



FCC PART 15.247

TEST REPORT

For

Guangzhou Munbyn Information Technology Co., Ltd.

329 3rd Floor, Tairong Business Center, No. 63 Xizeng Road, Liwan District, Guangzhou, China.

FCC ID: 2A5LY-ITP02

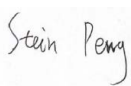

Report Type: Original Report	Product Name: Portable thermal printer
Report Number:	2407T42038E-RF-01
Report Date:	2024-08-08
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2407T42038E-RF-01	R1V1	2024-08-08	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name:	Portable thermal printer
Tested Model:	ITP02
Multiple Model(s):	ITP03, ITP06, ITP07
RF Function:	BLE
Power Supply:	DC 5V from USB port or 7.4V from battery
Maximum Conducted Output Peak Power:	BLE: -2.22dBm
Frequency Range:	BLE: 2402~2480MHz
Modulation Technique:	BLE: GFSK
Antenna Type:	Built-in ceramic antenna
★Maximum Antenna Gain:	1.36 dBi
EUT Received Status:	Good
<i>Note:</i> 1. The Maximum Antenna Gain was declared by manufacturer. 2. The model difference are model name and sale channels, the rest are the same. 3. All measurement and test data in this report was gathered from production sample serial number: 2KXQ-1 (Assigned by the BACL (Xiamen). The EUT supplied by the applicant was received on 20224-05-07)	

Objective

This report is prepared on behalf of Guangzhou Munbyn Information Technology 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, 15.207, 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.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Xiamen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

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

Item		U_{lab}
Radiated Emission	9kHz-30MHz	2.59 dB
	30MHz~200MHz	4.38dB
	200MHz~1GHz	4.50dB
	1GHz~6GHz	4.58 dB
	6GHz-18GHz	5.43 dB
	18GHz~26.5GHz	5.47 dB
AC Power Lines Conducted Emissions	150kHz-30MHz	2.33 dB
Occupied Channel Bandwidth		±0.10MHz
Transmitter Conducted Power(Conducted RF power)		±0.624 dB
Power Spectral Density		±0.61dB
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 was configured for testing in a typical mode (as normally used by a typical user).	
Test mode:	Test mode 1: Transmitting
Test voltage:	Test mode 1: DC 5V from USB port or DC 7.4V 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

BLE test in the engineer mode.

RF Test Tool: BR BlueletSuite_v5.14.exe

★Power Level: 7

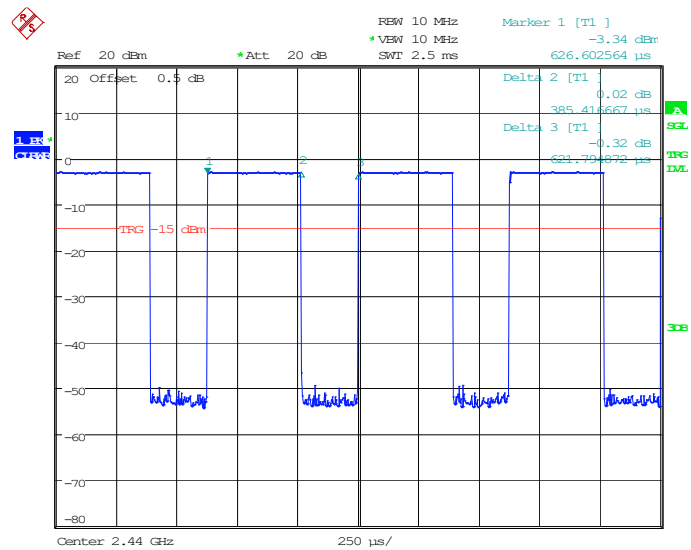
The device was tested with the worst case was performed as below:

Mode	Power level		
	Low channel	Middle channel	High channel
BLE	7	7	7

Duty cycle

Mode	Test Frequency (MHz)	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	VBW Setting (kHz)
BLE	2440	0.385	0.621	62.00	2597	3

BLE: Middle Channel



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Support Equipment List and Details

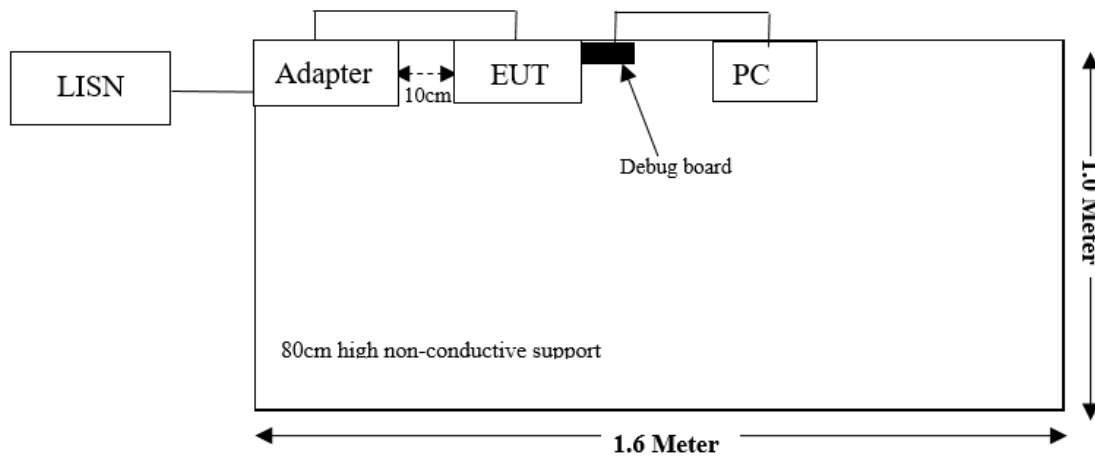
Manufacturer	Description	Model	Serial Number
Lenovo	Lenovo 14w Gen 2	Lenovo 14w Gen 2	PW01PJ6E
HONOTO	Adapter	ADS-12EA-05 05010E	0523
RISYM	Debug board	CH340G	/

External I/O Cable

Cable Description	Length (m)	From Port	To
USB Cable	1.0	PC	Debug board
Adapter Cable	0.5	Adapter	EUT

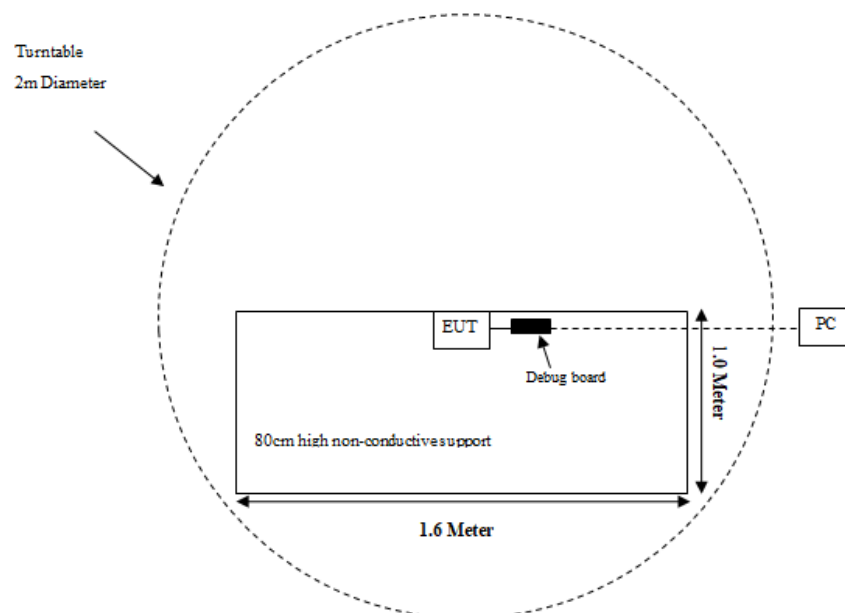
Block Diagram of Test Setup

Conducted Emission:

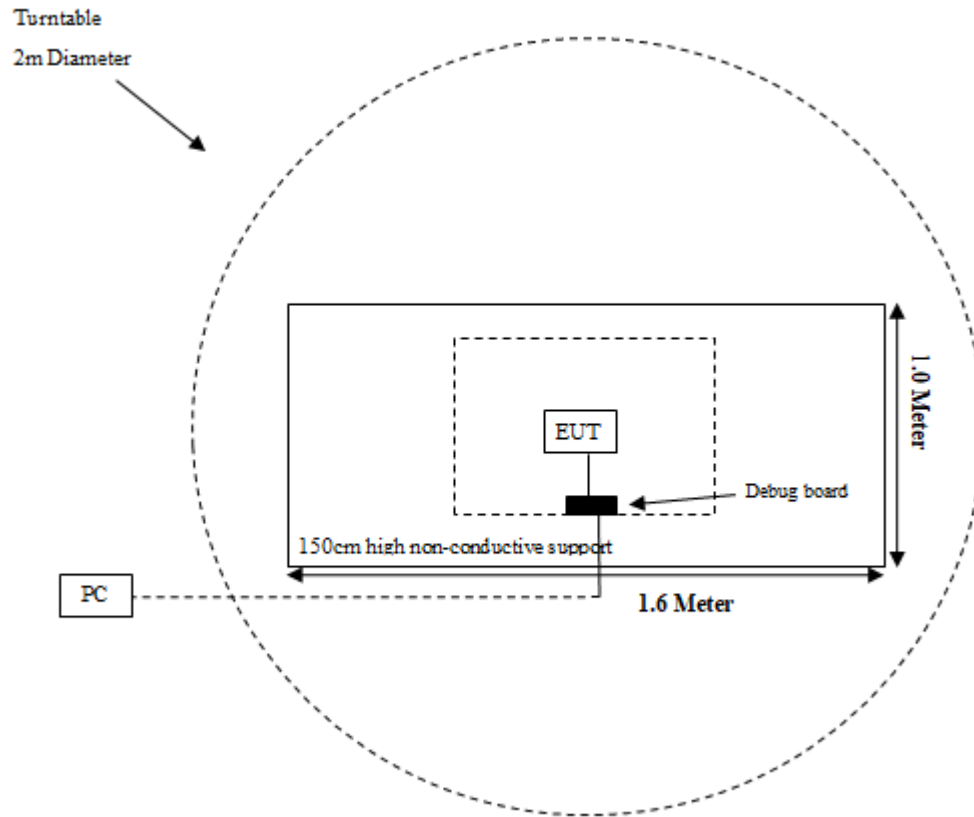


Radiated Emission:

Below 1GHz



Above 1GHz



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	2023/09/12	2024/09/11
LISN	Rohde & Schwarz	ENV216	100129	2023/09/12	2024/09/11
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2023/09/12	2024/09/11
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC001	2023/08/29	2024/08/28
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Below 1 GHz					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2023/09/12	2024/09/11
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	2023/09/12	2024/09/11
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2023/08/29	2024/08/28
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2023/08/29	2024/08/28
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2023/08/29	2024/08/28
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Above 1 GHz					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2023/09/12	2024/09/11
Filter Switch Unit	Decentest	DT7220FSU	DS79904	2024/02/23	2025/02/22
Multiplex Switch Test Control Set	Decentest	DT7220SCU	DS79901	2024/02/23	2025/02/22
Double Ridge Guide Horn Antenna	A.H.Systems	SAS-571	1980	2023/07/28	2026/07/27
Horn Antenna	EMCO	3116	9407-2232	2023/07/31	2026/07/30
Preamplifier	A.H.Systems	PAM-0118P	489	2023/09/12	2024/09/11
Preamplifier	A.H.Systems	PAM-1840	200	2023/09/12	2024/09/11
Coaxial Cable	XINHANGWEIBO	XH800A-N-6M	CC004	2023/08/29	2024/08/28
Coaxial Cable	XINHANGWEIBO	XH800A-N-1M	CC005	2023/08/29	2024/08/28
Test Software	Audix	E3	18621a	N/A	N/A
RF Conducted Test					
Spectrum Analyzer	Rohde & Schwarz	FSU	100405	2023-09-12	2024-09-11
Coaxial Cable	N/A	N/A	N/A	Each time	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 Built-in ceramic antenna arrangement for Bluetooth, which was permanently attached and the antenna gain is 1.36 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

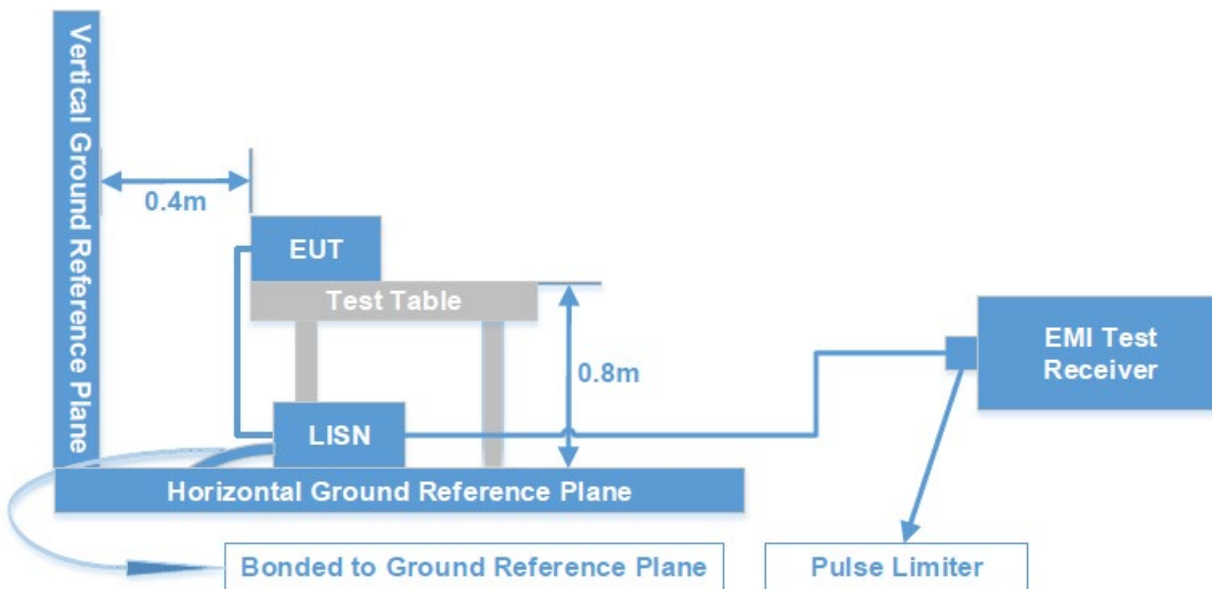
Result: Compliance

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	RBW	VBW	Detector
150 kHz – 30 MHz	9 kHz	30 kHz	QP/AV

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.

Level & Margin Calculation

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

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

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

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

Test Data

EUT operation mode: Transmitting in high channel (worst case)

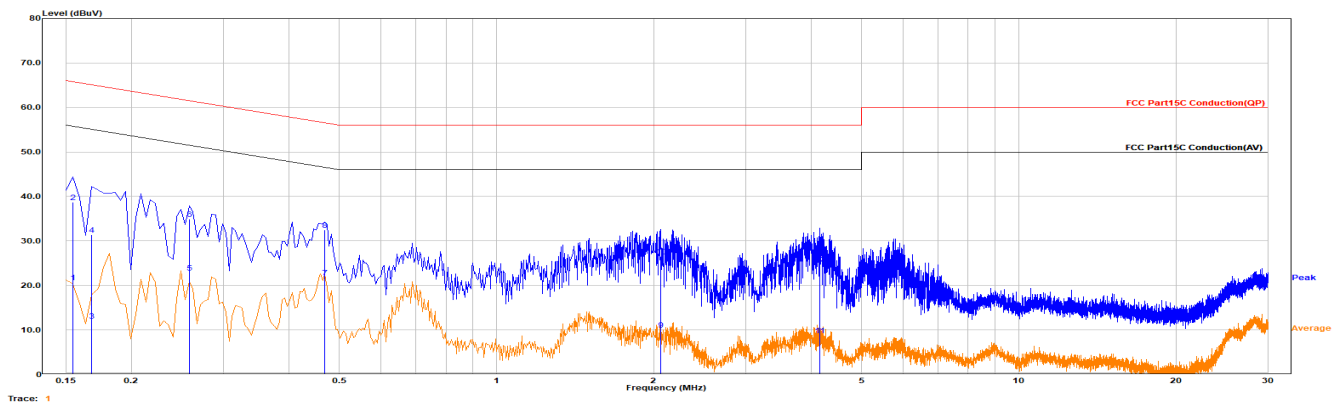
Date: 2024-05-20

Project No. : 2407T42038E-RF

Temp/Humi: 24.8°C/59%

Test Mode: BLE Transmitting

Tested by: Ash Lin



Freq MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Phase	Remark
0.154	1.16	19.5	20.66	55.75	35.09	Line	Average
0.154	19.19	19.5	38.69	65.75	27.06	Line	QP
0.168	-7.39	19.51	12.11	55.06	42.95	Line	Average
0.168	11.92	19.51	31.43	65.06	33.63	Line	QP
0.258	3.39	19.55	22.94	51.5	28.56	Line	Average
0.258	15.39	19.55	34.93	61.5	26.57	Line	QP
0.469	2.16	19.61	21.76	46.52	24.76	Line	Average
0.469	12.85	19.61	32.45	56.52	24.07	Line	QP
2.062	-9.59	19.64	10.05	46	35.95	Line	Average
2.062	6.94	19.64	26.58	56	29.42	Line	QP
4.159	-10.86	19.63	8.77	46	37.23	Line	Average
4.159	5.32	19.63	24.95	56	31.05	Line	QP

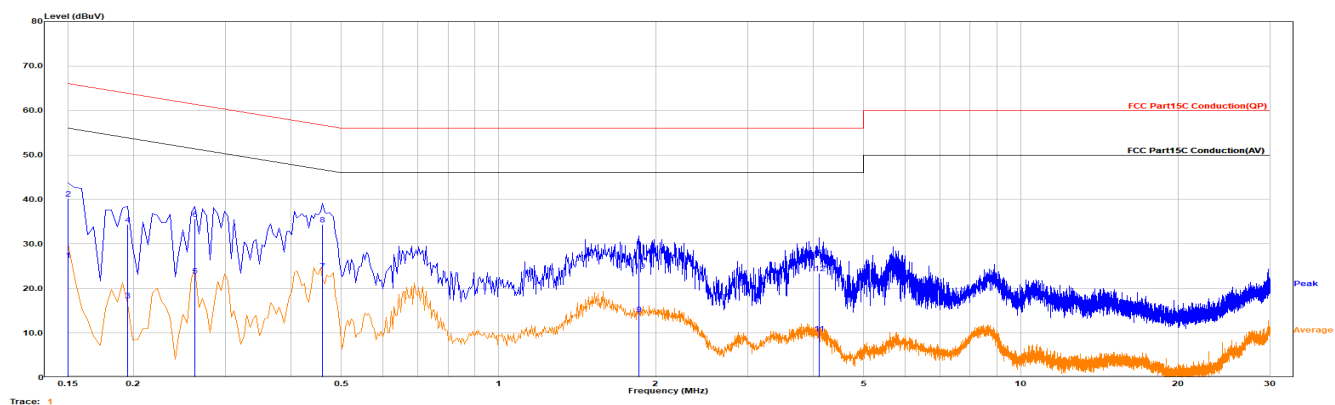
Date: 2024-05-20

Project No. : 2407T42038E-RF

Temp/Humi : 24.8°C/59%

Test Mode: BLE Transmit

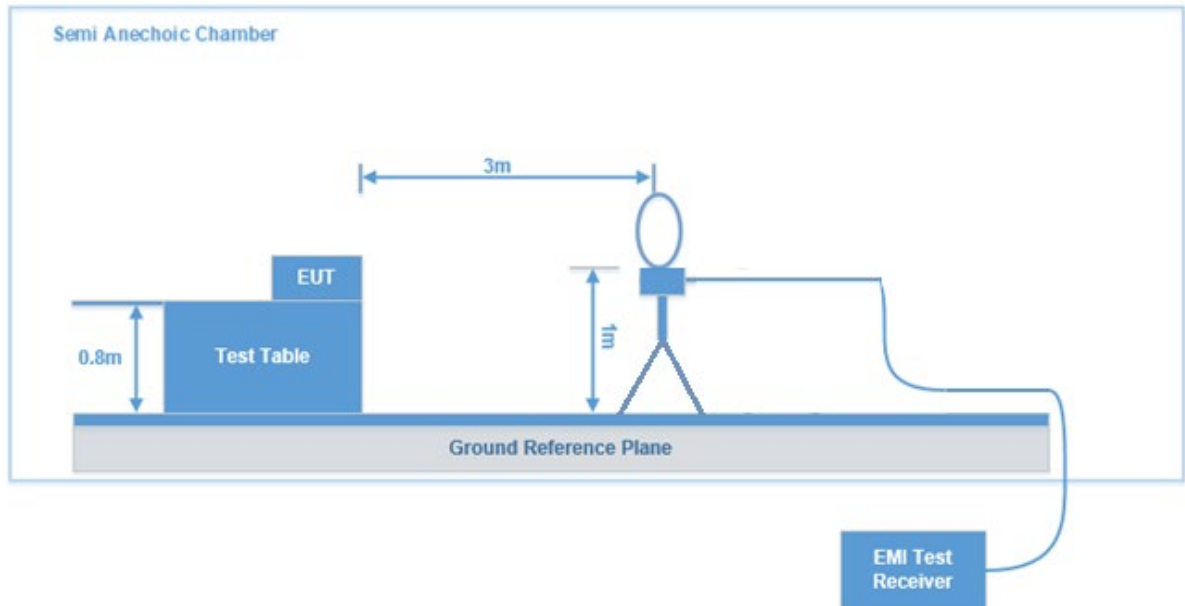
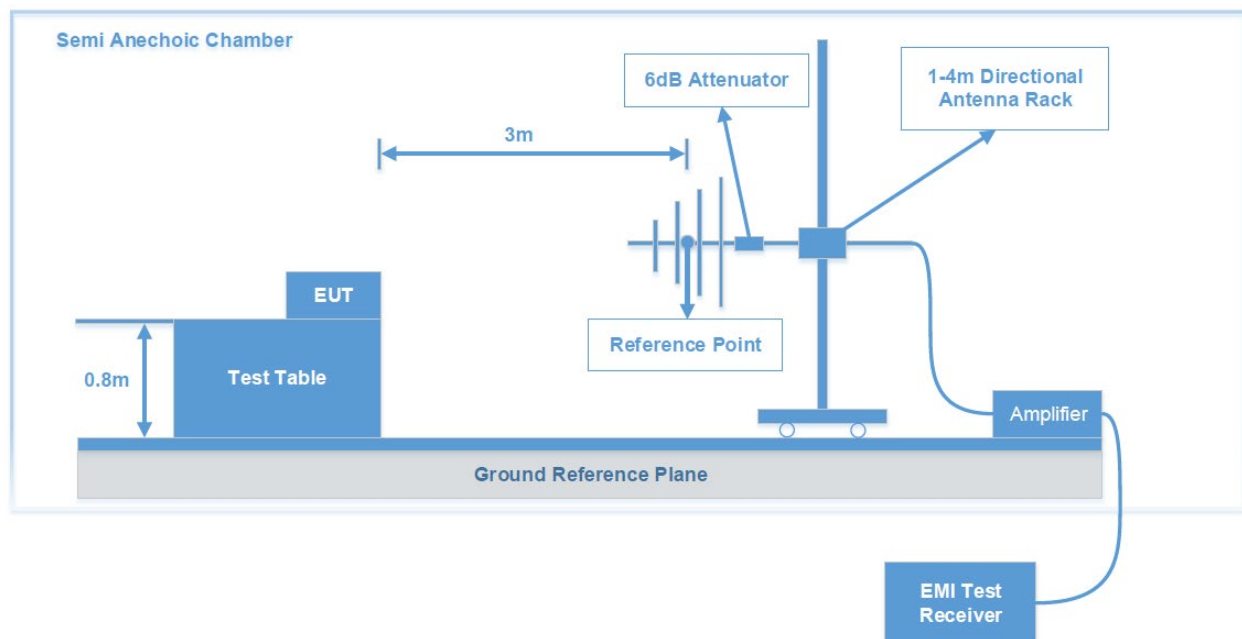
Tested by : Ash Lin

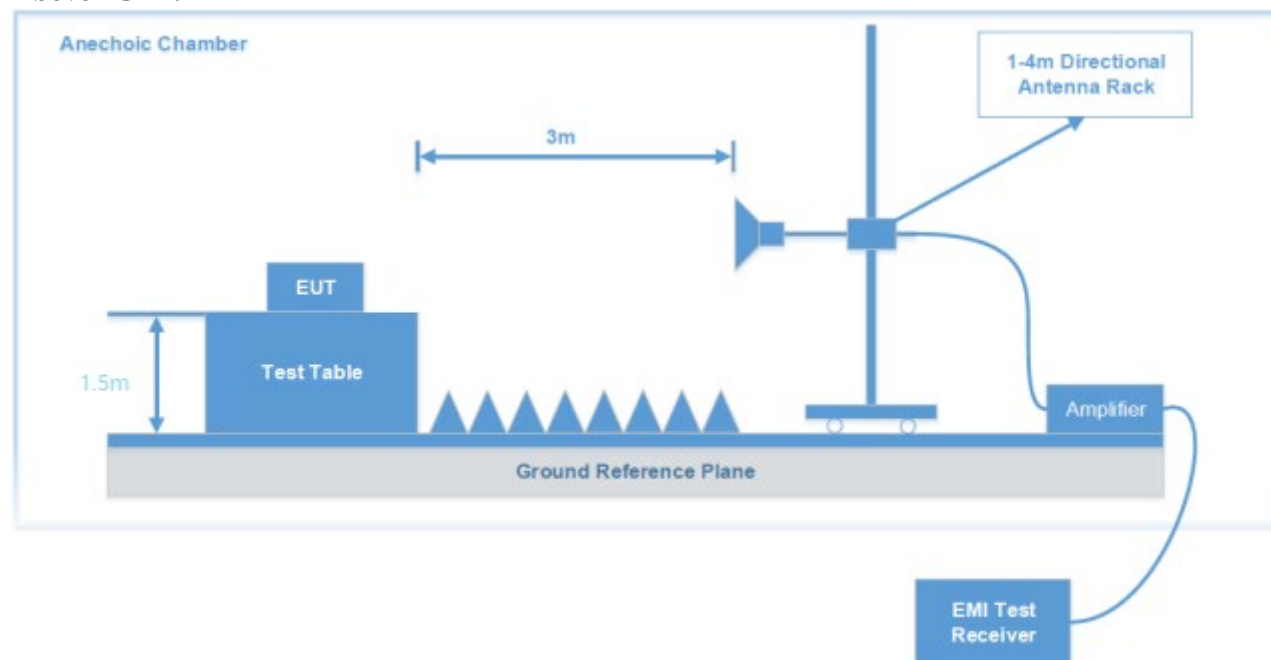


Freq MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBμV	Margin dB	Phase	Remark
0.15	6.91	19.49	26.41	56	29.59	Neutral	Average
0.15	20.73	19.49	40.22	66	25.78	Neutral	QP
0.195	-2.17	19.51	17.34	53.82	36.48	Neutral	Average
0.195	14.94	19.51	34.45	63.82	29.37	Neutral	QP
0.262	3.28	19.55	22.83	51.35	28.52	Neutral	Average
0.262	16.02	19.55	35.57	61.35	25.78	Neutral	QP
0.46	4.36	19.6	23.96	46.68	22.72	Neutral	Average
0.46	14.72	19.6	34.33	56.68	22.35	Neutral	QP
1.855	-5.43	19.64	14.21	46	31.79	Neutral	Average
1.855	4.36	19.64	24	56	32	Neutral	QP
4.114	-9.77	19.63	9.85	46	36.15	Neutral	Average
4.114	3.77	19.63	23.4	56	32.6	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 were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

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

Above 1GHz:

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

Test Procedure

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

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

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.”

Level & Margin Calculation

The Level 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:

$$\begin{aligned}\text{Factor (dB/m)} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)} \\ \text{Level (dB}\mu\text{V/m)} &= \text{Reading (dB}\mu\text{V)} + \text{Factor (dB/m)}\end{aligned}$$

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

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

Test Data

Please refer to the below table and plots.

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

Frequency Range:	Below 1 GHz	Above 1 GHz
Temperature:	24°C	20.5°C~21.3°C
Relative Humidity:	53 %	51%~56%
ATM Pressure:	101.1kPa	101.0kPa~101.1kPa
Test Date:	2024-05-16	2024-05-16~2024-08-08
Test Engineer:	Stein Peng	Stein Peng, Wlif Wu

1) 9 kHz~30MHz

EUT operation mode: Transmitting in the high channel (2480MHz) (worst case)

Pre-scan in parallel, ground-parallel and perpendicular of orientation of loop antenna, the amplitude of spurious emissions attenuated is more than 20 dB below the permissible value, which is not required to be report.

2) 30 MHz-1GHz

EUT operation mode: Transmitting in the high channel (2480MHz) in Z-axis of orientation (worst case)

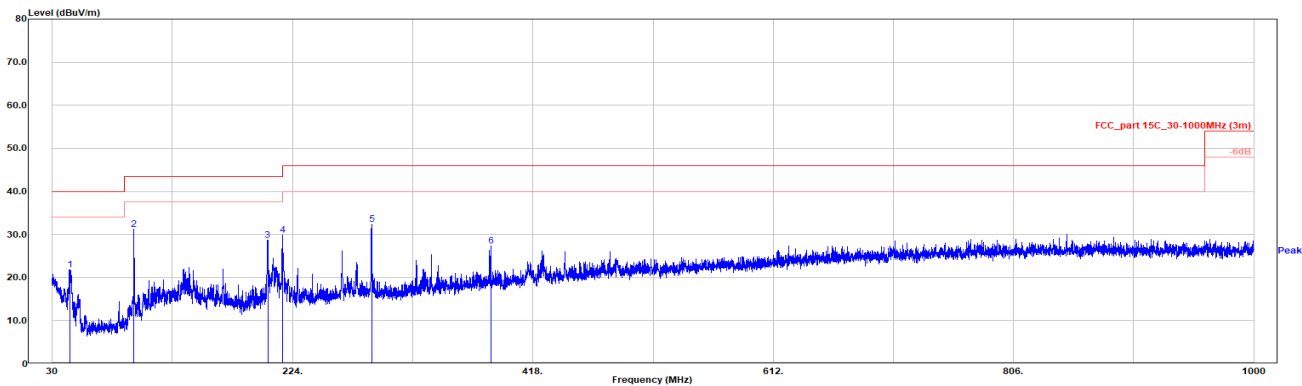
Date: 2024-05-16

Project No. : 2407T42038E-RF

Temp/Humi: 24.0°C/53%

Test Mode: Transmit

Tested by: Stein Peng

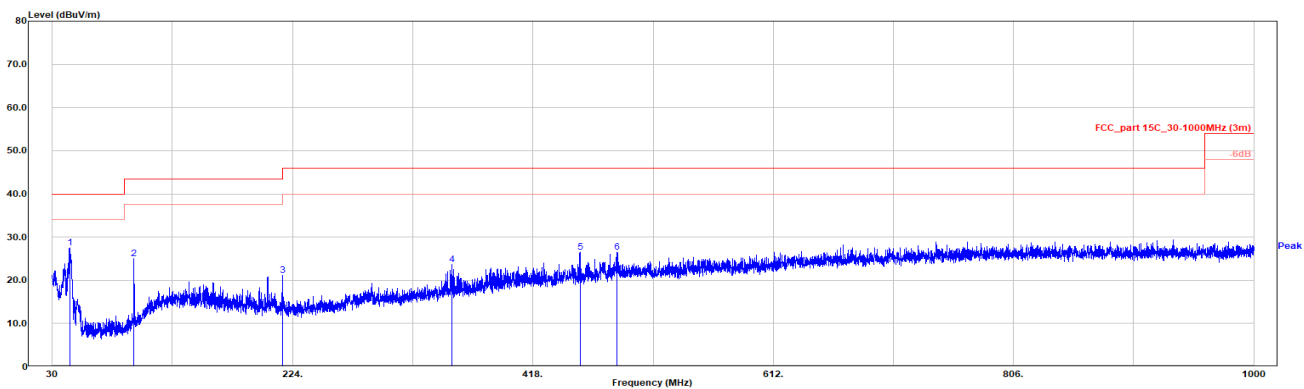


Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol	Remark
44.356	36.62	-14.80	21.82	40.00	18.18	Horizontal	Peak
95.960	47.39	-16.13	31.26	43.50	12.24	Horizontal	Peak
203.921	40.66	-11.99	28.67	43.50	14.83	Horizontal	Peak
216.046	42.59	-12.68	29.91	46.00	16.09	Horizontal	Peak
288.020	41.59	-9.25	32.34	46.00	13.66	Horizontal	Peak
384.050	34.20	-6.93	27.27	46.00	18.73	Horizontal	Peak

Date: 2024-05-16

Project No.: 2407T42038E-RF
Test Mode: Transmit

Temp/Humi: 24.0°C/53%
Tested by: Stein Peng

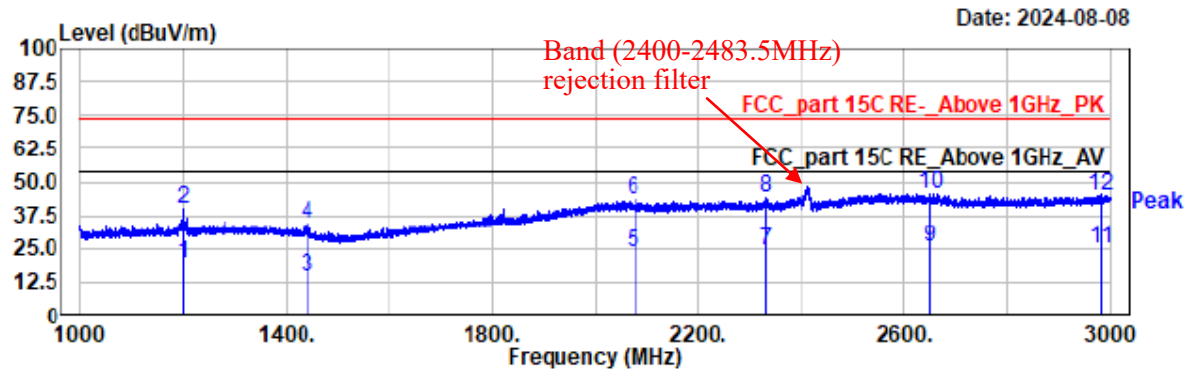


Freq	Reading	Factor	Level	Limit	Margin	Pol	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
43.968	42.11	-14.57	27.54	40.00	12.46	Vertical	Peak
95.960	41.05	-16.13	24.92	43.50	18.58	Vertical	Peak
215.949	33.81	-12.68	21.13	43.50	22.37	Vertical	Peak
352.816	31.70	-7.99	23.71	46.00	22.29	Vertical	Peak
456.024	31.25	-4.69	26.56	46.00	19.44	Vertical	Peak
485.609	30.17	-3.61	26.57	46.00	19.43	Vertical	Peak

3) 1GHz~3GHz

Project No.: 2407T42038E-RF
 Test Mode: BLE 2402
 EUT Model: ITP02
 Test distance: 3m

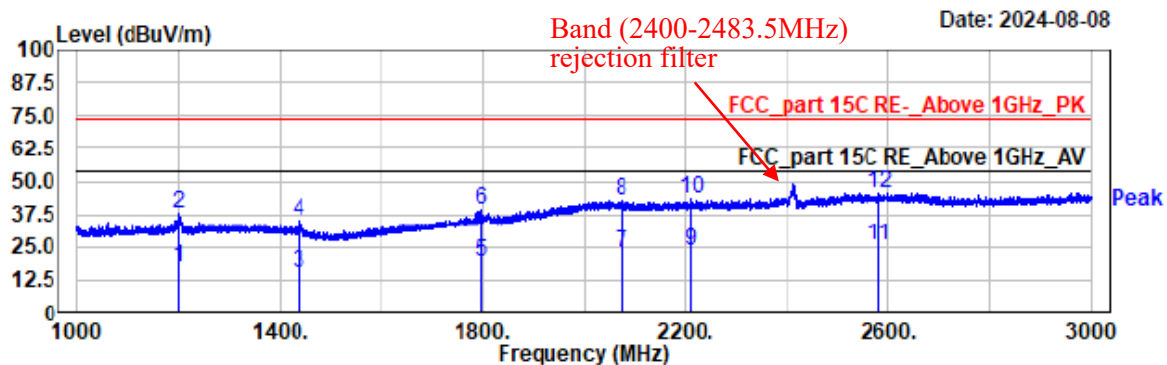
Temp/Humi/ATM: 23.1°C/52%/100.1kPa
 Tested by: Wlif Wu
 Power Source: DC7.4V from Battery



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1199.40	35.68	-16.05	19.63	54.00	34.37	horizontal	Average
1199.40	55.78	-16.05	39.73	74.00	34.27	horizontal	Peak
1439.40	31.38	-16.82	14.56	54.00	39.44	horizontal	Average
1439.40	50.99	-16.82	34.17	74.00	39.83	horizontal	Peak
2075.20	29.79	-6.36	23.43	54.00	30.57	horizontal	Average
2075.20	49.76	-6.36	43.40	74.00	30.60	horizontal	Peak
2332.00	30.36	-6.03	24.33	54.00	29.67	horizontal	Average
2332.00	50.33	-6.03	44.30	74.00	29.70	horizontal	Peak
2650.40	28.74	-3.38	25.36	54.00	28.64	horizontal	Average
2650.40	49.04	-3.38	45.66	74.00	28.34	horizontal	Peak
2981.20	29.15	-4.09	25.06	54.00	28.94	horizontal	Average
2981.20	49.18	-4.09	45.09	74.00	28.91	horizontal	Peak

Project No.: 2407T42038E-RF
Test Mode: BLE 2402
EUT Model: ITP02
Test distance: 3m

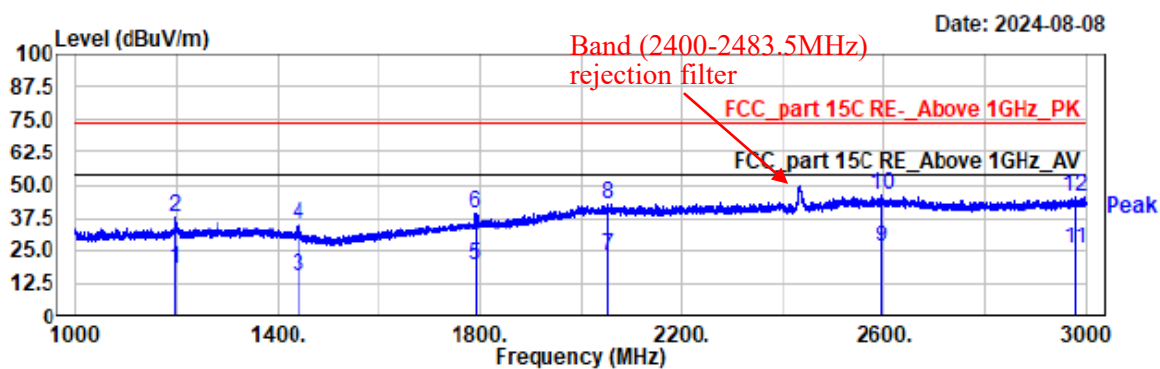
Temp/Humi/ATM: 23.1°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: DC7.4V from Battery



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.20	33.42	-16.05	17.37	54.00	36.63	vertical	Average
1200.20	53.78	-16.05	37.73	74.00	36.27	vertical	Peak
1437.80	32.04	-16.78	15.26	54.00	38.74	vertical	Average
1437.80	51.74	-16.78	34.96	74.00	39.04	vertical	Peak
1797.60	31.16	-11.62	19.54	54.00	34.46	vertical	Average
1797.60	51.11	-11.62	39.49	74.00	34.51	vertical	Peak
2073.60	28.80	-6.34	22.46	54.00	31.54	vertical	Average
2073.60	48.83	-6.34	42.49	74.00	31.51	vertical	Peak
2209.40	29.70	-6.25	23.45	54.00	30.55	vertical	Average
2209.40	49.74	-6.25	43.49	74.00	30.51	vertical	Peak
2582.00	28.71	-3.36	25.35	54.00	28.65	vertical	Average
2582.00	48.67	-3.36	45.31	74.00	28.69	vertical	Peak

Project No.: 2407T42038E-RF
Test Mode: BLE 2440
EUT Model: ITP02
Test distance: 3m

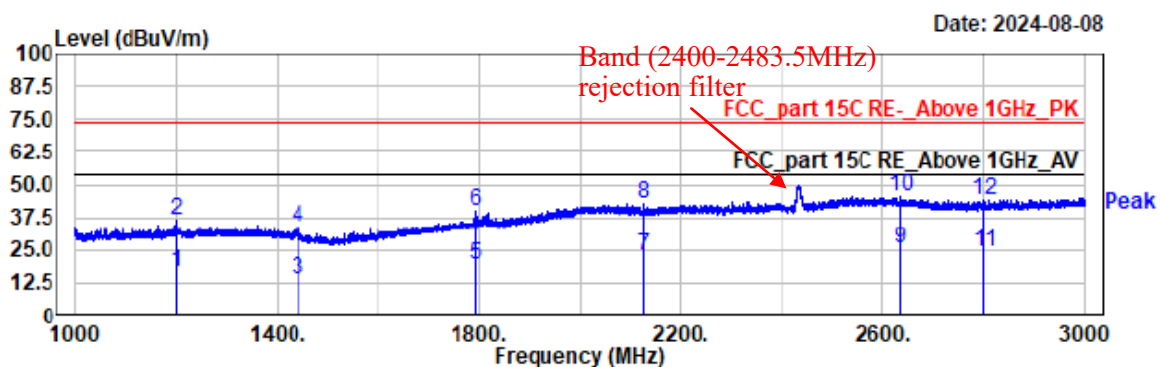
Temp/Humi/ATM: 23.1°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: DC7.4V from Battery



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1197.00	33.93	-16.07	17.86	54.00	36.14	horizontal	Average
1197.00	53.88	-16.07	37.81	74.00	36.19	horizontal	Peak
1441.00	31.73	-16.87	14.86	54.00	39.14	horizontal	Average
1441.00	51.76	-16.87	34.89	74.00	39.11	horizontal	Peak
1792.40	31.38	-11.75	19.63	54.00	34.37	horizontal	Average
1792.40	51.17	-11.75	39.42	74.00	34.58	horizontal	Peak
2051.80	28.65	-6.01	22.64	54.00	31.36	horizontal	Average
2051.80	48.98	-6.01	42.97	74.00	31.03	horizontal	Peak
2595.80	29.69	-3.32	26.37	54.00	27.63	horizontal	Average
2595.80	49.34	-3.32	46.02	74.00	27.98	horizontal	Peak
2977.60	29.76	-4.10	25.66	54.00	28.34	horizontal	Average
2977.60	49.31	-4.10	45.21	74.00	28.79	horizontal	Peak

Project No.: 2407T42038E-RF
Test Mode: BLE 2440
EUT Model: ITP02
Test distance: 3m

Temp/Humi/ATM: 23.1°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: DC7.4V from Battery

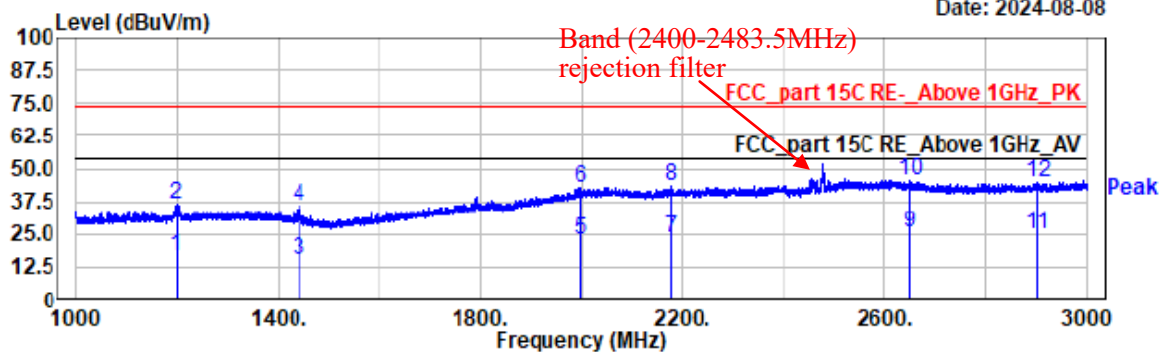


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.40	32.39	-16.05	16.34	54.00	37.66	vertical	Average
1200.40	52.52	-16.05	36.47	74.00	37.53	vertical	Peak
1441.00	30.53	-16.87	13.66	54.00	40.34	vertical	Average
1441.00	50.54	-16.87	33.67	74.00	40.33	vertical	Peak
1795.00	31.32	-11.68	19.64	54.00	34.36	vertical	Average
1795.00	51.49	-11.68	39.81	74.00	34.19	vertical	Peak
2128.80	29.62	-6.73	22.89	54.00	31.11	vertical	Average
2128.80	49.71	-6.73	42.98	74.00	31.02	vertical	Peak
2635.60	28.72	-3.35	25.37	54.00	28.63	vertical	Average
2635.60	48.60	-3.35	45.25	74.00	28.75	vertical	Peak
2800.80	29.05	-4.69	24.36	54.00	29.64	vertical	Average
2800.80	49.09	-4.69	44.40	74.00	29.60	vertical	Peak

Project No.: 2407T42038E-RF
Test Mode: BLE 2480
EUT Model: ITP02
Test distance: 3m

Temp/Humi/ATM: 23.1°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: DC7.4V from Battery

Date: 2024-08-08

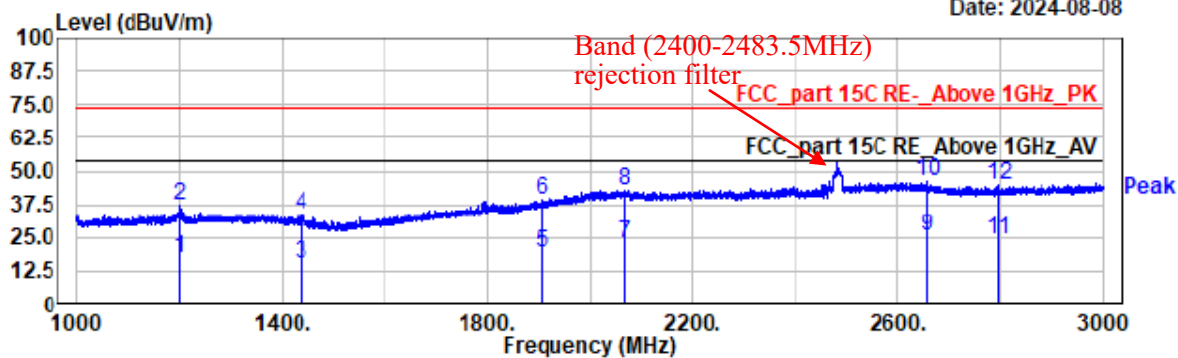


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1198.20	32.61	-16.06	16.55	54.00	37.45	horizontal	Average
1198.20	52.55	-16.06	36.49	74.00	37.51	horizontal	Peak
1439.60	32.19	-16.82	15.37	54.00	38.63	horizontal	Average
1439.60	52.52	-16.82	35.70	74.00	38.30	horizontal	Peak
1999.40	29.64	-6.77	22.87	54.00	31.13	horizontal	Average
1999.40	49.67	-6.77	42.90	74.00	31.10	horizontal	Peak
2178.80	30.06	-6.45	23.61	54.00	30.39	horizontal	Average
2178.80	50.06	-6.45	43.61	74.00	30.39	horizontal	Peak
2649.40	29.02	-3.37	25.65	54.00	28.35	horizontal	Average
2649.40	48.94	-3.37	45.57	74.00	28.43	horizontal	Peak
2903.20	28.94	-4.38	24.56	54.00	29.44	horizontal	Average
2903.20	49.02	-4.38	44.64	74.00	29.36	horizontal	Peak

Project No.: 2407T42038E-RF
Test Mode: BLE 2480
EUT Model: ITP02
Test distance: 3m

Temp/Humi/ATM: 23.1°C/52%/100.1kPa
Tested by: Wlif Wu
Power Source: DC7.4V from Battery

Date: 2024-08-08

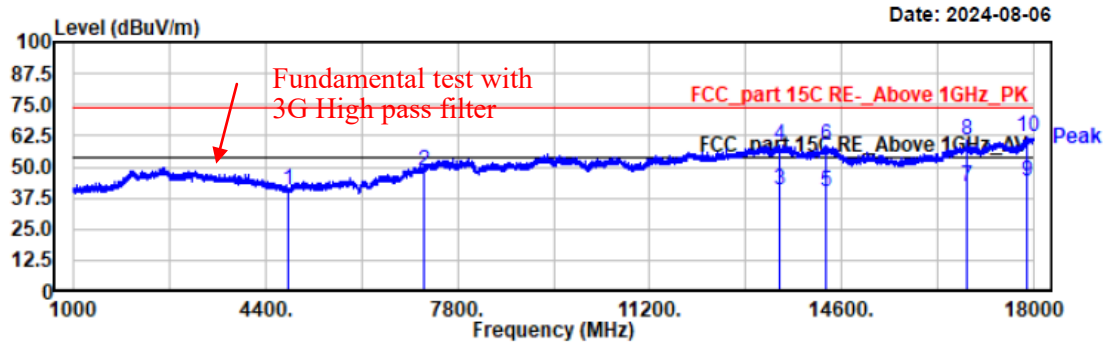


Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.00	33.12	-16.05	17.07	54.00	36.93	vertical	Average
1200.00	53.11	-16.05	37.06	74.00	36.94	vertical	Peak
1437.00	32.09	-16.76	15.33	54.00	38.67	vertical	Average
1437.00	50.86	-16.76	34.10	74.00	39.90	vertical	Peak
1906.00	28.93	-9.60	19.33	54.00	34.67	vertical	Average
1906.00	49.18	-9.60	39.58	74.00	34.42	vertical	Peak
2066.00	29.16	-6.23	22.93	54.00	31.07	vertical	Average
2066.00	49.17	-6.23	42.94	74.00	31.06	vertical	Peak
2656.80	28.91	-3.55	25.36	54.00	28.64	vertical	Average
2656.80	49.51	-3.55	45.96	74.00	28.04	vertical	Peak
2795.80	29.07	-4.71	24.36	54.00	29.64	vertical	Average
2795.80	49.54	-4.71	44.83	74.00	29.17	vertical	Peak

4) 3-18GHz:

Project No.: 2407T42038E-RF
 Test Mode: 1M 2402
 EUT Model: ITP02
 Test distance: 3m

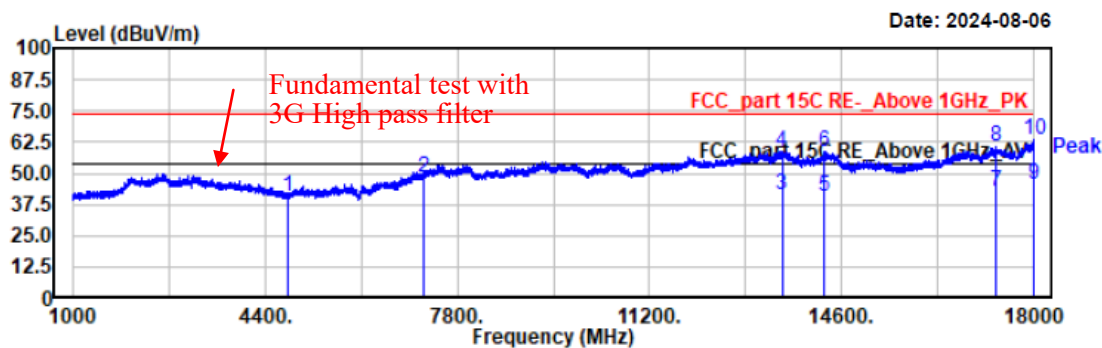
Temp/Humi: 21.3°C/51%
 Tested by: Wlif Wu
 Power Source: DC7.4V from Battery



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.60	39.51	1.09	40.60	74.00	33.40	horizontal	Peak
7206.00	39.35	9.14	48.49	74.00	25.51	horizontal	Peak
13495.00	24.39	16.13	40.52	54.00	13.48	horizontal	Average
13495.00	42.47	16.13	58.60	74.00	15.40	horizontal	Peak
14333.10	25.32	15.02	40.34	54.00	13.66	horizontal	Average
14333.10	43.35	15.02	58.37	74.00	15.63	horizontal	Peak
16818.50	27.35	14.85	42.20	54.00	11.80	horizontal	Average
16818.50	45.50	14.85	60.35	74.00	13.65	horizontal	Peak
17877.60	27.35	16.53	43.88	54.00	10.12	horizontal	Average
17877.60	45.33	16.53	61.86	74.00	12.14	horizontal	Peak

Project No.: 2407T42038E-RF
 Test Mode: 1M 2402
 EUT Model: ITP02
 Test distance: 3m

Temp/Humi: 21.3°C/51%
 Tested by: Wlif Wu
 Power Source: DC7.4V from Battery



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.60	39.75	1.09	40.84	74.00	33.16	vertical	Peak
7206.00	38.80	9.14	47.94	74.00	26.06	vertical	Peak
13547.70	25.63	15.89	41.52	54.00	12.48	vertical	Average
13547.70	43.06	15.89	58.95	74.00	15.05	vertical	Peak
14307.60	25.63	15.21	40.84	54.00	13.16	vertical	Average
14307.60	43.12	15.21	58.33	74.00	15.67	vertical	Peak
17340.40	27.64	15.07	42.71	54.00	11.29	vertical	Average
17340.40	45.36	15.07	60.43	74.00	13.57	vertical	Peak
17998.30	28.14	17.09	45.23	54.00	8.77	vertical	Average
17998.30	46.09	17.09	63.18	74.00	10.82	vertical	Peak

Project No.: 2407T42038E-RF

Test Mode: BLE 1M 2440

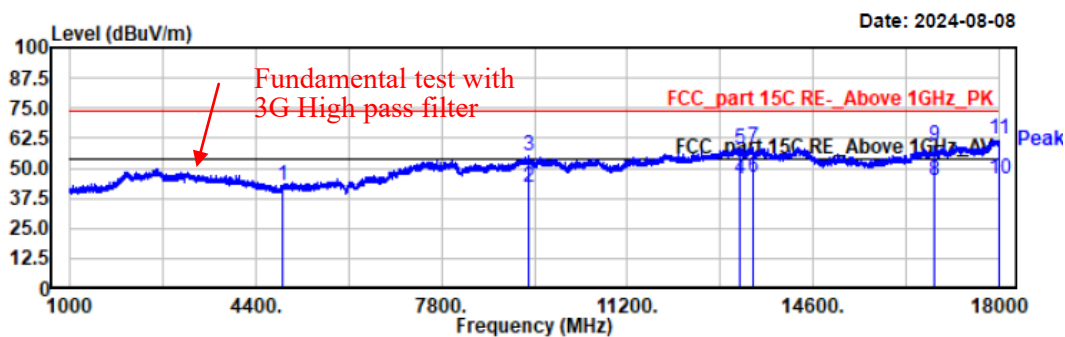
EUT Model: ITP02

Test distance: 3m

Temp/Humi: 21.3°C/51%

Tested by: Wlif Wu

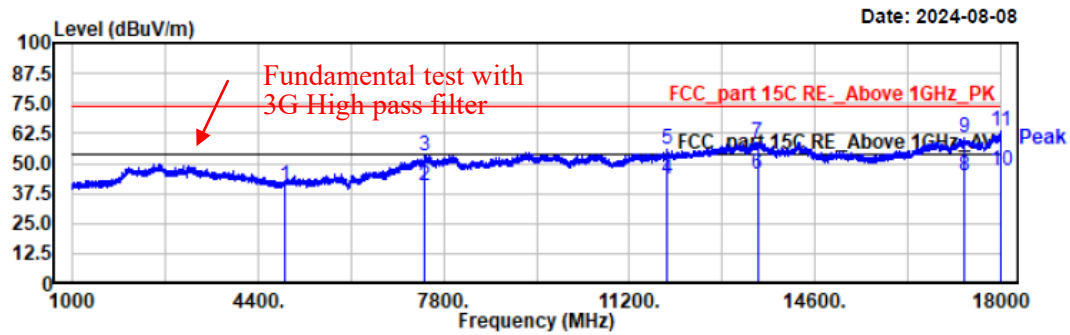
Power Source: DC7.4V from Battery



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4880.00	40.70	2.03	42.73	74.00	31.27	horizontal	Peak
9396.30	29.83	12.13	41.96	54.00	12.04	horizontal	Average
9396.30	42.83	12.13	54.96	74.00	19.04	horizontal	Peak
13267.20	29.91	15.49	45.40	54.00	8.60	horizontal	Average
13267.20	42.71	15.49	58.20	74.00	15.80	horizontal	Peak
13495.00	30.05	16.13	46.18	54.00	7.82	horizontal	Average
13495.00	42.47	16.13	58.60	74.00	15.40	horizontal	Peak
16818.50	29.78	14.85	44.63	54.00	9.37	horizontal	Average
16818.50	44.50	14.85	59.35	74.00	14.65	horizontal	Peak
18000.00	28.76	17.10	45.86	54.00	8.14	horizontal	Average
18000.00	45.16	17.10	62.26	74.00	11.74	horizontal	Peak

Project No.: 2407T42038E-RF
Test Mode: 1M 2440
EUT Model: ITP02
Test distance: 3m

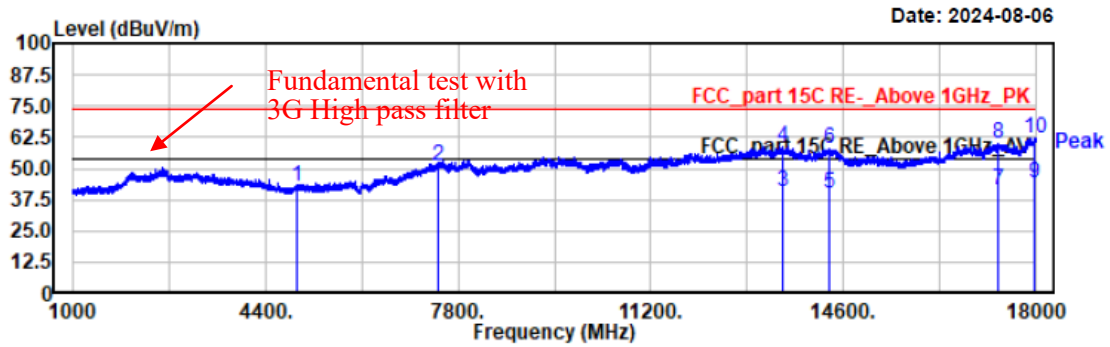
Temp/Humi: 21.3°C/51%
Tested by: Wlif Wu
Power Source: DC7.4V from Battery



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4880.00	38.91	2.03	40.94	74.00	33.06	vertical	Peak
7460.00	30.08	10.61	40.69	54.00	13.31	vertical	Average
7460.00	42.78	10.61	53.39	74.00	20.61	vertical	Peak
11895.30	30.09	13.46	43.55	54.00	10.45	vertical	Average
11895.30	42.40	13.46	55.86	74.00	18.14	vertical	Peak
13547.70	29.89	15.89	45.78	54.00	8.22	vertical	Average
13547.70	43.06	15.89	58.95	74.00	15.05	vertical	Peak
17340.40	30.05	15.07	45.12	54.00	8.88	vertical	Average
17340.40	45.36	15.07	60.43	74.00	13.57	vertical	Peak
17998.30	29.84	17.09	46.93	54.00	7.07	vertical	Average
17998.30	46.09	17.09	63.18	74.00	10.82	vertical	Peak

Project No.: 2407T42038E-RF
 Test Mode: 1M 2480
 EUT Model: ITP02
 Test distance: 3m

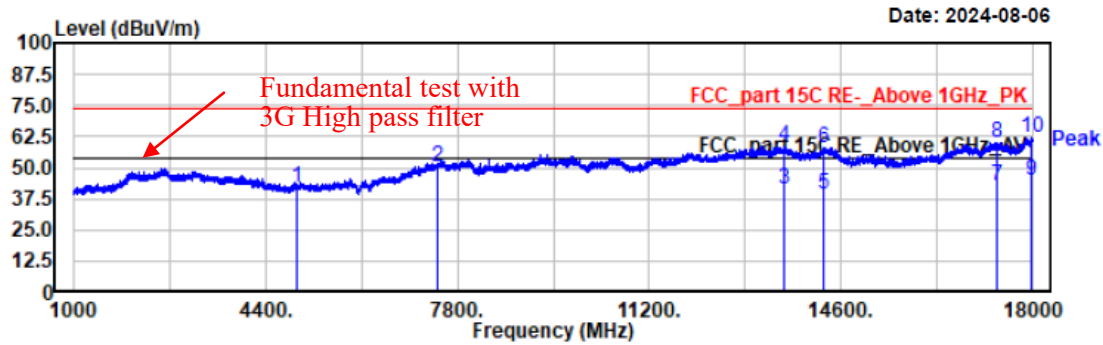
Temp/Humi: 21.3°C/51%
 Tested by: Wlif Wu
 Power Source: DC7.4V from Battery



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4959.30	39.67	2.86	42.53	74.00	31.47	horizontal	Peak
7440.00	40.35	10.40	50.75	74.00	23.25	horizontal	Peak
13525.60	24.46	16.00	40.46	54.00	13.54	horizontal	Average
13525.60	42.90	16.00	58.90	74.00	15.10	horizontal	Peak
14355.20	25.37	14.87	40.24	54.00	13.76	horizontal	Average
14355.20	43.16	14.87	58.03	74.00	15.97	horizontal	Peak
17335.30	26.41	15.08	41.49	54.00	12.51	horizontal	Average
17335.30	44.86	15.08	59.94	74.00	14.06	horizontal	Peak
17977.90	27.31	17.04	44.35	54.00	9.65	horizontal	Average
17977.90	45.06	17.04	62.10	74.00	11.90	horizontal	Peak

Project No.: 2407T42038E-RF
 Test Mode: 1M 2480
 EUT Model: ITP02
 Test distance: 3m

Temp/Humi: 21.3°C/51%
 Tested by: Wlif Wu
 Power Source: DC7.4V from Battery



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4959.30	39.36	2.86	42.22	74.00	31.78	vertical	Peak
7440.00	40.17	10.40	50.57	74.00	23.43	vertical	Peak
13607.20	25.57	15.55	41.12	54.00	12.88	vertical	Average
13607.20	43.12	15.55	58.67	74.00	15.33	vertical	Peak
14292.30	24.45	15.19	39.64	54.00	14.36	vertical	Average
14292.30	42.76	15.19	57.95	74.00	16.05	vertical	Peak
17371.00	27.63	15.06	42.69	54.00	11.31	vertical	Average
17371.00	45.26	15.06	60.32	74.00	13.68	vertical	Peak
17986.40	27.65	17.05	44.70	54.00	9.30	vertical	Average
17986.40	45.35	17.05	62.40	74.00	11.60	vertical	Peak

5) 18GHz~25GHz*EUT operation mode: Transmitting in the high channel (2480MHz) (worst case)*

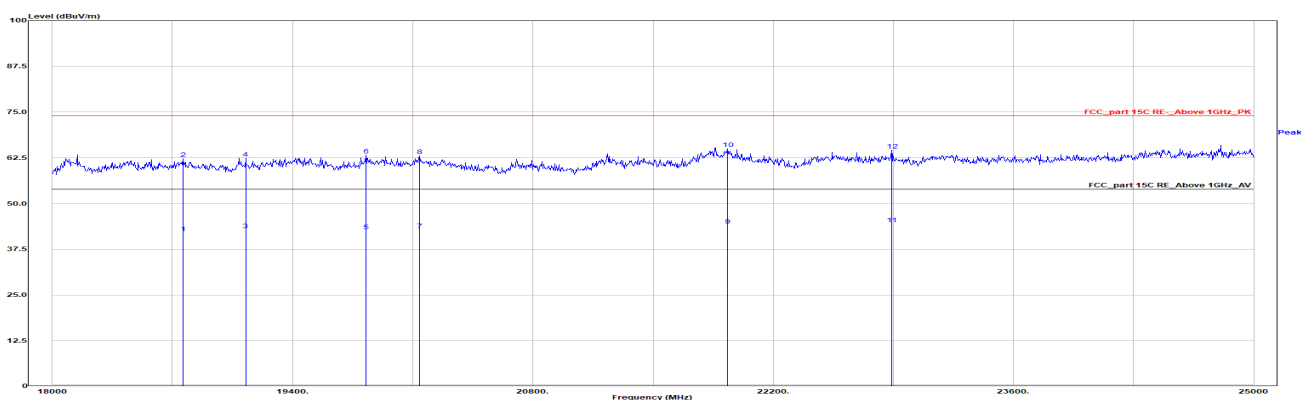
Date: 2024-05-16

Project No.: 2407T42038E-RF

Temp/Humi: 20.5°C/56%

Test Mode: BLE 2480MHz

Tested by: Stein Peng



Freq MHz	Reading dBuV	Factor dB	Level dBuV/m	Limit dBuV/m	Margin dB	Pol	Remark
18721.300	18.02	23.97	41.99	54.00	12.01	horizontal	Average
18721.300	38.30	23.97	62.27	74.00	11.73	horizontal	Peak
19113.400	18.74	23.99	42.73	54.00	11.27	horizontal	Average
19113.400	38.47	23.99	62.46	74.00	11.54	horizontal	Peak
19823.000	18.15	24.35	42.50	54.00	11.50	horizontal	Average
19823.000	38.91	24.35	63.26	74.00	10.74	horizontal	Peak
20138.400	18.39	24.38	42.77	54.00	11.23	horizontal	Average
20138.400	38.74	24.38	63.12	74.00	10.88	horizontal	Peak
21933.600	18.05	26.01	44.06	54.00	9.94	horizontal	Average
21933.600	38.99	26.01	65.00	74.00	9.00	horizontal	Peak
22888.400	18.36	26.03	44.39	54.00	9.61	horizontal	Average
22888.400	38.57	26.03	64.60	74.00	9.40	horizontal	Peak

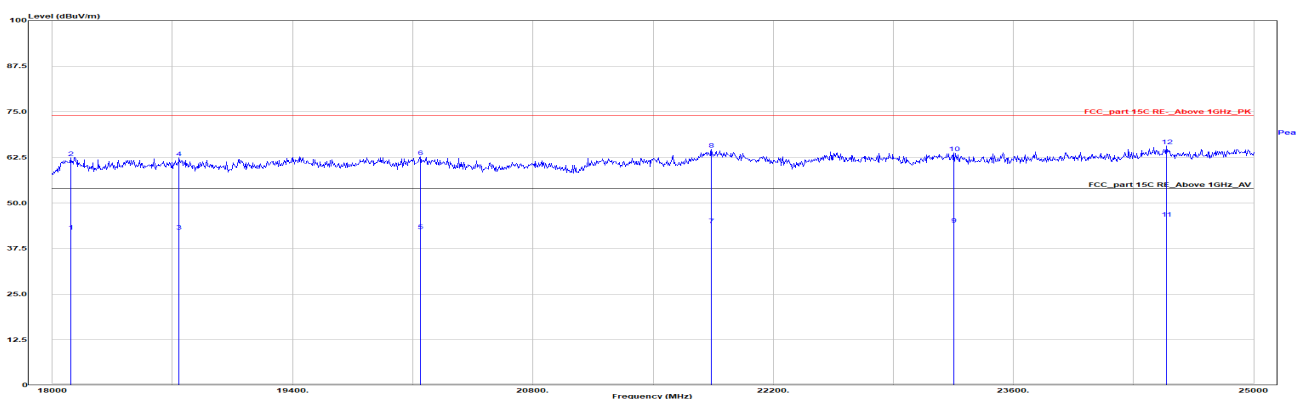
Date: 2024-05-16

Project No. : 2407T42038E-RF

Temp/Humi: 20.5°C/56%

Test Mode: BLE 2480MHz

Tested by: Stein Peng



Freq MHz	Reading dBuV	Factor dB	Level dBuV/m	Limit dBuV/m	Margin dB	Pol	Remark
18105.600	17.70	24.49	42.19	54.00	11.81	vertical	Average
18105.600	37.87	24.49	62.36	74.00	11.64	vertical	Peak
18739.200	18.23	23.99	42.22	54.00	11.78	vertical	Average
18739.200	38.42	23.99	62.41	74.00	11.59	vertical	Peak
20142.800	18.03	24.39	42.42	54.00	11.58	vertical	Average
20142.800	38.30	24.39	62.69	74.00	11.31	vertical	Peak
21841.200	18.27	25.75	44.02	54.00	9.98	vertical	Average
21841.200	38.93	25.75	64.68	74.00	9.32	vertical	Peak
23253.600	17.84	26.32	44.16	54.00	9.84	vertical	Average
23253.600	37.38	26.32	63.70	74.00	10.30	vertical	Peak
24490.000	17.66	28.18	45.84	54.00	8.16	vertical	Average
24490.000	37.46	28.18	65.64	74.00	8.36	vertical	Peak

Restricted Bands Emissions:

Pre-Scan with in the X,Y and Z axes of orientation, the worst case in Z-axis of orientation in horizontal polarization

Note:
Factor (dB/m) =Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)
Level (dBμV/m) = Reading (dBμV) + Factor (dB/m)
Margin (dB) = Limit (dBμV/m) –Level (dBμV/m)

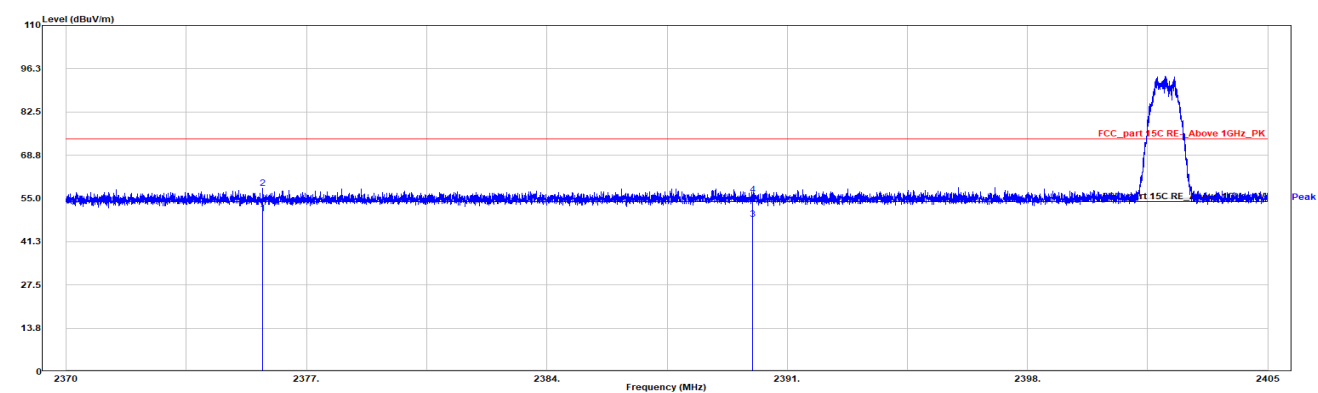
Date: 2024-08-08

Project No.: 2407T42038E-RF

Temp/Humi: 21.3℃/51%

Test Mode: BLE 1M 2402

Tested by: Wlif Wu

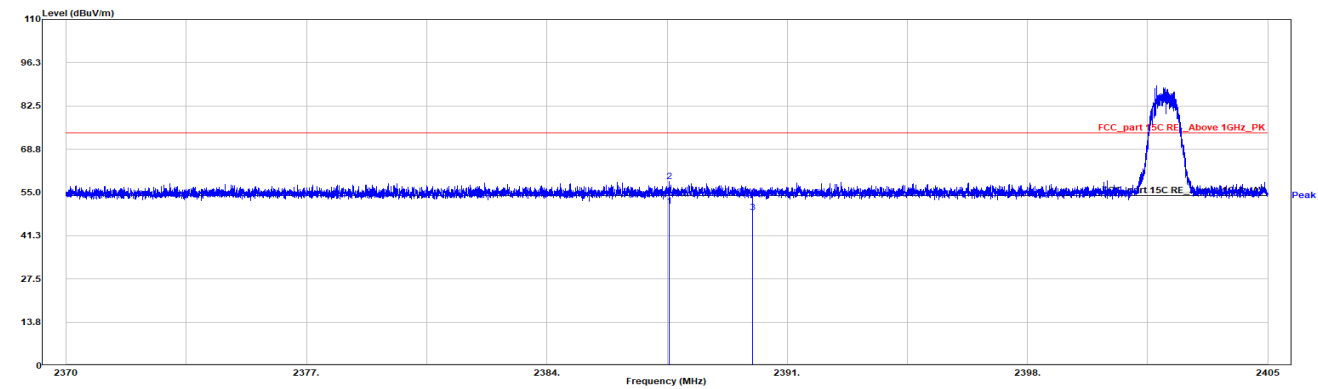


Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol	Remark
2375.712	13.34	36.75	50.09	54.00	3.91	horizontal	Average
2375.712	21.58	36.75	58.33	74.00	15.67	horizontal	Peak
2390.000	11.35	36.93	48.28	54.00	5.72	horizontal	Average
2390.000	19.29	36.93	56.22	74.00	17.78	horizontal	Peak

Date: 2024-08-08

Project No.: 2407T42038E-RF
Test Mode: BLE 1M 2402

Temp/Humi: 21.3°C/51%
Tested by: Wlif Wu



Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol	Remark
2387.556	13.75	36.90	50.65	54.00	3.35	vertical	Average
2387.556	21.47	36.90	58.37	74.00	15.63	vertical	Peak
2390.000	11.79	36.93	48.72	54.00	5.28	vertical	Average
2390.000	16.70	36.93	53.63	74.00	20.37	vertical	Peak

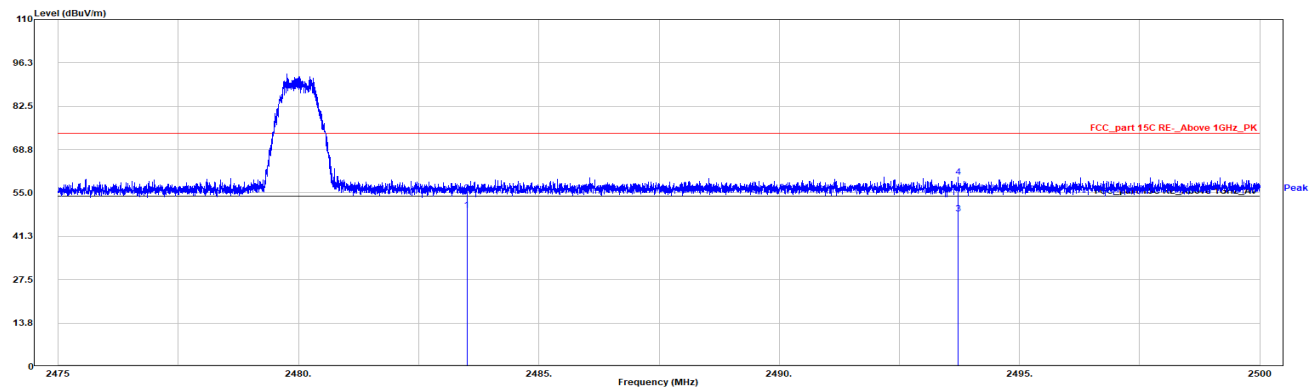
Date: 2024-08-08

Project No.: 2407T42038E-RF

Temp/Humi: 21.3°C/51%

Test Mode: BLE 1M 2480

Tested by: Wlif Wu

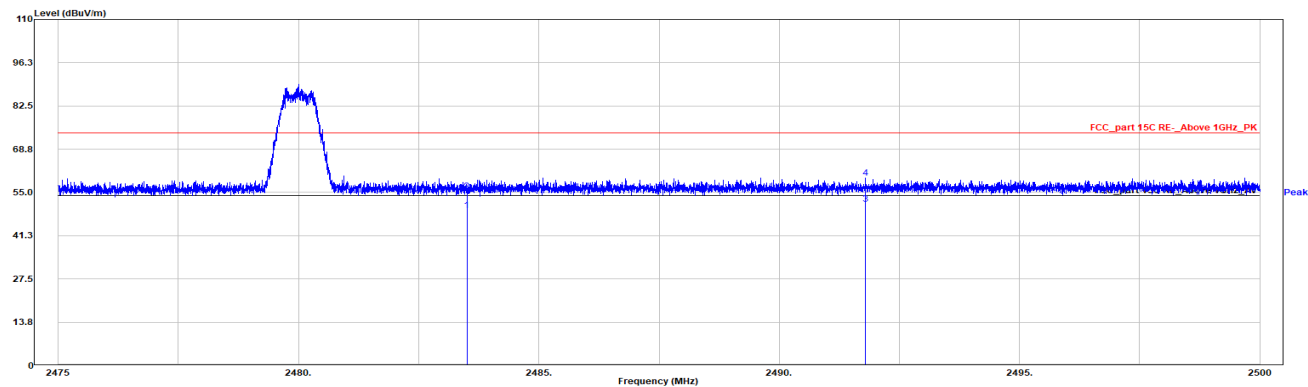


Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol	Remark
2483.500	11.78	37.75	49.53	54.00	4.47	horizontal	Average
2483.500	17.12	37.75	54.87	74.00	19.13	horizontal	Peak
2493.720	10.45	37.94	48.39	54.00	5.61	horizontal	Average
2493.720	22.11	37.94	60.05	74.00	13.95	horizontal	Peak

Date: 2024-08-08

Project No.: 2407T42038E-RF
Test Mode: BLE 1M 2480

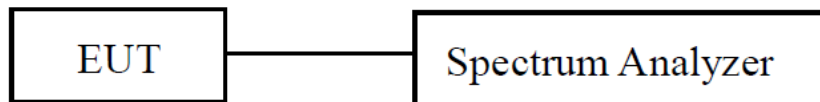
Temp/Humi: 21.3°C/51%
Tested by: Wlif Wu



Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Pol	Remark
2483.500	11.53	37.75	49.28	54.00	4.72	vertical	Average
2483.500	17.53	37.75	55.28	74.00	18.72	vertical	Peak
2491.788	13.42	37.91	51.33	54.00	2.67	vertical	Average
2491.788	21.66	37.91	59.57	74.00	14.43	vertical	Peak

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**Test Procedure**

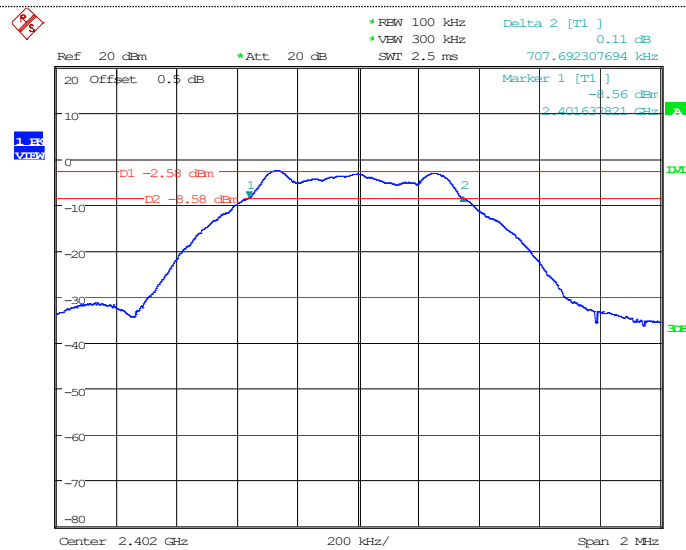
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Test Data

Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-05-14	Test Voltage:	DC 7.4V
Test Result:	Compliance	Environment:	Temp.: 25.9°C Humi.: 62% Atm.: 100.2kPa
Test Channel	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
Low	2402	0.7077	≥0.5
Middle	2440	0.7045	≥0.5
High	2480	0.7141	≥0.5

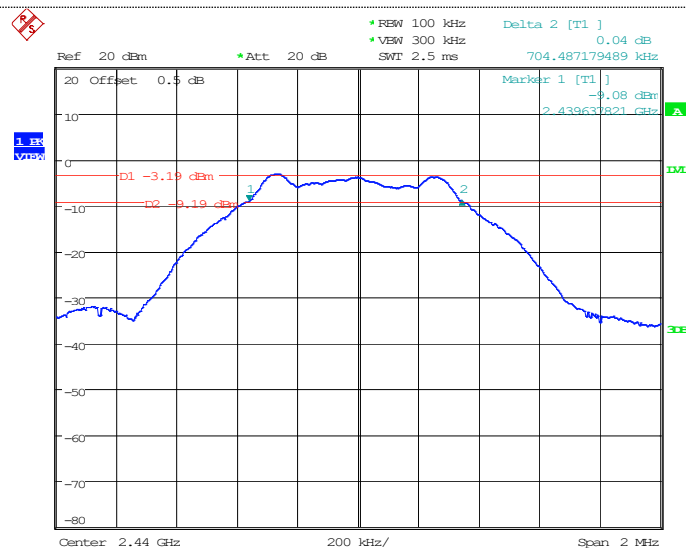
Please refer to below plots:

Low Channel



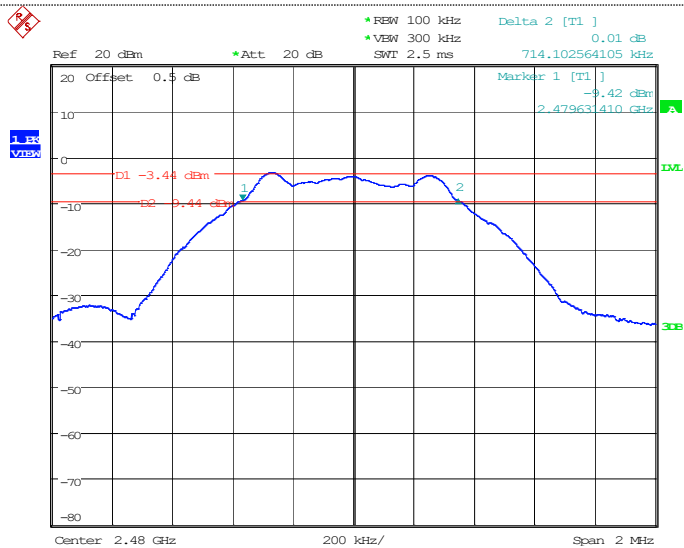
Project No. :2407T42038E-RF Tester: Stein Peng
Date: 14.MAY.2024 17:03:35

Middle Channel



Project No. :2407T42038E-RF Tester: Stein Peng
Date: 14.MAY.2024 17:06:01

High Channel



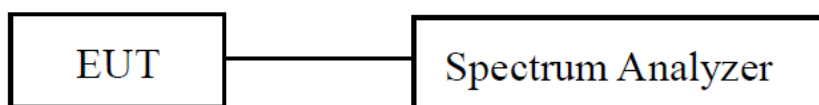
Project No. :2407T42038E-RF Tester: Stein Peng
Date: 14.MAY.2024 17:08:35

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



Test Procedure

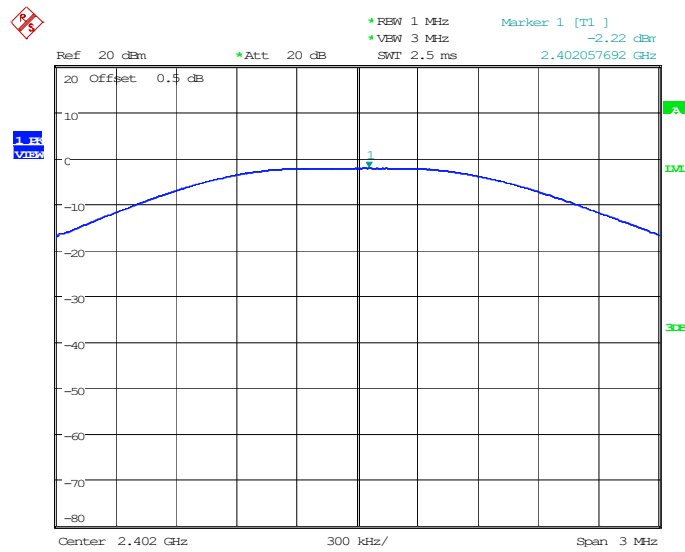
1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.

Test Data

Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-05-14	Test Voltage:	DC 7.4V
Test Result:	Compliance	Environment:	Temp.: 25.9°C Humi.: 60% Atm.: 100.2kPa
Test Channel	Test Frequency (MHz)	Maximum Conducted Peak Output Power(dBm)	Limit (dBm)
Low	2402	-2.22	≤30
Middle	2440	-2.75	≤30
High	2480	-2.97	≤30

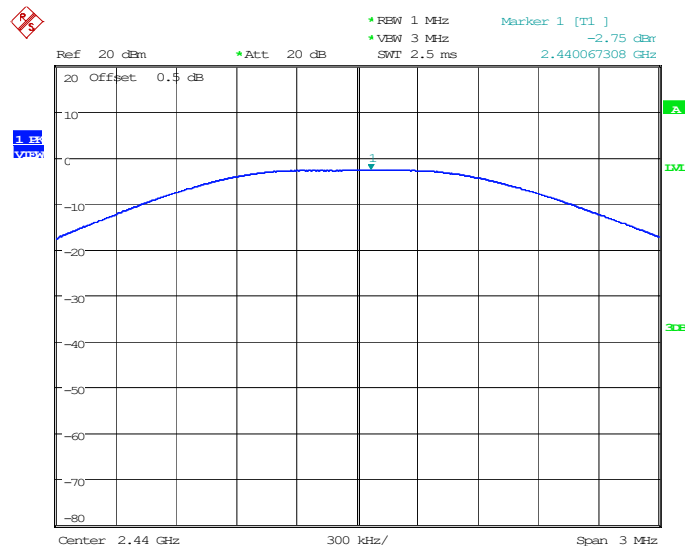
Please refer to below plots:

Low Channel



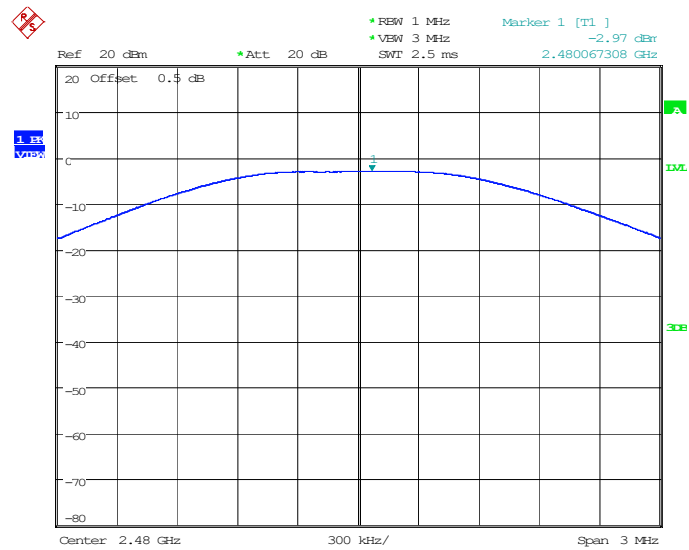
Project No.: 2407T42038E-RF Tester: Stein Peng
Date: 14.MAY.2024 17:11:26

Middle Channel



Project No.: 2407T42038E-RF Tester: Stein Peng
Date: 14.MAY.2024 17:12:15

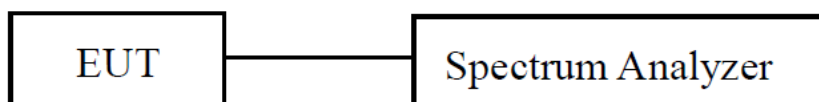
High Channel



Project No. :2407T42038E-RF Tester: Stein Peng
Date: 14.MAY.2024 17:12:56

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**Test Procedure**

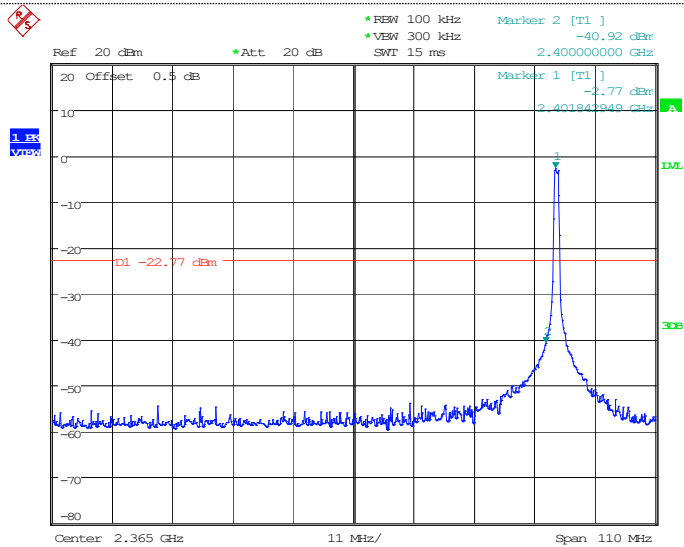
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Data

Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-05-14	Test Voltage:	DC 7.4V
Test Result:	Compliance	Environment:	Temp.: 25.9°C Humi.: 60% Atm:100.2kPa

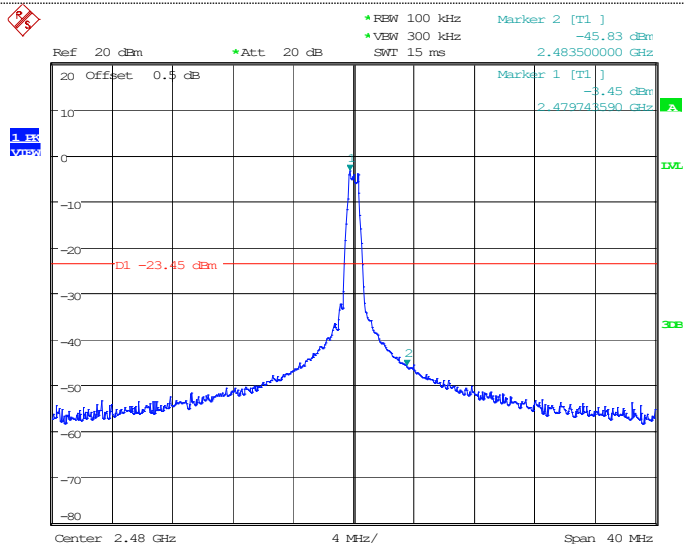
Please refer to the below plots:

Low Channel



Project No. :2407T42038E-RF Tester: Stein Peng
Date: 14.MAY.2024 17:21:13

High Channel



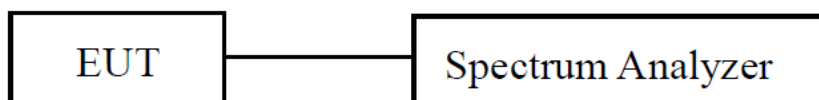
Project No. :2407T42038E-RF Tester: Stein Peng
Date: 14.MAY.2024 17:19:39

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



Test Procedure

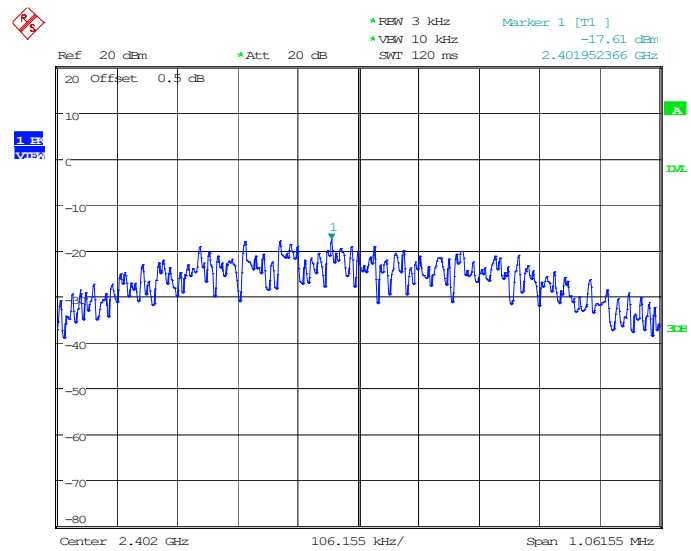
1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
3. Set the VBW $\geq 3 \times \text{RBW}$.
4. Set the span to 1.5 times the DTS bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Test Data

Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-05-14	Test Voltage:	DC 7.4V
Test Result:	Compliance	Environment:	Temp.: 25.9°C Humi.: 60% Atm: 100.2kPa
Test Channel	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
Low	2402	-17.61	≤ 8.00
Middle	2440	-18.09	≤ 8.00
High	2480	-18.39	≤ 8.00

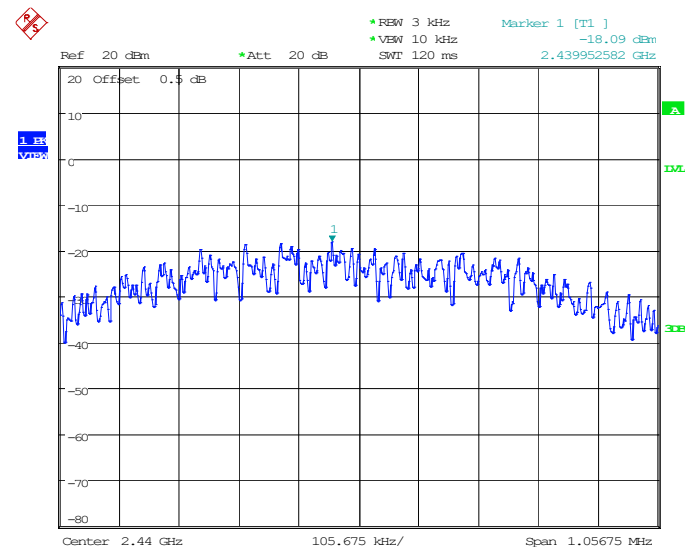
Please refer to below plots:

Low Channel



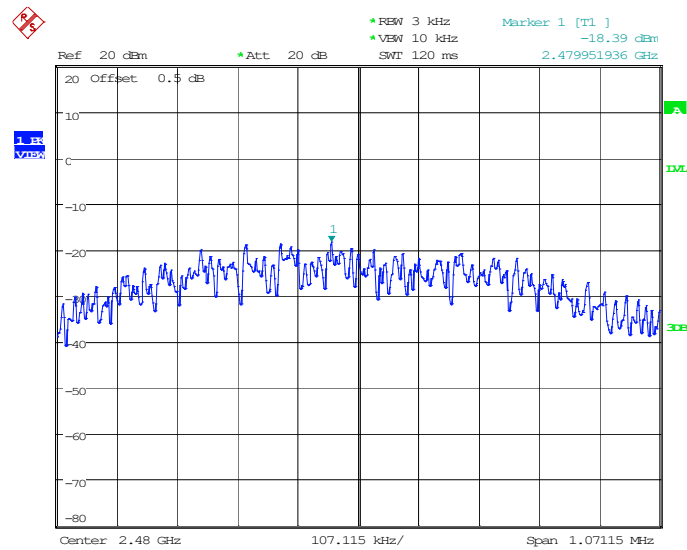
Project No. :2407T42038E-RF Tester: Stein Peng
Date: 14.MAY.2024 17:31:01

Middle Channel



Project No. :2407T42038E-RF Tester: Stein Peng
Date: 14.MAY.2024 17:32:36

High Channel



Project No. :2407T42038E-RF Tester: Stein Peng
Date: 14.MAY.2024 17:35:19

EUT PHOTOGRAPHS

Please refer to the attachment 2407T42038E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2407T42038E-RF-INP EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2407T42038E-RF-TSP 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 $k=2$ with the 95.45% 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 *******