



FCC PART 15.247

TEST REPORT

For

KITCHENERY INC.

3814 WEST EUCLID AVE16, TAMPA, Florida, 33629, United States

FCC ID: 2BOGN-KPP-01SS

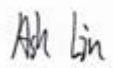
Report Type: Original Report	Product Name: induction kettle
Report Number:	<u>2507R30441E-RF-01</u>
Report Date:	<u>2025-04-30</u>
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507R30441E-RF-01	R1V1	2025-04-30	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name:	induction kettle
Tested Model:	KPP-01SS
Multiple Model(s):	KPP-01AC
Power Supply:	DC 5V
Maximum Conducted Peak Output Power:	BLE: 4.16dBm 2.4G WIFI: 17.95dBm
Frequency Range:	BLE: 2402-2480MHz 2.4G WIFI: 802.11b/g/n20: 2412-2462 MHz 802.11n40: 2422-2452 MHz
Modulation Technique:	BLE: GFSK 2.4G WIFI: 802.11b: DSSS 802.11g/n: OFDM
Antenna Type:	PCB Antenna
★Maximum Antenna Gain:	BLE&2.4G WIFI: 3.28dBi
EUT Received Status:	Good
<i>Note:</i> 1. The Maximum Antenna Gain was declared by manufacturer. 2. The difference between tested model and series model is model name and colour, please refer to declaration letter for more detail. 3. All measurement and test data in this report was gathered from production sample serial number: 2ZVQ-1 (Assigned by the BACL(Xiamen). The EUT supplied by the applicant was received on 2025-03-17)	

Objective

This report is prepared on behalf of *KITCHENERY INC.* 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, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and KDB 558074 D01 15.247 Meas Guidance v05r02.

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.

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

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the product as specified in CISPR 16-4-2. This uncertainty represents expanded uncertainty expressed at 95% confidence level using a coverage factor of k=2.

$$u_c(y) = \sqrt{\sum_i c_i^2 u^2(x_i)}$$

Item	Frequency Range	$U_{lab} = 2 u_c(y)$ (Confidence of 95%)
Conducted Emissions	150kHz-30MHz	2.45 dB
Radiated Spurious Emission	9kHz-150kHz	2.82 dB
	150kHz-30MHz	2.74 dB
	30MHz~200MHz	3.47 dB
	200MHz~1GHz	4.86 dB
	1GHz~6GHz	4.88 dB
	6GHz~18GHz	4.95 dB
	18GHz~26.5GHz	4.45 dB
Transmitter Conducted Power		±1.49 dB
Power Spectral Density		±0.61 dB
Occupy Bandwidth		2%
Voltage (DC)		±0.4%
Temperature		±1°C
Humidity		±5%

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: Transmitting
Test voltage:	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

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.

For 802.11b, 802.11g, 802.11n-HT20, 802.11n-HT40 mode, 11 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	/	/
6	2437	/	/
7	2442	/	/

For 802.11b, 802.11g, 802.11n-HT20 mode, EUT was tested with Channel 1, 6 and 11.

For 802.11n-HT40 mode, EUT was tested with Channel 3, 6 and 9.

Equipment Modifications

No modification was made to the EUT tested.

★EUT Exercise Software

BLE & 2.4G Wi-Fi test in the engineer mode.

RF Test Tool: EspRFTTestTool_v3.6_Manual.exe

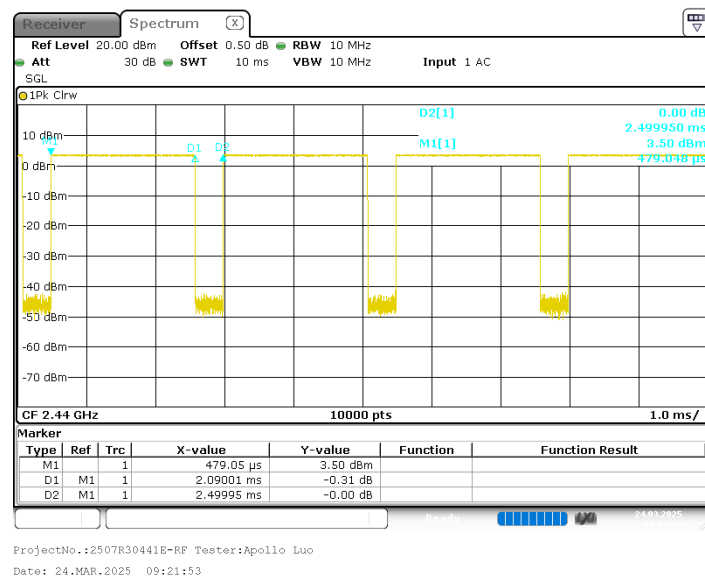
The device was tested with the worst case was performed as below:

Mode	Data rate	Power level		
		Low channel	Middle channel	High channel
802.11b	1 Mbps	15	15	15
802.11g	6 Mbps	30	30	30
802.11n-HT20	MCS0	30	30	30
802.11n-HT40	MCS0	30	30	30
BLE	1 Mbps	4	4	4

Pre-scan with all the data rates, the above data rate is the worst case for 2.4G Wi-Fi and BLE test.

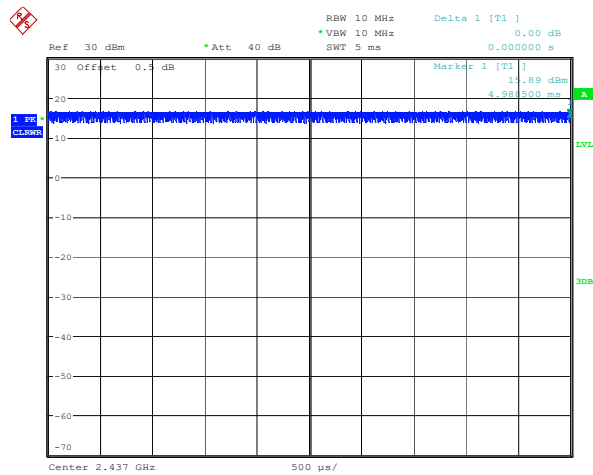
Duty cycle**For BLE:**

Test Mode:	Transmitting		Test Engineer:	Apollo Luo	
Test Date:	2025-03-24		Test Voltage:	AC 120V/60Hz	
Test Result:	Compliance		Environment:	Temp.: 21.6°C Humi.: 48% Atm.: 100.2kPa	
Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	VBW Setting (kHz)
BLE 1Mbps	2.09	2.5	83.60	478	0.50

BLE 1Mbps Middle Channel**For 2.4G WIFI:**

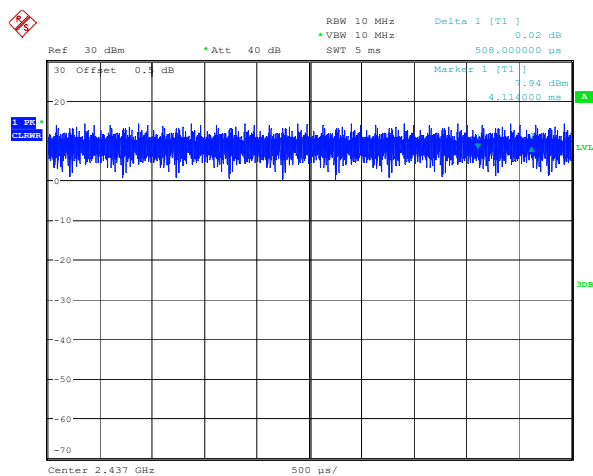
Test Mode:	Transmitting		Test Engineer:	Apollo Luo	
Test Date:	2025-03-29		Test Voltage:	AC 120V/60Hz	
Test Result:	Compliance		Environment:	Temp.: 21.8°C Humi.: 54% Atm.: 100.1kPa	
Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	VBW Setting (kHz)
802.11b	5	5	100.00	200	0.01
802.11g	5	5	100.00	200	0.01
802.11n ht20	5	5	100.00	200	0.01
802.11n ht40	5	5	100.00	200	0.01

802.11b Middle Channel



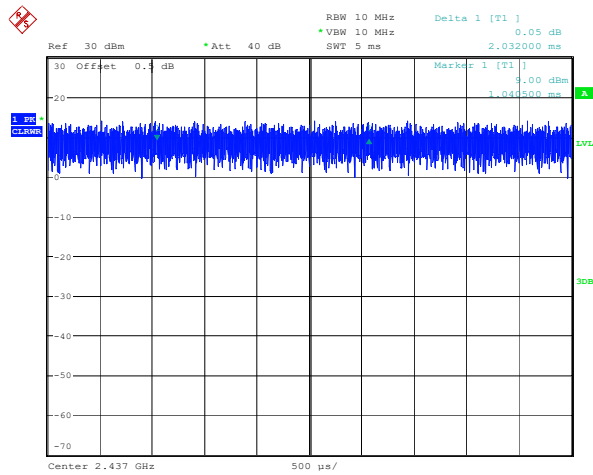
ProjectNo.:2507R30441E-RF Tester:Apollo Luo
Date: 29.MAR.2025 08:05:37

802.11g Middle Channel



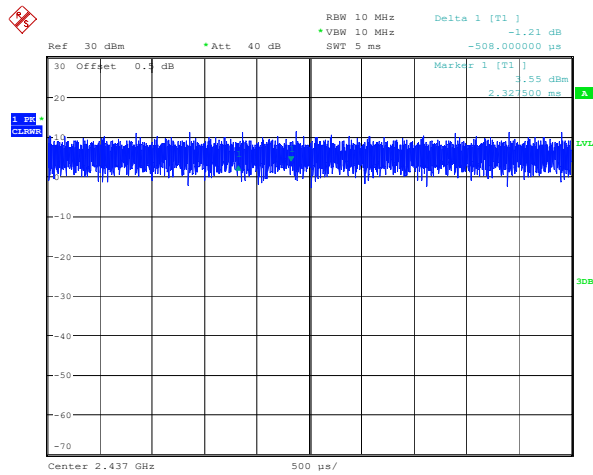
ProjectNo.:2507R30441E-RF Tester:Apollo Luo
Date: 29.MAR.2025 08:06:36

802.11n ht20 Middle Channel



ProjectNo.:2507R30441E-RF Tester:Apollo Luo
Date: 29.MAR.2025 08:07:26

802.11n ht40 Middle Channel



ProjectNo.:2507R30441E-RF Tester:Apollo Luo
Date: 29.MAR.2025 08:08:15

Support Equipment List and Details

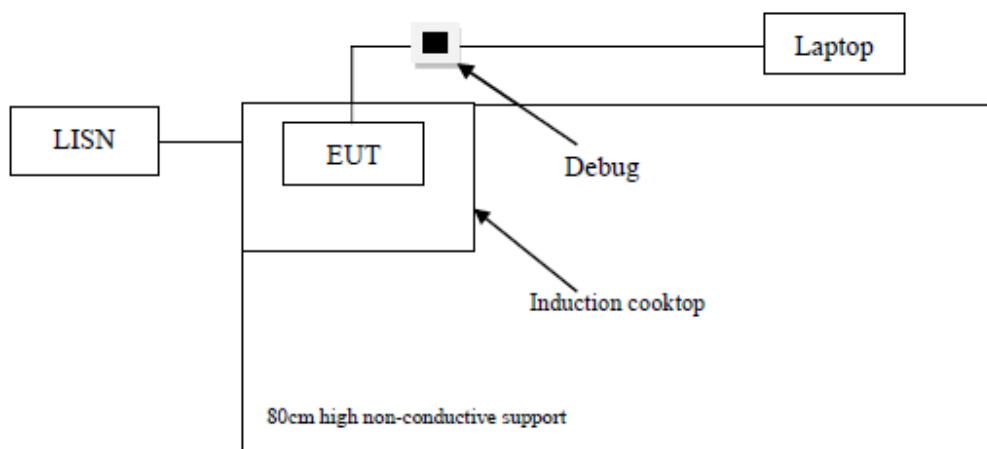
Manufacturer	Description	Model	Serial Number
Unknown	Debug	Unknown	Unknown
Lenovo	Laptop	T480	PF1P5K4F
Unknown	Induction cooktop	K1001	Unknown

External I/O Cable

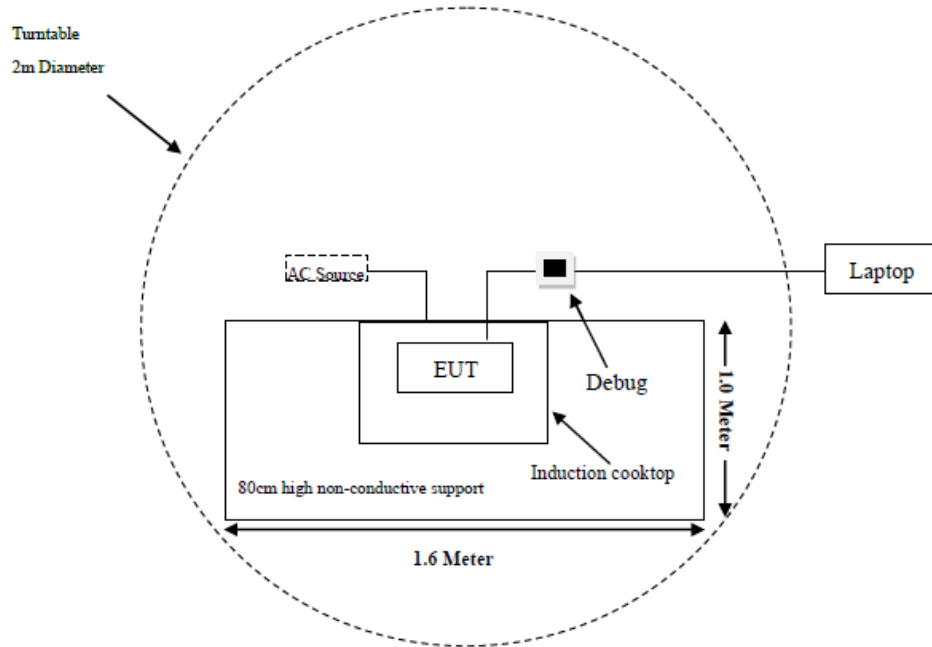
Cable Description	Length (m)	From Port	To
Cable	0.1	Debug	EUT
USB Cable	10	Laptop	Debug

Block Diagram of Test Setup

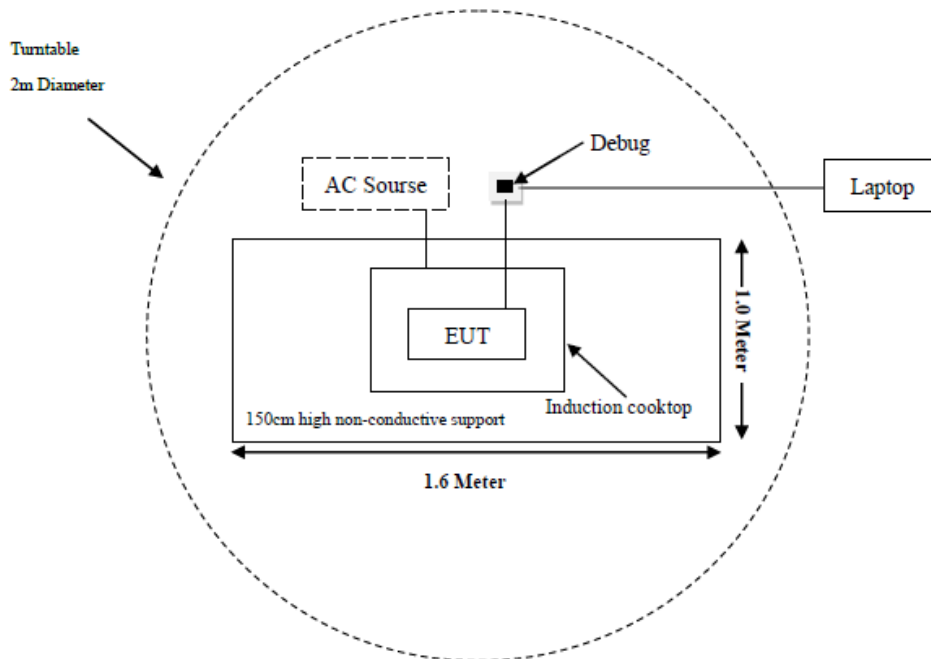
Conducted Emission:



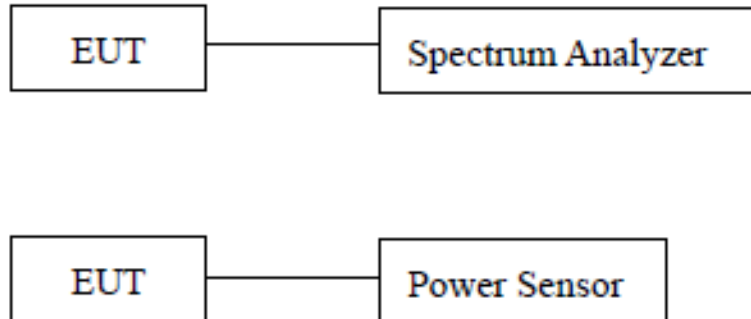
Radiated Emission:
Below 1GHz



Above 1GHz



RF Conduction:



Note: The cable assembly insertion loss of 0.5dB was entered as an offset in the spectrum analyzer/power sensor. (Actual cable loss was unavailable at the time of testing, therefore loss of 0.5dB was assumed as worst case.) This was later verified to be true by laboratory.

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247 (d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
§15.247 (b)(3)	Maximum Conducted Output Power	Compliance
§15.247 (d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247 (e)	Power Spectral Density	Compliance

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions					
EMI Test Receiver	Rohde & Schwarz	ESR	103105	2025/02/20	2026/02/19
LISN	Rohde & Schwarz	ENV216	100129	2025/02/20	2026/02/19
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC001	2025/02/20	2026/02/19
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2025/02/20	2026/02/19
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2023/07/27	2026/07/26
Antenna	Sunol Sciences	JB6	A122022-5	2023/07/27	2026/07/26
Amplifier	Sonoma	310B	120903	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2025/02/20	2026/02/19
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Above 1 GHz					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2025/02/20	2026/02/19
Filter Switch Unit	Decentest	DT7220FSU	DS79904	2025/02/21	2026/02/20
Multiplex Switch Test Control Set	Decentest	DT7220SCU	DS79901	2025/02/21	2026/02/20
Horn Antenna	EMCO	3115	9002-3355	2024/11/19	2027/11/18
Preamplifier	GLOBAL	1313-A100M18G	4121301	2025/01/16	2026/01/15
Coaxial Cable	XINHANGWEIBO	XH800A-N-6M	CC003	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH800A-N-1M	CC005	2025/02/20	2026/02/19
Horn Antenna	EMCO	3116	9407-2232	2023/07/31	2026/07/30
Preamplifier	A.H.Systems	PAM-1840	200	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-3M	CC008	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-1M	CC009	2025/02/20	2026/02/19
Test Software	Audix	E3	18621a	N/A	N/A
RF Conducted Test					
Spectrum Analyzer	Rohde & Schwarz	FSU	100405	2025/02/20	2026/02/19
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2025/02/20	2026/02/19
Coaxial Cable	Lianxun	RF113	N/A	Each time	Each time
USB Wideband Power Sensor	Boonton	55318	8934	2024/09/19	2025/09/18

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 PCB antenna arrangement for Bluetooth & 2.4G WIFI, which was permanently attached and the antenna gain is 3.28dBi, fulfill the requirement of this section. Please refer to the EUT photos.

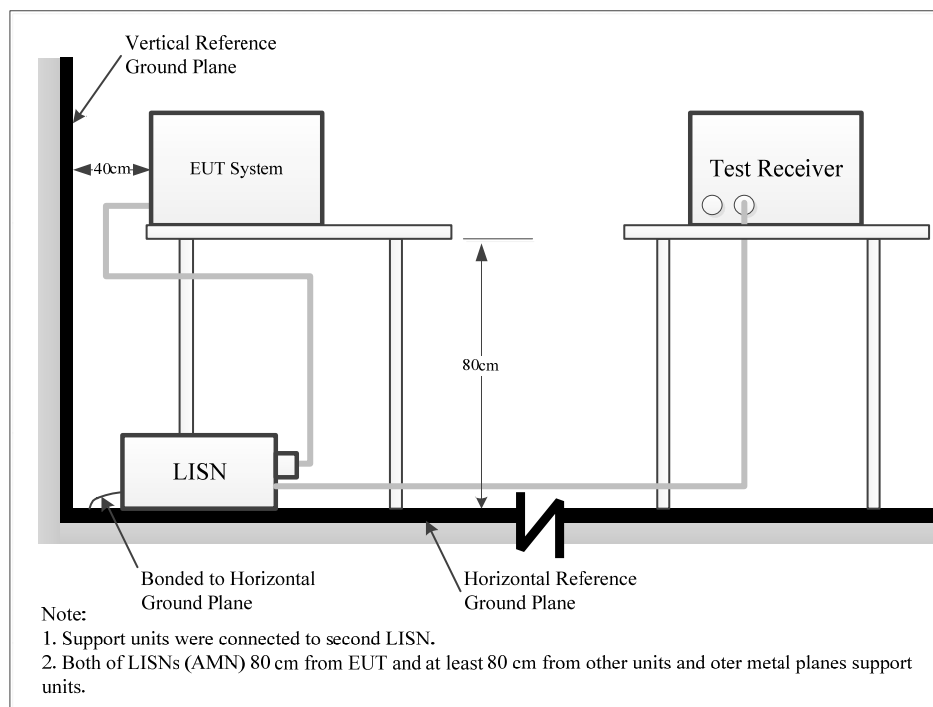
Result: Compliance

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

EUT Setup



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

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.

All final data was recorded in the Quasi-peak and average detection mode.

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:

$$\text{Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

$$\text{Result (dB}\mu\text{V)} = \text{Reading (dB}\mu\text{V)} + \text{Factor (dB)}$$

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

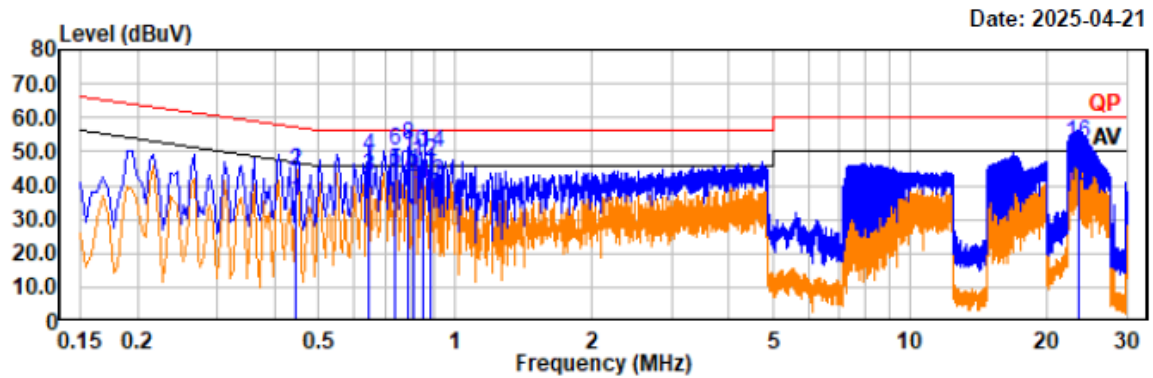
Temperature:	22.8℃
Relative Humidity:	56%
ATM Pressure:	99.8kPa
Test Date:	2025-04-21
Test Engineer:	H Wang

For BLE:

Note: The maximum output power mode: BLE Low channel was tested.

Project No.: 2507R30441E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: KPP-01SS

Temp/Humi/ATM: 22.8°C/56%/99.8kPa
Tested by: H Wang
Power Source: AC 120V/60Hz



Trace: 1

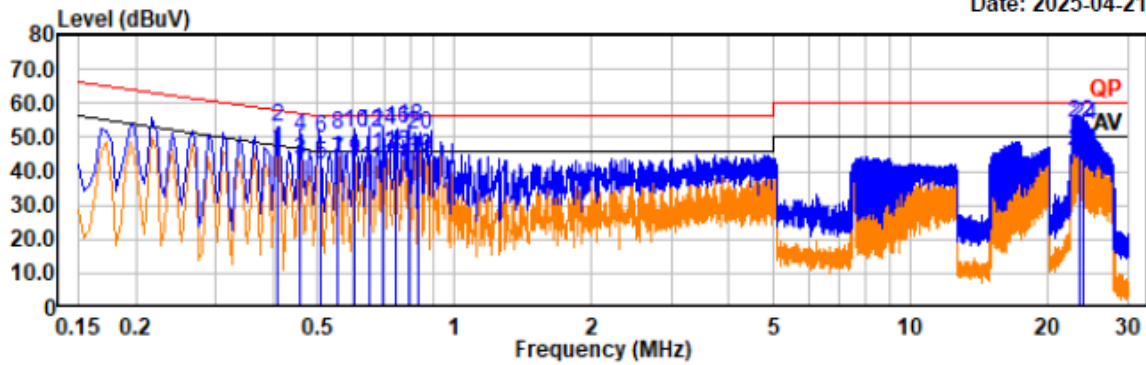
Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.45	14.01	21.04	35.05	46.92	11.87	Line	Average
0.45	22.89	21.04	43.93	56.92	12.99	Line	QP
0.64	21.31	21.24	42.55	46.00	3.45	Line	Average
0.64	27.33	21.24	48.57	56.00	7.43	Line	QP
0.74	22.78	21.40	44.18	46.00	1.82	Line	Average
0.74	28.96	21.40	50.36	56.00	5.64	Line	QP
0.79	22.29	21.40	43.69	46.00	2.31	Line	Average
0.79	30.33	21.40	51.73	56.00	4.27	Line	QP
0.81	20.97	21.40	42.37	46.00	3.63	Line	Average
0.81	28.46	21.40	49.86	56.00	6.14	Line	QP
0.85	15.80	21.40	37.20	46.00	8.80	Line	Average
0.85	25.51	21.40	46.91	56.00	9.09	Line	QP
0.88	19.26	21.40	40.66	46.00	5.34	Line	Average
0.88	28.22	21.40	49.62	56.00	6.38	Line	QP
23.38	17.77	21.70	39.47	50.00	10.53	Line	Average
23.38	30.53	21.70	52.23	60.00	7.77	Line	QP

Project No.: 2507R30441E-RF
 Test Mode: BLE 1M 2402MHz
 EUT Model: KPP-0155

Temp/Humi/ATM: 22.8°C/56%/99.8kPa
 Tested by: H Wang
 Power Source: AC 120V/60Hz

Date: 2025-04-21



Trace: 1

Condition: IF B/W 9kHz PK/AV

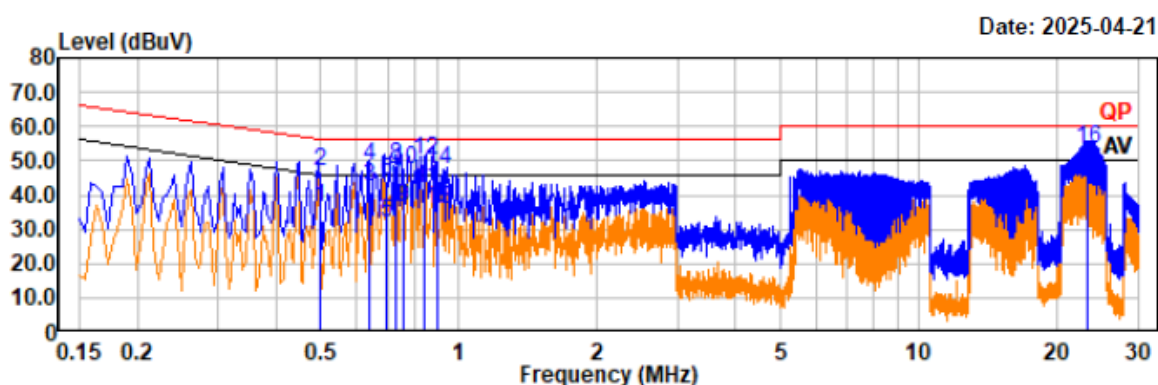
Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.41	25.42	21.19	46.61	47.65	1.04	Neutral	Average
0.41	31.77	21.19	52.96	57.65	4.69	Neutral	QP
0.46	21.98	20.96	42.94	46.70	3.76	Neutral	Average
0.46	29.20	20.96	50.16	56.70	6.54	Neutral	QP
0.51	21.13	20.81	41.94	46.00	4.06	Neutral	Average
0.51	28.60	20.81	49.41	56.00	6.59	Neutral	QP
0.55	22.01	20.92	42.93	46.00	3.07	Neutral	Average
0.55	29.89	20.92	50.81	56.00	5.19	Neutral	QP
0.60	22.09	21.03	43.12	46.00	2.88	Neutral	Average
0.60	30.51	21.03	51.54	56.00	4.46	Neutral	QP
0.65	19.94	21.12	41.06	46.00	4.94	Neutral	Average
0.65	30.15	21.12	51.27	56.00	4.73	Neutral	QP
0.70	23.28	21.20	44.48	46.00	1.52	Neutral	Average
0.70	30.50	21.20	51.70	56.00	4.30	Neutral	QP
0.75	24.07	21.25	45.32	46.00	0.68	Neutral	Average
0.75	31.39	21.25	52.64	56.00	3.36	Neutral	QP
0.80	20.13	21.31	41.44	46.00	4.56	Neutral	Average
0.80	31.70	21.31	53.01	56.00	2.99	Neutral	QP
0.83	22.64	21.35	43.99	46.00	2.01	Neutral	Average
0.83	29.68	21.35	51.03	56.00	4.97	Neutral	QP
23.46	24.24	21.60	45.84	50.00	4.16	Neutral	Average
23.46	32.36	21.60	53.96	60.00	6.04	Neutral	QP
23.97	23.99	21.58	45.57	50.00	4.43	Neutral	Average
23.97	31.80	21.58	53.38	60.00	6.62	Neutral	QP

For 2.4G WIFI:

Note: The maximum output power mode: Wifi 802.11n20 low channel was tested.

Project No.: 2507R30441E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: KPP-01SS

Temp/Humi/ATM: 22.8°C/56%/99.8kPa
Tested by: H Wang
Power Source: AC 120V/60Hz



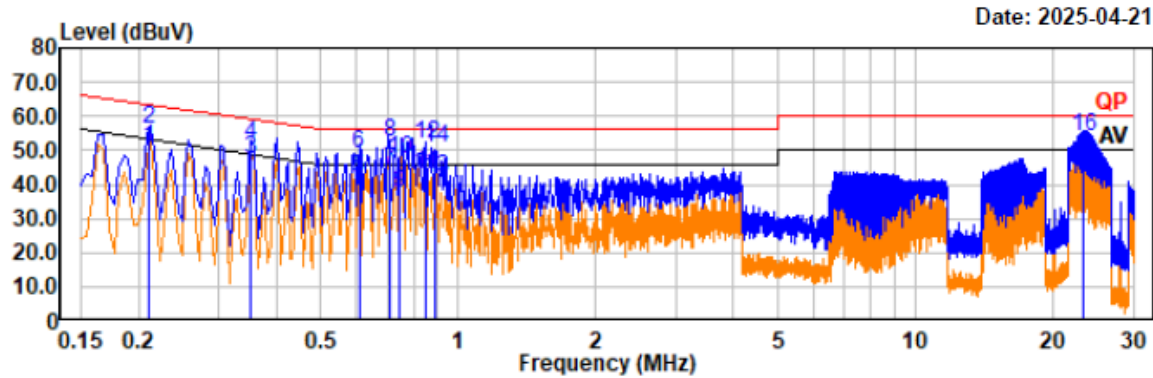
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Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.50	15.57	20.80	36.37	46.00	9.63	Line	Average
0.50	25.85	20.80	46.65	56.00	9.35	Line	QP
0.64	21.04	21.24	42.28	46.00	3.72	Line	Average
0.64	27.17	21.24	48.41	56.00	7.59	Line	QP
0.70	10.85	21.40	32.25	46.00	13.75	Line	Average
0.70	22.65	21.40	44.05	56.00	11.95	Line	QP
0.73	21.45	21.40	42.85	46.00	3.15	Line	Average
0.73	27.18	21.40	48.58	56.00	7.42	Line	QP
0.76	14.89	21.40	36.29	46.00	9.71	Line	Average
0.76	26.00	21.40	47.40	56.00	8.60	Line	QP
0.84	20.36	21.40	41.76	46.00	4.24	Line	Average
0.84	28.59	21.40	49.99	56.00	6.01	Line	QP
0.90	14.20	21.40	35.60	46.00	10.40	Line	Average
0.90	25.86	21.40	47.26	56.00	8.74	Line	QP
23.25	25.38	21.70	47.08	50.00	2.92	Line	Average
23.25	31.89	21.70	53.59	60.00	6.41	Line	QP

Project No.: 2507R30441E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: KPP-0155

Temp/Humi/ATM: 22.8°C/56%/99.8kPa
Tested by: H Wang
Power Source: AC 120V/60Hz



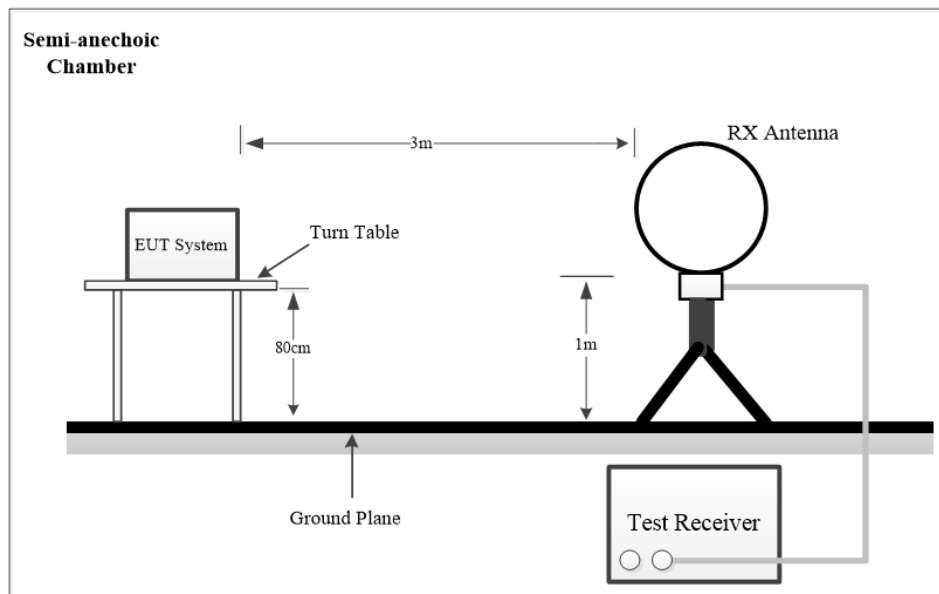
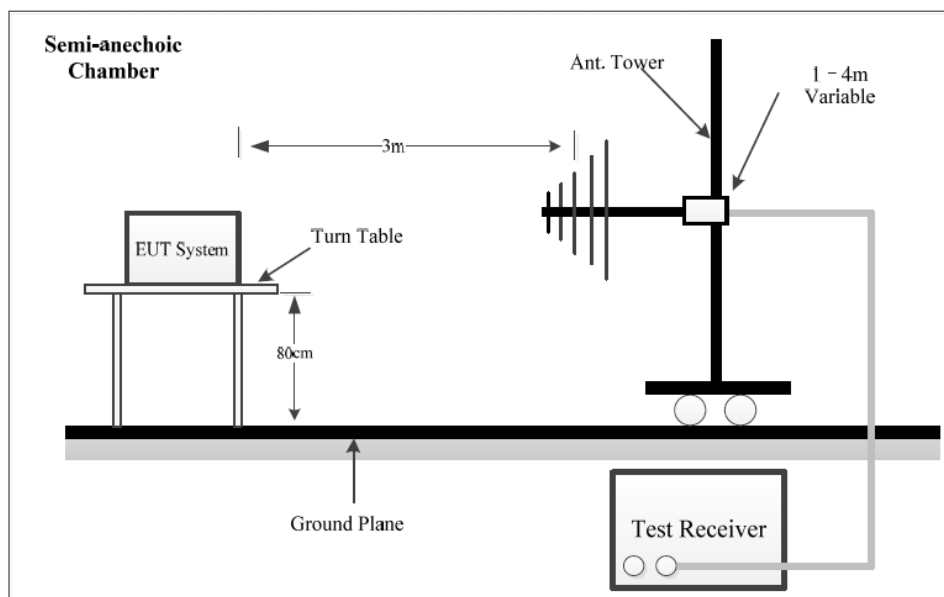
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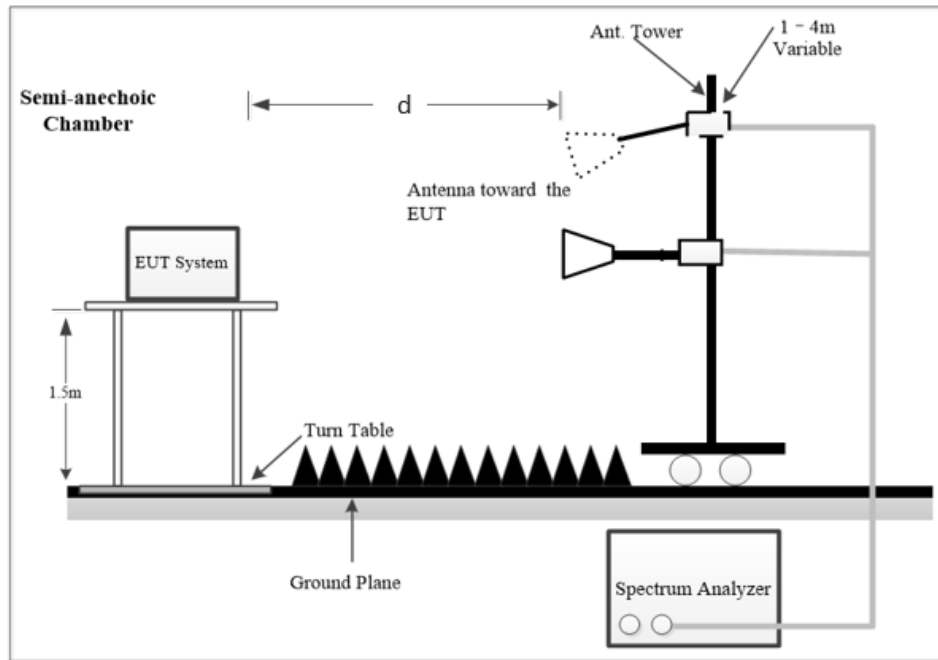
Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.21	28.24	22.49	50.73	53.16	2.43	Neutral	Average
0.21	34.00	22.49	56.49	63.16	6.67	Neutral	QP
0.35	25.97	21.50	47.47	48.94	1.47	Neutral	Average
0.35	30.59	21.50	52.09	58.94	6.85	Neutral	QP
0.61	20.68	21.03	41.71	46.00	4.29	Neutral	Average
0.61	28.13	21.03	49.16	56.00	6.84	Neutral	QP
0.71	22.96	21.21	44.17	46.00	1.83	Neutral	Average
0.71	30.94	21.21	52.15	56.00	3.85	Neutral	QP
0.74	16.13	21.25	37.38	46.00	8.62	Neutral	Average
0.74	26.43	21.25	47.68	56.00	8.32	Neutral	QP
0.85	21.47	21.36	42.83	46.00	3.17	Neutral	Average
0.85	30.27	21.36	51.63	56.00	4.37	Neutral	QP
0.89	20.70	21.40	42.10	46.00	3.90	Neutral	Average
0.89	29.18	21.40	50.58	56.00	5.42	Neutral	QP
23.25	24.38	21.61	45.99	50.00	4.01	Neutral	Average
23.25	32.22	21.61	53.83	60.00	6.17	Neutral	QP

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

FCC §15.247 (d); §15.209; §15.205;

EUT Setup**9 kHz-30MHz:****30MHz -1 GHz:**

Above 1GHz:

The radiated emission tests using the setup accordance with the ANSI C63.10-2013. 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 C63.10-2013, 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 = $20 \log (\text{specific distance } [3\text{m}] / \text{test distance } [1.5\text{m}]) \text{ dB} = 6 \text{ dB}$

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 were set with the following configurations:

Below 1GHz:

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

Above 1GHz:

Pre-scan:

Duty Cycle	RBW	VBW	Measurement	Detector
Any	1MHz	3MHz	PK	PK
>98%	1MHz	5kHz	AV	PK
<98%	1MHz	$\geq 1/T$, not less than 5kHz	AV	PK

Final measurement for emission identified during the pre-scan:

Duty Cycle	RBW	VBW	Measurement	Detector
Any	1MHz	3MHz	PK	PK
>98%	1MHz	10Hz	AV	PK
<98%	1MHz	1/T	AV	PK

Note: T is minimum transmission duration

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

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

For 18GHz to 25GHz Radiated emission test and Bandedge emissions 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
Temperature:	20°C~21.3°C	21.3°C
Relative Humidity:	51 %~55 %	51%
ATM Pressure:	100.1kPa	100.1kPa
Test Date:	2025-03-31~2025-04-23	2025-03-31
Test Engineer:	Wlif Wu	Wlif Wu

1) 9 kHz~30MHz

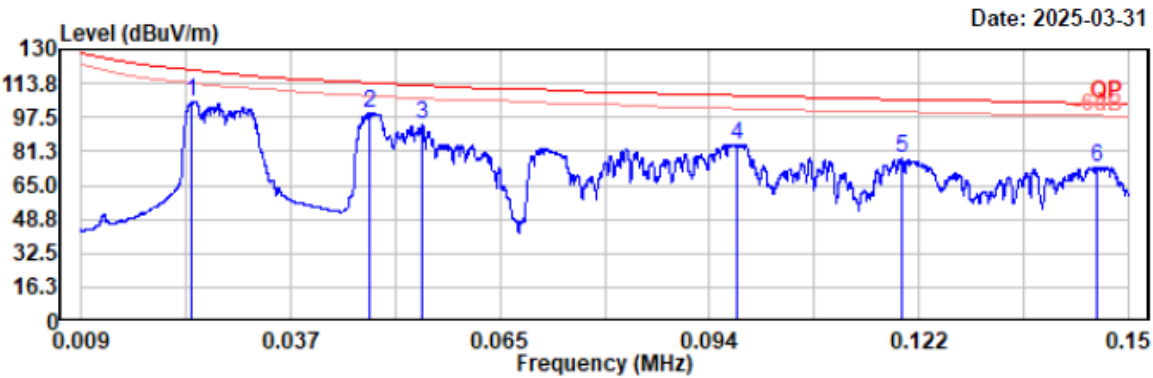
Pre-scan in parallel, ground-parallel and perpendicular of orientation of loop antenna, parallel is worst case.

For BLE:

Note: The maximum output power mode: BLE 1Mbps Low channel was tested.

Project No.: 2507R30441E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



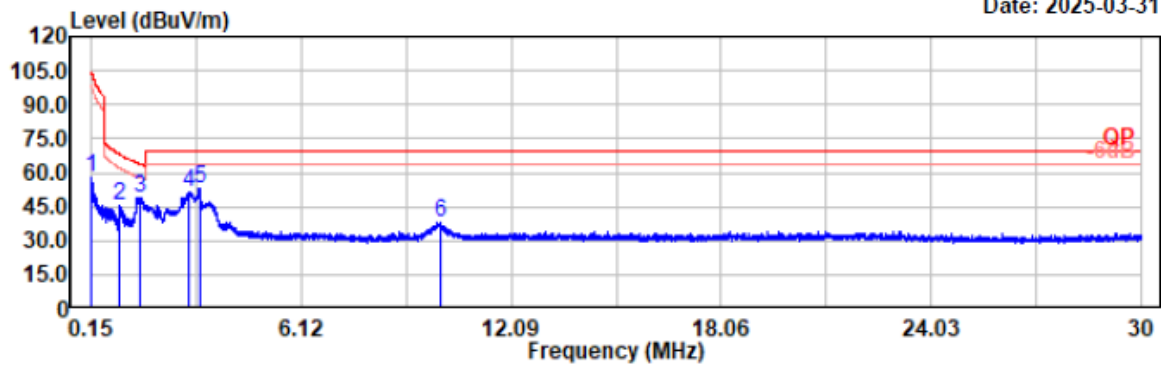
Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.024	85.16	19.85	105.01	120.04	15.03	Peak
0.048	79.88	19.91	99.79	114.03	14.24	Peak
0.055	74.12	19.91	94.03	112.81	18.78	Peak
0.097	64.91	19.75	84.66	107.85	23.19	Peak
0.119	58.34	19.73	78.07	106.06	27.99	Peak
0.146	53.97	19.73	73.70	104.34	30.64	Peak

Project No.: 2507R30441E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-31



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

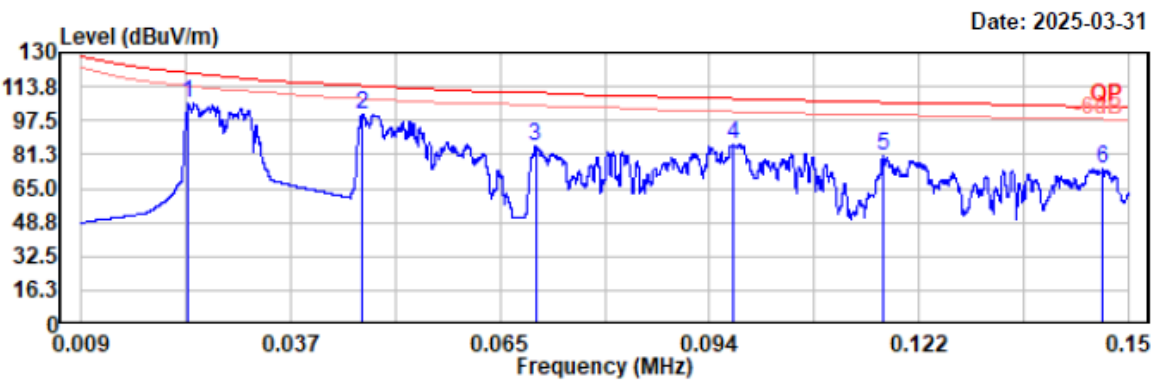
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.162	38.02	19.72	57.74	103.42	45.68	Peak
0.956	26.00	19.68	45.68	68.00	22.32	Peak
1.526	29.43	19.65	49.08	63.93	14.85	Peak
2.923	31.51	19.83	51.34	69.54	18.20	Peak
3.216	32.95	19.83	52.78	69.54	16.76	Peak
10.081	17.99	19.70	37.69	69.54	31.85	Peak

For 2.4G Wifi:

Note: The maximum output power mode: Wifi 802.11n20 Low channel was tested.

Project No.: 2507R30441E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

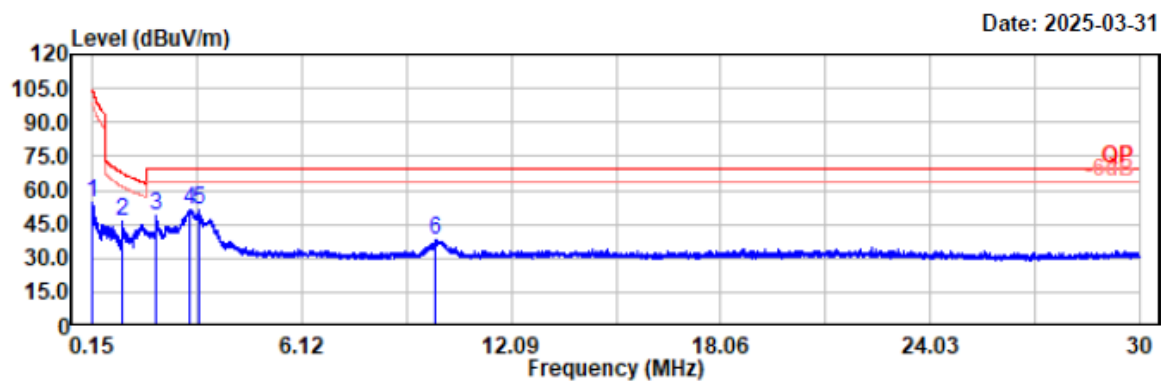


Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.023	85.63	19.84	105.47	120.25	14.78	Peak
0.047	80.92	19.91	100.83	114.22	13.39	Peak
0.070	65.63	19.81	85.44	110.69	25.25	Peak
0.097	66.00	19.75	85.75	107.89	22.14	Peak
0.117	60.94	19.73	80.67	106.25	25.58	Peak
0.147	54.63	19.73	74.36	104.29	29.93	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/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
0.162	34.84	19.72	54.56	103.42	48.86	Peak
1.013	26.70	19.74	46.44	67.50	21.06	Peak
1.944	28.99	19.58	48.57	69.54	20.97	Peak
2.914	31.61	19.82	51.43	69.54	18.11	Peak
3.180	31.16	19.83	50.99	69.54	18.55	Peak
9.938	18.27	19.70	37.97	69.54	31.57	Peak

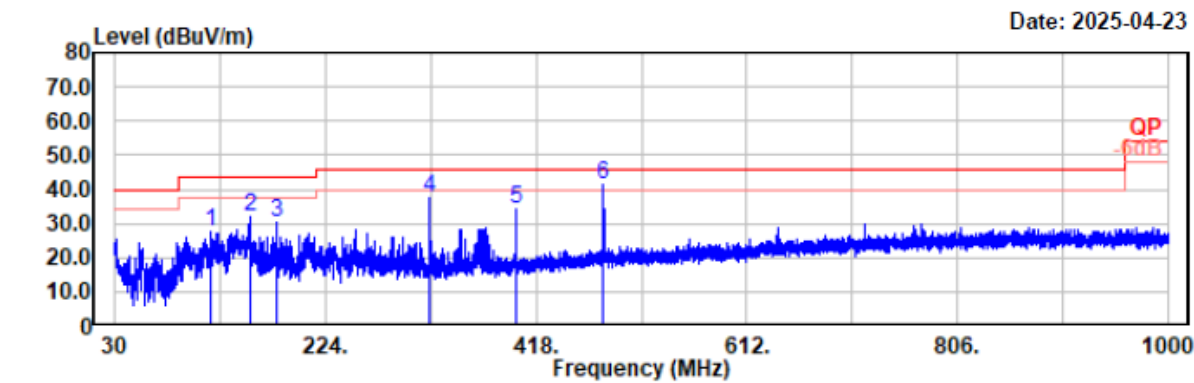
2) 30 MHz-1GHz

For BLE:

Note: The maximum output power mode: BLE 1Mbps Low channel was tested.

Project No.: 2507R30441E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 20°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



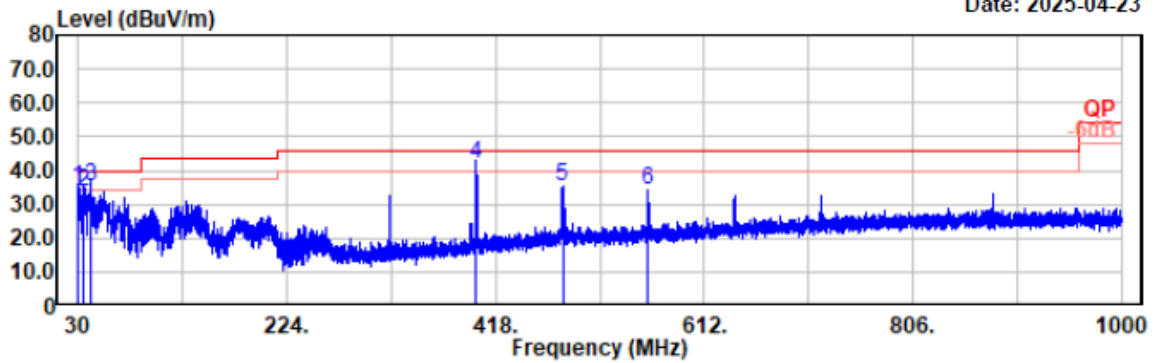
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
118.56	37.94	-10.49	27.45	43.50	16.05	Horizontal	Peak
154.16	43.13	-11.24	31.89	43.50	11.61	Horizontal	Peak
178.51	42.41	-12.23	30.18	43.50	13.32	Horizontal	Peak
320.03	46.13	-8.77	37.36	46.00	8.64	Horizontal	Peak
400.06	40.82	-6.39	34.43	46.00	11.57	Horizontal	Peak
480.08	45.41	-3.83	41.58	46.00	4.42	Horizontal	QP

Project No.: 2507R30441E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 20°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-04-23



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

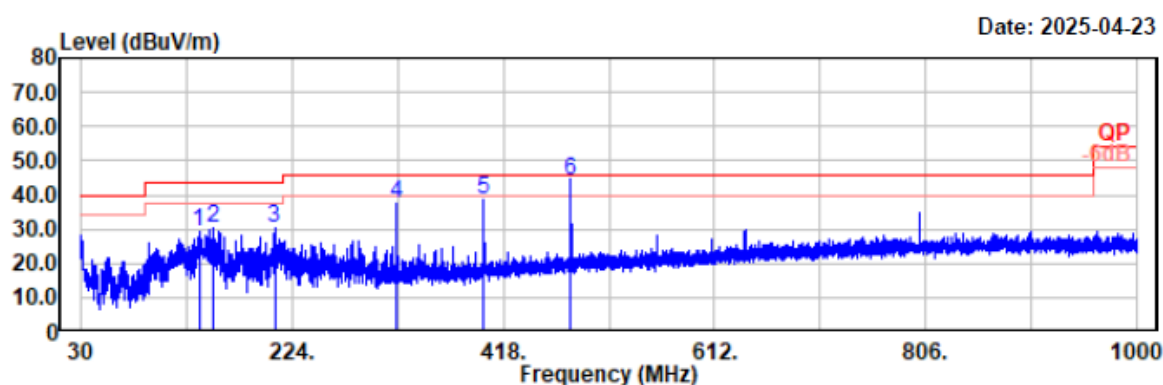
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
30.00	40.43	-5.60	34.83	40.00	5.17	Vertical	QP
35.53	42.19	-8.41	33.78	40.00	6.22	Vertical	QP
41.93	48.31	-13.05	35.26	40.00	4.74	Vertical	QP
400.06	48.26	-6.39	41.87	46.00	4.13	Vertical	QP
480.27	39.26	-3.82	35.44	46.00	10.56	Vertical	Peak
560.11	37.07	-2.60	34.47	46.00	11.53	Vertical	Peak

For 2.4G WIFI:

Note: The maximum output power mode: Wifi 802.11n20 Low channel was tested.

Project No.: 2507R30441E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 20°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



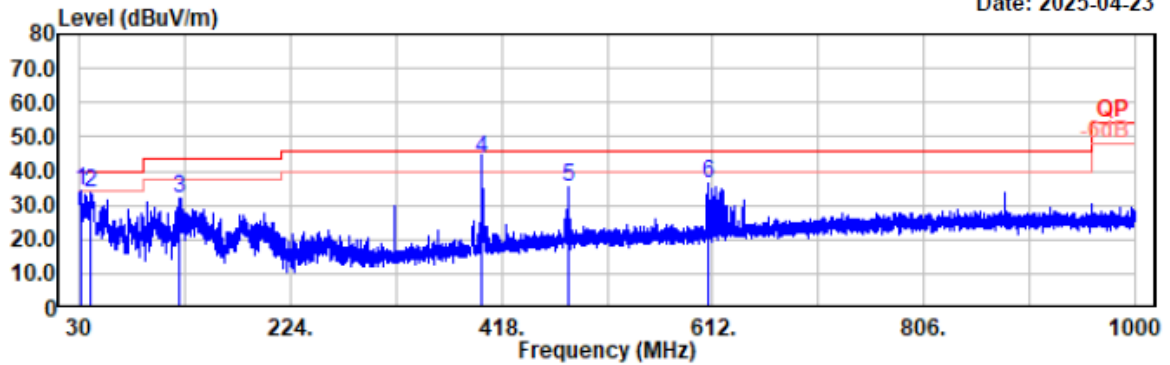
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
138.25	39.98	-10.54	29.44	43.50	14.06	Horizontal	Peak
151.83	41.74	-11.20	30.54	43.50	12.96	Horizontal	Peak
207.70	42.45	-12.36	30.09	43.50	13.41	Horizontal	Peak
320.03	46.17	-8.77	37.40	46.00	8.60	Horizontal	Peak
400.06	45.01	-6.39	38.62	46.00	7.38	Horizontal	Peak
480.08	48.07	-3.83	44.24	46.00	1.76	Horizontal	QP

Project No.: 2507R30441E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 20°C/55%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-04-23



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

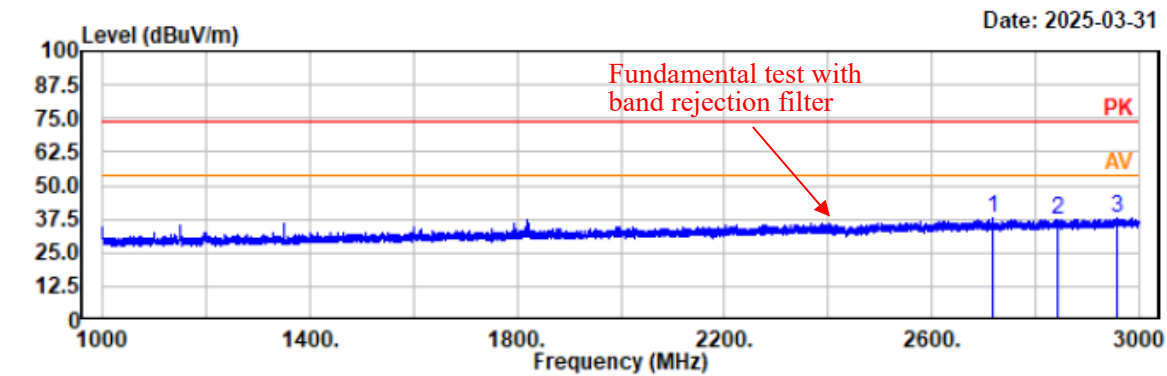
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
30.97	39.81	-5.84	33.97	40.00	6.03	Vertical	Peak
40.67	45.95	-12.12	33.83	40.00	6.17	Vertical	Peak
122.34	42.18	-10.09	32.09	43.50	11.41	Vertical	Peak
399.96	50.01	-6.39	43.62	46.00	2.38	Vertical	QP
480.08	39.04	-3.83	35.21	46.00	10.79	Vertical	Peak
608.41	38.49	-2.11	36.38	46.00	9.62	Vertical	Peak

3) 1GHz~3GHz

For BLE 1Mbps:

Project No.: 2507R30441E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/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
2718.40	47.67	-9.98	37.69	74.00	36.31	horizontal	Peak
2843.80	47.16	-9.64	37.52	74.00	36.48	horizontal	Peak
2959.40	46.95	-9.16	37.79	74.00	36.21	horizontal	Peak

Project No.: 2507R30441E-RF

Test Mode: BLE 1M 2402MHz

EUT Model: KPP-01SS

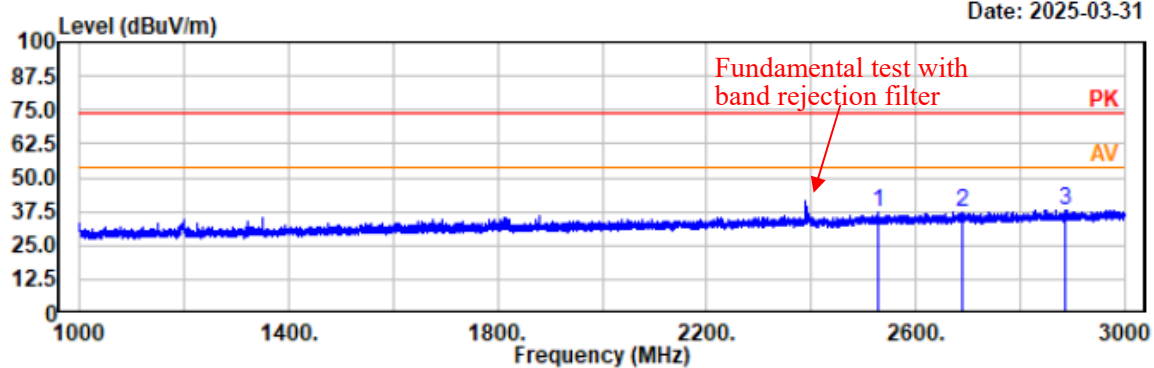
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz

Date: 2025-03-31

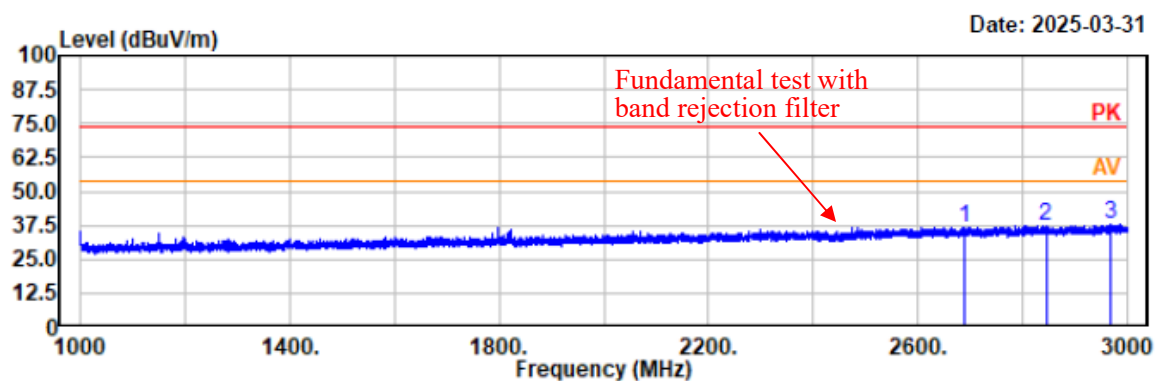


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2528.60	47.56	-10.64	36.92	74.00	37.08	vertical	Peak
2690.80	47.59	-10.04	37.55	74.00	36.45	vertical	Peak
2886.60	47.62	-9.58	38.04	74.00	35.96	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



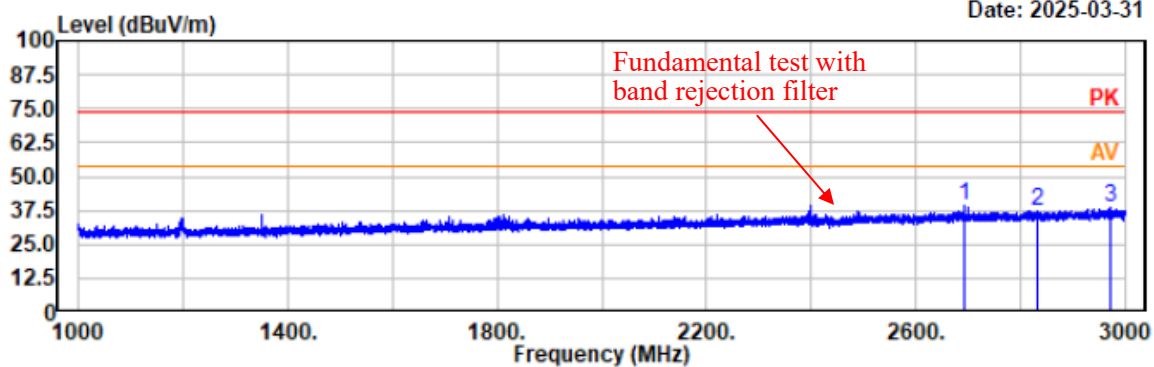
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2687.80	46.75	-10.05	36.70	74.00	37.30	horizontal	Peak
2845.00	47.09	-9.64	37.45	74.00	36.55	horizontal	Peak
2968.20	47.17	-9.11	38.06	74.00	35.94	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-31

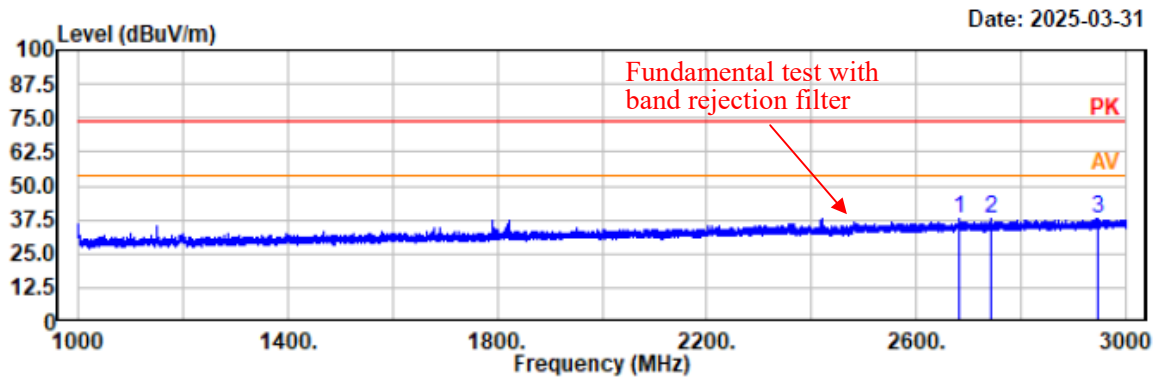


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2692.80	49.65	-10.03	39.62	74.00	34.38	vertical	Peak
2832.00	47.04	-9.68	37.36	74.00	36.64	vertical	Peak
2972.40	47.38	-9.08	38.30	74.00	35.70	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



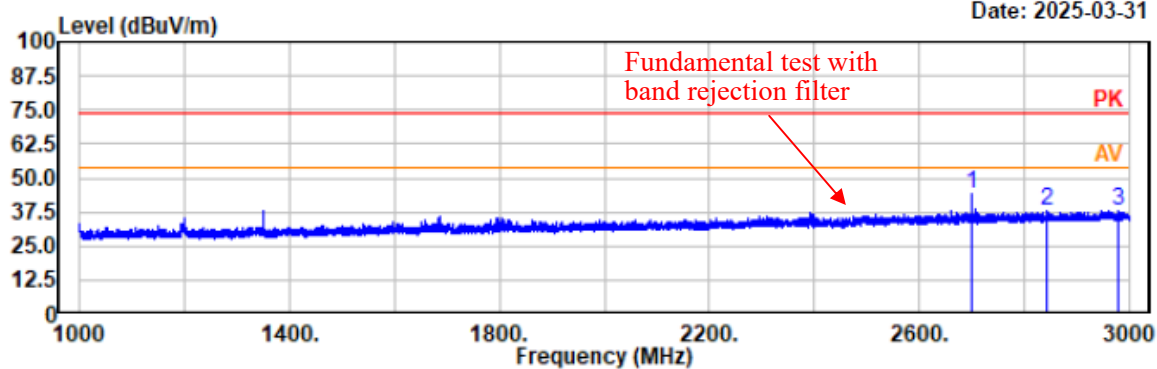
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2683.60	47.86	-10.07	37.79	74.00	36.21	horizontal	Peak
2742.60	47.76	-9.95	37.81	74.00	36.19	horizontal	Peak
2948.40	47.08	-9.22	37.86	74.00	36.14	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-31



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
2700.40	53.98	-10.00	43.98	74.00	30.02	vertical	Peak
2844.20	47.61	-9.64	37.97	74.00	36.03	vertical	Peak
2978.60	46.97	-9.06	37.91	74.00	36.09	vertical	Peak

For 2.4G WIFI:

Project No.: 2507R30441E-RF

Test Mode: 802.11b 2412MHz

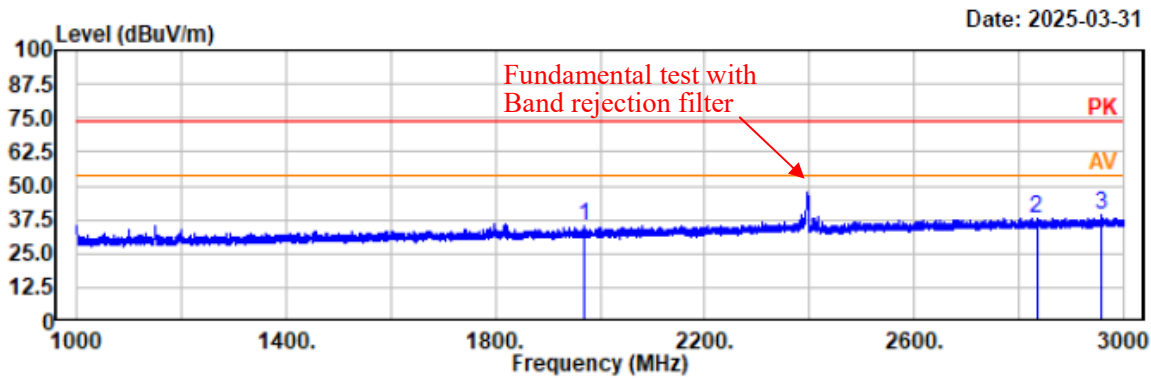
EUT Model: KPP-01SS

Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz

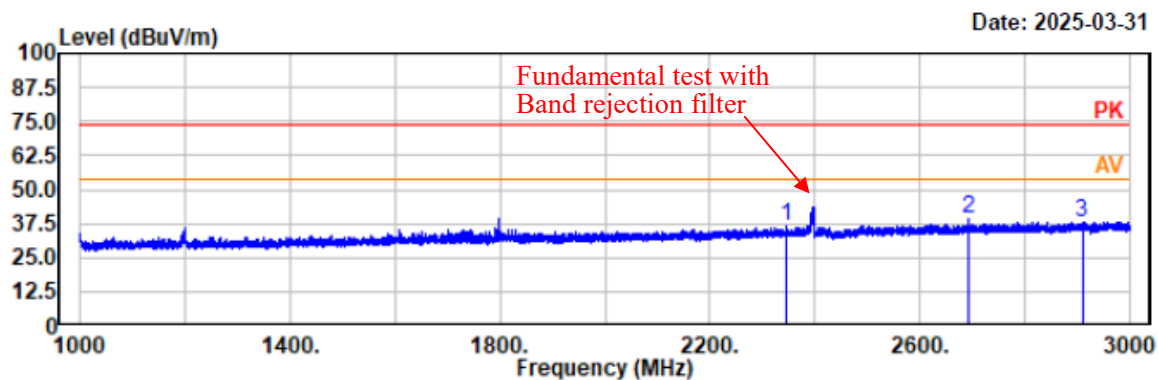


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1968.60	47.85	-12.68	35.17	74.00	38.83	horizontal	Peak
2834.20	47.83	-9.67	38.16	74.00	35.84	horizontal	Peak
2958.20	48.33	-9.17	39.16	74.00	34.84	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11b 2412MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

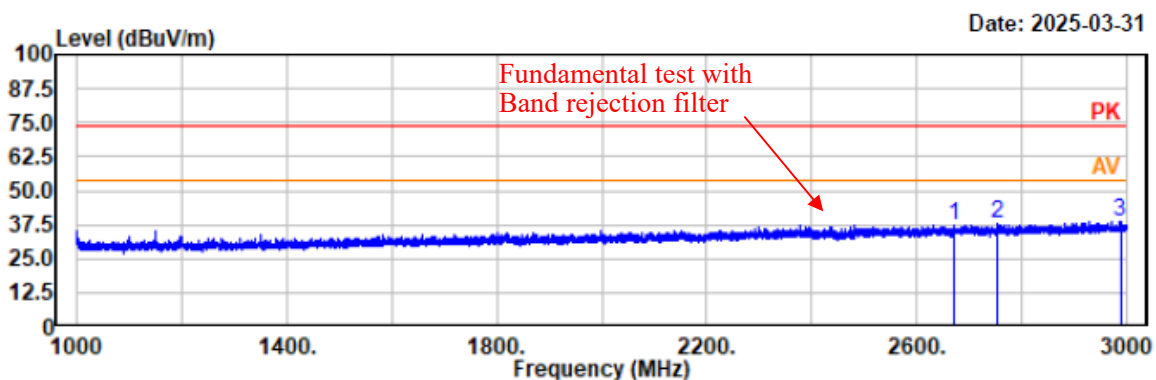


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2346.00	47.83	-11.33	36.50	74.00	37.50	vertical	Peak
2692.20	49.25	-10.03	39.22	74.00	34.78	vertical	Peak
2909.40	47.63	-9.48	38.15	74.00	35.85	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11b 2437MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

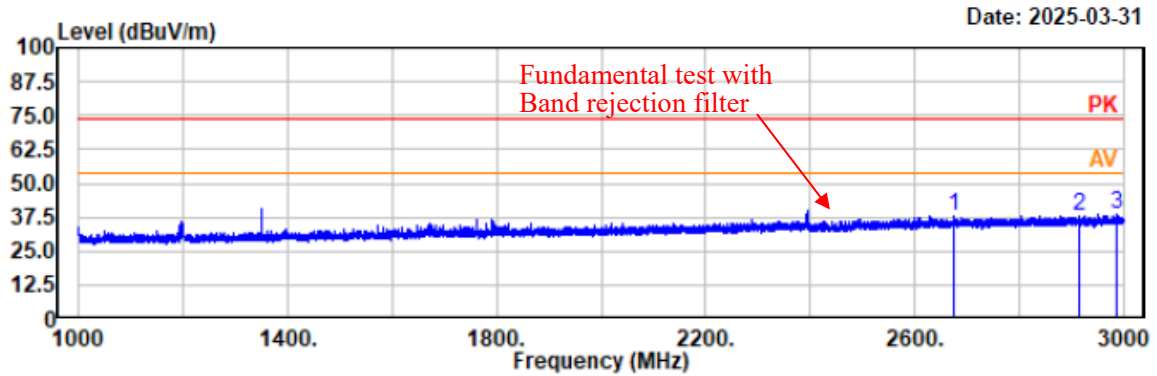


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2672.80	47.67	-10.11	37.56	74.00	36.44	horizontal	Peak
2752.20	47.82	-9.93	37.89	74.00	36.11	horizontal	Peak
2988.20	47.53	-9.01	38.52	74.00	35.48	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11b 2437MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/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
2676.20	48.10	-10.11	37.99	74.00	36.01	vertical	Peak
2916.40	47.50	-9.44	38.06	74.00	35.94	vertical	Peak
2987.20	47.56	-9.01	38.55	74.00	35.45	vertical	Peak

Project No.: 2507R30441E-RF

Test Mode: 802.11b 2462MHz

EUT Model: KPP-01SS

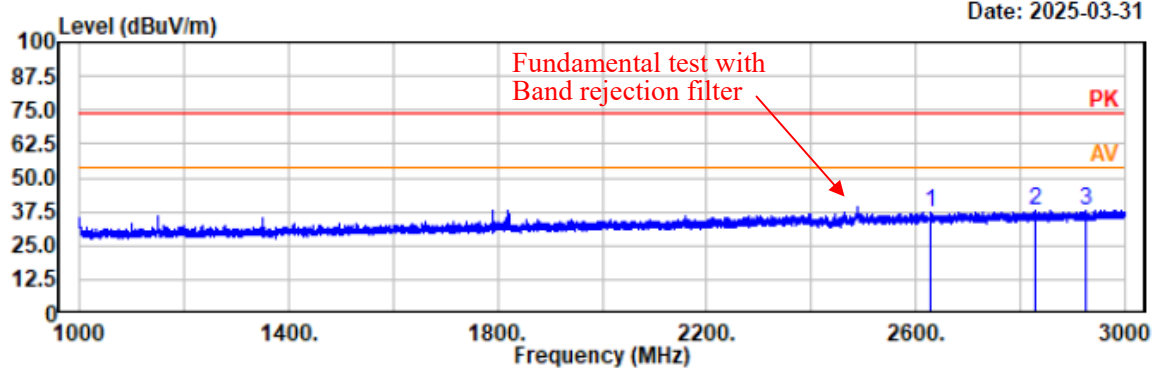
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz

Date: 2025-03-31



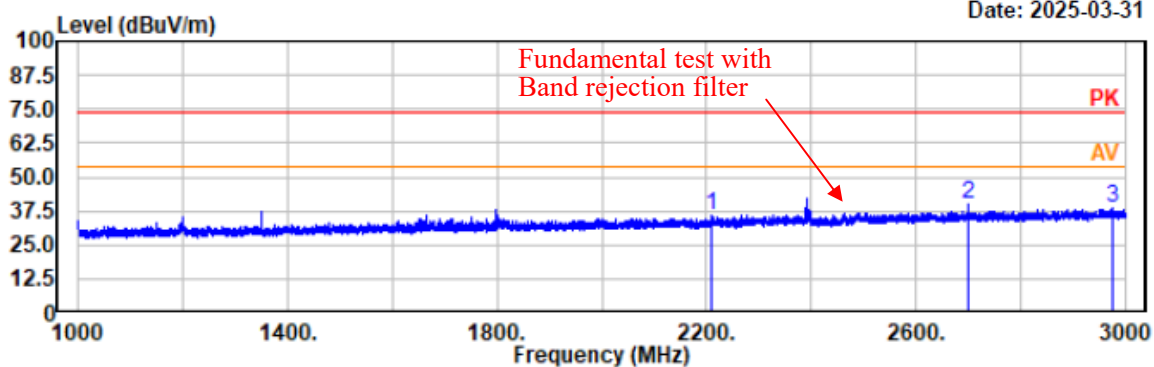
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2628.80	47.84	-10.28	37.56	74.00	36.44	horizontal	Peak
2829.60	47.70	-9.68	38.02	74.00	35.98	horizontal	Peak
2924.00	47.63	-9.39	38.24	74.00	35.76	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11b 2462MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-31



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
2211.00	47.58	-11.91	35.67	74.00	38.33	vertical	Peak
2700.20	50.16	-10.00	40.16	74.00	33.84	vertical	Peak
2976.00	47.62	-9.07	38.55	74.00	35.45	vertical	Peak

Project No.: 2507R30441E-RF

Test Mode: 802.11g 2412MHz

EUT Model: KPP-01SS

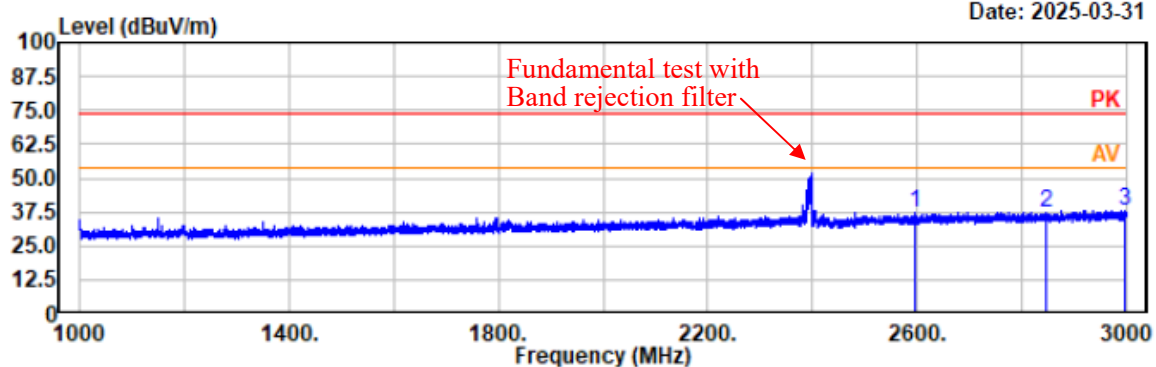
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz

Date: 2025-03-31

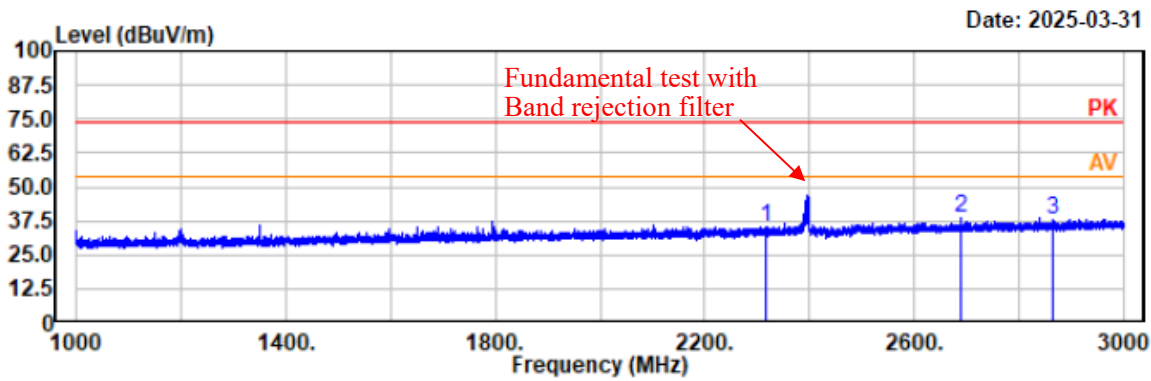


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2595.80	47.50	-10.42	37.08	74.00	36.92	horizontal	Peak
2847.00	47.14	-9.63	37.51	74.00	36.49	horizontal	Peak
2995.80	47.16	-8.97	38.19	74.00	35.81	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11g 2412MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

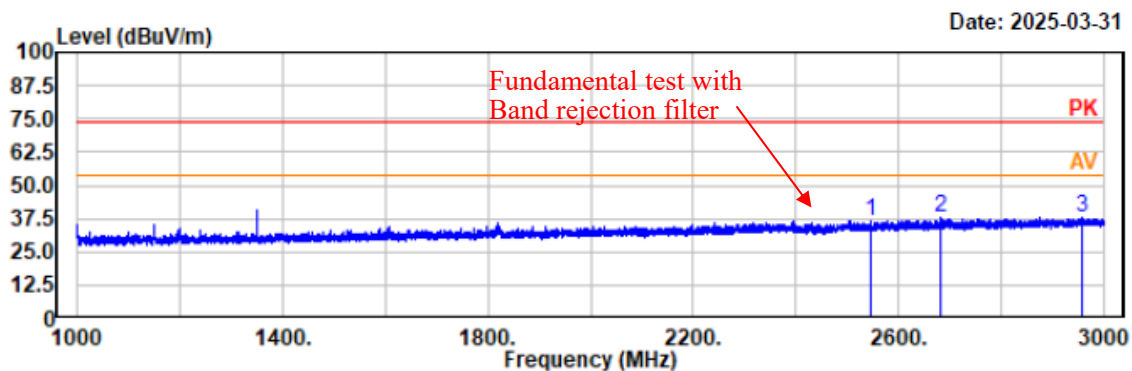


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2317.00	46.87	-11.39	35.48	74.00	38.52	vertical	Peak
2690.20	48.94	-10.04	38.90	74.00	35.10	vertical	Peak
2866.20	47.83	-9.60	38.23	74.00	35.77	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11g 2437MHz
EUT Model: KPP-015S
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

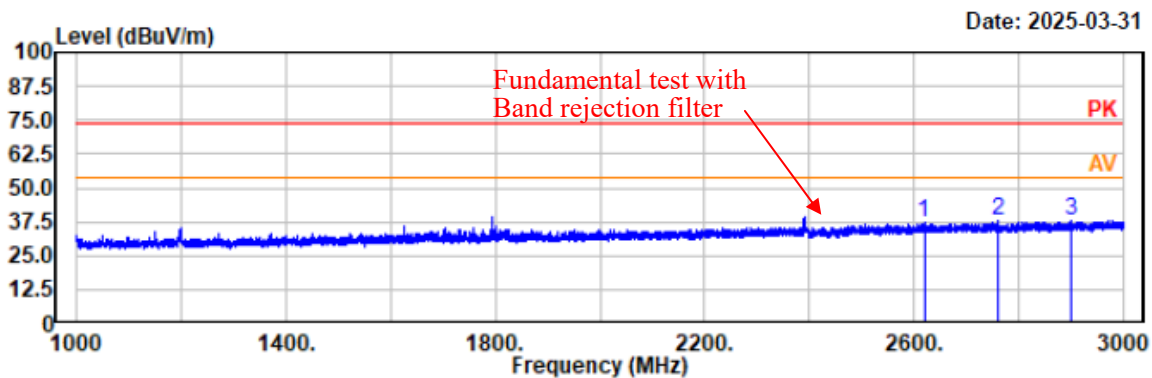


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2546.80	47.23	-10.60	36.63	74.00	37.37	horizontal	Peak
2683.60	47.74	-10.07	37.67	74.00	36.33	horizontal	Peak
2959.20	46.90	-9.16	37.74	74.00	36.26	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11g 2437MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/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
2619.40	47.57	-10.31	37.26	74.00	36.74	vertical	Peak
2761.20	47.64	-9.91	37.73	74.00	36.27	vertical	Peak
2901.60	47.75	-9.54	38.21	74.00	35.79	vertical	Peak

Project No.: 2507R30441E-RF

Test Mode: 802.11g 2462MHz

EUT Model: KPP-01SS

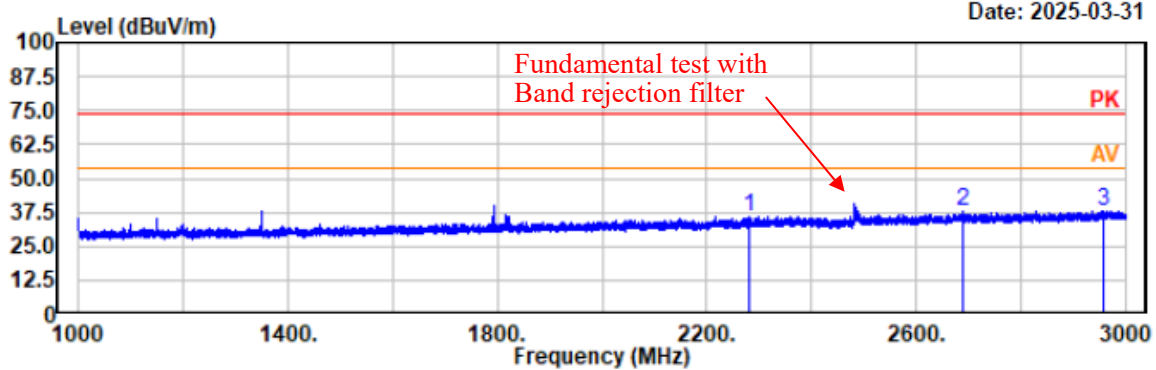
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz

Date: 2025-03-31



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
2282.00	47.27	-11.55	35.72	74.00	38.28	horizontal	Peak
2690.40	48.12	-10.04	38.08	74.00	35.92	horizontal	Peak
2956.20	47.18	-9.18	38.00	74.00	36.00	horizontal	Peak

Project No.: 2507R30441E-RF

Test Mode: 802.11g 2462MHz

EUT Model: KPP-01SS

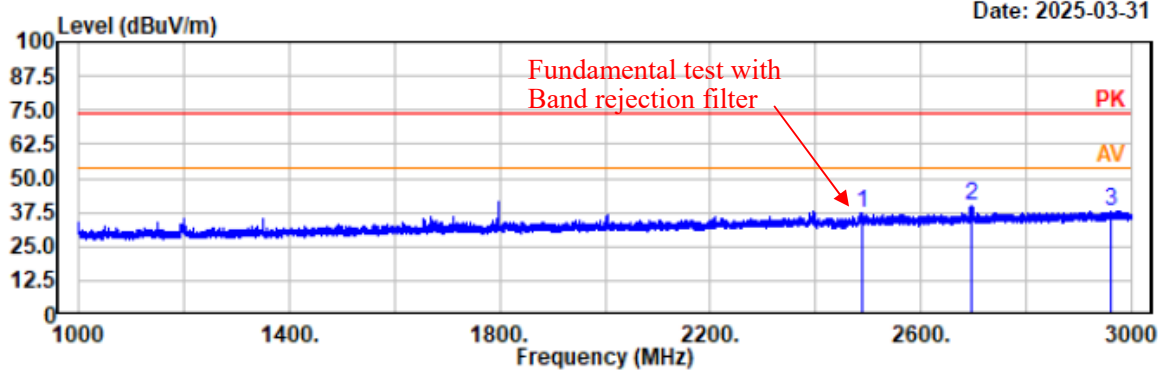
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz

Date: 2025-03-31



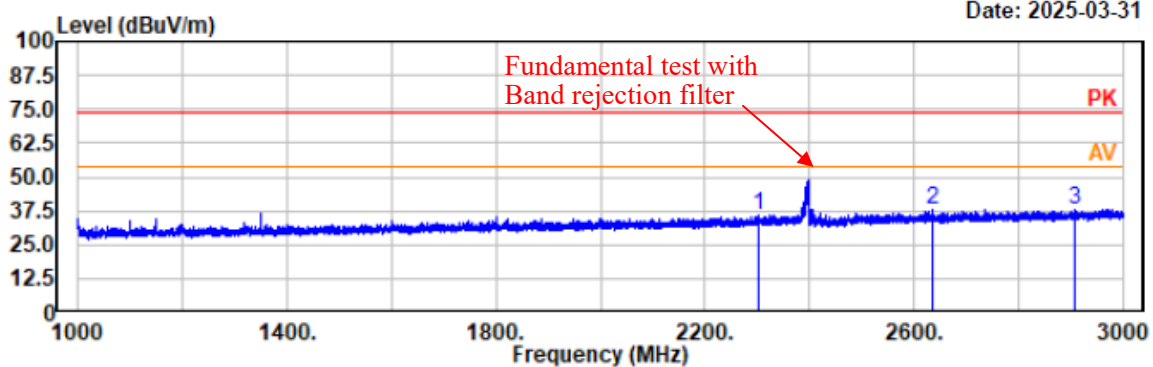
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2490.40	48.31	-10.75	37.56	74.00	36.44	vertical	Peak
2698.00	49.84	-10.01	39.83	74.00	34.17	vertical	Peak
2961.40	47.05	-9.14	37.91	74.00	36.09	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-31

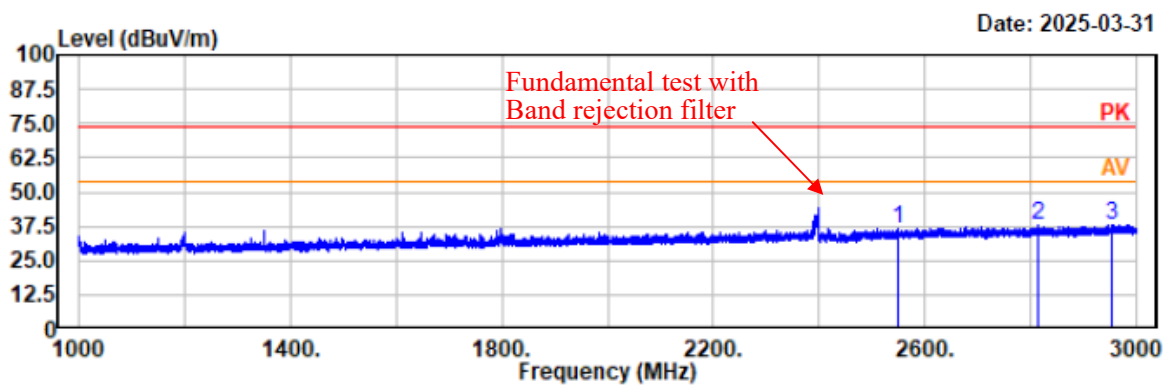


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2303.80	47.16	-11.41	35.75	74.00	38.25	horizontal	Peak
2635.80	48.41	-10.26	38.15	74.00	35.85	horizontal	Peak
2906.80	47.33	-9.50	37.83	74.00	36.17	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

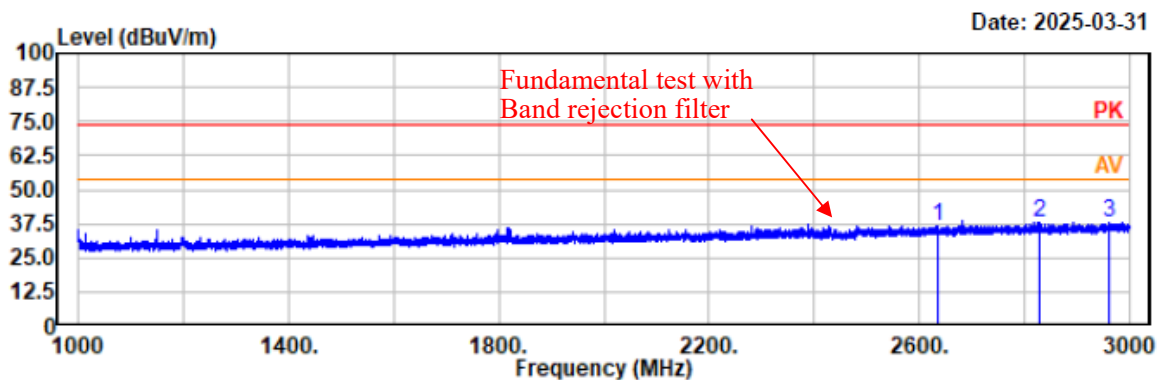


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2548.40	47.41	-10.59	36.82	74.00	37.18	vertical	Peak
2814.00	47.44	-9.74	37.70	74.00	36.30	vertical	Peak
2954.60	47.33	-9.18	38.15	74.00	35.85	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n20 2437MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

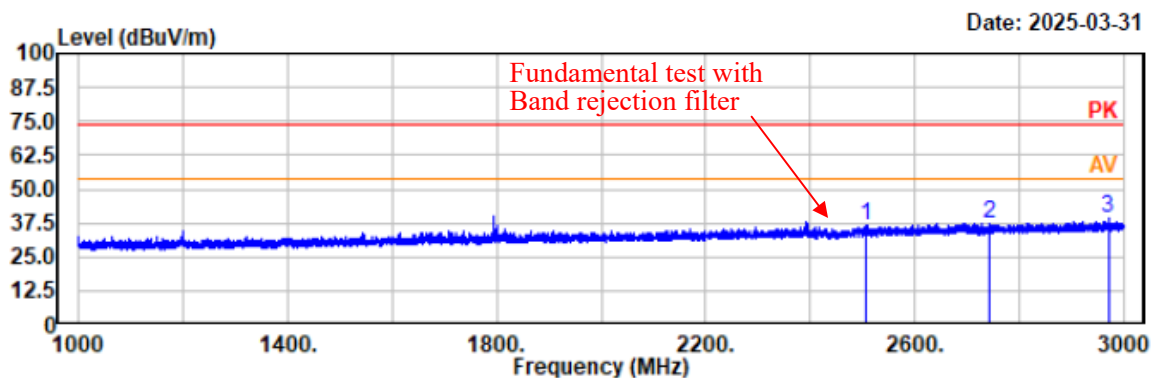


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2636.00	46.87	-10.26	36.61	74.00	37.39	horizontal	Peak
2829.40	47.73	-9.68	38.05	74.00	35.95	horizontal	Peak
2963.00	47.19	-9.14	38.05	74.00	35.95	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n20 2437MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

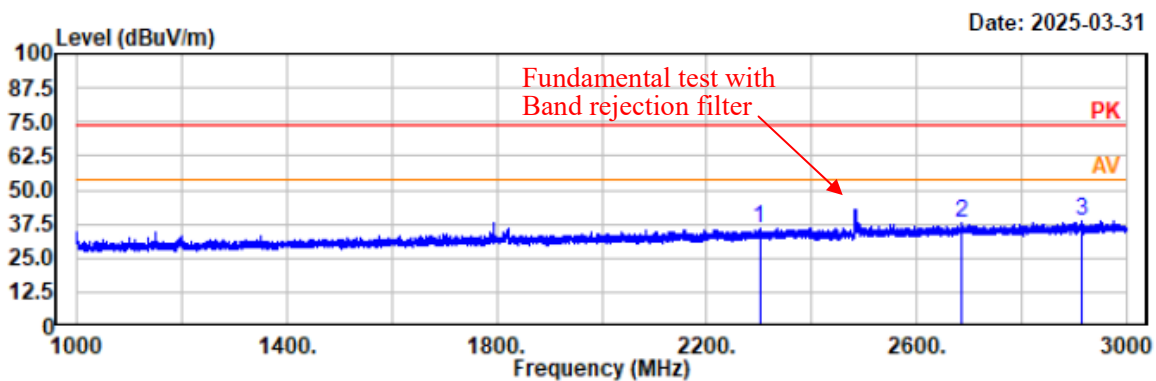


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2505.60	47.02	-10.69	36.33	74.00	37.67	vertical	Peak
2743.00	47.51	-9.95	37.56	74.00	36.44	vertical	Peak
2970.20	48.17	-9.10	39.07	74.00	34.93	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n20 2462MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

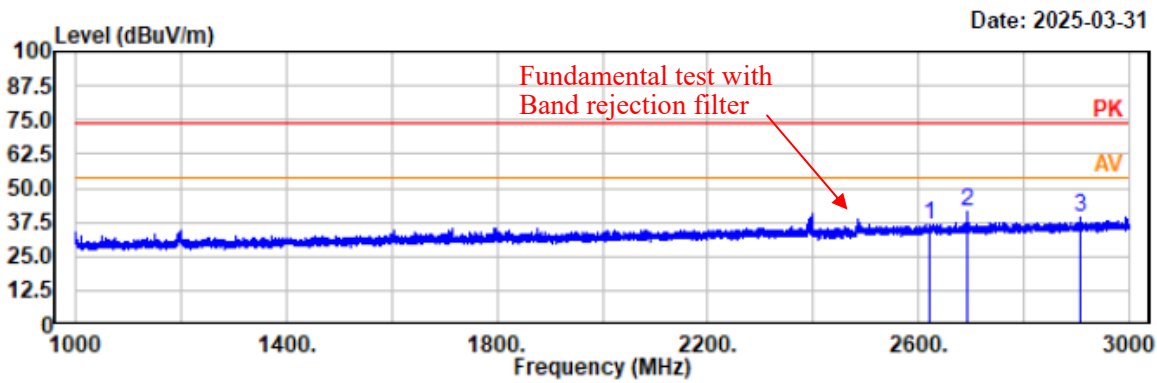


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2300.80	47.16	-11.42	35.74	74.00	38.26	horizontal	Peak
2686.60	47.76	-10.05	37.71	74.00	36.29	horizontal	Peak
2915.80	48.37	-9.45	38.92	74.00	35.08	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n20 2462MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

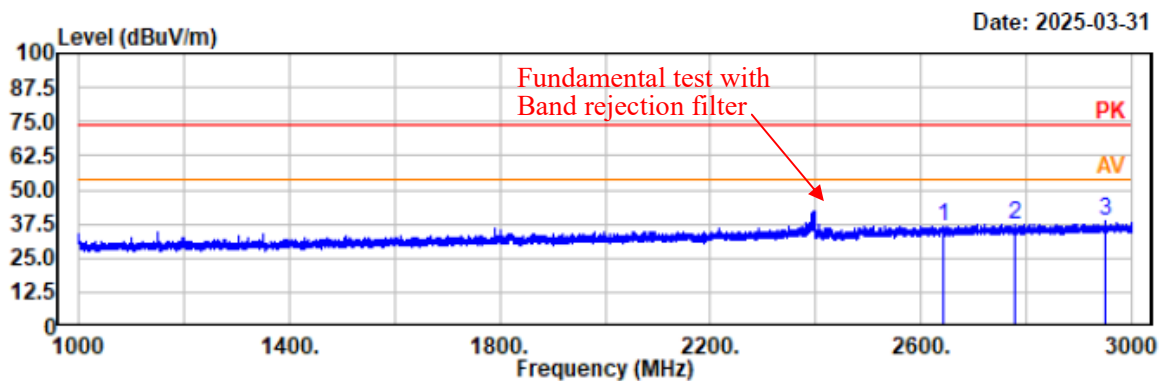


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2620.80	47.11	-10.31	36.80	74.00	37.20	vertical	Peak
2692.40	51.31	-10.03	41.28	74.00	32.72	vertical	Peak
2908.60	48.61	-9.49	39.12	74.00	34.88	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n40 2422MHz
EUT Model: KPP-0155
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

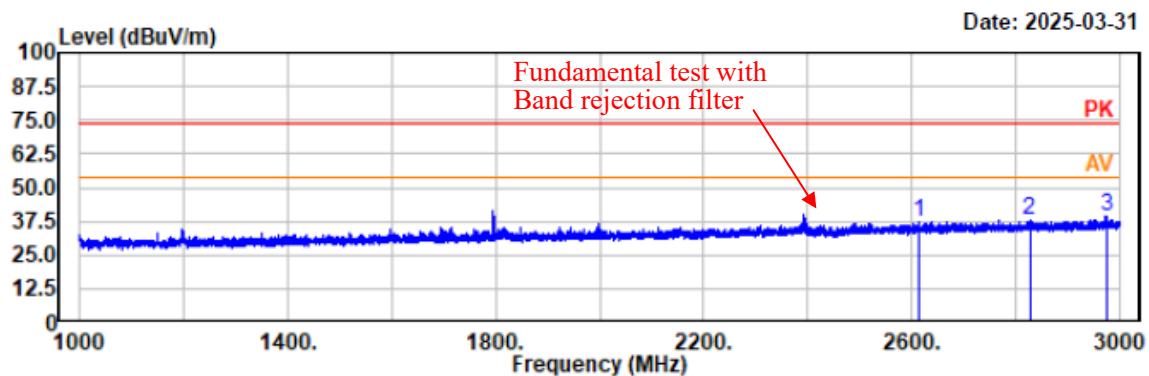


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2643.00	46.99	-10.23	36.76	74.00	37.24	horizontal	Peak
2779.60	46.99	-9.85	37.14	74.00	36.86	horizontal	Peak
2950.60	47.70	-9.20	38.50	74.00	35.50	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n40 2422MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

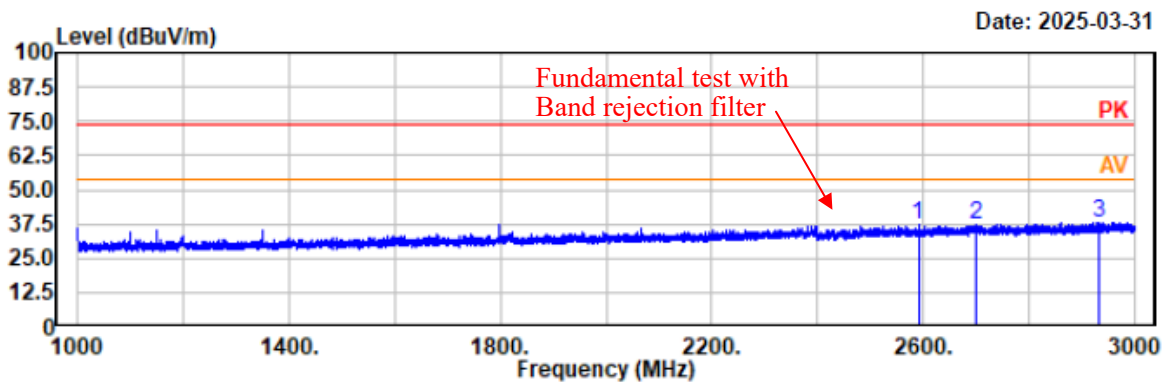


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2614.80	47.74	-10.33	37.41	74.00	36.59	vertical	Peak
2827.00	47.32	-9.69	37.63	74.00	36.37	vertical	Peak
2976.00	48.19	-9.07	39.12	74.00	34.88	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n40 2437MHz
EUT Model: KPP-015S
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

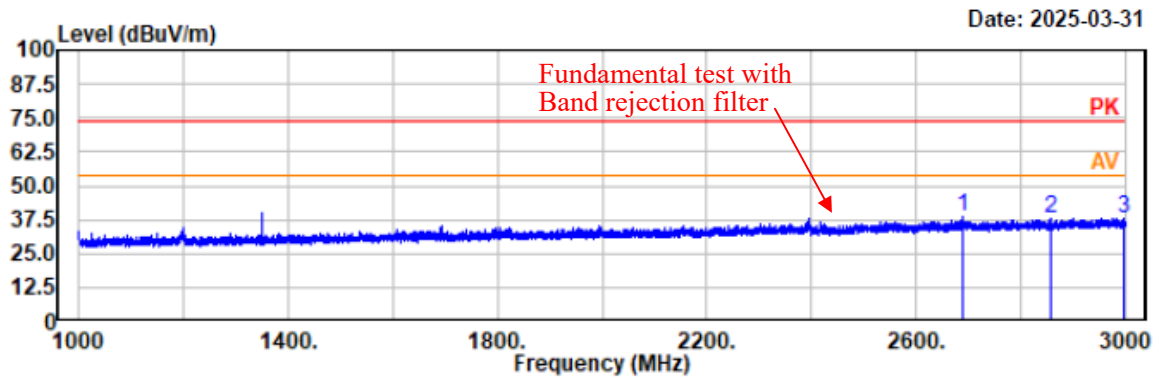


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2590.80	47.35	-10.44	36.91	74.00	37.09	horizontal	Peak
2698.60	47.49	-10.01	37.48	74.00	36.52	horizontal	Peak
2931.20	47.21	-9.33	37.88	74.00	36.12	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n40 2437MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

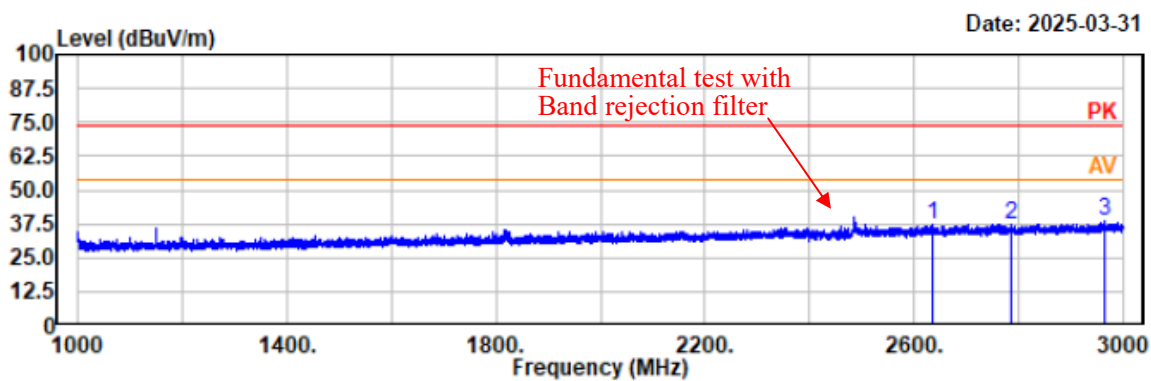


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2689.80	48.84	-10.04	38.80	74.00	35.20	vertical	Peak
2855.80	47.31	-9.61	37.70	74.00	36.30	vertical	Peak
2997.00	46.96	-8.96	38.00	74.00	36.00	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n40 2452MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

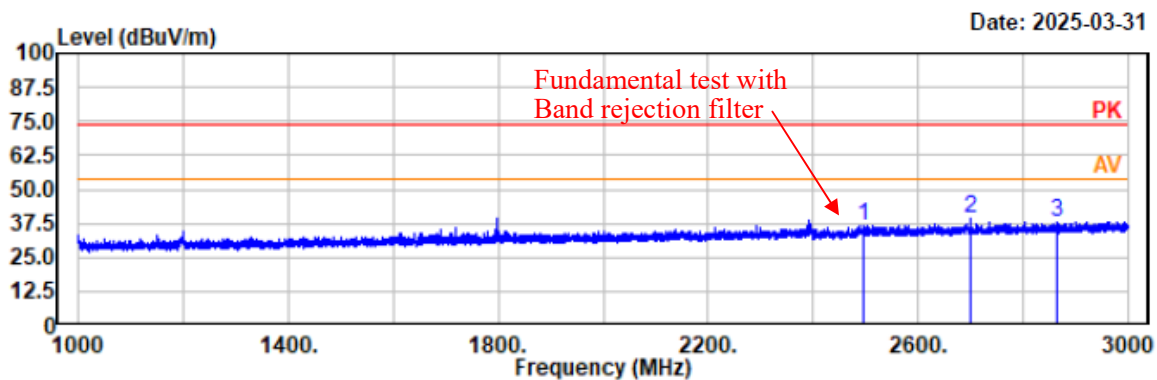


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2637.00	47.44	-10.25	37.19	74.00	36.81	horizontal	Peak
2787.00	47.28	-9.83	37.45	74.00	36.55	horizontal	Peak
2963.80	47.59	-9.13	38.46	74.00	35.54	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n40 2452MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



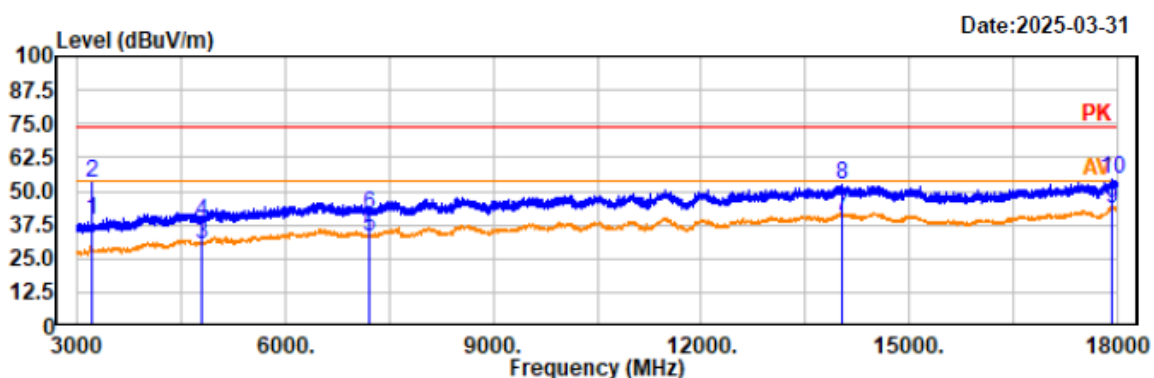
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2494.60	47.51	-10.72	36.79	74.00	37.21	vertical	Peak
2700.80	49.47	-10.00	39.47	74.00	34.53	vertical	Peak
2865.40	47.87	-9.60	38.27	74.00	35.73	vertical	Peak

5) 3GHz~18GHz**For BLE 1Mbps:**

Project No.: 2507R30441E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

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

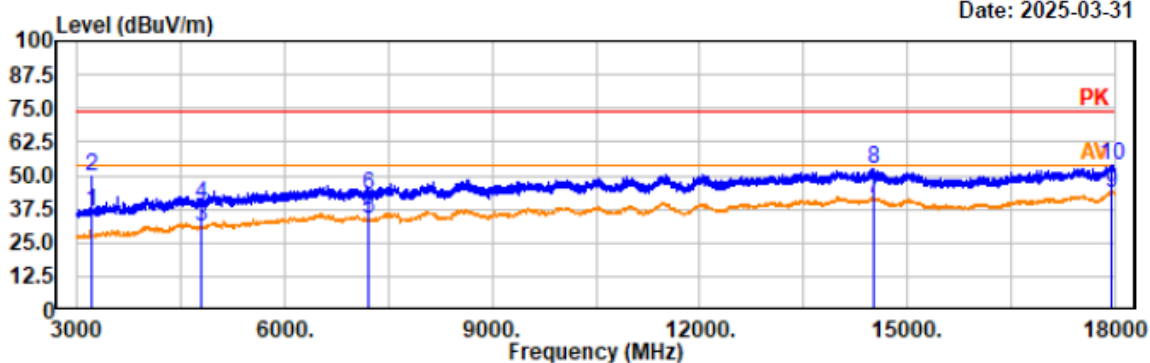
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3200.00	50.50	-8.39	42.11	54.00	11.89	horizontal	Average
3200.00	61.64	-8.39	53.25	74.00	20.75	horizontal	Peak
4804.00	35.46	-5.24	30.22	54.00	23.78	horizontal	Average
4804.00	43.69	-5.24	38.45	74.00	35.55	horizontal	Peak
7206.00	35.98	-2.55	33.43	54.00	20.57	horizontal	Average
7206.00	44.09	-2.55	41.54	74.00	32.46	horizontal	Peak
14037.00	35.78	5.25	41.03	54.00	12.97	horizontal	Average
14037.00	46.95	5.25	52.20	74.00	21.80	horizontal	Peak
17923.50	36.47	6.83	43.30	54.00	10.70	horizontal	Average
17923.50	47.37	6.83	54.20	74.00	19.80	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: BLE 1M 2402MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-31



Trace: 1

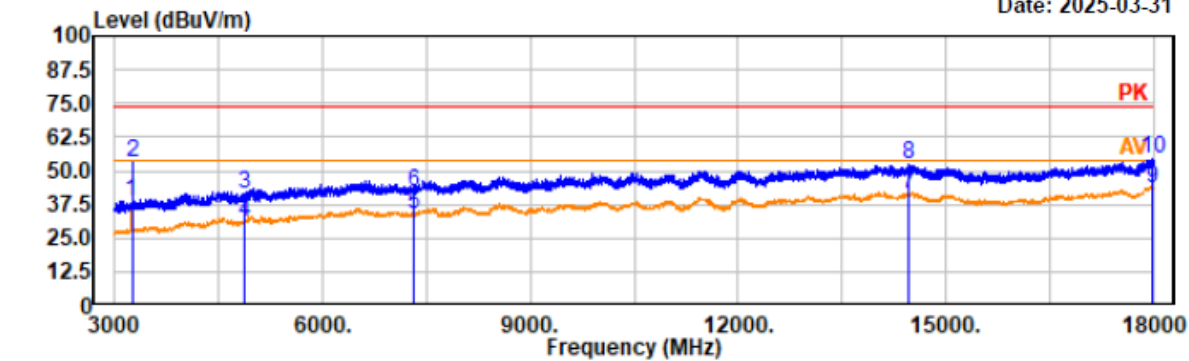
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3200.00	47.62	-8.39	39.23	54.00	14.77	vertical	Average
3200.00	57.79	-8.39	49.40	74.00	24.60	vertical	Peak
4804.00	36.10	-5.24	30.86	54.00	23.14	vertical	Average
4804.00	44.79	-5.24	39.55	74.00	34.45	vertical	Peak
7206.00	36.09	-2.55	33.54	54.00	20.46	vertical	Average
7206.00	45.16	-2.55	42.61	74.00	31.39	vertical	Peak
14509.50	36.30	5.06	41.36	54.00	12.64	vertical	Average
14509.50	47.16	5.06	52.22	74.00	21.78	vertical	Peak
17956.50	36.68	6.87	43.55	54.00	10.45	vertical	Average
17956.50	46.99	6.87	53.86	74.00	20.14	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-31



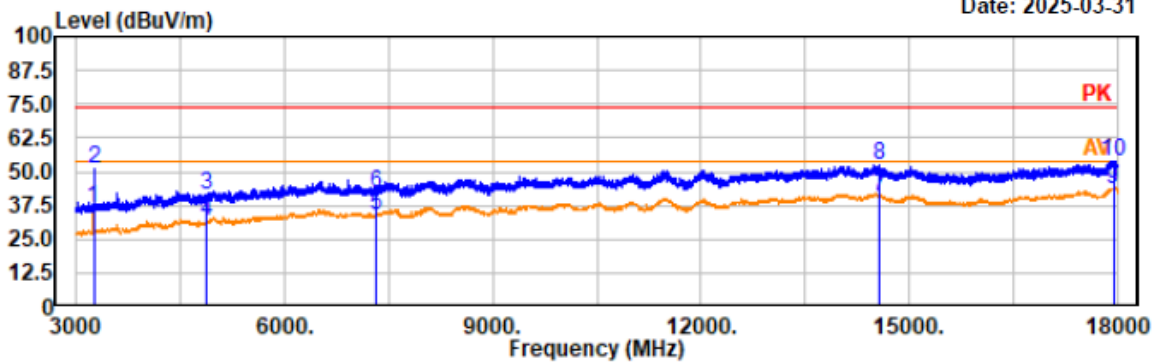
Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3250.00	49.91	-8.30	41.61	54.00	12.39	horizontal	Average
3250.00	61.20	-8.30	52.90	74.00	21.10	horizontal	Peak
4880.00	46.96	-5.30	41.66	74.00	32.34	horizontal	Peak
4880.00	36.34	-5.30	31.04	54.00	22.96	horizontal	Average
7320.00	35.77	-2.25	33.52	54.00	20.48	horizontal	Average
7320.00	44.58	-2.25	42.33	74.00	31.67	horizontal	Peak
14460.00	35.93	5.14	41.07	54.00	12.93	horizontal	Average
14460.00	47.04	5.14	52.18	74.00	21.82	horizontal	Peak
17991.00	36.45	6.90	43.35	54.00	10.65	horizontal	Average
17991.00	47.26	6.90	54.16	74.00	19.84	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: BLE 1M 2440MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-31



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
3250.00	48.70	-8.30	40.40	54.00	13.60	vertical	Average
3250.00	59.27	-8.30	50.97	74.00	23.03	vertical	Peak
4880.00	46.74	-5.30	41.44	74.00	32.56	vertical	Peak
4880.00	37.04	-5.30	31.74	54.00	22.26	vertical	Average
7320.00	35.83	-2.25	33.58	54.00	20.42	vertical	Average
7320.00	44.19	-2.25	41.94	74.00	32.06	vertical	Peak
14556.00	35.91	5.03	40.94	54.00	13.06	vertical	Average
14556.00	47.63	5.03	52.66	74.00	21.34	vertical	Peak
17938.50	36.74	6.84	43.58	54.00	10.42	vertical	Average
17938.50	47.14	6.84	53.98	74.00	20.02	vertical	Peak

Project No.: 2507R30441E-RF

Test Mode: BLE 1M 2480MHz

EUT Model: KPP-01SS

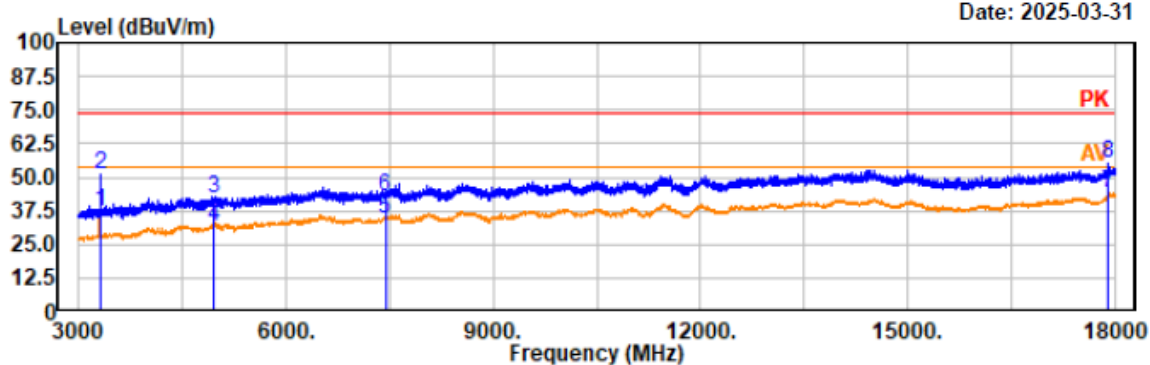
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz

Date: 2025-03-31



Trace: 1

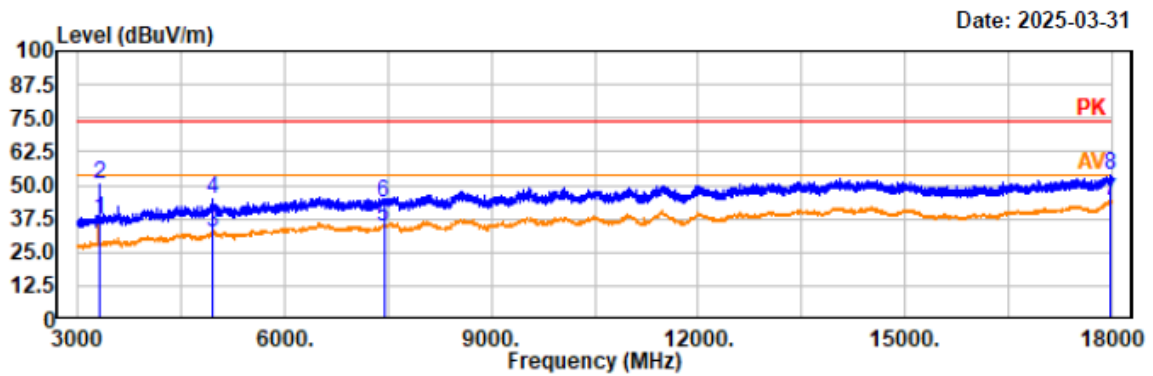
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3306.00	48.61	-8.20	40.41	54.00	13.59	horizontal	Average
3306.00	59.57	-8.20	51.37	74.00	22.63	horizontal	Peak
4960.00	47.40	-5.11	42.29	74.00	31.71	horizontal	Peak
4960.00	36.98	-5.11	31.87	54.00	22.13	horizontal	Average
7440.00	36.46	-2.03	34.43	54.00	19.57	horizontal	Average
7440.00	44.75	-2.03	42.72	74.00	31.28	horizontal	Peak
17899.50	37.12	6.81	43.93	54.00	10.07	horizontal	Average
17899.50	48.27	6.81	55.08	74.00	18.92	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: BLE 1M 2480MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

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

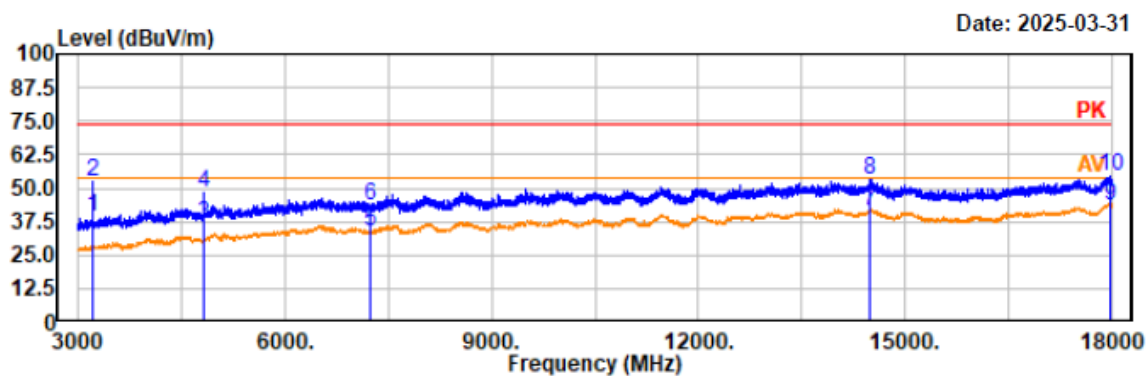
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3306.00	48.31	-8.20	40.11	54.00	13.89	vertical	Average
3306.00	58.61	-8.20	50.41	74.00	23.59	vertical	Peak
4960.00	37.57	-5.11	32.46	54.00	21.54	vertical	Average
4960.00	50.10	-5.11	44.99	74.00	29.01	vertical	Peak
7440.00	36.44	-2.03	34.41	54.00	19.59	vertical	Average
7440.00	45.21	-2.03	43.18	74.00	30.82	vertical	Peak
17982.00	37.50	6.89	44.39	54.00	9.61	vertical	Average
17982.00	47.15	6.89	54.04	74.00	19.96	vertical	Peak

For 2.4G WIFI:

Project No.: 2507R30441E-RF
Test Mode: 802.11b 2412MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

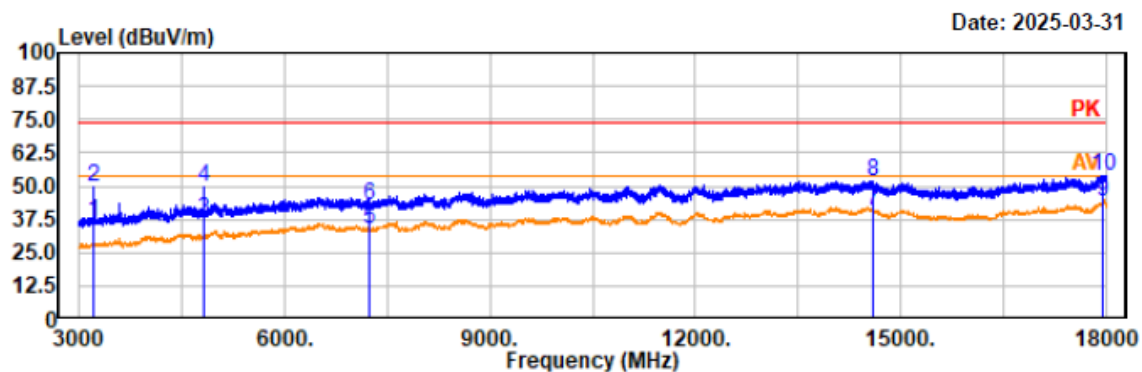
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3214.00	49.40	-8.36	41.04	54.00	12.96	horizontal	Average
3214.00	60.64	-8.36	52.28	74.00	21.72	horizontal	Peak
4824.00	41.79	-5.26	36.53	54.00	17.47	horizontal	Average
4824.00	53.53	-5.26	48.27	74.00	25.73	horizontal	Peak
7236.00	36.44	-2.47	33.97	54.00	20.03	horizontal	Average
7236.00	45.82	-2.47	43.35	74.00	30.65	horizontal	Peak
14493.00	36.18	5.08	41.26	54.00	12.74	horizontal	Average
14493.00	48.10	5.08	53.18	74.00	20.82	horizontal	Peak
17974.50	36.73	6.88	43.61	54.00	10.39	horizontal	Average
17974.50	47.34	6.88	54.22	74.00	19.78	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11b 2412MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/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
3214.00	46.59	-8.36	38.23	54.00	15.77	vertical	Average
3214.00	57.88	-8.36	49.52	74.00	24.48	vertical	Peak
4824.00	42.73	-5.26	37.47	54.00	16.53	vertical	Average
4824.00	54.79	-5.26	49.53	74.00	24.47	vertical	Peak
7236.00	36.10	-2.47	33.63	54.00	20.37	vertical	Average
7236.00	45.07	-2.47	42.60	74.00	31.40	vertical	Peak
14593.50	35.66	5.01	40.67	54.00	13.33	vertical	Average
14593.50	47.05	5.01	52.06	74.00	21.94	vertical	Peak
17962.50	37.33	6.86	44.19	54.00	9.81	vertical	Average
17962.50	47.27	6.86	54.13	74.00	19.87	vertical	Peak

Project No.: 2507R30441E-RF

Test Mode: 802.11b 2437MHz

EUT Model: KPP-01SS

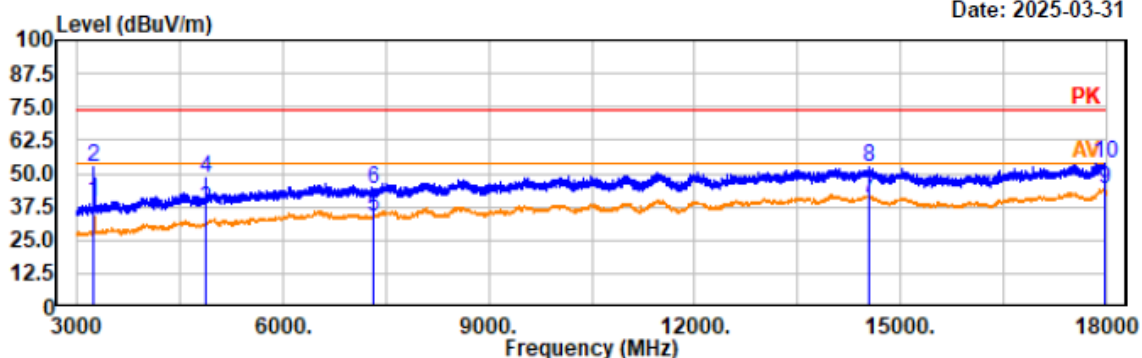
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz

Date: 2025-03-31



Trace: 1

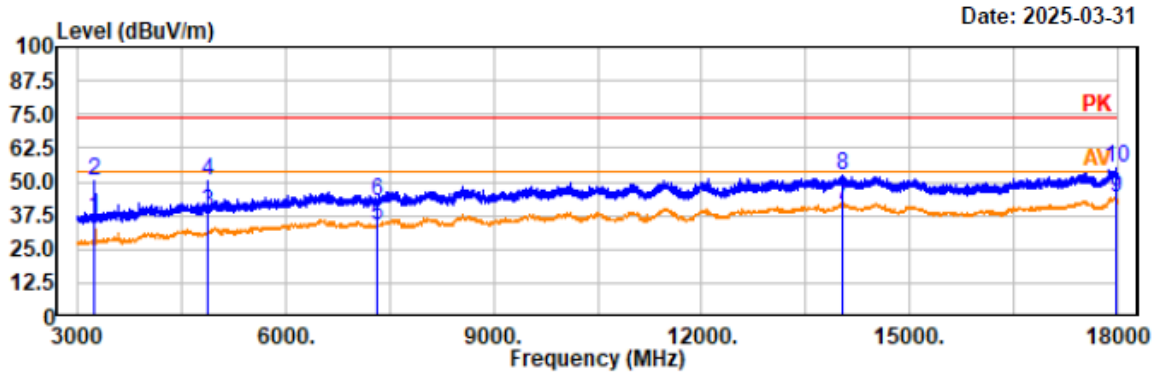
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3247.00	50.41	-8.30	42.11	54.00	11.89	horizontal	Average
3247.00	60.77	-8.30	52.47	74.00	21.53	horizontal	Peak
4874.00	41.66	-5.29	36.37	54.00	17.63	horizontal	Average
4874.00	53.54	-5.29	48.25	74.00	25.75	horizontal	Peak
7311.00	35.77	-2.28	33.49	54.00	20.51	horizontal	Average
7311.00	46.69	-2.28	44.41	74.00	29.59	horizontal	Peak
14542.50	35.80	5.05	40.85	54.00	13.15	horizontal	Average
14542.50	47.37	5.05	52.42	74.00	21.58	horizontal	Peak
17968.50	37.03	6.88	43.91	54.00	10.09	horizontal	Average
17968.50	47.00	6.88	53.88	74.00	20.12	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11b 2437MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

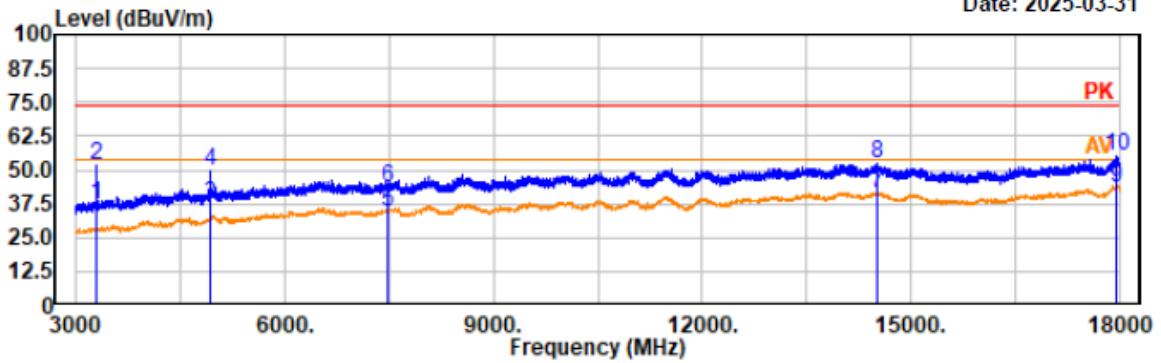
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3247.00	47.88	-8.30	39.58	54.00	14.42	vertical	Average
3247.00	58.36	-8.30	50.06	74.00	23.94	vertical	Peak
4874.00	44.16	-5.29	38.87	54.00	15.13	vertical	Average
4874.00	55.70	-5.29	50.41	74.00	23.59	vertical	Peak
7311.00	36.11	-2.28	33.83	54.00	20.17	vertical	Average
7311.00	44.93	-2.28	42.65	74.00	31.35	vertical	Peak
14034.00	35.79	5.25	41.04	54.00	12.96	vertical	Average
14034.00	47.23	5.25	52.48	74.00	21.52	vertical	Peak
17971.50	37.20	6.88	44.08	54.00	9.92	vertical	Average
17971.50	48.26	6.88	55.14	74.00	18.86	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11b 2462MHz
EUT Model: KPP-015S
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-31



Trace: 1

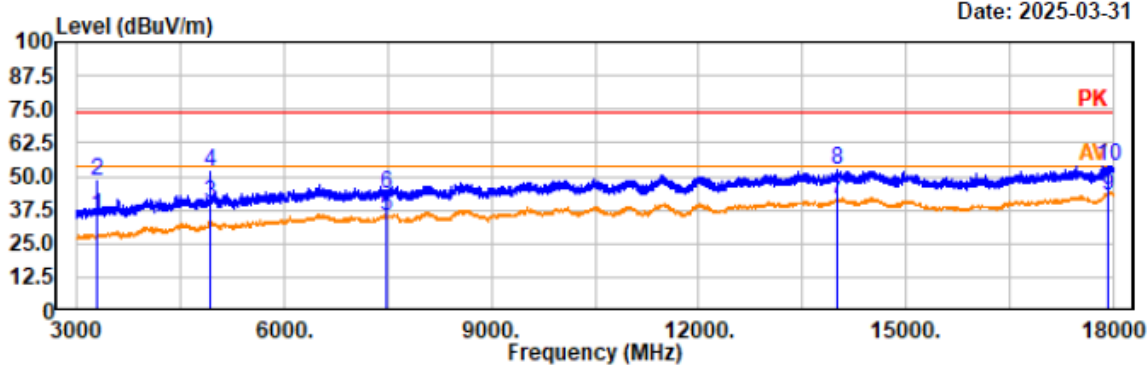
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3280.00	48.60	-8.26	40.34	54.00	13.66	horizontal	Average
3280.00	59.67	-8.26	51.41	74.00	22.59	horizontal	Peak
4924.00	42.79	-5.24	37.55	54.00	16.45	horizontal	Average
4924.00	54.93	-5.24	49.69	74.00	24.31	horizontal	Peak
7486.00	36.64	-1.99	34.65	54.00	19.35	horizontal	Average
7486.00	45.39	-1.99	43.40	74.00	30.60	horizontal	Peak
14512.50	36.41	5.07	41.48	54.00	12.52	horizontal	Average
14512.50	47.14	5.07	52.21	74.00	21.79	horizontal	Peak
17944.50	36.70	6.85	43.55	54.00	10.45	horizontal	Average
17944.50	48.36	6.85	55.21	74.00	18.79	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11b 2462MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-31



Trace: 1

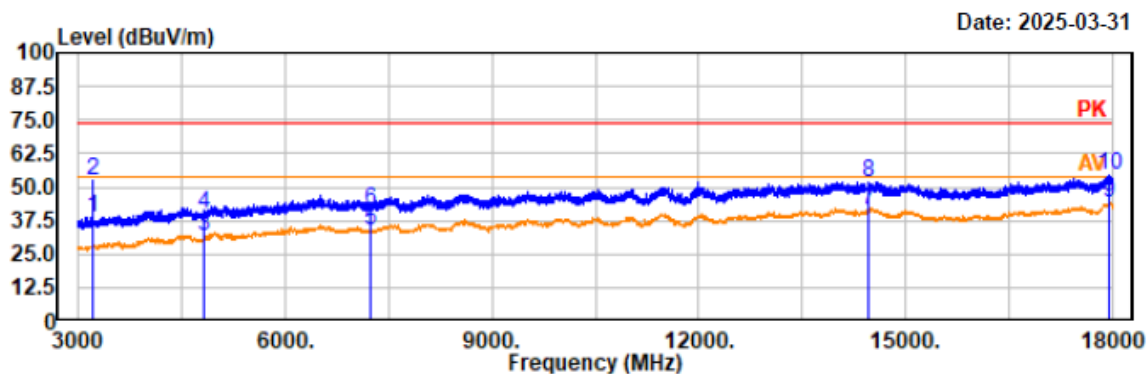
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3280.00	46.30	-8.26	38.04	54.00	15.96	vertical	Average
3280.00	56.44	-8.26	48.18	74.00	25.82	vertical	Peak
4924.00	45.09	-5.24	39.85	54.00	14.15	vertical	Average
4924.00	56.70	-5.24	51.46	74.00	22.54	vertical	Peak
7486.00	36.92	-1.99	34.93	54.00	19.07	vertical	Average
7486.00	45.43	-1.99	43.44	74.00	30.56	vertical	Peak
14004.00	36.09	5.21	41.30	54.00	12.70	vertical	Average
14004.00	47.01	5.21	52.22	74.00	21.78	vertical	Peak
17929.50	36.16	6.84	43.00	54.00	11.00	vertical	Average
17929.50	47.15	6.84	53.99	74.00	20.01	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11g 2412MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

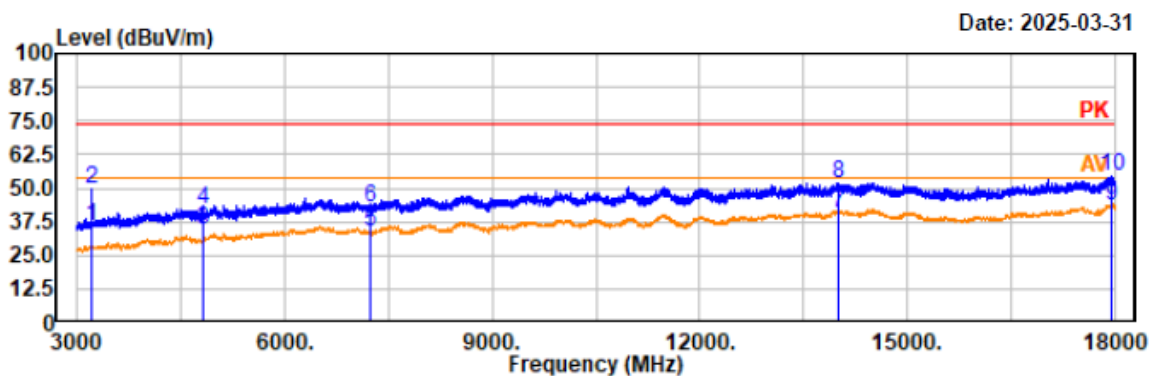
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3214.00	50.20	-8.36	41.84	54.00	12.16	horizontal	Average
3214.00	60.77	-8.36	52.41	74.00	21.59	horizontal	Peak
4824.00	36.82	-5.26	31.56	54.00	22.44	horizontal	Average
4824.00	45.20	-5.26	39.94	74.00	34.06	horizontal	Peak
7236.00	35.96	-2.47	33.49	54.00	20.51	horizontal	Average
7236.00	43.89	-2.47	41.42	74.00	32.58	horizontal	Peak
14472.00	35.98	5.12	41.10	54.00	12.90	horizontal	Average
14472.00	46.86	5.12	51.98	74.00	22.02	horizontal	Peak
17953.50	37.03	6.86	43.89	54.00	10.11	horizontal	Average
17953.50	47.34	6.86	54.20	74.00	19.80	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11g 2412MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

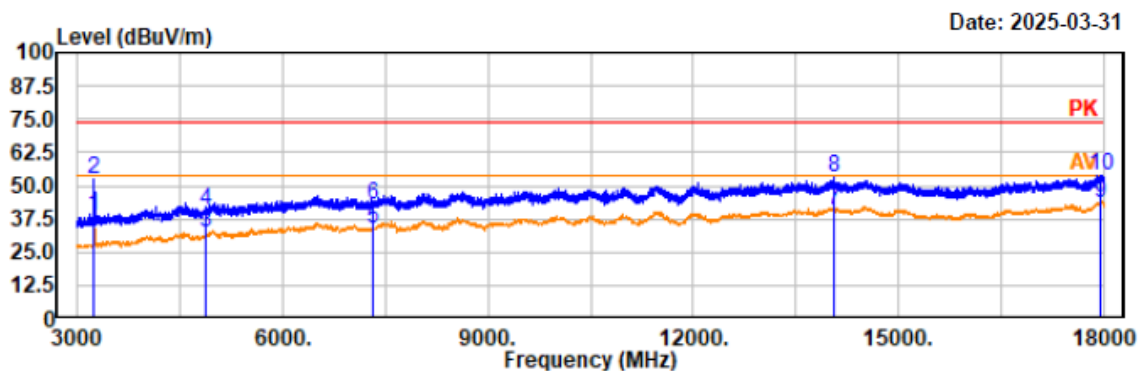
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3214.00	47.34	-8.36	38.98	54.00	15.02	vertical	Average
3214.00	58.10	-8.36	49.74	74.00	24.26	vertical	Peak
4824.00	39.40	-5.26	34.14	54.00	19.86	vertical	Average
4824.00	47.38	-5.26	42.12	74.00	31.88	vertical	Peak
7236.00	36.48	-2.47	34.01	54.00	19.99	vertical	Average
7236.00	45.08	-2.47	42.61	74.00	31.39	vertical	Peak
14005.50	35.52	5.21	40.73	54.00	13.27	vertical	Average
14005.50	46.62	5.21	51.83	74.00	22.17	vertical	Peak
17952.00	36.56	6.86	43.42	54.00	10.58	vertical	Average
17952.00	47.84	6.86	54.70	74.00	19.30	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11g 2437MHz
EUT Model: KPP-0155
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

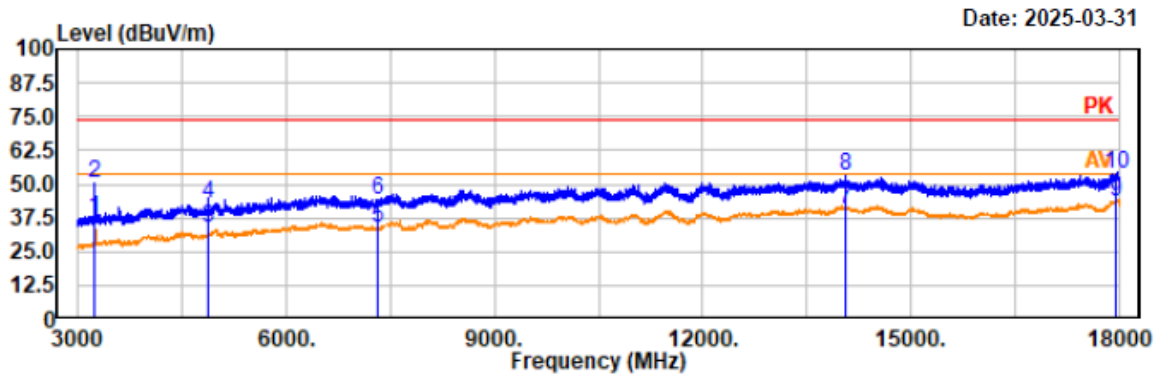
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3247.00	50.15	-8.30	41.85	54.00	12.15	horizontal	Average
3247.00	60.48	-8.30	52.18	74.00	21.82	horizontal	Peak
4874.00	37.94	-5.29	32.65	54.00	21.35	horizontal	Average
4874.00	46.08	-5.29	40.79	74.00	33.21	horizontal	Peak
7311.00	35.89	-2.28	33.61	54.00	20.39	horizontal	Average
7311.00	44.73	-2.28	42.45	74.00	31.55	horizontal	Peak
14061.00	35.57	5.28	40.85	54.00	13.15	horizontal	Average
14061.00	48.06	5.28	53.34	74.00	20.66	horizontal	Peak
17940.00	36.37	6.84	43.21	54.00	10.79	horizontal	Average
17940.00	47.22	6.84	54.06	74.00	19.94	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11g 2437MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



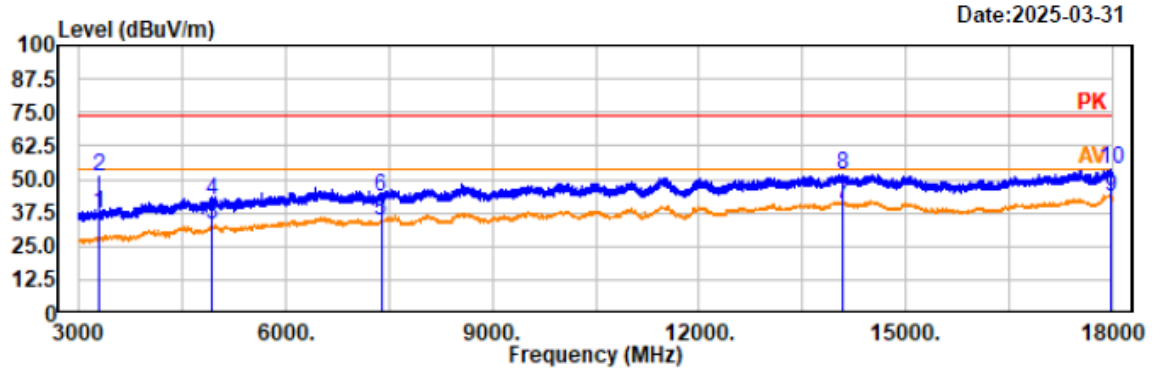
Trace: 1

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
3247.00	48.34	-8.30	40.04	54.00	13.96	vertical	Average
3247.00	58.58	-8.30	50.28	74.00	23.72	vertical	Peak
4874.00	39.21	-5.29	33.92	54.00	20.08	vertical	Average
4874.00	48.08	-5.29	42.79	74.00	31.21	vertical	Peak
7311.00	35.74	-2.28	33.46	54.00	20.54	vertical	Average
7311.00	46.39	-2.28	44.11	74.00	29.89	vertical	Peak
14068.50	35.57	5.29	40.86	54.00	13.14	vertical	Average
14068.50	47.64	5.29	52.93	74.00	21.07	vertical	Peak
17940.00	36.46	6.84	43.30	54.00	10.70	vertical	Average
17940.00	46.94	6.84	53.78	74.00	20.22	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11g 2462MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

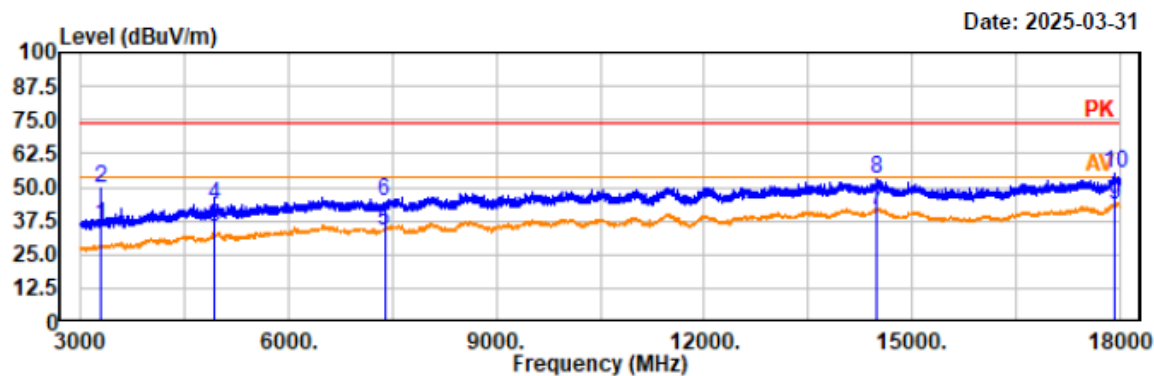
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3280.00	48.84	-8.26	40.58	54.00	13.42	horizontal	Average
3280.00	59.47	-8.26	51.21	74.00	22.79	horizontal	Peak
4924.00	38.68	-5.24	33.44	54.00	20.56	horizontal	Average
4924.00	47.04	-5.24	41.80	74.00	32.20	horizontal	Peak
7386.00	36.30	-2.15	34.15	54.00	19.85	horizontal	Average
7386.00	45.92	-2.15	43.77	74.00	30.23	horizontal	Peak
14091.00	35.60	5.32	40.92	54.00	13.08	horizontal	Average
14091.00	46.61	5.32	51.93	74.00	22.07	horizontal	Peak
17988.00	36.64	6.89	43.53	54.00	10.47	horizontal	Average
17988.00	47.19	6.89	54.08	74.00	19.92	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11g 2462MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

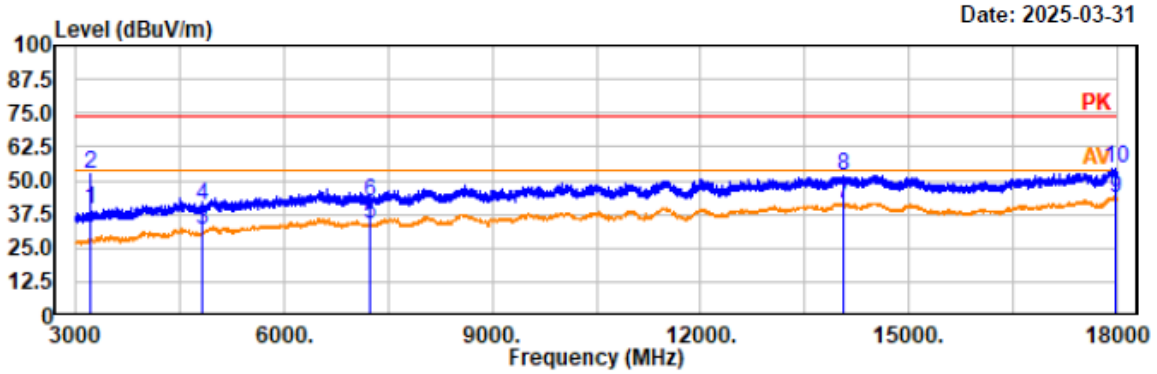
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3280.00	46.86	-8.26	38.60	54.00	15.40	vertical	Average
3280.00	57.65	-8.26	49.39	74.00	24.61	vertical	Peak
4924.00	40.49	-5.24	35.25	54.00	18.75	vertical	Average
4924.00	48.76	-5.24	43.52	74.00	30.48	vertical	Peak
7386.00	36.21	-2.15	34.06	54.00	19.94	vertical	Average
7386.00	47.28	-2.15	45.13	74.00	28.87	vertical	Peak
14496.00	36.48	5.07	41.55	54.00	12.45	vertical	Average
14496.00	47.71	5.07	52.78	74.00	21.22	vertical	Peak
17920.50	36.38	6.83	43.21	54.00	10.79	vertical	Average
17920.50	48.00	6.83	54.83	74.00	19.17	vertical	Peak

Project No.: 2507R30441E-RF
 Test Mode: 802.11n20 2412MHz
 EUT Model: KPP-0155
 Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz



Trace: 1

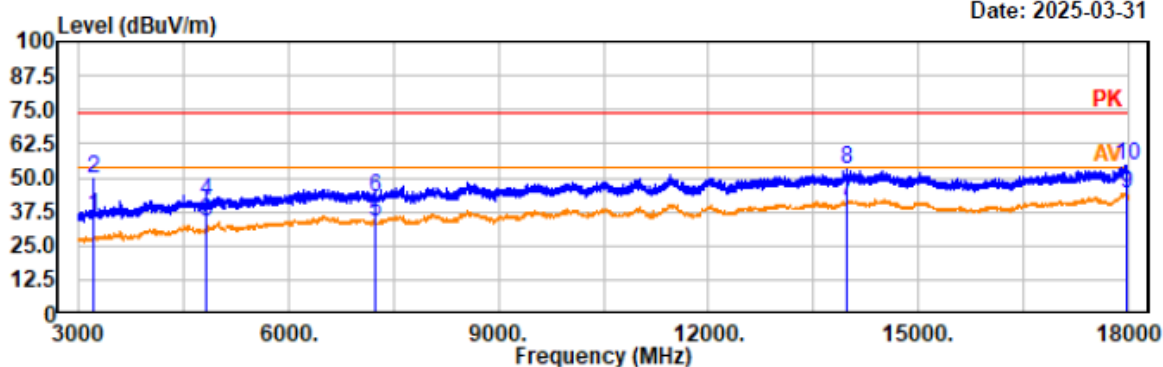
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3214.00	50.36	-8.36	42.00	54.00	12.00	horizontal	Average
3214.00	61.00	-8.36	52.64	74.00	21.36	horizontal	Peak
4824.00	36.68	-5.26	31.42	54.00	22.58	horizontal	Average
4824.00	45.87	-5.26	40.61	74.00	33.39	horizontal	Peak
7236.00	36.59	-2.47	34.12	54.00	19.88	horizontal	Average
7236.00	44.55	-2.47	42.08	74.00	31.92	horizontal	Peak
14050.50	35.94	5.27	41.21	54.00	12.79	horizontal	Average
14050.50	46.67	5.27	51.94	74.00	22.06	horizontal	Peak
17983.50	36.74	6.89	43.63	54.00	10.37	horizontal	Average
17983.50	47.87	6.89	54.76	74.00	19.24	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n20 2412MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-31



Trace: 1

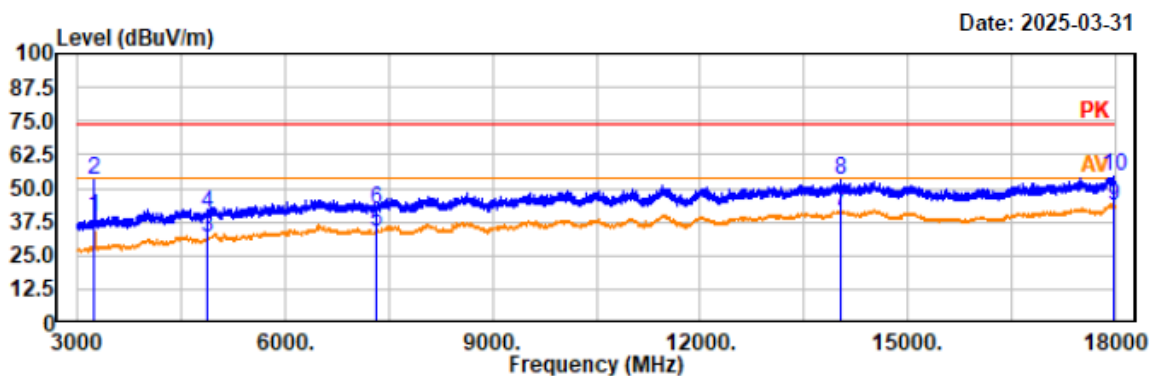
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3214.00	47.44	-8.36	39.08	54.00	14.92	vertical	Average
3214.00	57.88	-8.36	49.52	74.00	24.48	vertical	Peak
4824.00	39.22	-5.26	33.96	54.00	20.04	vertical	Average
4824.00	46.76	-5.26	41.50	74.00	32.50	vertical	Peak
7236.00	36.61	-2.47	34.14	54.00	19.86	vertical	Average
7236.00	44.96	-2.47	42.49	74.00	31.51	vertical	Peak
13977.00	35.85	5.20	41.05	54.00	12.95	vertical	Average
13977.00	47.59	5.20	52.79	74.00	21.21	vertical	Peak
17980.50	37.33	6.89	44.22	54.00	9.78	vertical	Average
17980.50	47.57	6.89	54.46	74.00	19.54	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n20 2437MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Trace: 1

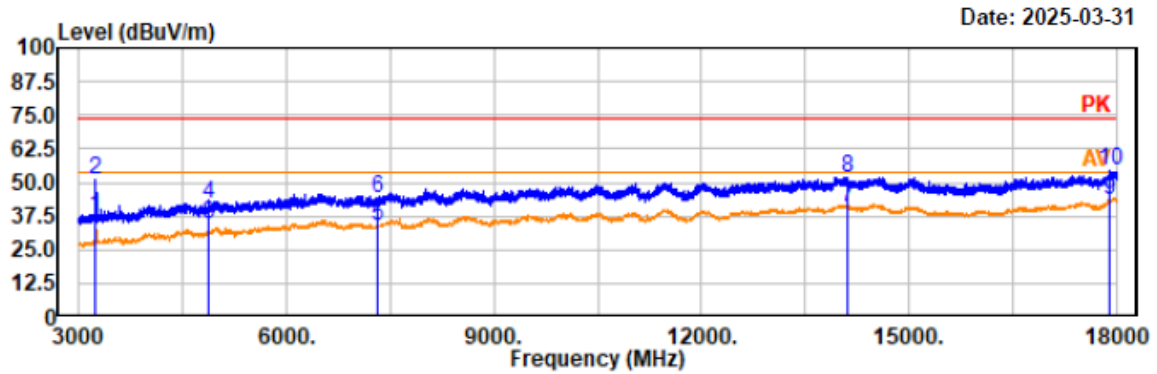
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

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

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3247.00	50.32	-8.30	42.02	54.00	11.98	horizontal	Average
3247.00	61.26	-8.30	52.96	74.00	21.04	horizontal	Peak
4874.00	36.79	-5.29	31.50	54.00	22.50	horizontal	Average
4874.00	46.04	-5.29	40.75	74.00	33.25	horizontal	Peak
7311.00	35.91	-2.28	33.63	54.00	20.37	horizontal	Average
7311.00	44.48	-2.28	42.20	74.00	31.80	horizontal	Peak
14038.50	35.96	5.25	41.21	54.00	12.79	horizontal	Average
14038.50	47.58	5.25	52.83	74.00	21.17	horizontal	Peak
17971.50	36.59	6.88	43.47	54.00	10.53	horizontal	Average
17971.50	47.36	6.88	54.24	74.00	19.76	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n20 2437MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



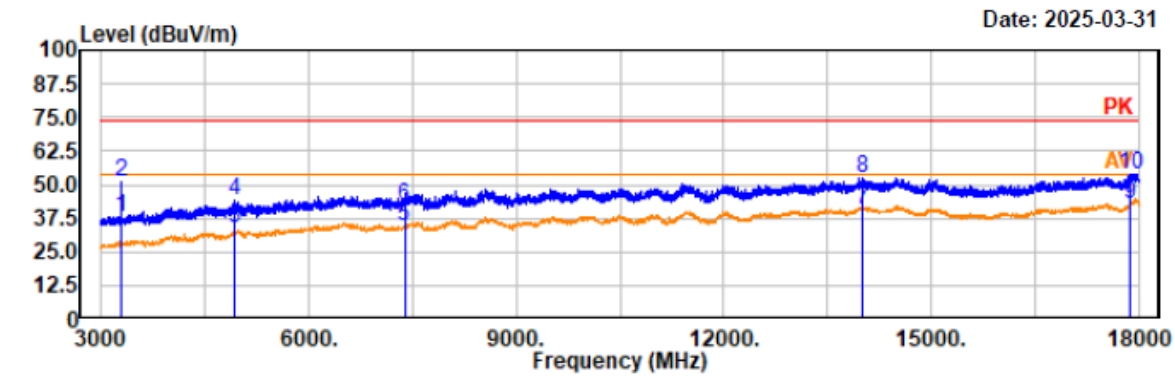
Trace: 1

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
3247.00	48.44	-8.30	40.14	54.00	13.86	vertical	Average
3247.00	59.18	-8.30	50.88	74.00	23.12	vertical	Peak
4874.00	39.44	-5.29	34.15	54.00	19.85	vertical	Average
4874.00	47.05	-5.29	41.76	74.00	32.24	vertical	Peak
7311.00	35.91	-2.28	33.63	54.00	20.37	vertical	Average
7311.00	46.14	-2.28	43.86	74.00	30.14	vertical	Peak
14122.50	35.25	5.34	40.59	54.00	13.41	vertical	Average
14122.50	46.37	5.34	51.71	74.00	22.29	vertical	Peak
17895.00	36.85	6.79	43.64	54.00	10.36	vertical	Average
17895.00	47.47	6.79	54.26	74.00	19.74	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n20 2462MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



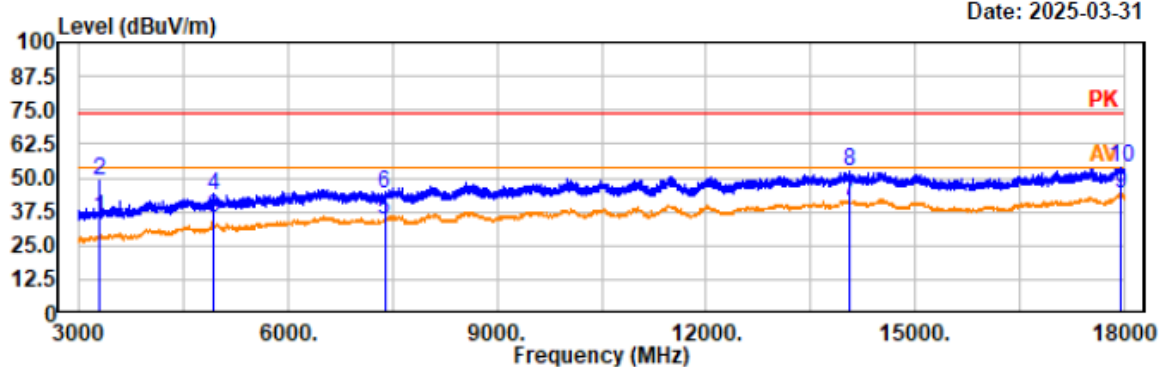
Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3280.00	48.85	-8.26	40.59	54.00	13.41	horizontal	Average
3280.00	59.60	-8.26	51.34	74.00	22.66	horizontal	Peak
4924.00	38.85	-5.24	33.61	54.00	20.39	horizontal	Average
4924.00	49.40	-5.24	44.16	74.00	29.84	horizontal	Peak
7386.00	36.47	-2.15	34.32	54.00	19.68	horizontal	Average
7386.00	44.48	-2.15	42.33	74.00	31.67	horizontal	Peak
14005.50	35.80	5.21	41.01	54.00	12.99	horizontal	Average
14005.50	47.37	5.21	52.58	74.00	21.42	horizontal	Peak
17868.00	36.05	6.70	42.75	54.00	11.25	horizontal	Average
17868.00	47.28	6.70	53.98	74.00	20.02	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n20 2462MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-31



Trace: 1

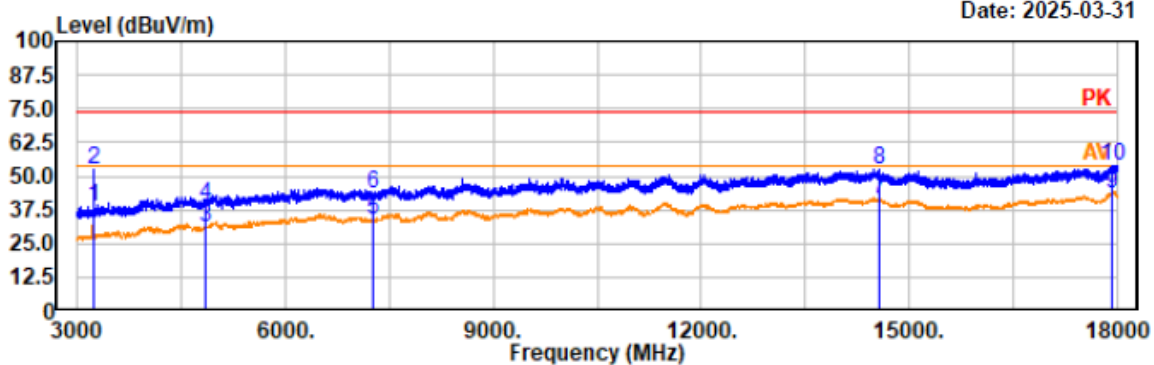
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3280.00	46.45	-8.26	38.19	54.00	15.81	vertical	Average
3280.00	57.06	-8.26	48.80	74.00	25.20	vertical	Peak
4924.00	40.52	-5.24	35.28	54.00	18.72	vertical	Average
4924.00	48.79	-5.24	43.55	74.00	30.45	vertical	Peak
7386.00	36.80	-2.15	34.65	54.00	19.35	vertical	Average
7386.00	46.48	-2.15	44.33	74.00	29.67	vertical	Peak
14059.50	36.08	5.28	41.36	54.00	12.64	vertical	Average
14059.50	46.99	5.28	52.27	74.00	21.73	vertical	Peak
17952.00	37.00	6.86	43.86	54.00	10.14	vertical	Average
17952.00	46.92	6.86	53.78	74.00	20.22	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n40 2422MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-31



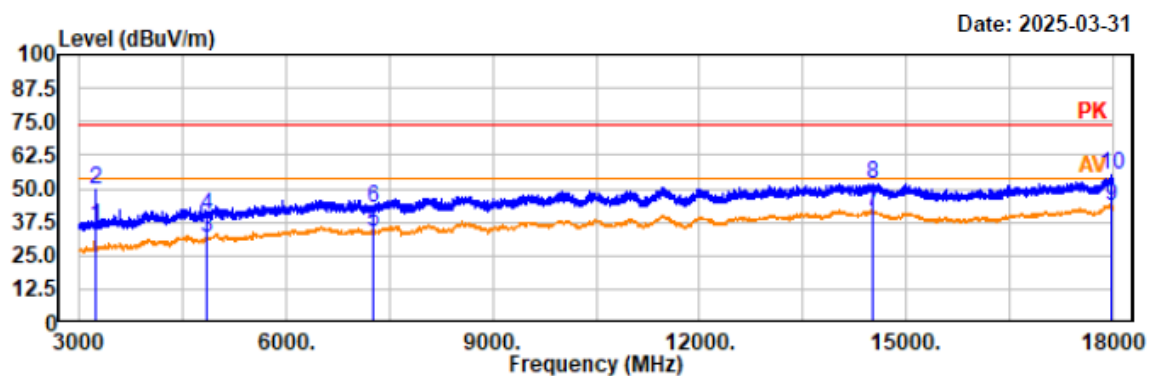
Trace: 1

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
3228.00	49.16	-8.34	40.82	54.00	13.18	horizontal	Average
3228.00	60.80	-8.34	52.46	74.00	21.54	horizontal	Peak
4844.00	36.24	-5.26	30.98	54.00	23.02	horizontal	Average
4844.00	44.30	-5.26	39.04	74.00	34.96	horizontal	Peak
7266.00	36.08	-2.47	33.61	54.00	20.39	horizontal	Average
7266.00	45.65	-2.47	43.18	74.00	30.82	horizontal	Peak
14569.50	36.02	5.03	41.05	54.00	12.95	horizontal	Average
14569.50	47.23	5.03	52.26	74.00	21.74	horizontal	Peak
17920.50	36.43	6.83	43.26	54.00	10.74	horizontal	Average
17920.50	46.96	6.83	53.79	74.00	20.21	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n40 2422MHz
EUT Model: KPP-01SS
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

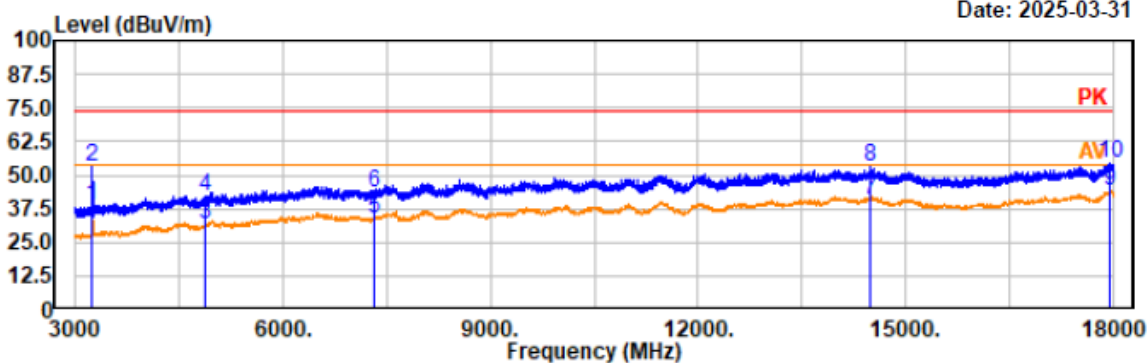


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3228.00	46.26	-8.34	37.92	54.00	16.08	vertical	Average
3228.00	57.88	-8.34	49.54	74.00	24.46	vertical	Peak
4844.00	36.67	-5.26	31.41	54.00	22.59	vertical	Average
4844.00	45.15	-5.26	39.89	74.00	34.11	vertical	Peak
7266.00	36.08	-2.47	33.61	54.00	20.39	vertical	Average
7266.00	45.43	-2.47	42.96	74.00	31.04	vertical	Peak
14511.00	36.64	5.06	41.70	54.00	12.30	vertical	Average
14511.00	46.99	5.06	52.05	74.00	21.95	vertical	Peak
17976.00	36.68	6.89	43.57	54.00	10.43	vertical	Average
17976.00	48.29	6.89	55.18	74.00	18.82	vertical	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n40 2437MHz
EUT Model: KPP-015S
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-31



Trace: 1

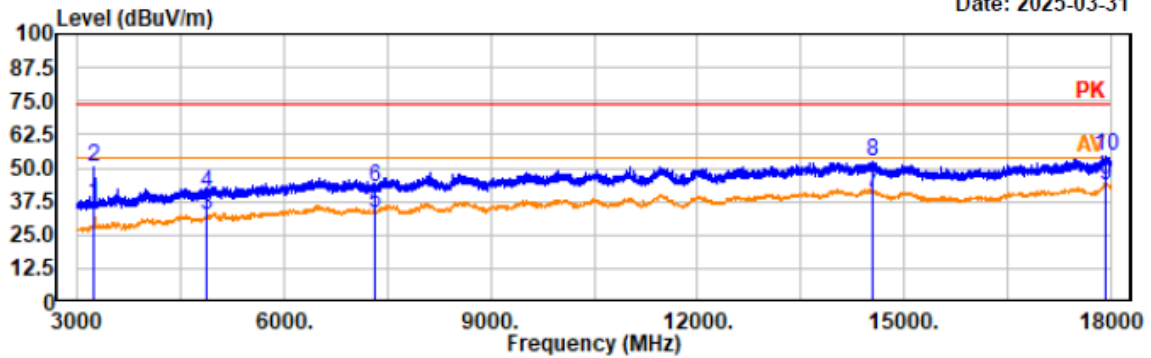
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
3247.00	50.26	-8.30	41.96	54.00	12.04	horizontal	Average
3247.00	61.59	-8.30	53.29	74.00	20.71	horizontal	Peak
4874.00	36.80	-5.29	31.51	54.00	22.49	horizontal	Average
4874.00	47.08	-5.29	41.79	74.00	32.21	horizontal	Peak
7311.00	35.92	-2.28	33.64	54.00	20.36	horizontal	Average
7311.00	45.44	-2.28	43.16	74.00	30.84	horizontal	Peak
14481.00	35.80	5.10	40.90	54.00	13.10	horizontal	Average
14481.00	47.89	5.10	52.99	74.00	21.01	horizontal	Peak
17959.50	37.21	6.86	44.07	54.00	9.93	horizontal	Average
17959.50	47.48	6.86	54.34	74.00	19.66	horizontal	Peak

Project No.: 2507R30441E-RF
Test Mode: 802.11n40 2437MHz
EUT Model: KPP-015S
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-31



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
3247.00	47.84	-8.30	39.54	54.00	14.46	vertical	Average
3247.00	58.43	-8.30	50.13	74.00	23.87	vertical	Peak
4874.00	37.46	-5.29	32.17	54.00	21.83	vertical	Average
4874.00	45.66	-5.29	40.37	74.00	33.63	vertical	Peak
7311.00	35.64	-2.28	33.36	54.00	20.64	vertical	Average
7311.00	44.81	-2.28	42.53	74.00	31.47	vertical	Peak
14541.00	35.70	5.05	40.75	54.00	13.25	vertical	Average
14541.00	47.30	5.05	52.35	74.00	21.65	vertical	Peak
17914.50	36.38	6.81	43.19	54.00	10.81	vertical	Average
17914.50	47.54	6.81	54.35	74.00	19.65	vertical	Peak