TEST REPORT

Product Name	:	Bluetooth Wireless 2D Barcode Scanner
Brand Mark	:	N/A
Model No.	:	U2-B
Extension modeo	:	U1, U2, U3, U4, U5, U6, U7, U8, U9, U10, U11, U12, U13, U14, U15, U16, U17, U18, U19, U20, U21, U22, U23, U24, U25, U26, U27, U28, U29, U30, V1, V2, V3, V5, V6, V7, V8, V9, V10, V11, V12, V13, V14, V15, V16, W1, W2, W3, W4, W5, W6, W7, W8, W9, W10, W11, W12, W13, W14, W15, W16, W17, W18, W19, W20, W21, W22, W23, W25, W26, X10W
Report Number	:	BLA-EMC-202402-A4703
FCC ID	:	2A5HC-U2-B
Date of Sample Receipt	:	2024/2/29
Date of Test	:	2024/2/29 to 2024/4/24
Date of Issue	:	2024/4/24
Test Standard	:	47 CFR Part 15, Subpart C 15.249
Test Result	:	Pass

Prepared for:

Sycreader Guangzhou Co.,Ltd.

502#,A15,400 Xincheng Avenue, ZengchengDistrict Guangzhou

Prepared by:

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Review by: Sweely

Date: 2024/4/24

REPORT REVISE RECORD

Version No.	Date	Description
00	2024/4/24	Original

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
Radiated Emissions	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass
Restricted Band Around Fundamental Frequency	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass
20dB Bandwidth	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass

2 GENERAL INFORMATION

Applicant	Sycreader Guangzhou Co.,Ltd.
Address	502#,A15,400 Xincheng Avenue, ZengchengDistrict Guangzhou
Manufacturer	Sycreader Guangzhou Co.,Ltd.
Address	502#,A15,400 Xincheng Avenue, ZengchengDistrict Guangzhou
Factory	N/A
Address	N/A
Product Name	Bluetooth Wireless 2D Barcode Scanner
Test Model No.	U2-B
Extension mode	U1, U2, U3, U4, U5, U6, U7, U8, U9, U10, U11, U12, U13, U14, U15, U16, U17, U18, U19, U20, U21, U22, U23, U24, U25, U26, U27, U28, U29, U30, V1, V2, V3, V5, V6, V7, V8, V9, V10, V11, V12, V13, V14, V15, V16, W1, W2, W3, W4, W5, W6, W7, W8, W9, W10, W11, W12, W13, W14, W15, W16, W17, W18, W19, W20, W21, W22, W23, W25, W26, X10W
Note	That all models are electrically identical, only model no. and color is different.

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	N/A
Software Version	N/A

Channel Spacing:	1MHz
Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Number of Channels:	79 (declared by the client) 2402 2422 2442 2462 2403 2423 2443 2463 2404 2424 2444 2464 2405 2425 2445 2465 2406 2426 2446 2466 2407 2427 2447 2467 2408 2428 2448 2468 2409 2429 2449 2469 2410 2430 2450 2470 2411 2431 2451 2471 2412 2432 2452 2472 2413 2433 2453 2473 2414 2434 2454 2474 2415 2435 2455 2475 2416 2436 2456 2476 2417 2437 2457 2477 2418 2438 2458 2478 2419 2439 2459 2479 2420 2440 2460 2480 2421 2441 2461
Antenna Type:	Metal ANT
Antenna Gain:	3dBi(Provided by the applicant)
Power Supply:	DC3.7V

4 TEST ENVIRONMENT

Environment	Temperature	Voltage
Normal	25℃	DC3.7V

5 TEST MODE

TEST MODE	TEST MODE DESCRIPTION
Transmitting mode	Keep the EUT in continuously transmitting mode with modulation.

6 MEASUREMENT UNCERTAINTY

Parameter	Expanded Uncertainty (Confidence of 95%)
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±1.5 dB
Power Spectral Density, conducted	±3.0 dB
Unwanted Emissions, conducted	±3.0 dB
Temperature	±3 °C
Supply voltages	±3 %
Time	±5 %
Unwanted Radiated Emission (30MHz ~ 1000MHz)	±4.35 dB
Unwanted Radiated Emission (1GHz ~ 18GHz)	±4.44 dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB

7 DESCRIPTION OF SUPPORT UNIT

Device Type	Manufacturer	Model Name	Serial No.	Remark
--	--	--	--	--

Note:
"--" means no any support device during testing.

8 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

9 TEST INSTRUMENTS LIST

Test Equipment Of Radiated Spurious Emissions					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal.Date**	**Cal.Due**
Chamber 1	SKET	966	N/A	2023/11/16	2026/11/15
Chamber 2	SKET	966	N/A	2021/07/20	2024/07/19
Spectrum	R&S	FSP40	100817	2023/08/30	2024/08/29
Receiver	R&S	ESR7	101199	2023/08/30	2024/08/29
Receiver	R&S	ESPI7	101477	2023/07/07	2024/07/06
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2022/10/12	2025/10/11
Horn Antenna	Schwarzbeck	BBHA9120D	01892 P:00331	2022/09/13	2025/09/12
Horn Antenna	Schwarzbeck	BBHA 9170	1106	2022/04/24	2024/04/23
Amplifier	SKET	LNPA_30M01G-30	SK2021060801	2023/07/07	2024/07/06
Amplifier	SKET	PA-000318G-45	N/A	2023/08/30	2024/08/29
Amplifier	SKET	LNPA_18G40G-50	SK2022071301	2023/07/14	2024/07/13
Filter group	SKET	2.4G/5G Filter group r	N/A	2023/07/07	2024/07/06
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2022/09/14	2025/09/13
1kHZ calibration audio source	SKET	MCS-ABT-C35	N/A	2023/09/04	2024/09/03
Free Field Microphone	SKET	MGS MP 663	0414	2023/09/04	2024/09/03
Audio shielding box	SKET	SB-ABT-C35	N/A	2023/03/30	2024/03/29
Controller	SKET	N/A	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A
Signal Generator DTV	ECREDIX	DSG-1000	N/A	N/A	N/A

Test Equipment Of Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal.Date**	**Cal.Due**
Shield room	SKET	833	N/A	2023/11/16	2025/11/15
Receiver	R&S	ESPI3	101082	2023/08/30	2024/08/29
LISN	R&S	ENV216	3560.6550.15	2023/08/30	2024/08/29
LISN	AT	AT166-2	AKK1806000003	2023/08/30	2024/08/29
ISN	TESEQ	ISNT8-cat6	53580	2023/08/30	2024/08/29
Single-channel vehicle artificial power network	Schwarzbeck	NNBM 8124	01045	2023/07/07	2024/07/06
Single-channel vehicle artificial power network	Schwarzbeck	NNBM 8124	01075	2023/07/07	2024/07/06
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A

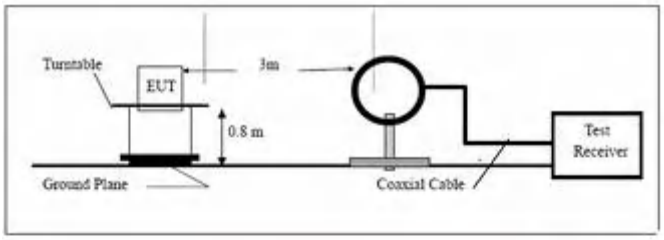
10 RADIATED EMISSIONS

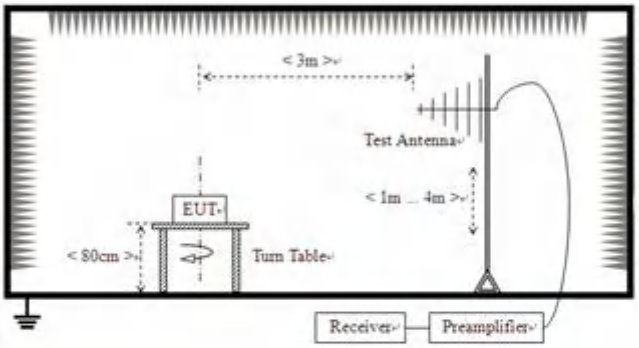
Test Standard	47 CFR Part 15, Subpart C 15.249
Test Method	ANSI C63.10 (2013) Section 6.4&6.5&6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

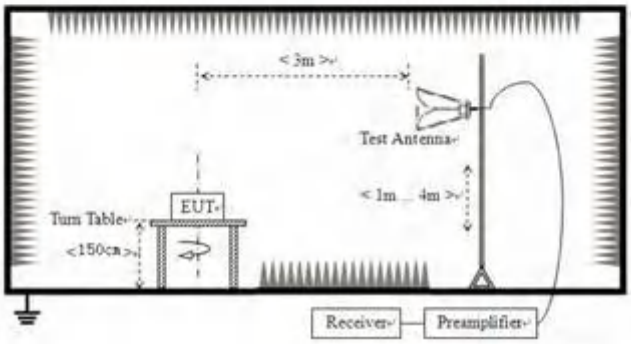
10.1 LIMITS

Frequency	Field strength (microvolt/meter)	Limit (dBμV/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F (kHz)	-	-	300
0.490MHz-1.705MHz	24000/F (kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3

10.2 BLOCK DIAGRAM OF TEST SETUP







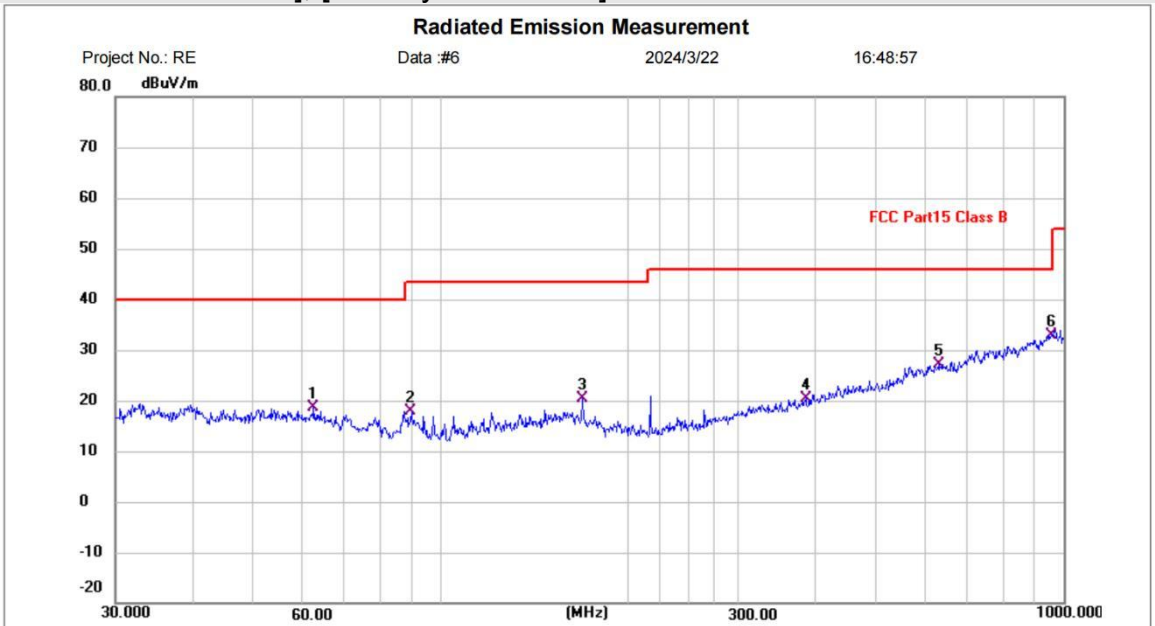
10.3 PROCEDURE\

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
j. Repeat above procedures until all frequencies measured was complete.

Remark:
1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. fundamental frequency is blocked by filter, and only spurious emission is shown.
4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

10.4 TEST DATA

[TestMode: TX below 1G]; [Polarity: Horizontal]



Site
Limit: FCC Part15 Class B
EUT: Bluetooth Wireless 2D
M/N: U2-B
Mode: 2.4G
Note:

Polarization: *Horizontal*
Power:

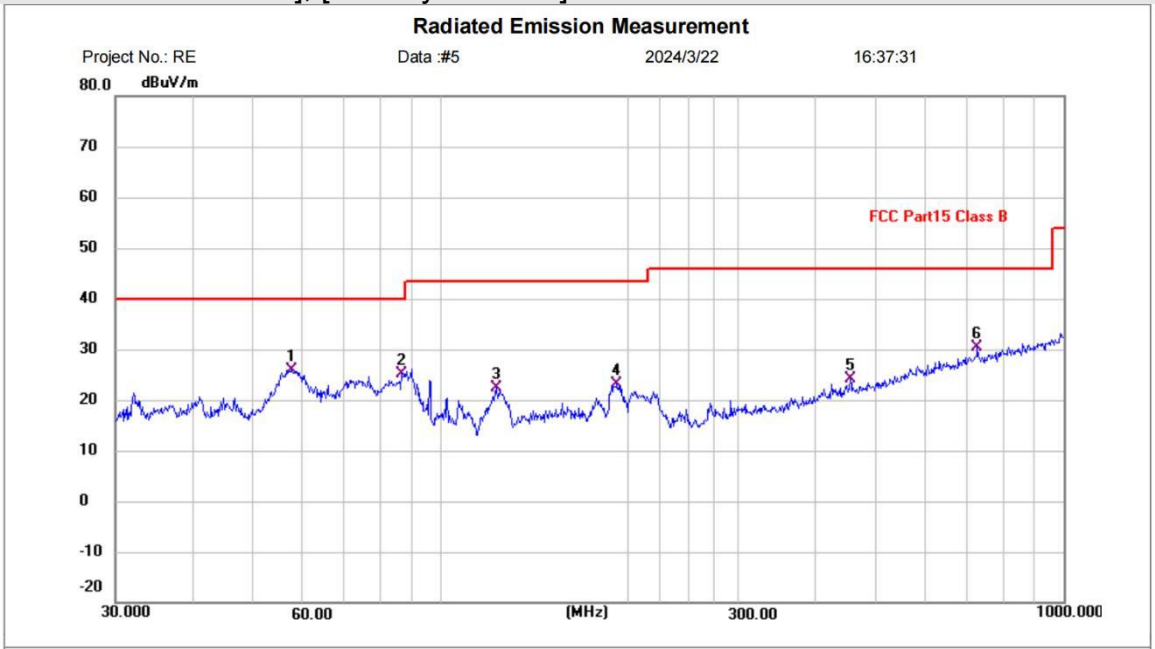
Temperature: (C)
Humidity: %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	62.4314	0.13	18.42	18.55	40.00	-21.45	QP	P	
2	89.5899	2.51	15.33	17.84	43.50	-25.66	QP	P	
3	168.4138	1.61	18.75	20.36	43.50	-23.14	QP	P	
4	385.2805	-1.31	21.63	20.32	46.00	-25.68	QP	P	
5	629.4772	-0.15	27.37	27.22	46.00	-18.78	QP	P	
6 *	955.4381	0.98	31.86	32.84	46.00	-13.16	QP	P	

*:Maximum data x:Over limit !:over margin

Test Result: Pass

[TestMode: TX below 1G]; [Polarity: Vertical]



Site
Limit: FCC Part15 Class B
EUT: Bluetooth Wireless 2D
M/N: U2-B
Mode: 2.4G
Note:

Polarization: *Vertical*
Power:

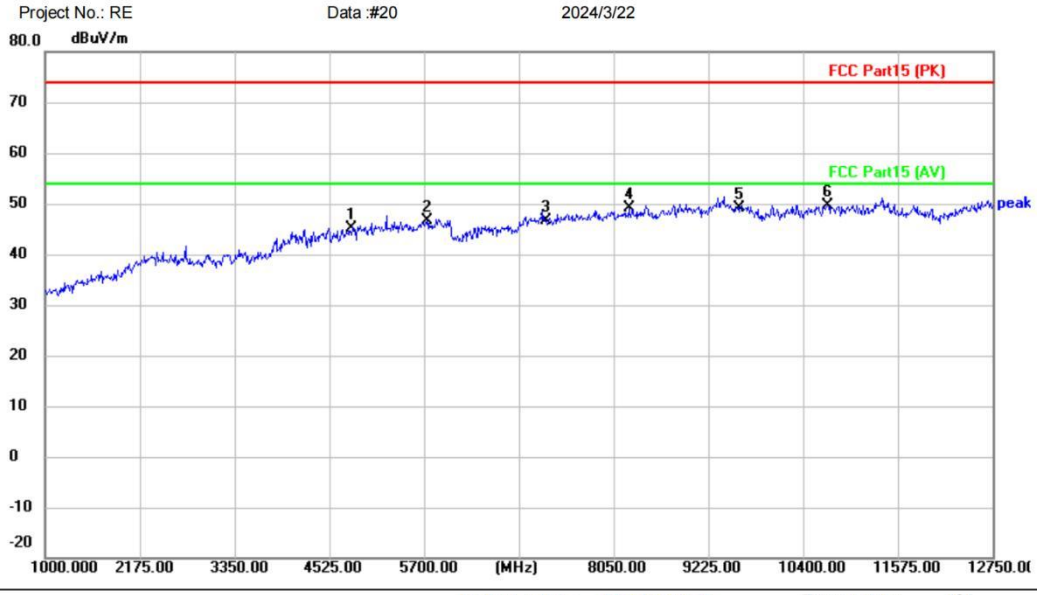
Temperature: (C)
Humidity: %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	57.5939	7.27	18.68	25.95	40.00	-14.05	QP	P	
2	86.5027	10.58	14.57	25.15	40.00	-14.85	QP	P	
3	122.8339	4.50	17.85	22.35	43.50	-21.15	QP	P	
4	191.7450	6.98	16.08	23.06	43.50	-20.44	QP	P	
5	454.3100	0.74	23.42	24.16	46.00	-21.84	QP	P	
6	726.8052	1.65	28.64	30.29	46.00	-15.71	QP	P	

*:Maximum data x:Over limit !:over margin

Test Result: Pass

[TestMode: TX low channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2402
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	39.50	5.64	45.14	74.00	-28.86	peak	
2		5735.250	38.41	8.11	46.52	74.00	-27.48	peak	
3		7206.000	37.40	9.24	46.64	74.00	-27.36	peak	
4		8238.000	39.20	9.86	49.06	74.00	-24.94	peak	
5		9608.000	36.86	12.31	49.17	74.00	-24.83	peak	
6	*	10705.50	36.43	13.12	49.55	74.00	-24.45	peak	

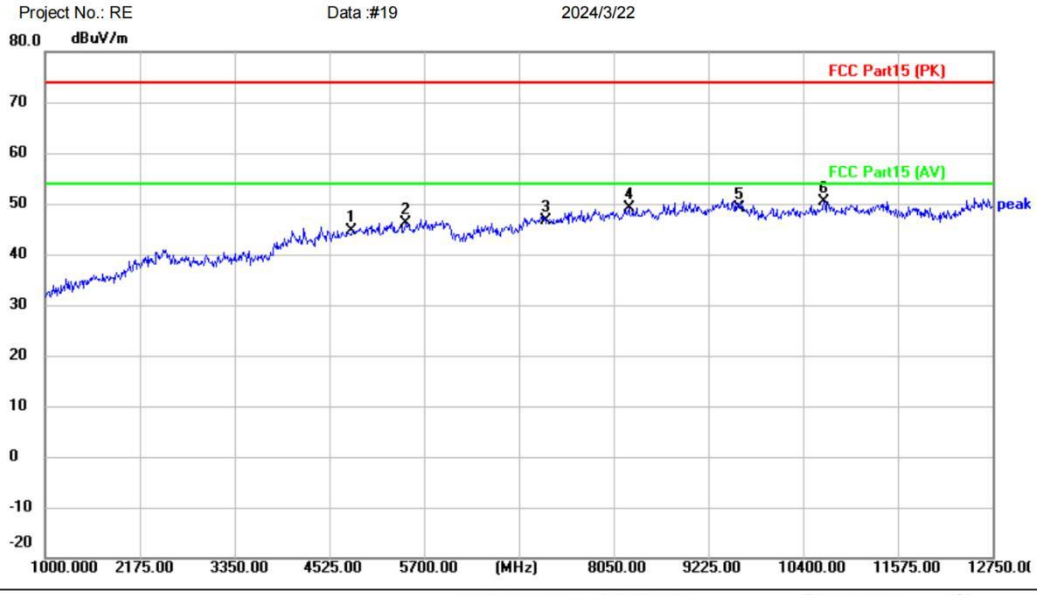
*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass

[TestMode: TX low channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2402
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

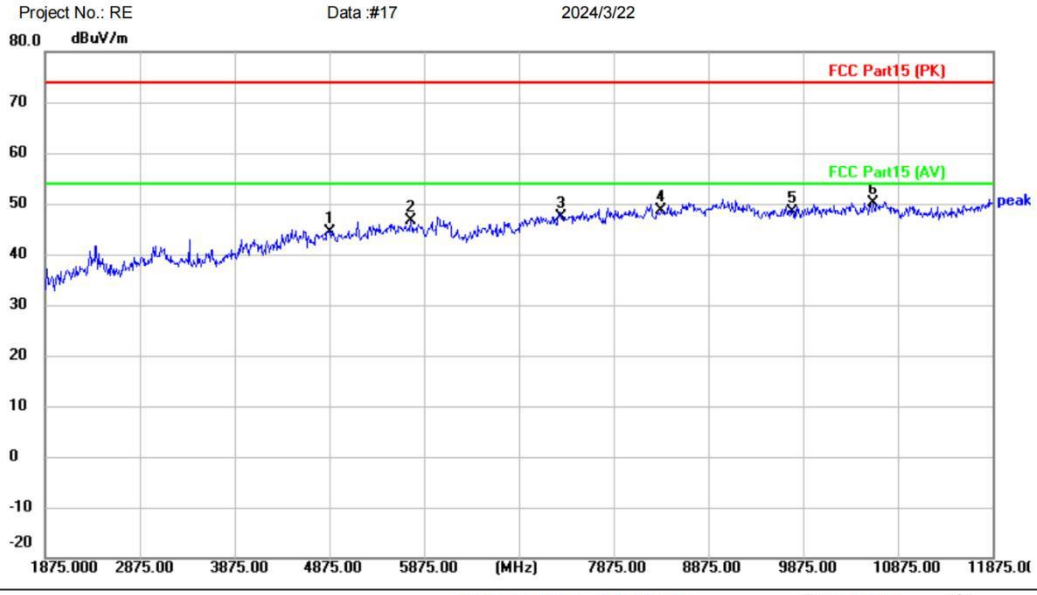
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	38.87	5.64	44.51	74.00	-29.49	peak	
2		5476.750	38.66	7.56	46.22	74.00	-27.78	peak	
3		7206.000	37.27	9.24	46.51	74.00	-27.49	peak	
4		8238.000	39.21	9.86	49.07	74.00	-24.93	peak	
5		9608.000	36.75	12.31	49.06	74.00	-24.94	peak	
6	*	10658.50	37.44	12.93	50.37	74.00	-23.63	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1
Antenna: EZ 9120D 1G-18G
Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass

[TestMode: TX mid channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2440
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.000	38.67	5.72	44.39	74.00	-29.61	peak	
2		5735.000	38.49	8.11	46.60	74.00	-27.40	peak	
3		7320.000	38.07	9.43	47.50	74.00	-26.50	peak	
4		8375.000	38.39	10.19	48.58	74.00	-25.42	peak	
5		9760.000	36.16	12.21	48.37	74.00	-25.63	peak	
6	*	10615.00	37.48	12.74	50.22	74.00	-23.78	peak	

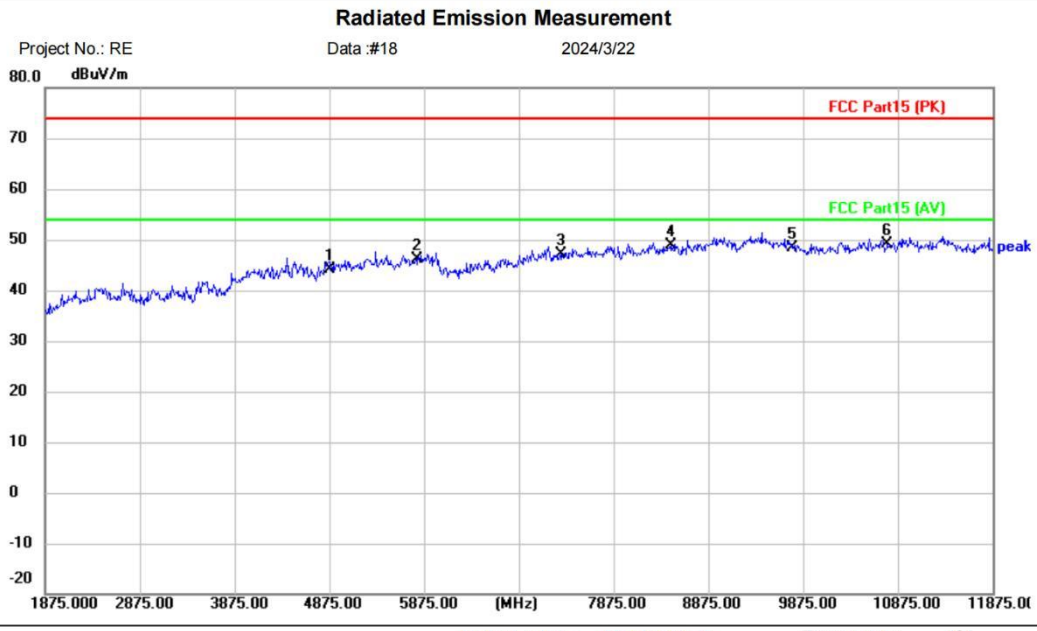
*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass

[TestMode: TX mid channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2440
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.000	38.29	5.72	44.01	74.00	-29.99	peak	
2		5795.000	38.19	7.96	46.15	74.00	-27.85	peak	
3		7320.000	37.82	9.43	47.25	74.00	-26.75	peak	
4		8475.000	38.06	10.78	48.84	74.00	-25.16	peak	
5		9760.000	36.29	12.21	48.50	74.00	-25.50	peak	
6	*	10765.00	36.10	12.93	49.03	74.00	-24.97	peak	

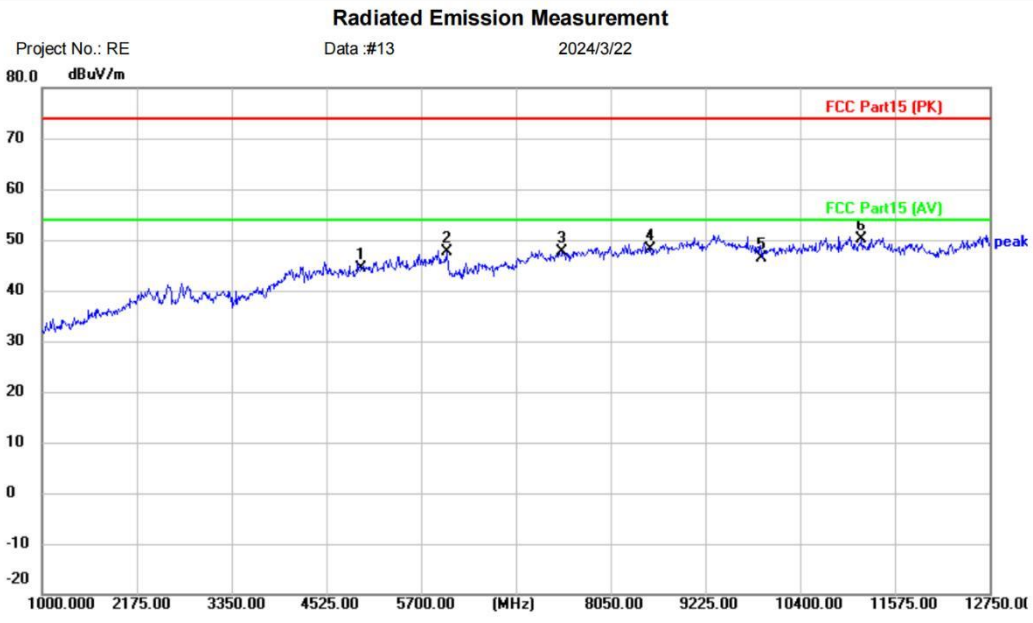
*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass

[TestMode: TX high channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2480
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	37.74	6.60	44.34	74.00	-29.66	peak	
2		6017.250	41.98	5.63	47.61	74.00	-26.39	peak	
3		7440.000	38.03	9.64	47.67	74.00	-26.33	peak	
4		8543.500	36.96	11.18	48.14	74.00	-25.86	peak	
5		9920.000	34.29	12.14	46.43	74.00	-27.57	peak	
6	*	11163.75	37.39	12.73	50.12	74.00	-23.88	peak	

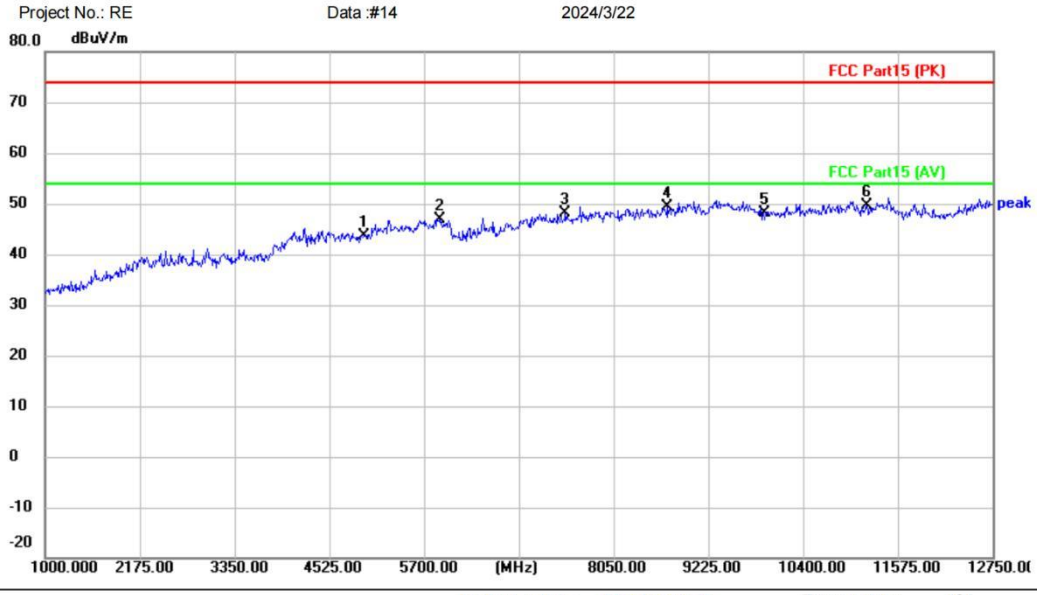
*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass

[TestMode: TX high channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2480
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	37.11	6.60	43.71	74.00	-30.29	peak	
2		5899.750	38.33	8.66	46.99	74.00	-27.01	peak	
3		7440.000	38.48	9.64	48.12	74.00	-25.88	peak	
4		8719.750	37.89	11.53	49.42	74.00	-24.58	peak	
5		9920.000	35.92	12.14	48.06	74.00	-25.94	peak	
6	*	11187.25	37.01	12.71	49.72	74.00	-24.28	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass

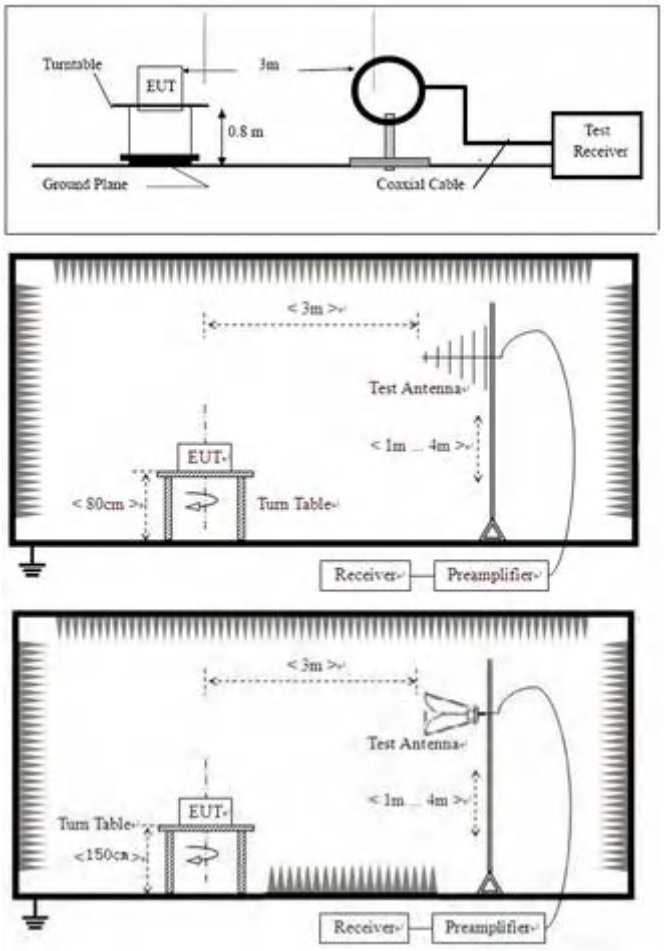
11 RESTRICTED BAND AROUND FUNDAMENTAL FREQUENCY

Test Standard	47 CFR Part 15, Subpart C 15.249
Test Method	ANSI C63.10 (2013) Section 6.4&6.5&6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

11.1 LIMITS

Frequency	Limit (dBμV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
	74.0	Peak Value

11.2 BLOCK DIAGRAM OF TEST SETUP



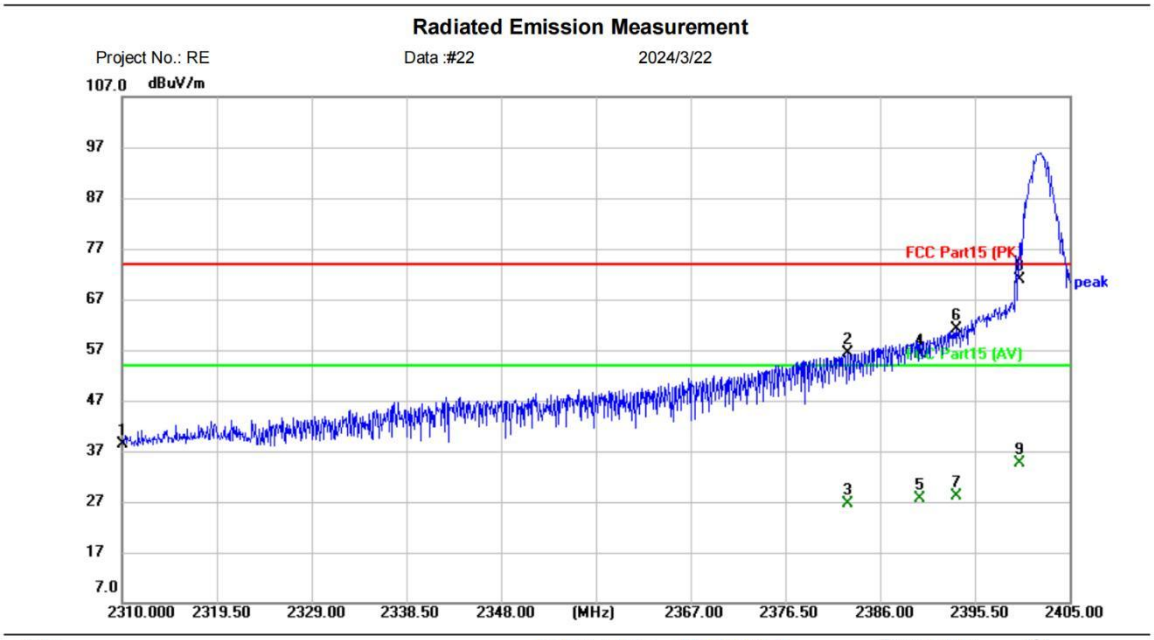
11.3 PROCEDURE

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
j. Repeat above procedures until all frequencies measured was complete.
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

11.4 TEST DATA

[TestMode: TX low channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2402
Note:

Polarization: *Horizontal*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	41.38	-2.89	38.49	74.00	-35.51	peak	
2		2382.770	59.20	-2.71	56.49	74.00	-17.51	peak	
3		2382.770	29.22	-2.71	26.51	54.00	-27.49	AVG	
4		2390.000	58.82	-2.70	56.12	74.00	-17.88	peak	
5		2390.000	30.21	-2.70	27.51	54.00	-26.49	AVG	
6		2393.695	63.77	-2.69	61.08	74.00	-12.92	peak	
7		2393.695	30.79	-2.69	28.10	54.00	-25.90	AVG	
8	*	2400.000	73.53	-2.67	70.86	74.00	-3.14	peak	
9		2400.000	37.39	-2.67	34.72	54.00	-19.28	AVG	

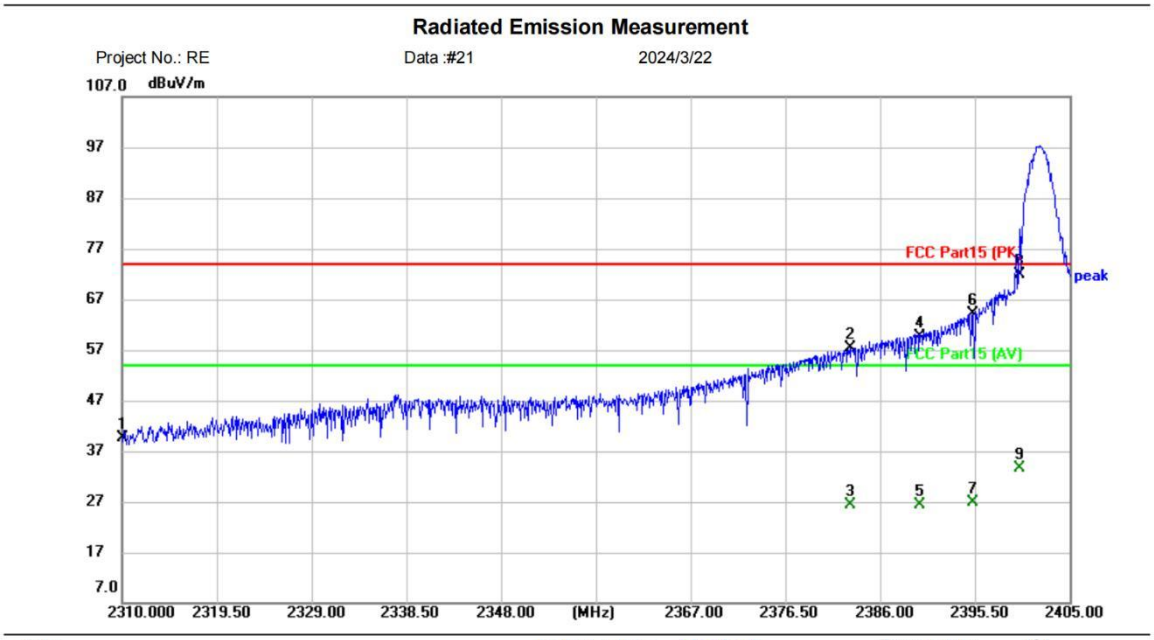
*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass

[TestMode: TX low channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2402
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	42.42	-2.89	39.53	74.00	-34.47	peak	
2		2383.055	60.19	-2.71	57.48	74.00	-16.52	peak	
3		2383.055	29.19	-2.71	26.48	54.00	-27.52	AVG	
4		2390.000	62.38	-2.70	59.68	74.00	-14.32	peak	
5		2390.000	29.18	-2.70	26.48	54.00	-27.52	AVG	
6		2395.310	66.87	-2.68	64.19	74.00	-9.81	peak	
7		2395.310	29.46	-2.68	26.78	54.00	-27.22	AVG	
8	*	2400.000	74.50	-2.67	71.83	74.00	-2.17	peak	
9		2400.000	36.25	-2.67	33.58	54.00	-20.42	AVG	

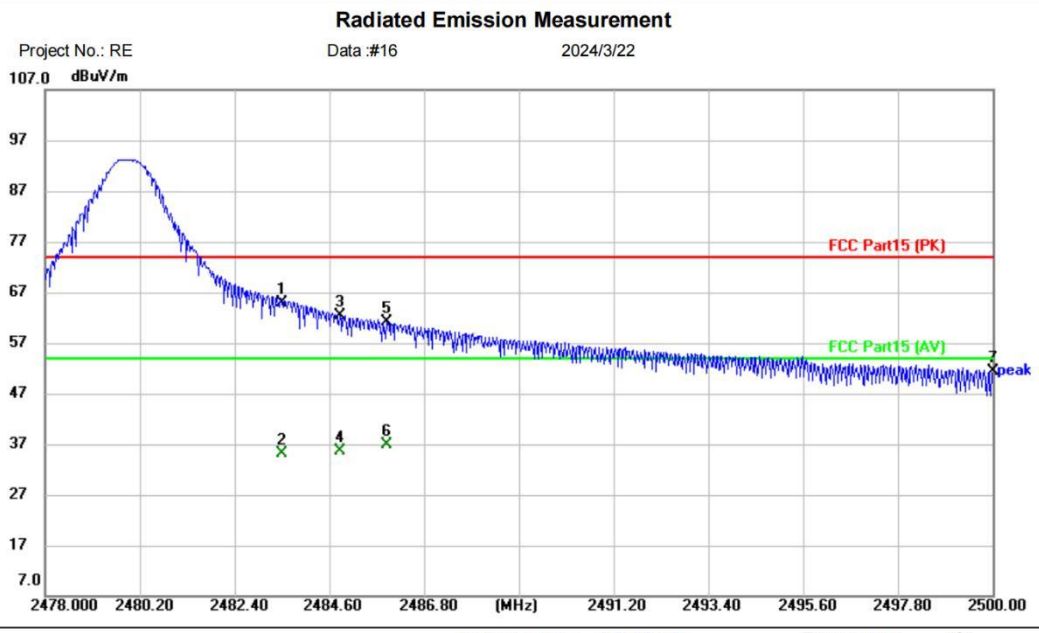
*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass

[TestMode: TX high channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2480
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	67.78	-2.91	64.87	74.00	-9.13	peak	
2		2483.500	38.01	-2.91	35.10	54.00	-18.90	AVG	
3		2484.842	65.30	-2.92	62.38	74.00	-11.62	peak	
4		2484.842	38.60	-2.92	35.68	54.00	-18.32	AVG	
5		2485.942	64.03	-2.92	61.11	74.00	-12.89	peak	
6		2485.942	39.82	-2.92	36.90	54.00	-17.10	AVG	
7		2500.000	54.31	-3.00	51.31	74.00	-22.69	peak	

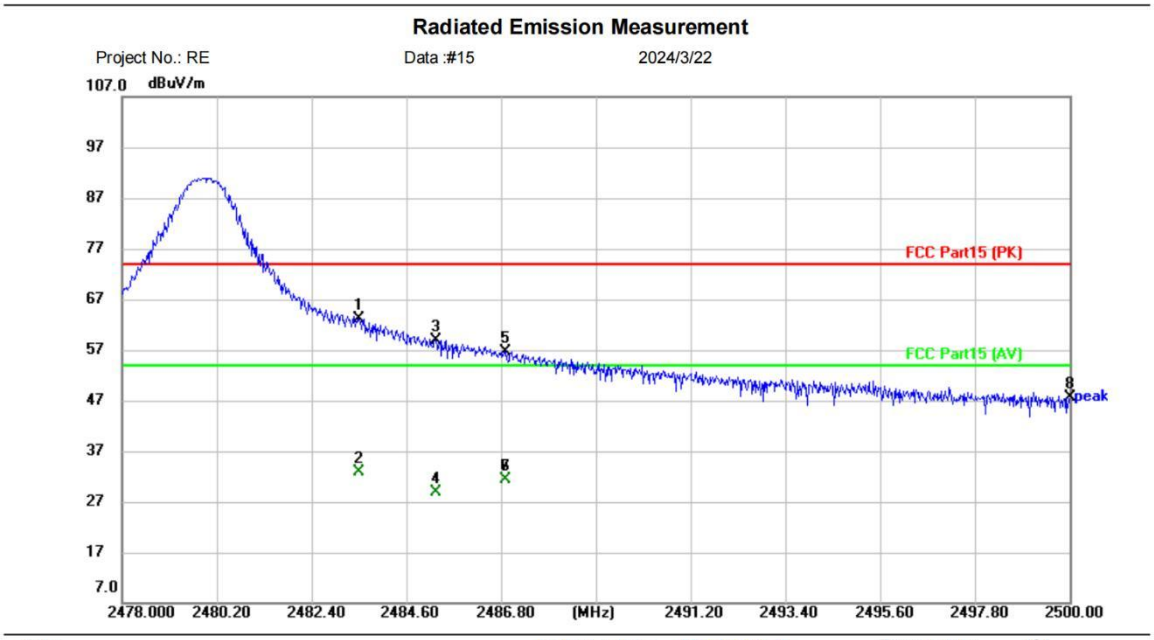
*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass

[TestMode: TX high channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2480
Note:

Polarization: *Horizontal*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	65.98	-2.91	63.07	74.00	-10.93	peak	
2		2483.500	35.81	-2.91	32.90	54.00	-21.10	AVG	
3		2485.282	61.91	-2.92	58.99	74.00	-15.01	peak	
4		2485.282	31.83	-2.92	28.91	54.00	-25.09	AVG	
5		2486.910	59.53	-2.93	56.60	74.00	-17.40	peak	
6		2486.910	34.32	-2.93	31.39	54.00	-22.61	AVG	
7		2486.910	34.32	-2.93	31.39	54.00	-22.61	AVG	
8		2500.000	50.55	-3.00	47.55	74.00	-26.45	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1
Antenna: EZ 9120D 1G-18G

Spectrum Analyzer: FSP40
Engineer Signature:

Test Result: Pass

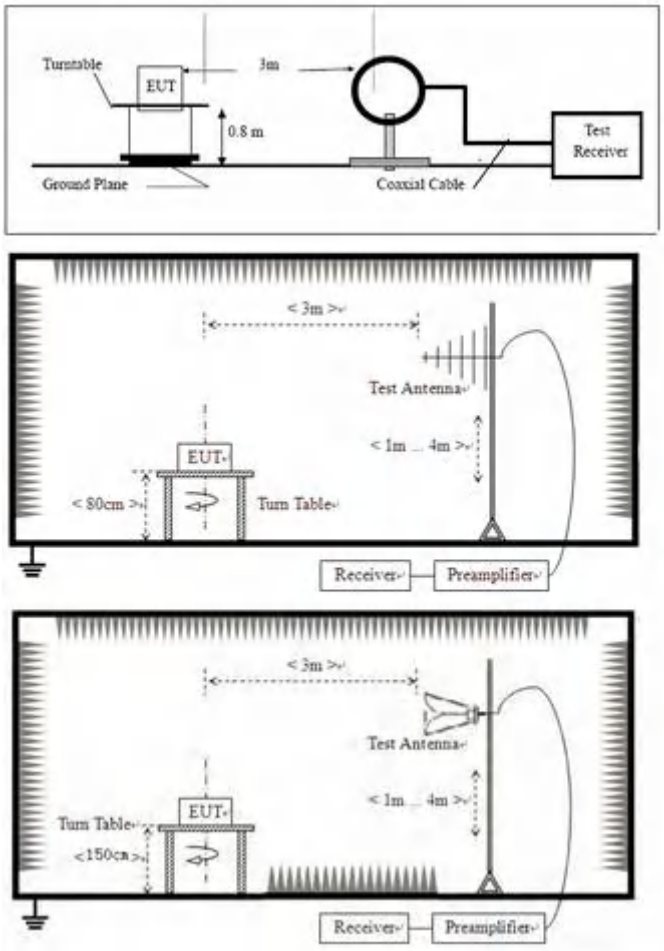
12 FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL (15.249(A))

Test Standard	47 CFR Part 15, Subpart C 15.249
Test Method	ANSI C63.10 (2013) Section 6.5&6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

12.1 LIMITS

Frequency	Limit (dBμV/m @3m)	Remark
2400MHz-2483.5MHz	94.0	Average Value
	114.0	Peak Value

12.2 BLOCK DIAGRAM OF TEST SETUP



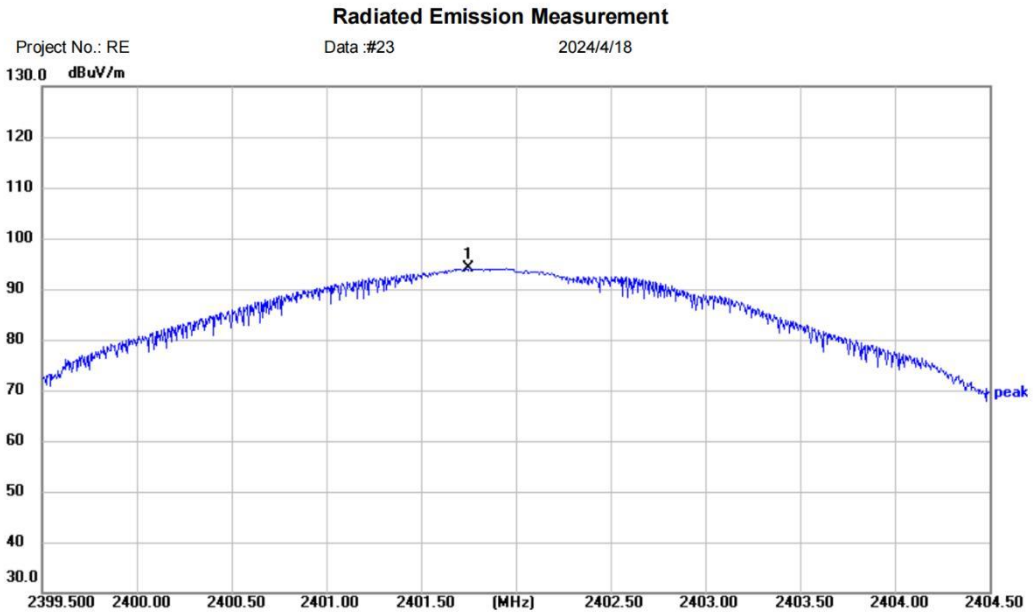
12.3 PROCEDURE

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
j. Repeat above procedures until all frequencies measured was complete.
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

12.4 TEST DATA

2402 Horizontal peak:



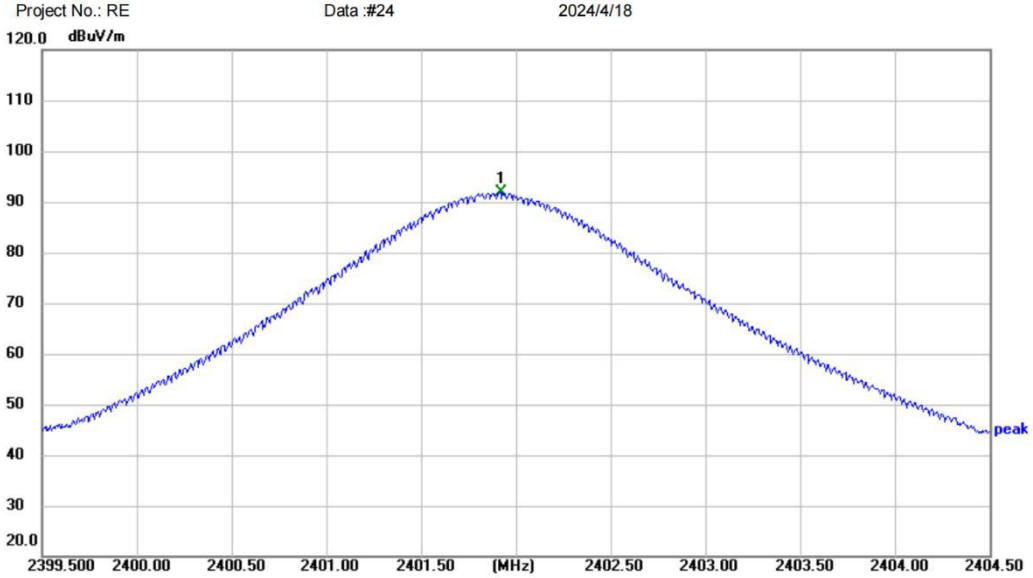
Site
Limit:
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2402
Note:

Polarization: *Horizontal*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2401.755	93.34	0.69	94.03			peak	

Horizontal AVG:



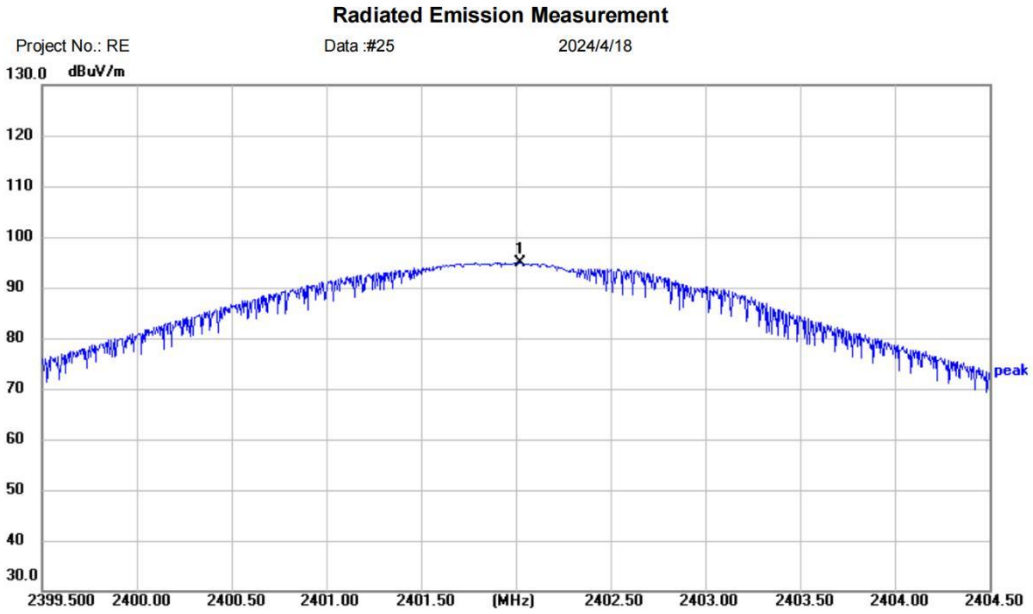
Site
Limit:
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2402
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2401.920	91.17	0.69	91.86			AVG	

Vertical peak



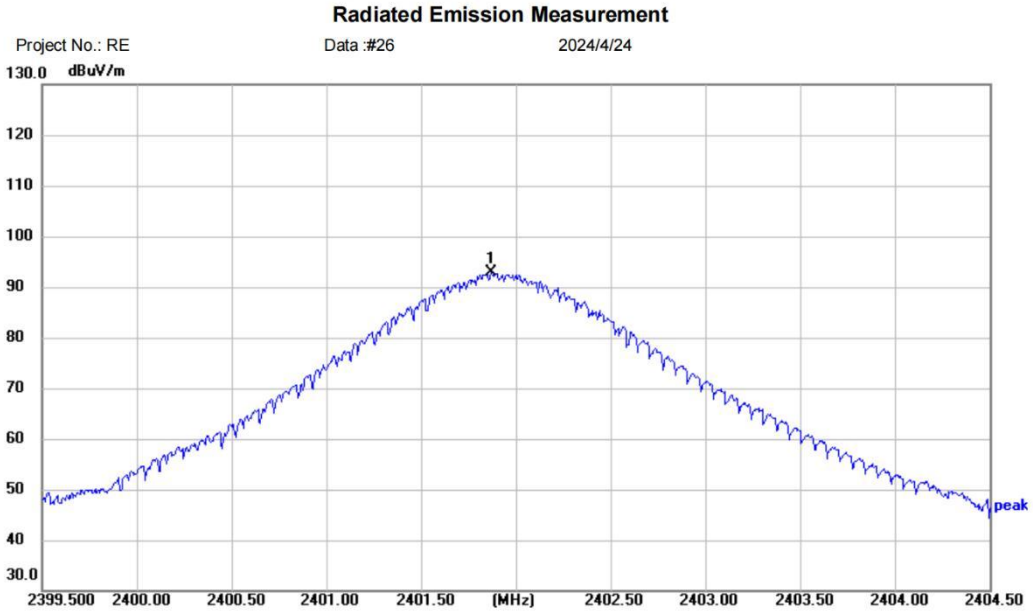
Site
Limit:
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2402
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2402.020	94.09	0.69	94.78			peak	

Vertical AVG



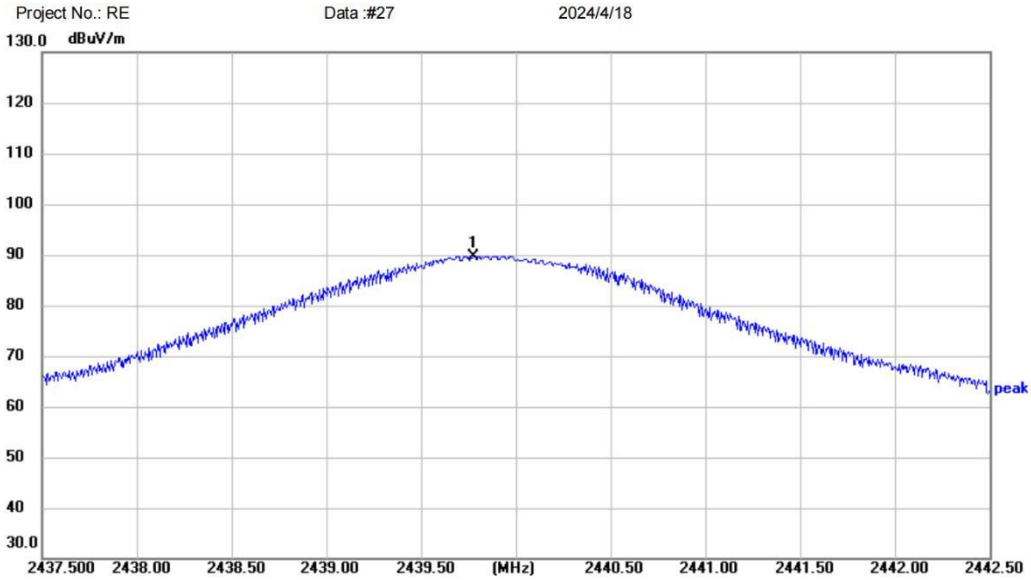
Site
Limit:
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2402
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2401.870	92.17	0.69	92.86			peak	

2440 Horizontal peak



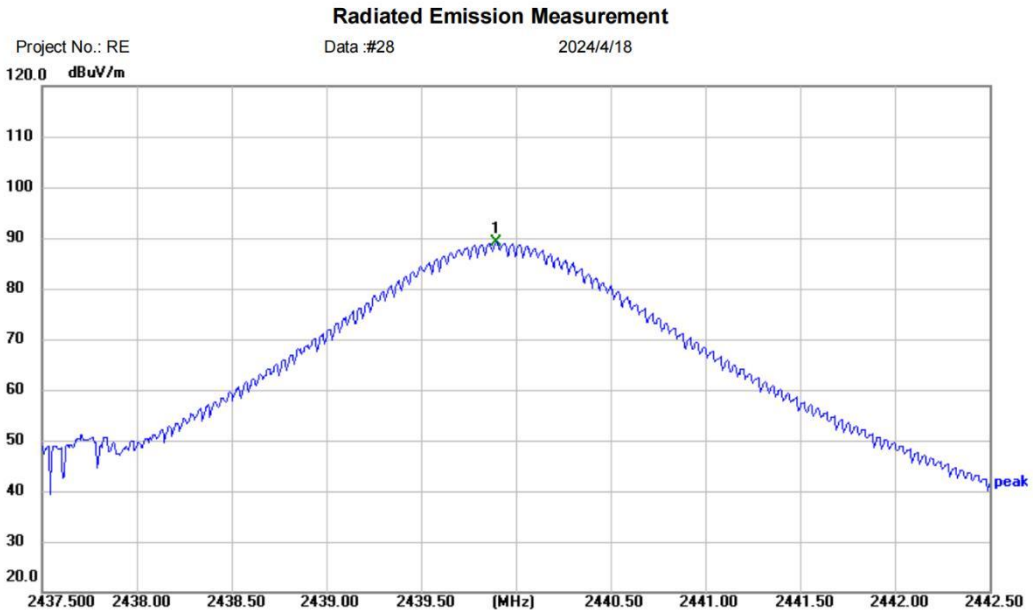
Site
Limit:
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2440
Note:

Polarization: *Horizontal*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2439.775	88.99	0.70	89.69			peak	

Horizontal AVG



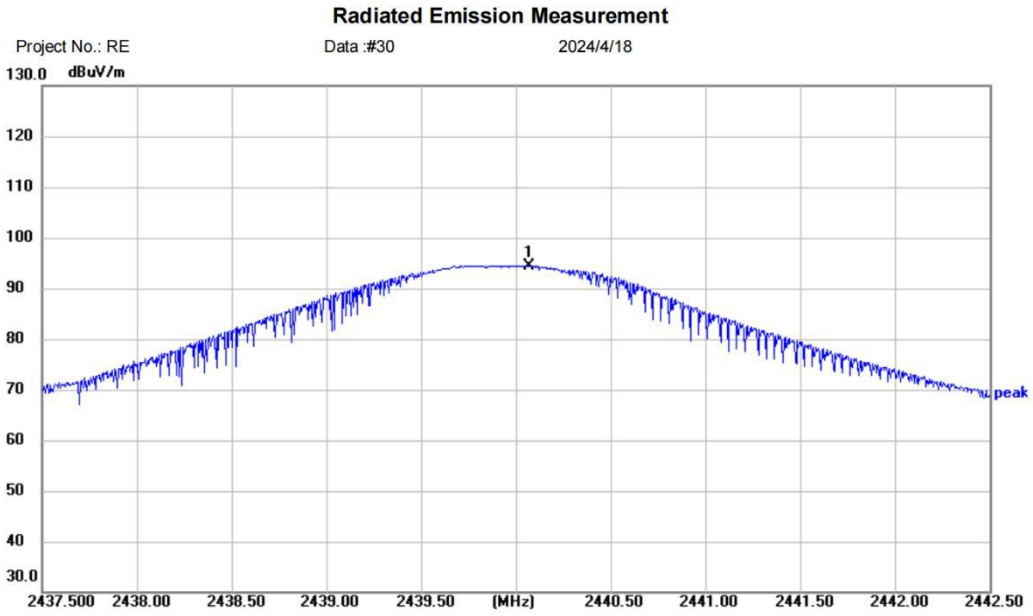
Site
Limit:
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2440
Note:

Polarization: *Horizontal*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2439.895	88.36	0.70	89.06			AVG	

Vertical peak



Site
Limit:
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2440
Note:

Polarization: *Vertical*
Power:

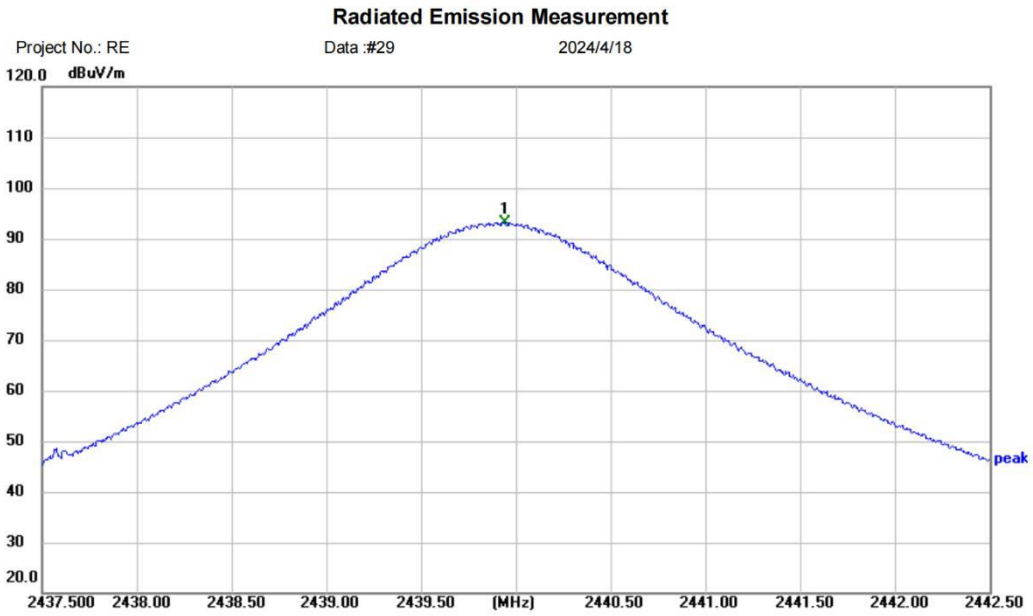
Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2440.070	93.73	0.70	94.43			peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Vertical AVG



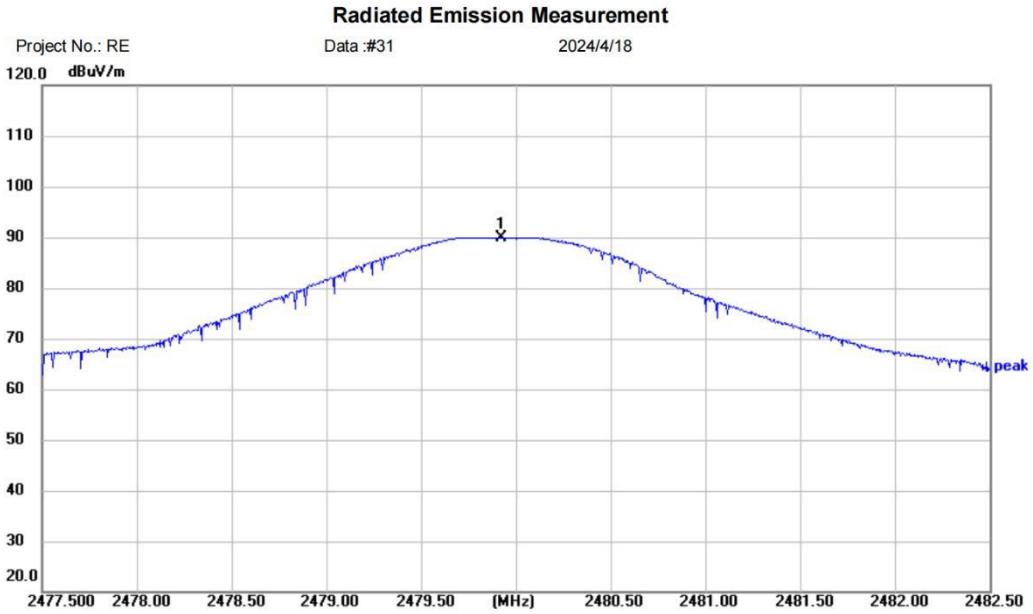
Site
Limit:
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2440
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2439.945	92.51	0.70	93.21			AVG	

2480 Horizontal peak



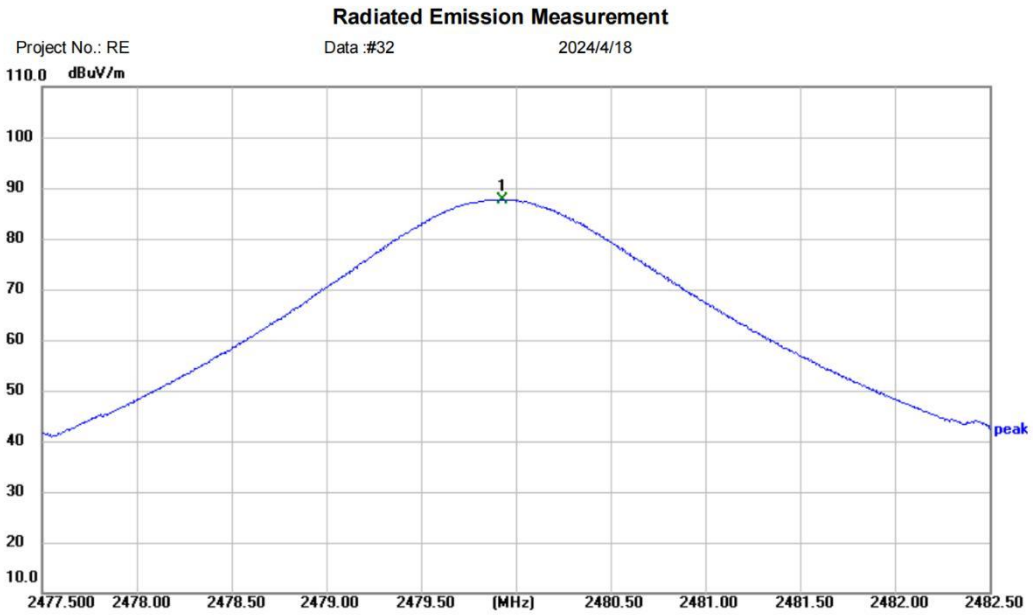
Site
Limit:
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2480
Note:

Polarization: *Horizontal*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2479.925	89.24	0.70	89.94			peak	

Horizontal AVG



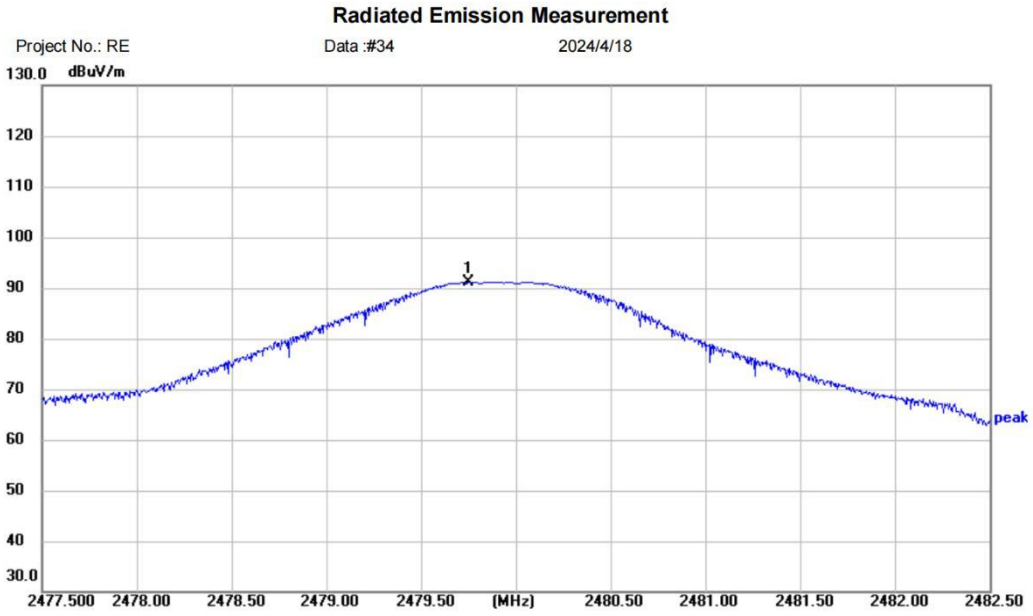
Site
Limit:
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2480
Note:

Polarization: *Horizontal*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2479.930	87.05	0.70	87.75			AVG	

Vertical peak



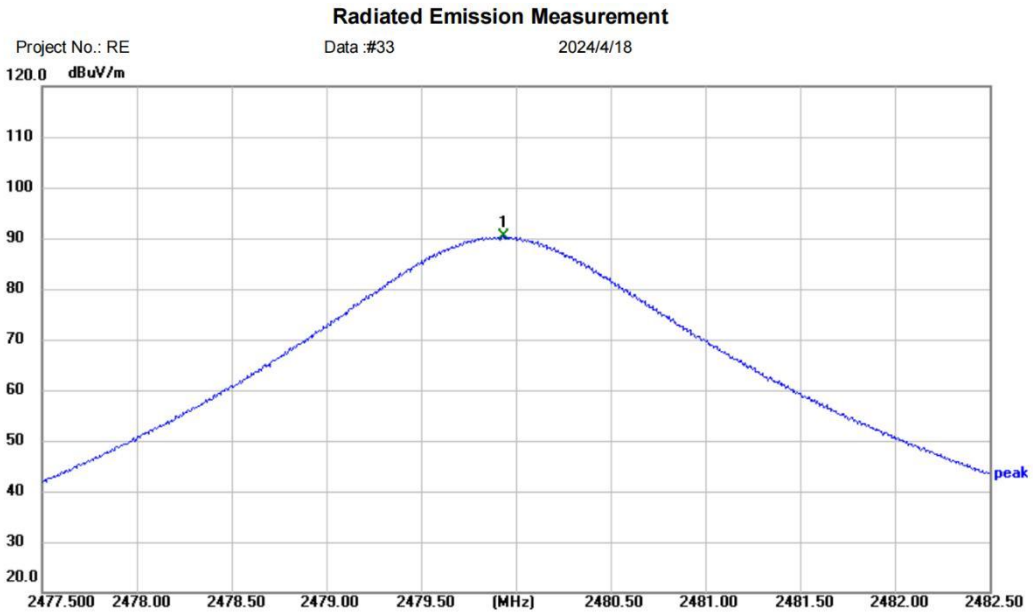
Site
Limit:
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2480
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2479.755	90.54	0.70	91.24			peak	

Vertical AVG



Site
Limit:
EUT: Bluetooth Wireless 2D
M/N: U-2B
Mode: 2.4G-2480
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2479.935	89.59	0.70	90.29			AVG	

NOTE: RBW >20dB BW VBW >=RBW, PK detector is for PK value, RMS detector is for AV value.

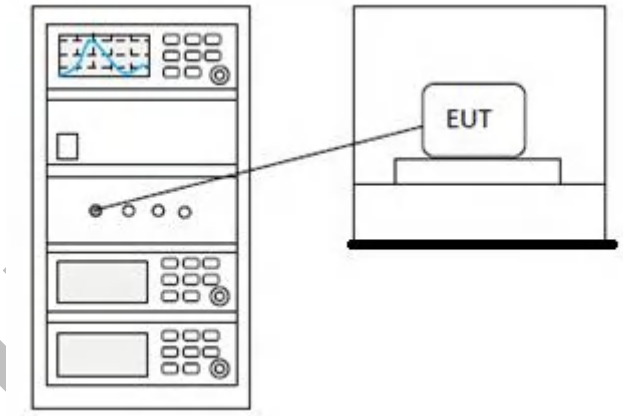
13 20DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.249
Test Method	ANSI C63.10 (2013) Section 6.9
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

13.1 LIMITS

Limit:	N/A

13.2 BLOCK DIAGRAM OF TEST SETUP



13.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

14 ANTENNA REQUIREMENT

Test Standard	47 CFR Part 15, Subpart C 15.249
Test Method	N/A

14.1 CONCLUSION

Standard Requirement:
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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3dBi.

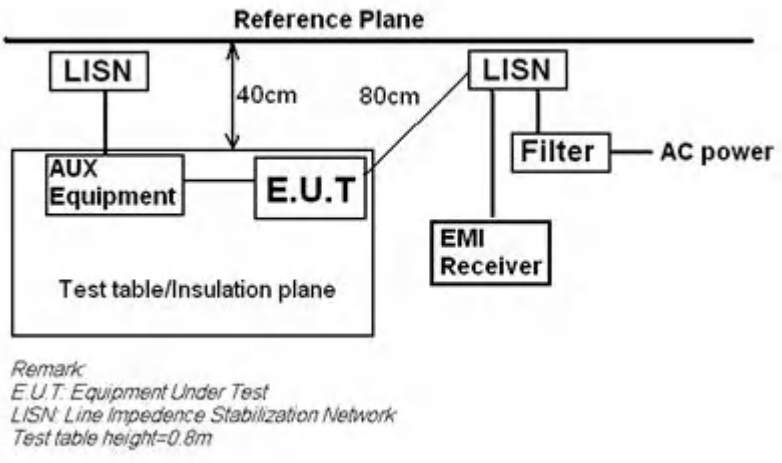
15 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

15.1 LIMITS

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		

15.2 BLOCK DIAGRAM OF TEST SETUP



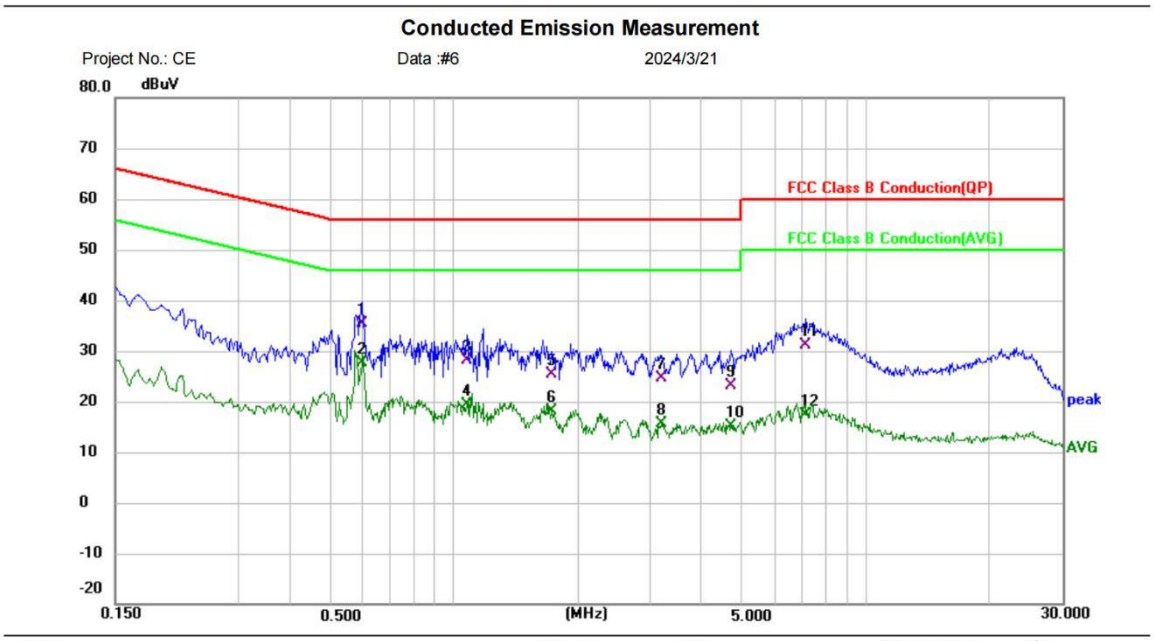
15.3 PROCEDURE

1) The mains terminal disturbance voltage test was conducted in a shielded room.
2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
Remark: LISN=Read Level+ Cable Loss+ LISN Factor

15.4 TEST DATA

[TestMode: Tx]; [Line: Line] ;[Power:AC120V/60Hz]



Site
Limit: FCC Class B Conduction(QP)
EUT: Bluetooth Wireless 2D
M/N: U2-B
Mode: 2.4G
Note:

Phase: L1
Power:
Distance:
RBW: 9 KHz
VBW: 30 KHz

Temperature: (C)
Humidity: %RH
Sweep Time: 10 ms

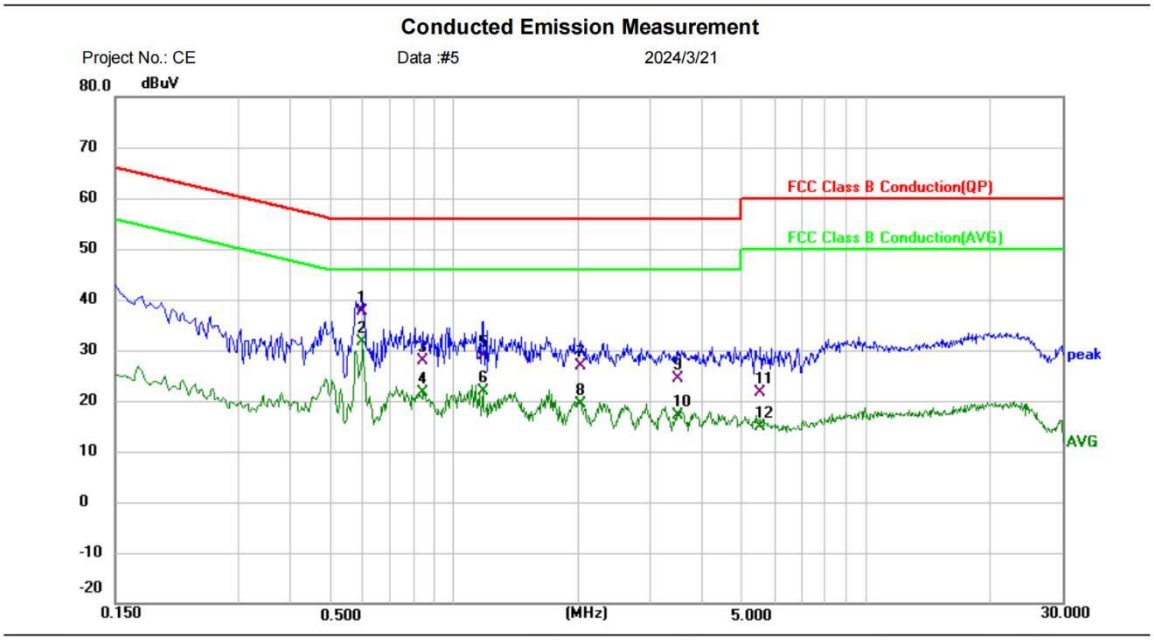
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		0.5940	25.34	9.92	35.26	56.00	-20.74	QP			
2	*	0.5940	17.67	9.92	27.59	46.00	-18.41	AVG			
3		1.0740	18.23	9.82	28.05	56.00	-27.95	QP			
4		1.0740	9.60	9.82	19.42	46.00	-26.58	AVG			
5		1.7260	15.31	10.05	25.36	56.00	-30.64	QP			
6		1.7260	8.06	10.05	18.11	46.00	-27.89	AVG			
7		3.1780	14.50	10.05	24.55	56.00	-31.45	QP			
8		3.1780	5.54	10.05	15.59	46.00	-30.41	AVG			
9		4.7180	12.91	10.18	23.09	56.00	-32.91	QP			
10		4.7180	4.91	10.18	15.09	46.00	-30.91	AVG			
11		7.1540	20.19	10.93	31.12	60.00	-28.88	QP			
12		7.1540	6.43	10.93	17.36	50.00	-32.64	AVG			

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESPI_1
L.I.S.N:
Spectrum Analyzer: ESPI
Engineer Signature:

Test Result: Pass

[TestMode: Tx]; [Line: Neutral] ;[Power:AC120V/60Hz]



Site	Phase:	*N*	Temperature: (C)
Limit: FCC Class B Conduction(QP)	Power:		Humidity: %RH
EUT: Bluetooth Wireless 2D	Distance:	RBW: 9 KHz	
M/N: U2-B		VBW: 30 KHz	Sweep Time: 10 ms
Mode: 2.4G			
Note:			

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		0.5980	27.81	9.86	37.67	56.00	-18.33	QP			
2	*	0.5980	21.77	9.86	31.63	46.00	-14.37	AVG			
3		0.8420	17.98	9.90	27.88	56.00	-28.12	QP			
4		0.8420	11.71	9.90	21.61	46.00	-24.39	AVG			
5		1.1780	18.97	9.89	28.86	56.00	-27.14	QP			
6		1.1780	12.01	9.89	21.90	46.00	-24.10	AVG			
7		2.0260	16.81	10.02	26.83	56.00	-29.17	QP			
8		2.0260	9.42	10.02	19.44	46.00	-26.56	AVG			
9		3.4940	14.34	10.05	24.39	56.00	-31.61	QP			
10		3.4940	7.19	10.05	17.24	46.00	-28.76	AVG			
11		5.5620	11.03	10.55	21.58	60.00	-38.42	QP			
12		5.5620	4.40	10.55	14.95	50.00	-35.05	AVG			

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESPI_1 Spectrum Analyzer: ESPI

L.I.S.N: Engineer Signature:

Test Result: Pass

Notes:

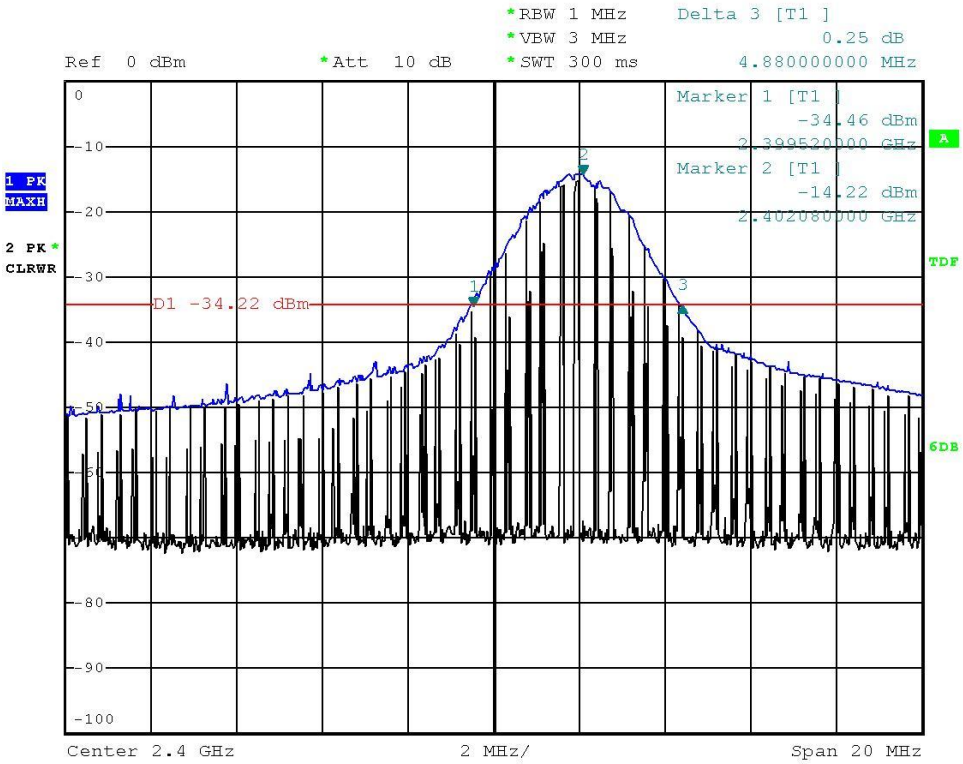
1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level =Receiver Read level + LISN Factor + Cable Loss.

16 APPENDIX1

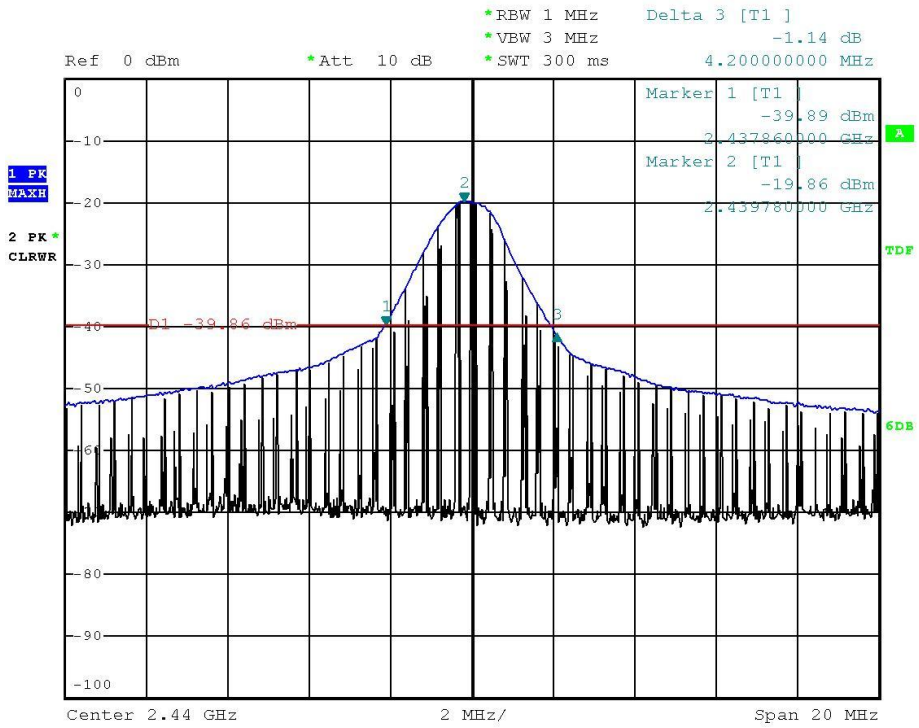
-20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	GFSK	2402	Ant1	4.88	Pass
NVNT	GFSK	2440	Ant1	4.20	Pass
NVNT	GFSK	2480	Ant1	3.52	Pass

-20dB Bandwidth NVNT GFSK 2402MHz Ant1



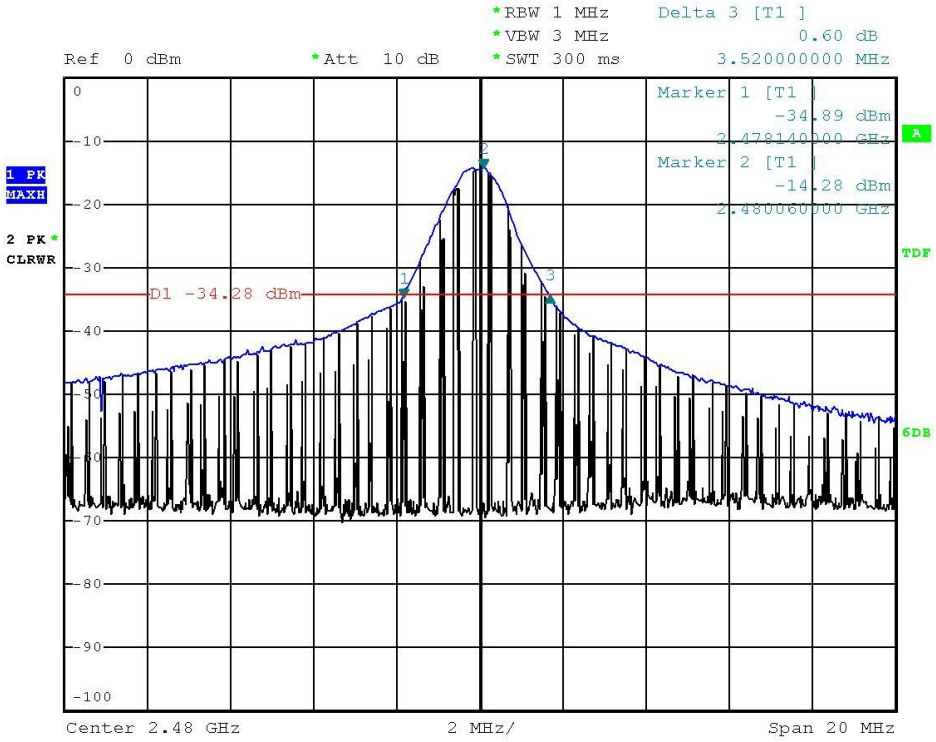
-20dB Bandwidth NVNT GFSK 2440MHz Ant1



jjjj

Date: 21.MAR.2024 18:08:01

-20dB Bandwidth NVNT GFSK 2480MHz Ant1

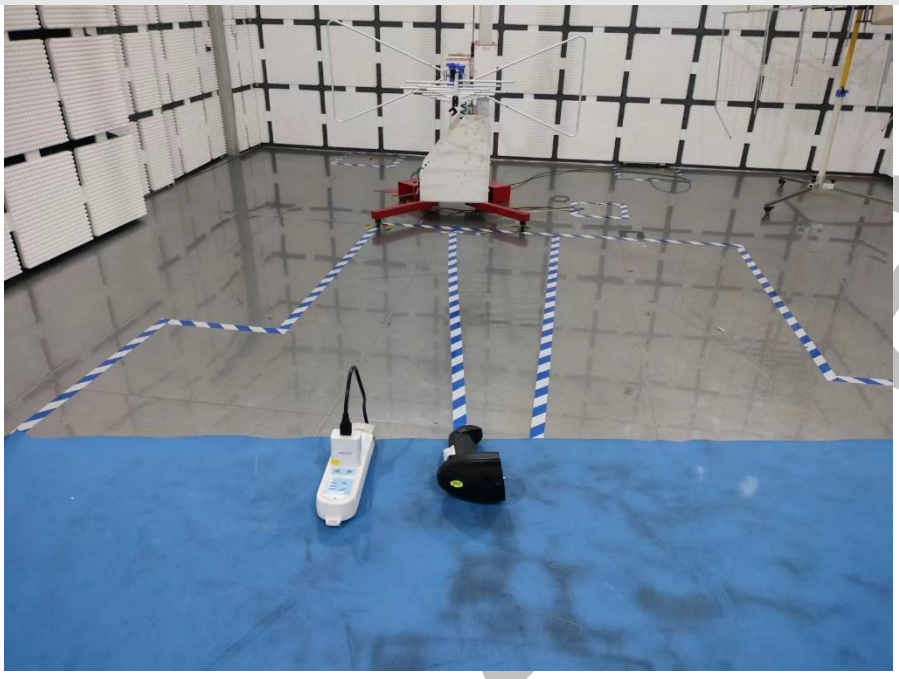


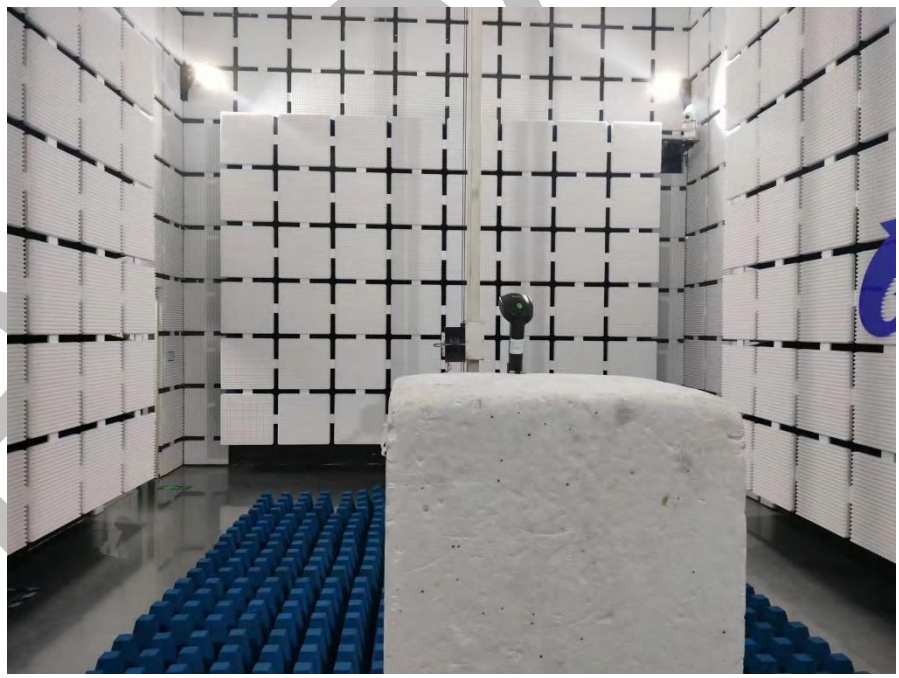
jjjj

Date: 21.MAR.2024 18:09:14

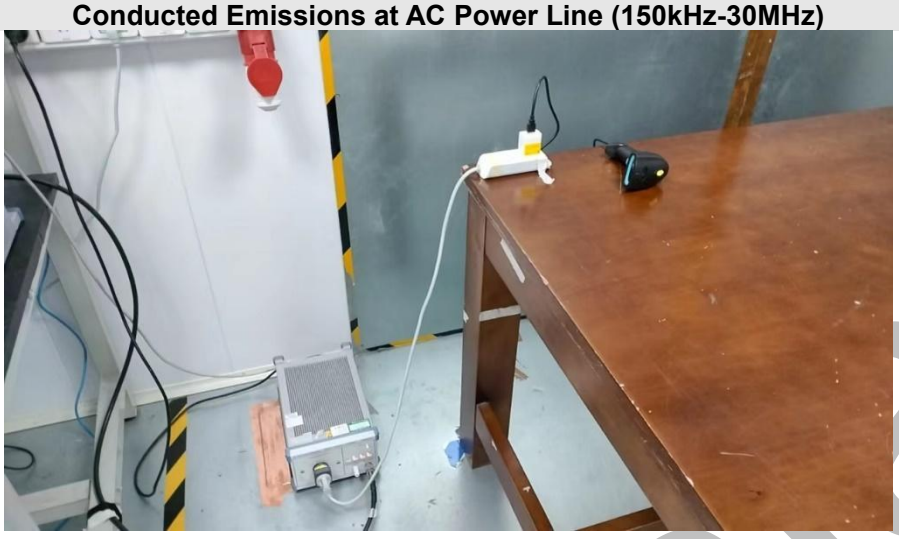
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Radiated Emissions





Conducted Emissions at AC Power Line (150kHz-30MHz)



APPENDIX B: PHOTOGRAPHS OF EUT

Reference to the test report No. BLA-EMC-202402-A4701

----END OF REPORT----

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