



Report No.: ET-25114367E02

TEST REPORT

Applicant: KEYDIY
Address of Applicant: Room 201, Building A, 5#, Chuangwei Innovation Valley, Tangtou No.1 Road, Shiyan Subdistrict, Bao'an Shenzhen China
Manufacturer/Factory: SHENZHEN YI CHE TECHNOLOGY CO.,LTD
Address of Manufacturer/Factory: Room 201, Building A, 5#, Chuangwei Innovation Valley, Tangtou No.1 Road, Shiyan Subdistrict, Bao'an Shenzhen
Product Name: PHONE AS KEY
Model No.: PAK06,PAK06-ZB,PAK06-TIB,PAK06-FGB,PAK06-TB,PAK06-MLB,PAK06-T2L06
Trade Mark: KEYDIY
FCC ID: 2A3LS-PAK06
Applicable standards: CFR Title 47 Part 15.231
Date of Test: Nov.13, 2025-Dec.16, 2025
Date of report issued: Dec.17, 2025

Remark:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver

Prepared By

Shenzhen ETR Standard Technology Co., Ltd.

Address: No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinxing, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Compiled by:

Project Engineer

Reviewed by:

Project Manager

Approved by:

Authorized Signature



Report Revision History		
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1 Test Summary

Test Item	Section in CFR 47	Result	Test by
Antenna requirement	15.203	Pass	/
Conducted emission	15.207	Pass	Jason Huang
Transmitter field strength	15.231(b)	Pass	Yvan
Radiated emission and Restricted band	15.205 and 15.209	Pass	Jason Huang
Occupied Bandwidth	15.215	Pass	Yvan
Release time	15.231(a)(2)	Pass	Yvan

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Test according to ANSI C63.10-2020
3. Note: Compliance determination rules
 - 1).The Compliance determination of test results does not take into account measurement uncertainty. Measurement results are determined based on regulatory limitations or requirements specified by the applicant/manufacture. If measurement uncertainty is taken into account, the applicant/manufacture will bear all possible risks of non-compliance.
 - 2).The measurement uncertainty please refer to each test result in the "Measurement Uncertainty"

Measurement Uncertainty

Test Item	Measurement Uncertainty	Notes
Occupied Channel Bandwidth	0.55%	(1)
RF output power, conducted	±0.57 dB	(1)
Power Spectral Density, conducted	±0.61 dB	(1)
Unwanted Emissions, conducted	±0.64 dB	(1)
AC Power Line Conducted Emission	± 2.55 dB	(1)
Radiated emissions 9K-30MHz	±3.79 dB	(1)
Radiated emissions 30M- 1GHz	± 4.24 dB	(1)
Radiated emissions 1GHz-18GHz	± 4.26 dB	(1)
Radiated emissions 18GHz-40GHz	±4.17 dB	(1)
Frequency error	Uc=1X10-7	(1)
Duty Cycle	0.03%	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

2 General Information

2.1 General Description of EUT

Product Name:	PHONE AS KEY
Model No.:	PAK06,PAK06-ZB,PAK06-TIB,PAK06-FGB,PAK06-TB,PAK06-MLB,PAK06-T2L06
Model of difference:	All models have the same circuit and RF module, except for the model name
Test Model:	PAK06
Sample(s) Status:	Engineer sample
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	433.92MHz
Channel numbers:	1
Channel separation:	N/A
Modulation type:	ASK
Antenna Type:	PCB Antenna
Antenna gain:	-11.89dBi Max (Declare by applicant)
Battery:	DC 3.65V 2.6Ah
Power supply:	DC 5V From Adapter or DC 3.65V From Adapter
Connecting I/O port(s)	Please refer to User's Manual

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual

2.2 Test mode

Test mode	Description
Mode 1	TX Mode: During test, Keep EUT is in continuous transmission mode, New battery is used during all test.

2.3 Description of Support Units

Equipment	Model	S/N	Manufacturer
/	/	/	/

2.4 Test Facility

Test laboratory:	Shenzhen ETR Standard Technology Co., Ltd.
CNAS Registration Number:	L11864
A2LA Certificate Number:	6640.01
FCC Designation Number:	CN1326
FCC Test Firm Registration:	183064
IC Company Number:	28440
IC CAB identifier:	CN0132

2.5 Additional Instructions

None.

3 Test Instruments list

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	100605	2025.3.06	2026.3.05
2	EMI Test Receiver	Rohde&schwarz	ESCI3	102696	2025.3.06	2026.3.05
3	Loop Antenna	schwarabeck	FMZB 1519 B	FMZB 1519 B	2024.3.22	2026.3.21
4	Broadband antenna	schwarabeck	VULB9168	1064	2024.3.26	2026.3.25
5	Horn antenna	schwarabeck	BBHA9120D	9120D-1145	2024.3.22	2026.3.21
6	amplifier	EMtrace	RP01A	50117	2025.3.06	2026.3.05
7	AMN	schwarabeck	NSLK8127	8127483	2025.3.06	2026.3.05
8	AMN	ETS	3186/2NM	1132	2025.3.06	2026.3.05
9	10dB attenuator	HUBER+SUHN R	10dB	/	2025.3.06	2026.3.05
10	amplifier	Space-Dtronics	EWLAN0118G-P40	19113001	2025.3.06	2026.3.05
11	Filter	Xingbo	XBLBQ-GTA19	210410-3-1	2025.3.06	2026.3.05
12	Spectrum analyzer	KEYSIGHT	N9020A	MY55370280	2025.3.06	2026.3.05
13	Power control box	MWRFTest	MW100-PSB	MW201020JYT	2025.3.06	2026.3.05
14	Power Sensor	Keysight	U2021XA	MY54111006	2025.3.06	2026.3.05
15	amplifier	SKET	LNPA_1840-50 (18-40GHz)	SK2019040302	2025.3.06	2026.3.05
16	Horn antenna	schwarabeck	BBHA 9170	946	2024.3.22	2026.3.21
17	Temp. & Humidity Chamber	Jiecheng Instrument	QA-LP-80	20160705001	2025.3.07	2026.3.06

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

Software Name	Manufacturer	Model	Version
Conducted	Farad	EZ-EMC	Ver.EMC-CON 3A1.1
Radiated	Farad	EZ-EMC	Ver.FA-03A2 RE

4 Test results and Measurement Data

4.1 Antenna requirement

Standard requirement:
FCC part 15.203 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 permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
EUT Antenna:
<i>The antenna is PCB antenna, the best case gain of the antenna is -11.89dBi, reference to the Internal photos for details</i>

4.2 Conducted Emissions

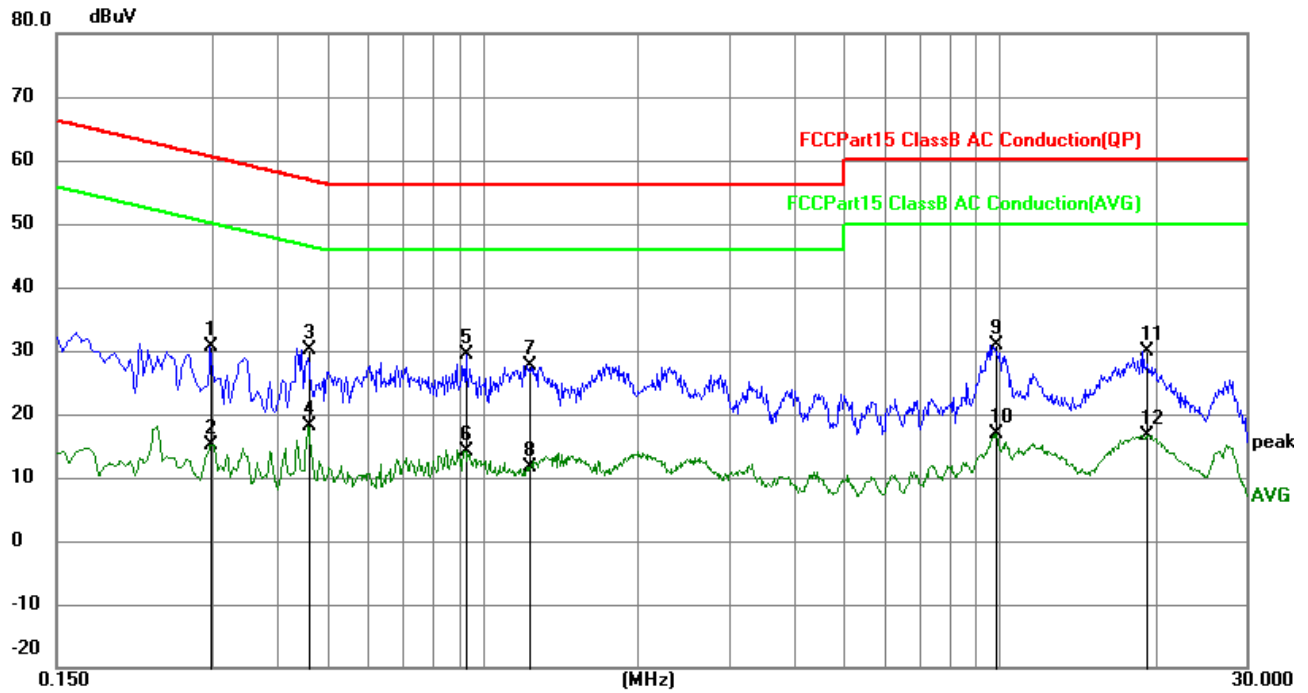
Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2020						
Test Frequency Range:	150KHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto						
Limit:	Frequency range (MHz)		Limit (dBuV)				
			Quasi-peak		Average		
	0.15-0.5		66 to 56*		56 to 46*		
	0.5-5		56		46		
	5-30		60		50		
* Decreases with the logarithm of the frequency.							
Test setup:	Reference Plane 40cm LISN AUX Equipment E.U.T Test table/Insulation plane 80cm LISN Filter AC power EMI Receiver Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m						
Test procedure:	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2020 on conducted measurement.						
Test Instruments:	Refer to section 3.0 for details						
Test mode:	Refer to section 2.2 for details						
Test environment:	Temp.:	24.4°C	Humid.:	41%	Press.:	1012mbar	
Test voltage:	AC 120V, 60Hz						
Test results:	Pass						

Remark:

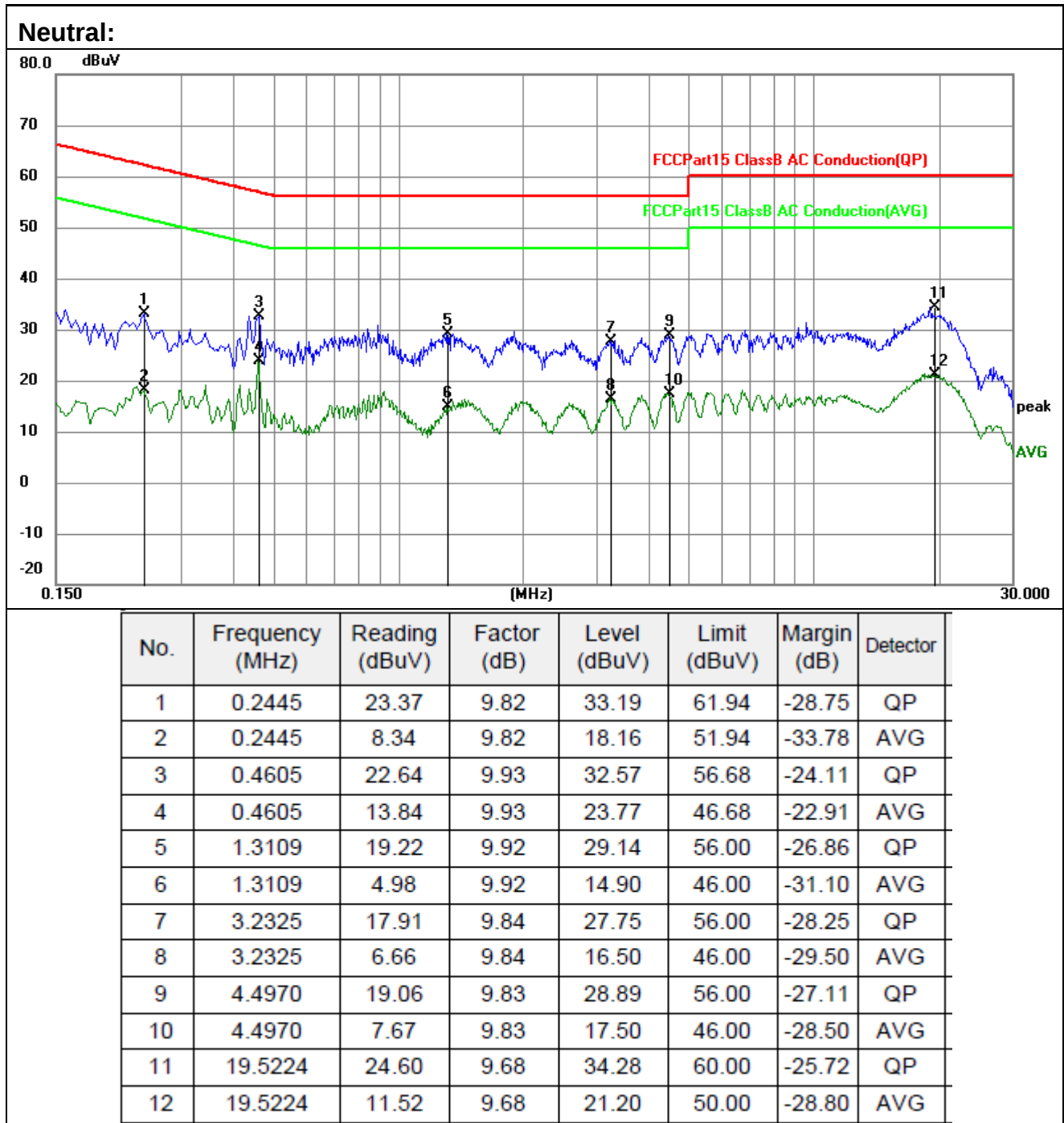
1. Both high voltage and low voltage have been tested, and the report only shows the worst case data with AC 120V/60Hz.

Measurement data

Line:



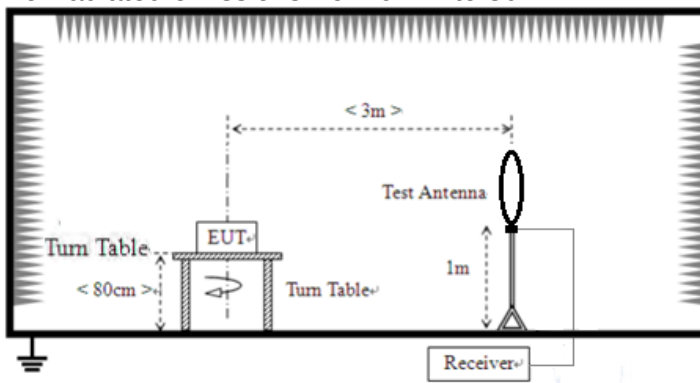
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2985	20.89	9.84	30.73	60.28	-29.55	QP
2	0.2985	5.28	9.84	15.12	50.28	-35.16	AVG
3	0.4605	20.27	9.93	30.20	56.68	-26.48	QP
4	0.4605	8.23	9.93	18.16	46.68	-28.52	AVG
5	0.9239	19.50	9.96	29.46	56.00	-26.54	QP
6	0.9239	4.27	9.96	14.23	46.00	-31.77	AVG
7	1.2300	17.74	9.94	27.68	56.00	-28.32	QP
8	1.2300	1.62	9.94	11.56	46.00	-34.44	AVG
9	9.8430	21.00	9.84	30.84	60.00	-29.16	QP
10	9.8430	7.14	9.84	16.98	50.00	-33.02	AVG
11	19.2435	20.24	9.69	29.93	60.00	-30.07	QP
12	19.2435	6.97	9.69	16.66	50.00	-33.34	AVG

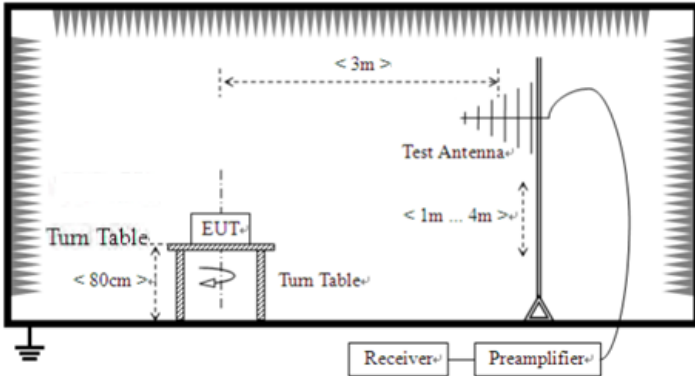
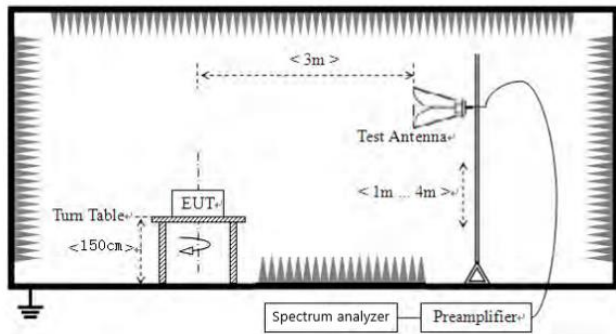


Notes:

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. Level = Receiver Read level + Factor (Factor = LISN Factor + Cable Loss + Attenuator Factor)
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

4.3 Radiated Emission Measurement

Test Requirement:	FCC Part15 C Section 15.209 & 15.231 (b) and 15.205(a). RSS-210 D & RSS-Gen Clause 8.9&8.10				
Test Method:	ANSI C63.10: 2013 & RSS-Gen				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz-150kHz	Quasi-peak	200Hz	300Hz	Quasi-peak Value
	150kHz-30MHz	Quasi-peak	9kHz	10kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit: (Field strength of the fundamental signal)	Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)		Field strength of spurious emissions (microvolts/meter)	
	40.66-40.70	2.250		225	
	70-130	1.250		125	
	130-174	11250 to 3750		1125 to 375	
	174-260	3.750		375	
	260-470	13750 to 12500		1375 to 1250	
	Above 470	12500		1250	
Limit: (Spurious Emissions)	Frequency	Limit (uV/m)		Remark	
	0.009MHz-0.490MHz	2400/F(kHz) @300m		Quasi-peak Value	
	0.490MHz-1.705MHz	24000/F(kHz) @30m		Quasi-peak Value	
	1.705MHz-30.0MHz	30 @30m		Quasi-peak Value	
	30MHz-88MHz	100 @3m		Quasi-peak Value	
	88MHz-216MHz	150 @3m		Quasi-peak Value	
	216MHz-960MHz	200 @3m		Quasi-peak Value	
	960MHz-1GHz	500 @3m		Quasi-peak Value	
	Above 1GHz	500 @3m		Average Value	
		5000 @3m		Peak Value	
Limit: (band edge)	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Test setup:	For radiated emissions from 9kHz to 30MHz 				

	For radiated emissions from 30MHz to1GHz  For radiated emissions above 1GHz 					
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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.					
Test Instruments:	Refer to section 3.0 for details					
Test mode:	Refer to section 2.2 for details					
Test environment:	Temp.:	28.1 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	DC 3.7V					
Test results:	Pass					

Measurement Data**4.3.1 Field Strength of Fundamental****Peak value:**

Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
433.92	100.10	-16.01	84.09	100.83	-16.74	Vertical
433.92	101.95	-16.01	85.94	100.83	-14.89	Horizontal

Average value:

Frequency (MHz)	Peak Level (dBuV/m)	DC Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
433.92	84.09	-8.70	75.39	80.83	-5.44	Vertical
433.92	85.94	-8.70	77.24	80.83	-3.59	Horizontal

Remark: Average=Peak+ Duty Cycle factor (see 4.5 clause)

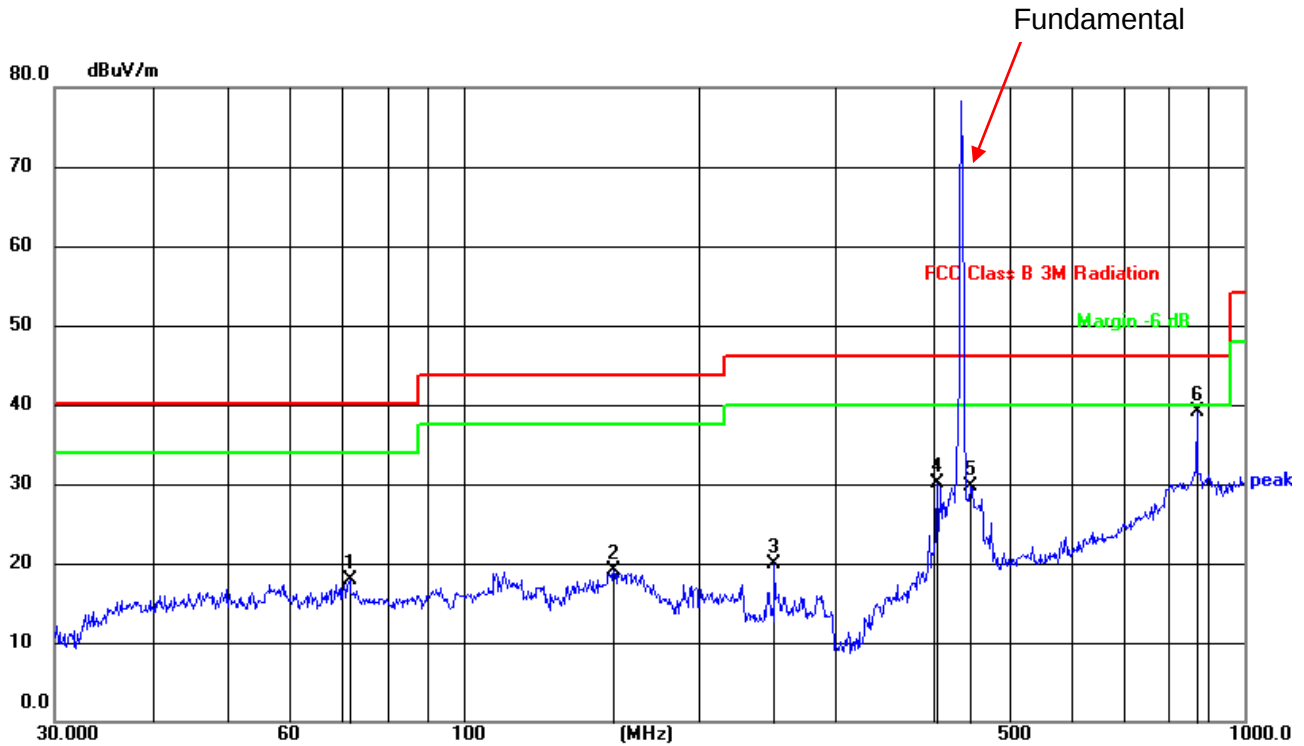
4.3.2 Spurious emissions and Bandedge

■ Below 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

■ Below 1GHz

Horizontal:



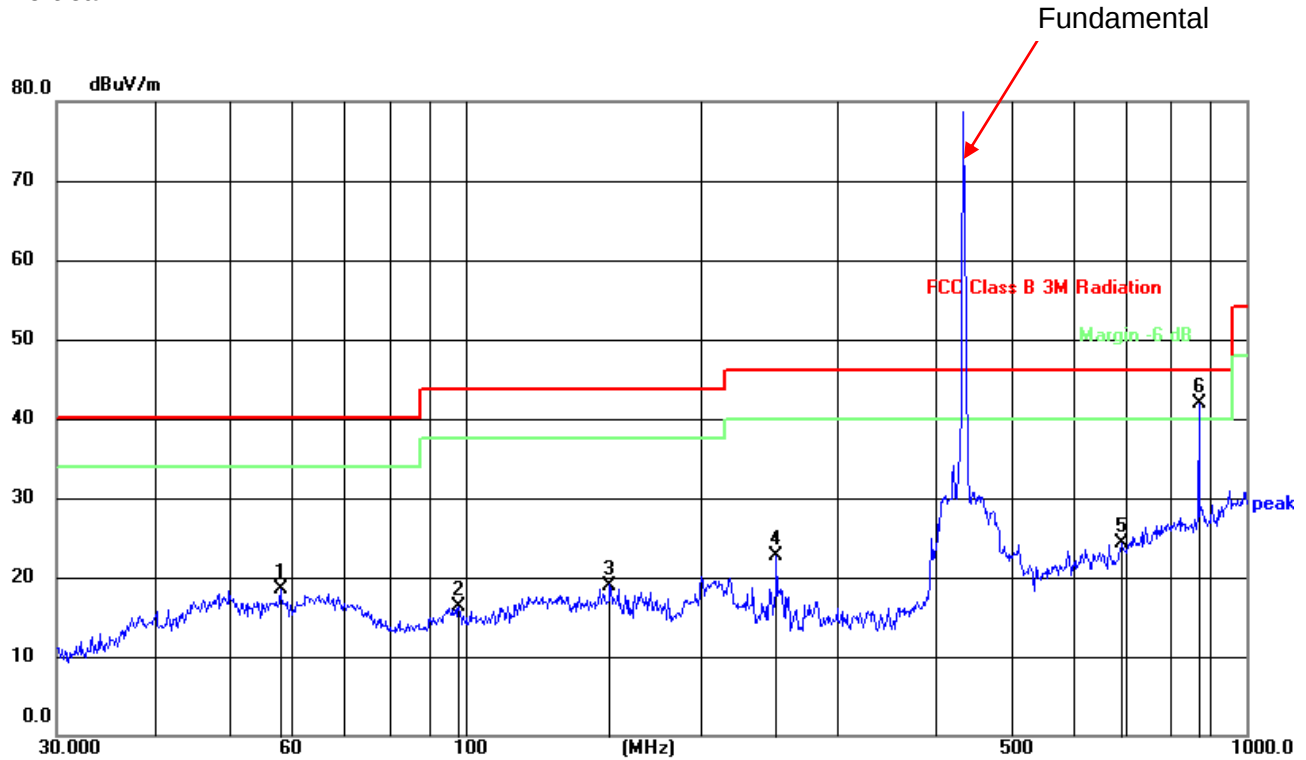
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	71.5805	42.29	-24.47	17.82	40.00	-22.18	QP
2	155.9100	39.63	-20.54	19.09	43.50	-24.41	QP
3	250.3009	42.22	-22.25	19.97	46.00	-26.03	QP
4	404.6664	47.18	-17.10	30.08	46.00	-15.92	QP
5	446.4139	45.41	-15.65	29.76	46.00	-16.24	QP
6	869.1300	45.14	-5.95	39.19	46.00	-6.81	peak

Average value:

Frequency (MHz)	Peak Level (dBuV/m)	Duty Cycle factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
869.1300	39.19	-8.7	30.49	60.83	-30.34	Horizontal

Remark: Average=Peak+ Duty Cycle factor

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	57.9992	40.87	-22.40	18.47	40.00	-21.53	QP
2	98.1418	41.48	-25.25	16.23	43.50	-27.27	QP
3	153.2000	39.52	-20.52	19.00	43.50	-24.50	QP
4	250.3009	44.96	-22.25	22.71	46.00	-23.29	QP
5	691.9864	33.64	-9.40	24.24	46.00	-21.76	QP
6	869.1300	47.81	-5.95	41.86	46.00	-4.14	peak

Average value:

Frequency (MHz)	Peak Level (dBuV/m)	Duty Cycle factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
869.1300	41.86	-8.7	33.16	60.83	-27.67	vertical

Average=Peak+ Duty Cycle factor

■ Above 1GHz

Peak value:

No.	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Polar
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(H/V)
1	1301.332	65.26	-15.66	49.60	74.00	-24.40	Horizontal
2	1736.483	65.32	-15.90	49.42	80.83	-31.41	Horizontal
3	2168.510	59.80	-15.38	44.42	80.83	-36.41	Horizontal
4	2603.351	60.94	-13.64	47.30	80.83	-33.53	Horizontal
1	1301.174	57.90	-15.66	42.24	80.83	-38.59	Vertical
2	1736.273	58.41	-15.90	42.51	80.83	-38.32	Vertical
3	2168.247	59.51	-15.38	44.13	80.83	-36.70	Vertical
4	2608.020	67.20	-13.63	53.57	80.83	-27.26	Vertical

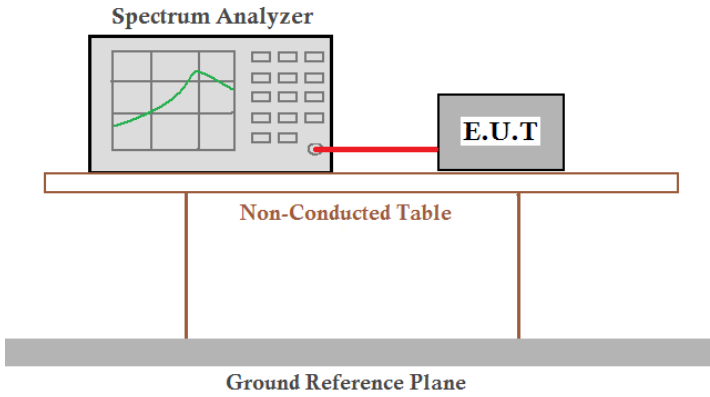
Average value:

No.	Frequency	Peak	DC Factor	Result	Limits	Margin	Polar
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(H/V)
1	1301.332	49.60	-8.70	40.90	54.00	-13.10	Horizontal
2	1736.483	49.42	-8.70	40.72	60.83	-20.11	Horizontal
3	2168.510	44.42	-8.70	35.72	60.83	-25.11	Horizontal
4	2603.351	47.30	-8.70	38.60	60.83	-22.23	Horizontal
1	1301.174	42.24	-8.70	33.54	60.83	-27.29	Vertical
2	1736.273	42.51	-8.70	33.81	60.83	-27.02	Vertical
3	2168.247	44.13	-8.70	35.43	60.83	-25.40	Vertical
4	2608.020	53.57	-8.70	44.87	60.83	-15.96	Vertical

Remark:

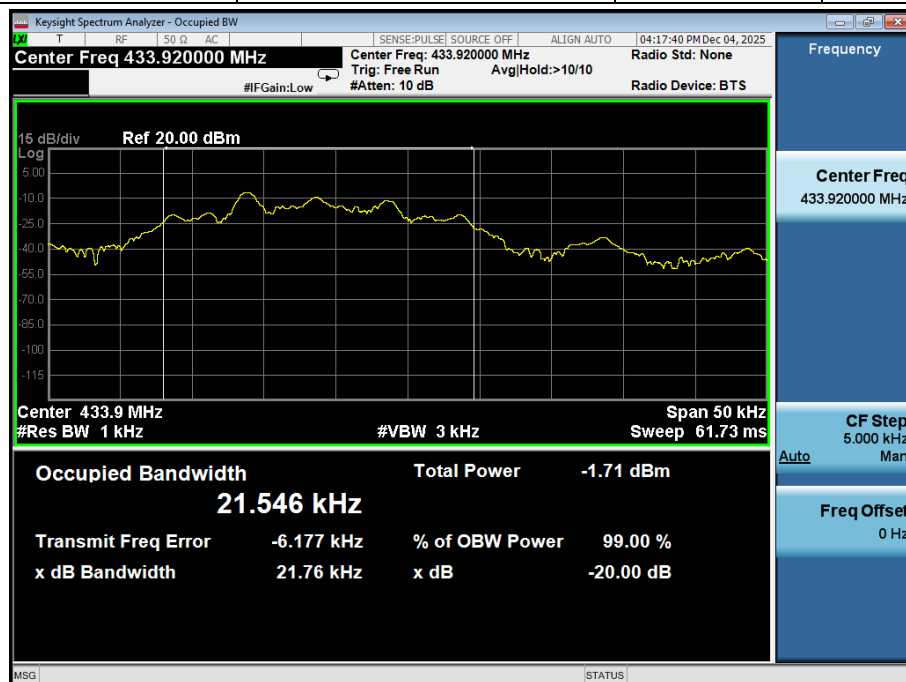
1. Final Level =Receiver Read level +Correction Factor(Antenna Factor + Cable Loss – Preamplifier Factor)
2. The emission levels of other frequencies are more than 20 dB below the limit and not show in test report.
3. “*”, means this data is the too weak instrument of signal is unable to test.
4. Average=Peak+ Duty Cycle factor

4.4 20dB Occupy Bandwidth

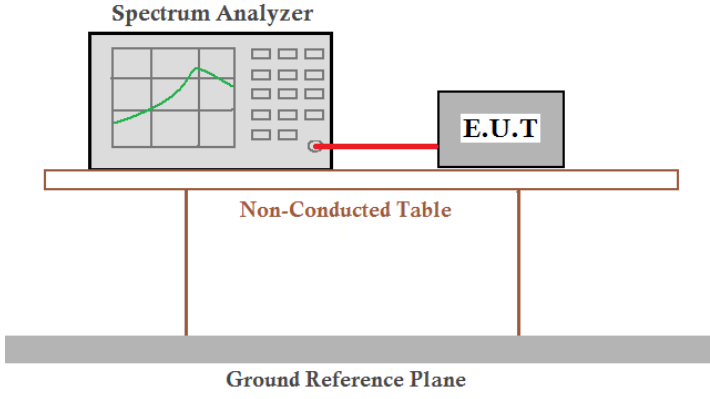
Test Requirement:	FCC Part15 C Section 15.231
Test Method:	ANSI C63.10:2020
Limit:	20dB bandwidth of the emissions shall not exceed 0.25% of the center frequency
Test setup:	
Test Procedure:	With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Measurement Data

Center Frequency	20dB bandwidth(kHz)	Limit(kHz)	Result
433.92MHz	21.76	1084.8	Pass



4.5 DUTY CYCLE

Test Requirement:	FCC Part15 C Section 15.231
Test Method:	ANSI C63.10:2020
Limit:	N/A
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.
Test Procedure:	1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below. 2. The Duty Cycle Was Determined By The Following Equation: To Calculate The Actual Field Intensity,The Duty Cycle Correction Factor In Decibel Is Needed For Later Use And Can Be Obtained From Following Conversion Duty Cycle(%)=Total On Interval In A Complete Pulse Train/ Length Of A Complete Pulse Train * % Duty Cycle Correction Factor(Db)=20 * Log10(Duty Cycle(%))
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

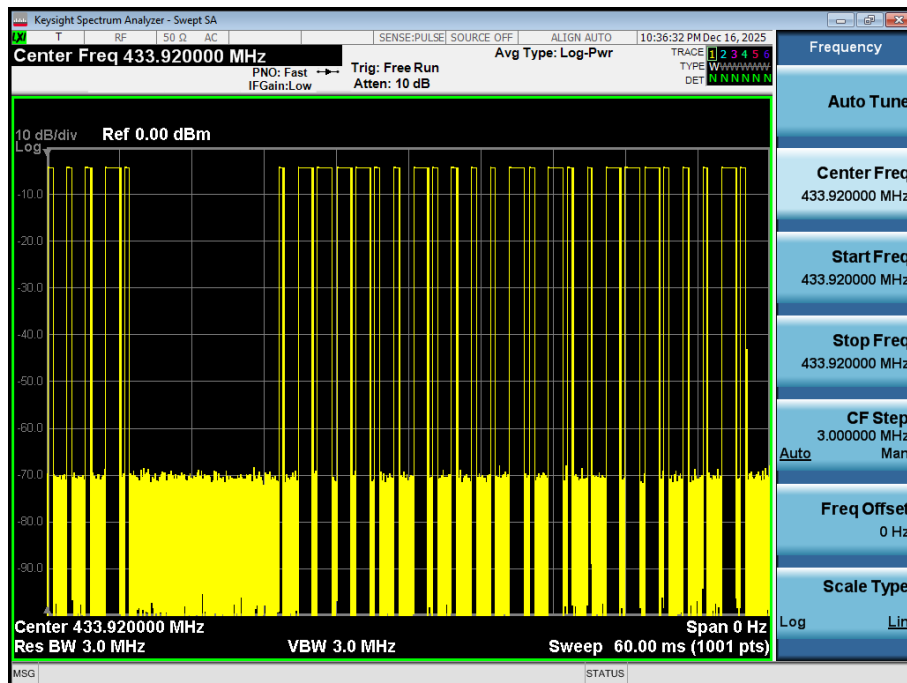
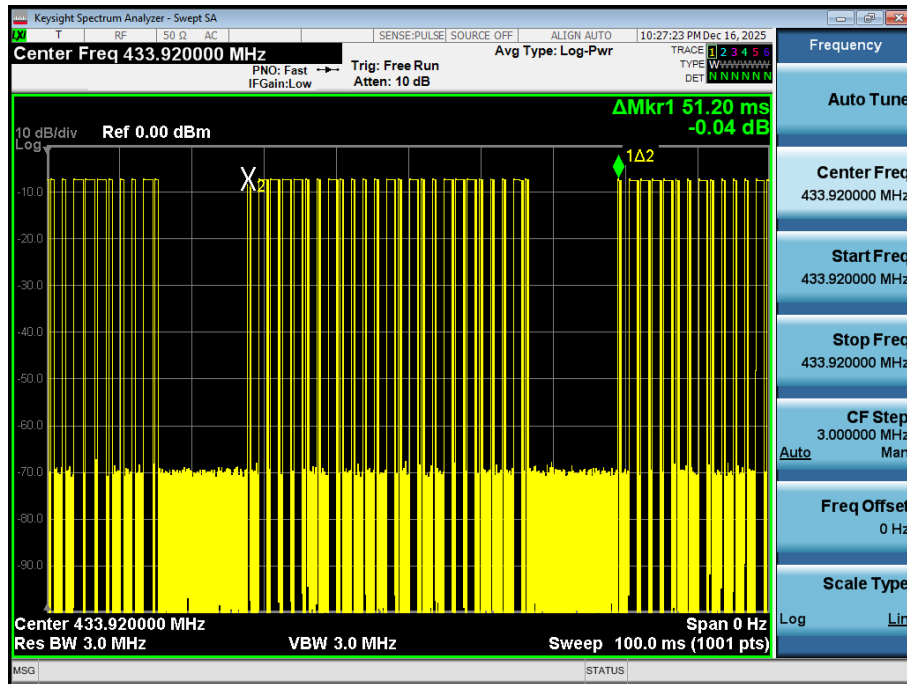
Test data:

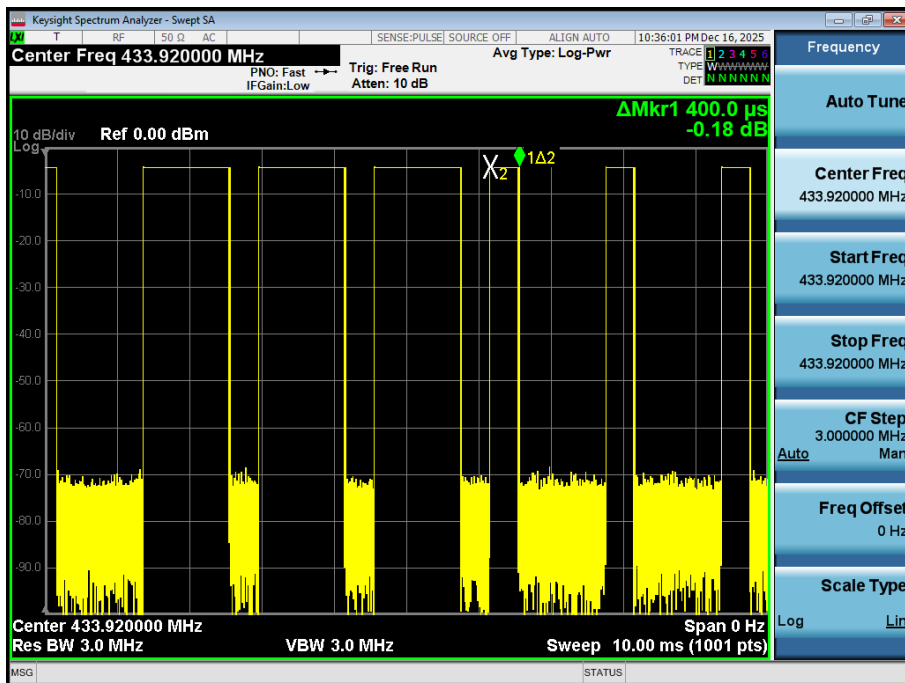
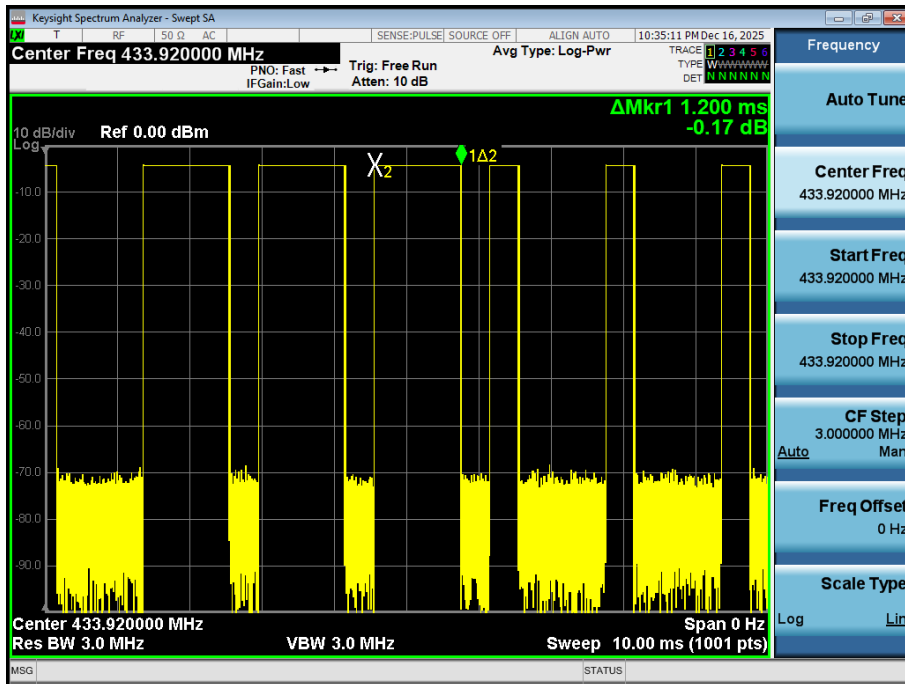
$$T_{on} = (11 \times 1.2\text{ms} + 14 \times 0.4\text{ms}) = 18.8\text{ms}$$

$$T_p = 51.2\text{ms}$$

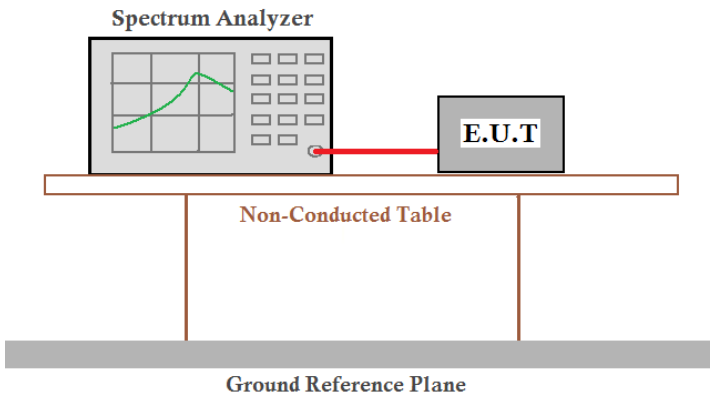
$$\text{Duty cycle} = T_{on} / T_p \times 100\% = 18.8 / 51.2 \times 100\% = 36.72\%$$

$$\text{DC Correction Factor} = 20\log(\text{Duty cycle}) = 20\log(0.3672) = -8.7$$



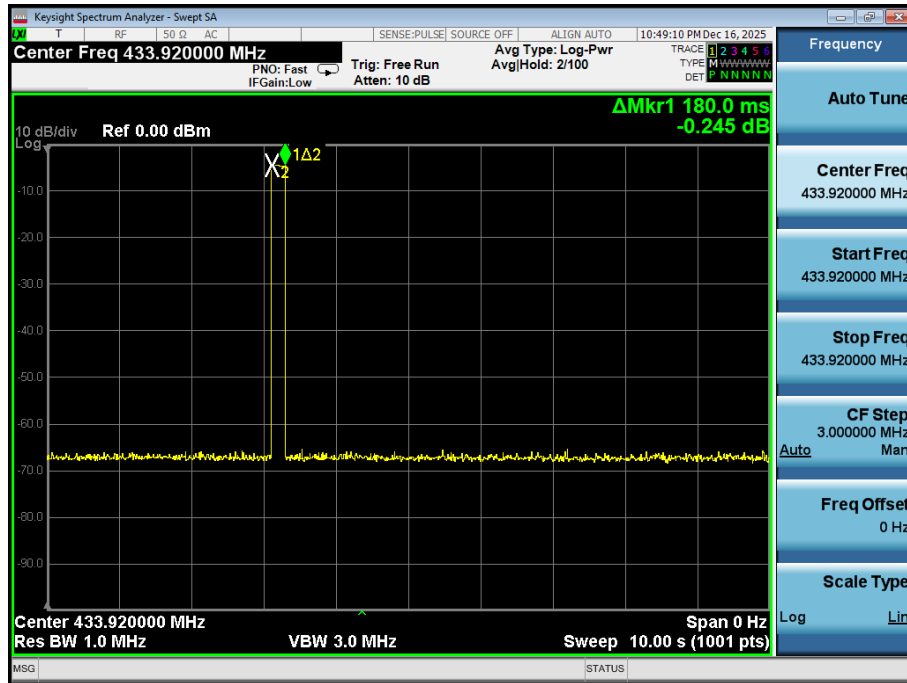


4.6 Release time

Test Requirement:	FCC Part15 C Section 15.231
Test Method:	ANSI C63.10:2020
Limit:	5s
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.
Test Procedure:	The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below. Spectrum Setting: RBW= 1MHz, VBW=3MHz, Sweep time = 10s. Note: (1)Refer to the plot (As Below), We find a manumotive operated transmitter shall employ a switch that will automatically deactivate the transmitteri immediately, within not more than 5 seconds of being released. (2)The EUT is comply with FCC PART 15 clause 15.231(a)(1). Manumotive working mode are pre-tested. and only the worst result is reported
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
Test results:	Pass

Test Result:

Cease time(s)	Limit(s)	Result
0.180	5	Pass





5 Test Setup Photo

Reference to the file No.: ET-25114367SP for details.

6 EUT Constructional Details

Reference to the file No.: ET-25114367EP and ET-25114367IP for details.

-----End-----