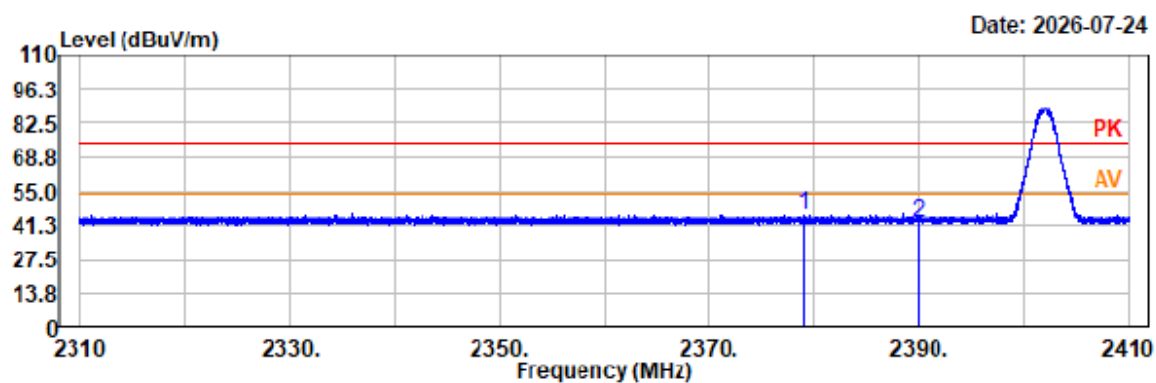


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2380.18	47.78	-1.31	46.47	74.00	27.53	horizontal	Peak
2390.00	43.59	-1.26	42.33	74.00	31.67	horizontal	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

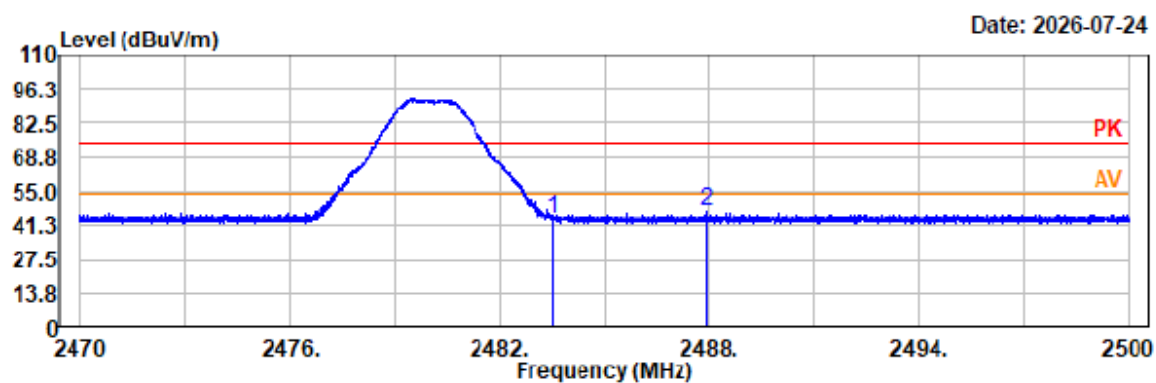


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2379.02	47.15	-1.31	45.84	74.00	28.16	vertical	Peak
2390.00	43.55	-1.26	42.29	74.00	31.71	vertical	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V

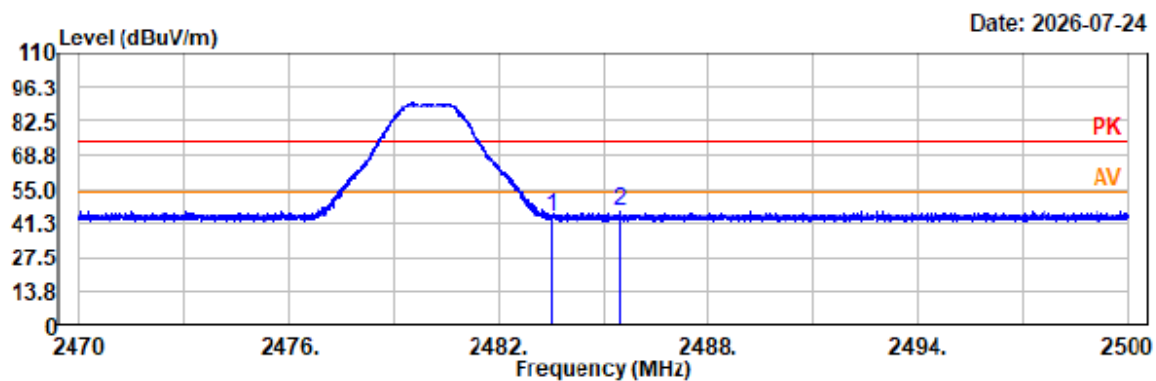


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	44.72	-0.82	43.90	74.00	30.10	horizontal	Peak
2487.93	47.70	-0.80	46.90	74.00	27.10	horizontal	Peak

Project No.: 2607S35862E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: FAIP916-DW
Test distance: 3m

Temp/Humi/ATM: 23.0°C/60%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.6V



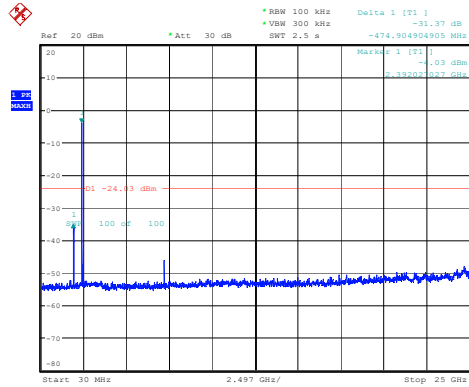
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	45.07	-0.82	44.25	74.00	29.75	vertical	Peak
2485.46	46.75	-0.81	45.94	74.00	28.06	vertical	Peak

Antenna-port conducted emission

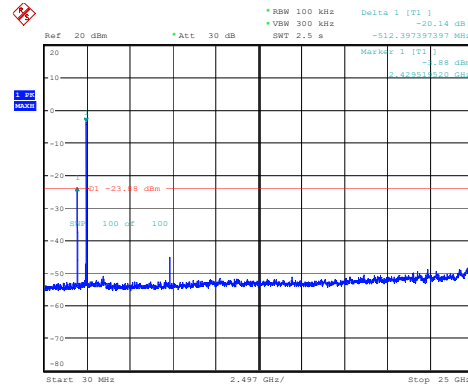
BLE 1M

BLE_1M_Low_Channel



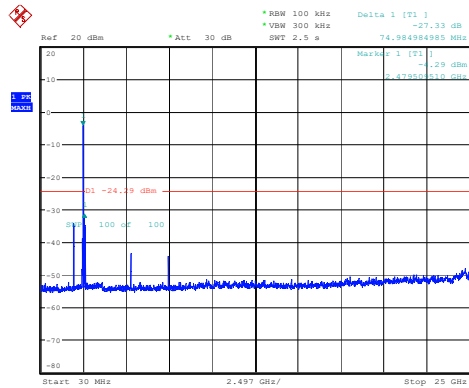
ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 17:15:05

BLE_1M_Middle_Channel



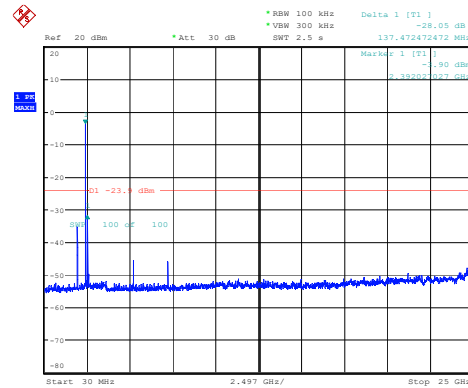
ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 17:28:54

BLE_1M_High_Channel



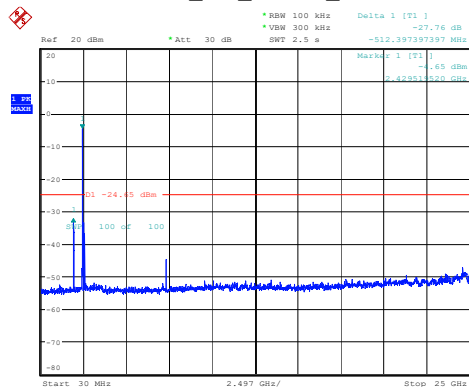
ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 17:47:48

BLE_2M_Low_Channel



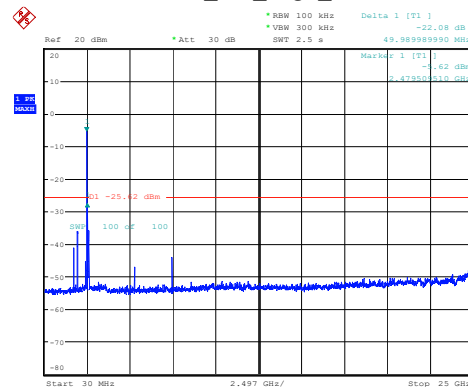
ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 17:23:01

BLE_2M_Middle_Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 17:38:00

BLE_2M_High_Channel



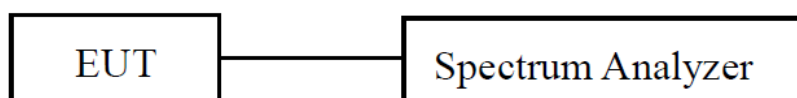
ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 17:55:44

FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

EUT Setup



Note: A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable was offset into the setting of test equipment:

Offset = Insert loss of RF cable

★ The Insert loss was declared by manufacturer.

Test Procedure

According to ANSI C63.10-2020 Section 11.8

- Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “–6 dB down amplitude”. If a marker is below this “–6 dB down amplitude” value, then it shall be as close as possible to this value.

Test Data

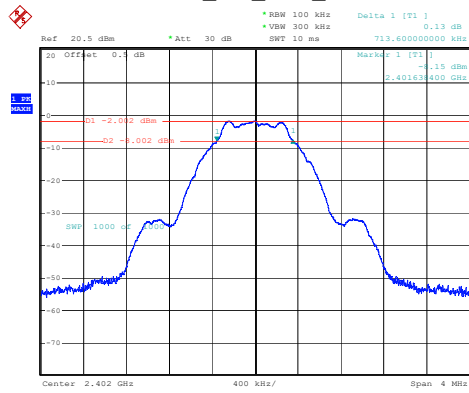
Test Mode:	Transmitting	Test Engineer:	Yuki
Test Date:	2026-07-15	Environment:	Temp.: 22.3°C Humi.: 45% Atm :100.1 kPa

Test Result: Compliant

Test Modes	Test Channel	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
BLE 1Mbps	Lowest	2402	0.714	≥ 0.5
	Middle	2440	0.714	≥ 0.5
	Highest	2480	0.717	≥ 0.5
BLE 2Mbps	Lowest	2402	1.171	≥ 0.5
	Middle	2440	1.171	≥ 0.5
	Highest	2480	1.171	≥ 0.5

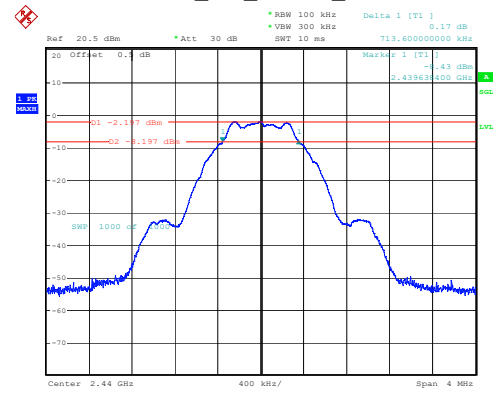
BLE 1M

BLE_1M_Low_Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 18:03:38

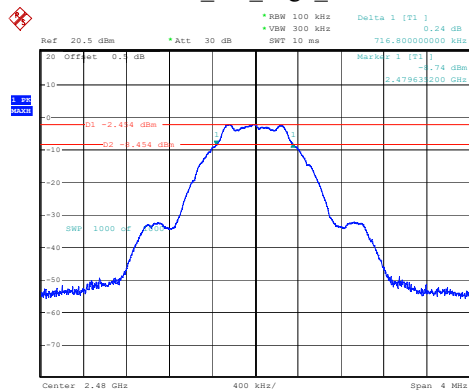
BLE_1M_Middle_Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 18:10:48

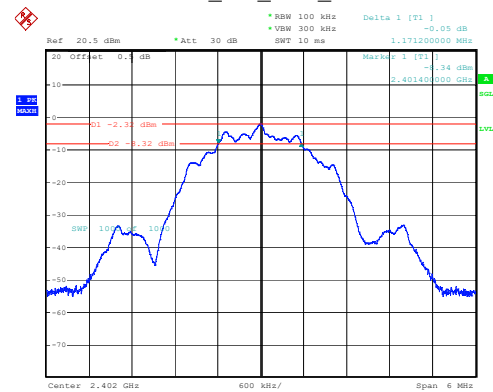
BLE 2M

BLE_1M_High_Channel



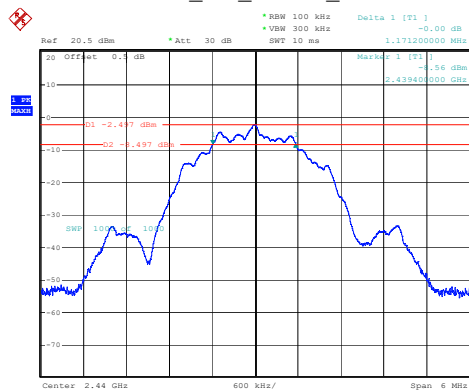
ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 18:20:22

BLE_2M_Low_Channel



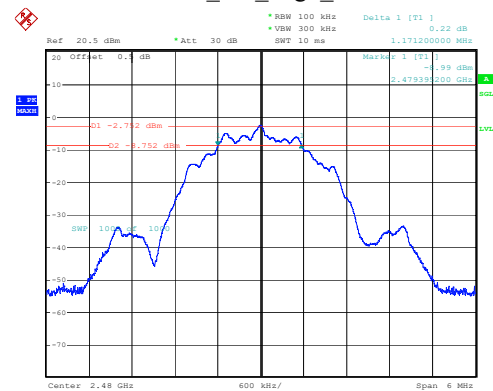
ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 18:27:21

BLE_2M_Middle_Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 18:32:31

BLE_2M_High_Channel

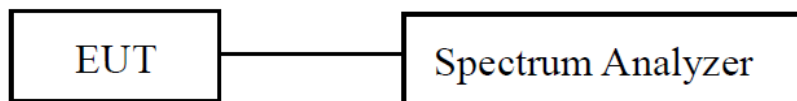


ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 18:36:38

FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

EUT Setup

Note: A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable was offset into the setting of test equipment:

Offset = Insert loss of RF cable

★ The Insert loss was declared by manufacturer.

Test Procedure

According to ANSI C63.10-2020 Section 11.9.1.1

the DTS bandwidth is available to perform the measurement:

- a) Set the RBW $\geq$ DTS bandwidth.
- b) Set VBW $\geq [3 \times \text{RBW}]$.
- c) Set span $\geq [3 \times \text{RBW}]$.
- d) Sweep time = No faster than coupled (auto) time.
- e) Detector = peak.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

Test Data

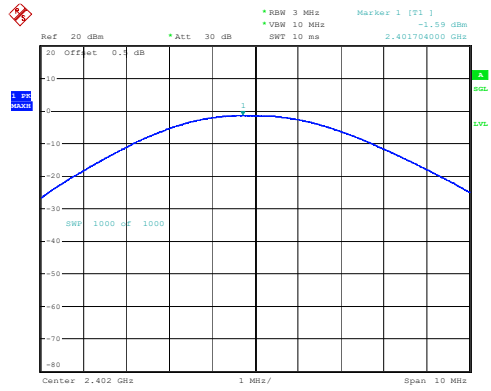
Test Mode:	Transmitting	Test Engineer:	Yuki
Test Date:	2026-07-15	Environment:	Temp.: 22.3°C Humi.: 45% Atm :100.1 kPa

Test Result: Compliant

Test Modes	Test Channel	Test Frequency (MHz)	Maximum Conducted Peak Output Power(dBm)	Limit (dBm)
BLE 1Mbps	Lowest	2402	-1.59	≤30
	Middle	2440	-1.95	≤30
	Highest	2480	-2.35	≤30
BLE 2Mbps	Lowest	2402	-1.5	≤30
	Middle	2440	-1.98	≤30
	Highest	2480	-2.23	≤30

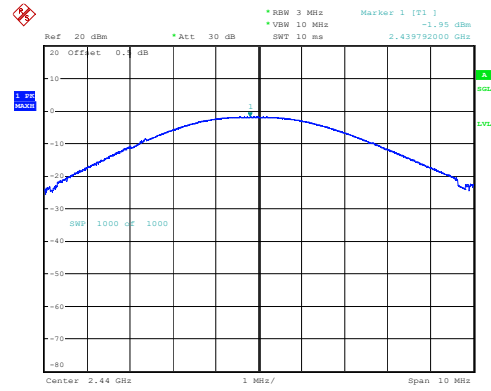
BLE 1M

BLE_1M_Low_Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 17:33:59

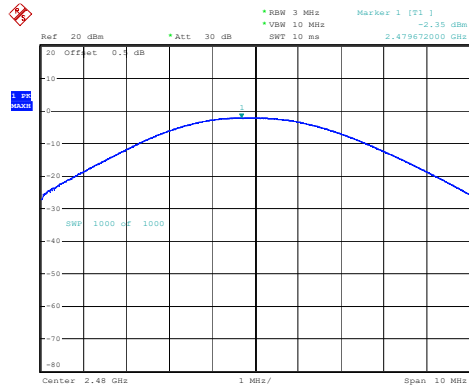
BLE_1M_Middle_Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 17:35:44

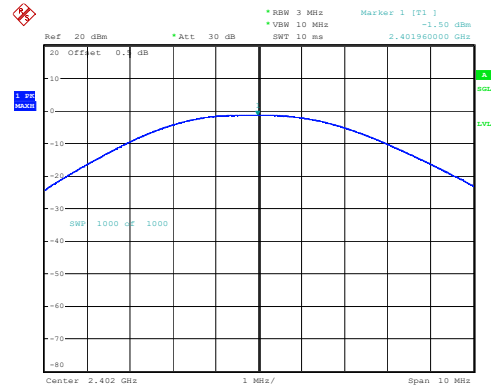
BLE 2M

BLE_1M_High_Channel



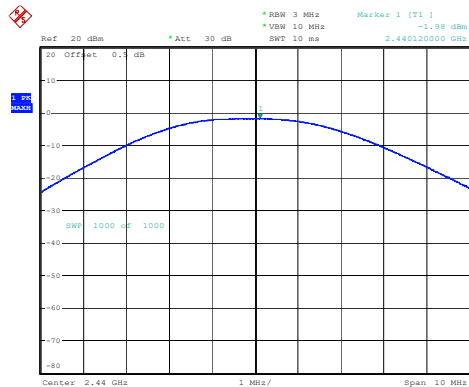
ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 17:37:24

BLE_2M_Low_Channel



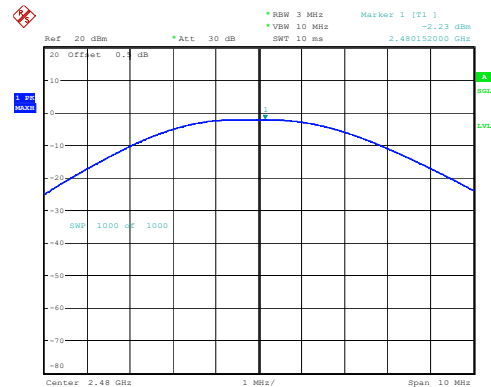
ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 17:38:53

BLE_2M_Middle_Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 17:40:29

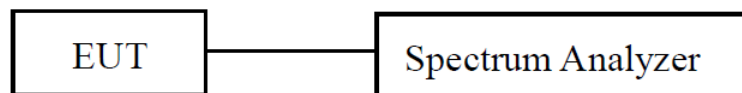
BLE_2M_High_Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 17:41:54

FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE**Applicable Standard**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

EUT Setup

Note: A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable was offset into the setting of test equipment:

Offset = Insert loss of RF cable

★ The Insert loss was declared by manufacturer.

Test Procedure

According to ANSI C63.10-2020 Section 11.11

a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

NOTE—the number of points can also be increased for large spans to retain frequency resolution

b) Set the RBW = 100 kHz.

c) Set the VBW $\geq [3 \times \text{RBW}]$.

d) Detector = peak.

e) Sweep time = No faster than coupled (auto) time.

f) Trace mode = max-hold.

g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

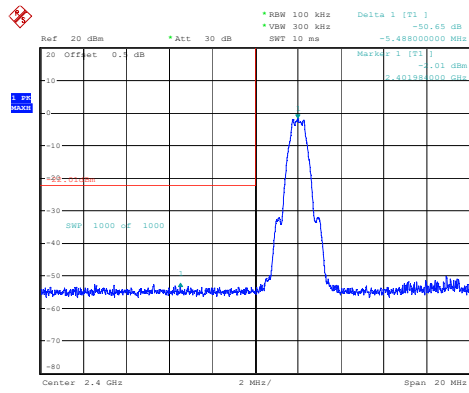
Test Data

Test Mode:	Transmitting	Test Engineer:	Yuki
Test Date:	2026-07-15	Environment:	Temp.: 22.3°C Humi.: 45% Atm :100.1 kPa

Test Result: Compliant

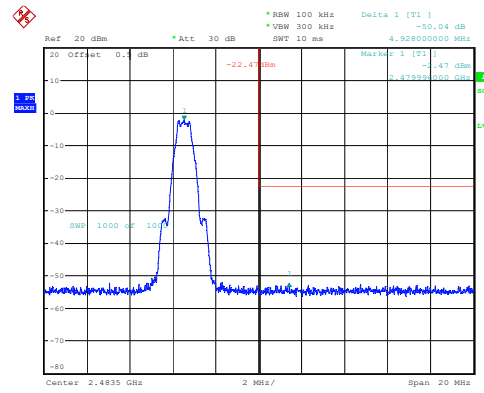
BLE 1M

BLE_1M_Low_Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 18:04:41

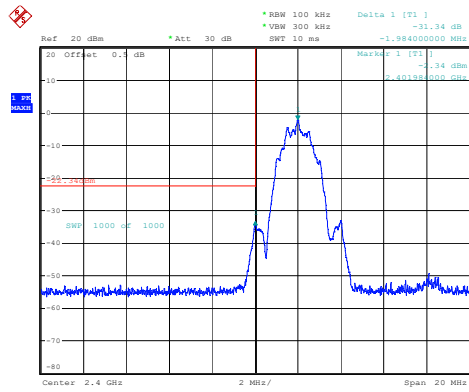
BLE_1M_High_Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 18:21:29

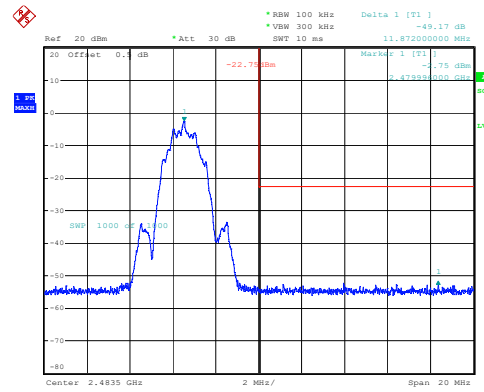
BLE 2M

BLE_2M_Low_Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 18:28:24

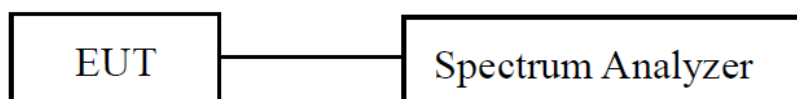
BLE_2M_High_Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 18:37:41

FCC §15.247(e) - POWER SPECTRAL DENSITY**Applicable Standard**

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

EUT Setup

Note: A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable was offset into the setting of test equipment:

Offset = Insert loss of RF cable

★ The Insert loss was declared by manufacturer.

Test Procedure

According to ANSI C63.10-2020 Section 11.10.2

- Set analyzer center frequency to DTS channel center frequency.
- Set the span >1.5 times the DTS bandwidth.
- Set the RBW to $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max-hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Test Data

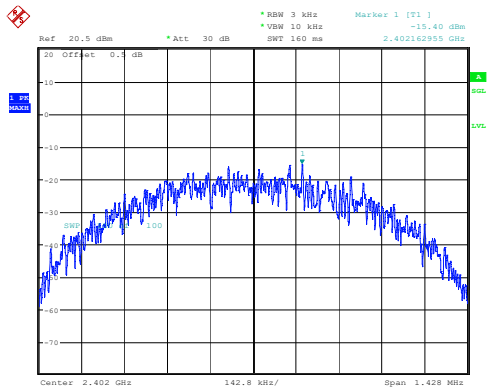
Test Mode:	Transmitting	Test Engineer:	Yuki
Test Date:	2026-07-15	Environment:	Temp.: 22.3°C Humi.: 45% Atm :100.1 kPa

Test Result: Compliant

Test Modes	Test Channel	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
BLE 1Mbps	Lowest	2402	-15.4	≤ 8.00
	Middle	2440	-15.57	≤ 8.00
	Highest	2480	-15.82	≤ 8.00
BLE 2Mbps	Lowest	2402	-19.63	≤ 8.00
	Middle	2440	-19.84	≤ 8.00
	Highest	2480	-20.08	≤ 8.00

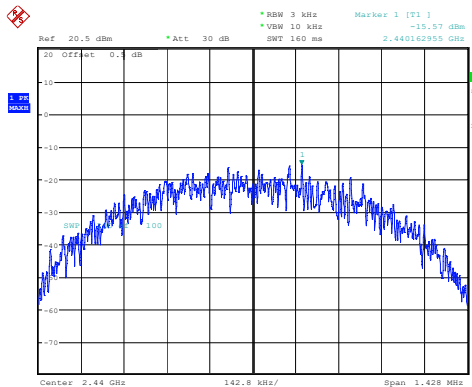
BLE 1M

BLE_1M_Low_Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 18:05:04

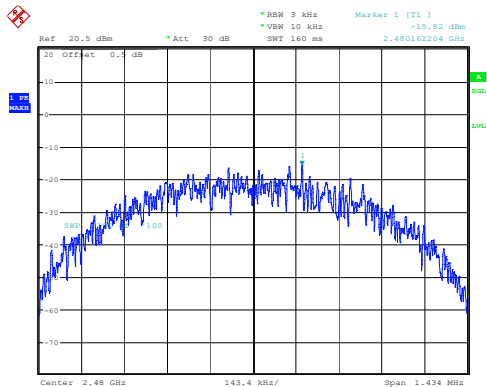
BLE_1M_Middle_Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 18:11:12

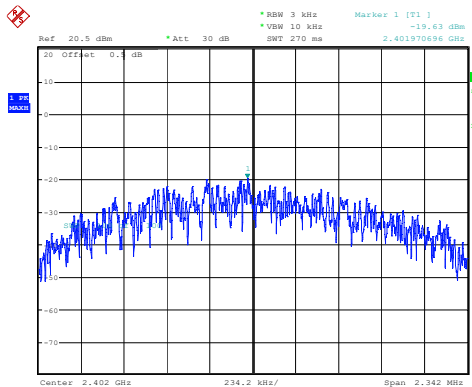
BLE 2M

BLE_1M_High_Channel



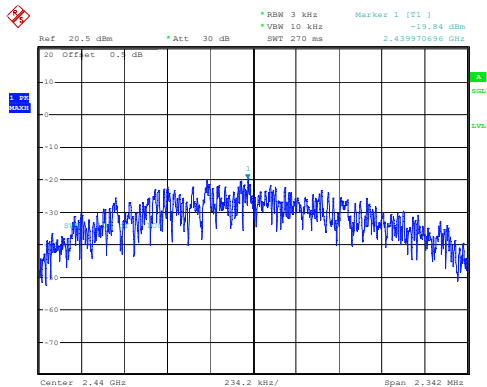
ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 18:21:53

BLE_2M_Low_Channel



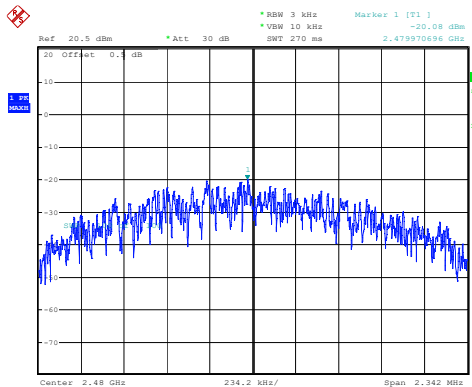
ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 18:28:59

BLE_2M_Middle_Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 18:33:05

BLE_2M_High_Channel



ProjectNo.:2607S35862E-RF Tester:Yuki
Date: 15.JUL.2026 18:38:18

EUT PHOTOGRAPHS

Please refer to the attachment 2607S35862E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2607S35862E-RF-INP EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2607S35862E-RF-TSP 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 *******