

Test Report

Product: Find My Passport Wallet With Wireless Charging

Trade Mark: 
TRAVELDEPOT

Model Number: 300 0014 TD2

FCC ID: 2ADH6-3000014

Prepared for

E-filiate, Inc.

11321 White Rock Rd. Rancho Cordova, CA 95742 USA

Prepared by

Shenzhen HongBiao Certification& Testing Co., Ltd

Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China

Tel.: +86-755-2998 9321 Fax.: +86-755-2998 5110

Website: <http://www.sz-hongbiao.com>

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TEST RESULT CERTIFICATION

Applicant's Name..... : E-filliate, Inc.
Address : 11321 White Rock Rd. Rancho Cordova, CA 95742 USA
Manufacturer's Name : Shenzhen XinNengDa Technology Co.,Ltd
301, Building A4, No. 11, Tianyang 4th Road, Dongfang
Address : Community, Songgang Street, Bao'an District, Shenzhen,
Guangdong, China

Product description

Product name : Find My Passport Wallet With Wireless Charging
Model Number : 300 0014 TD2
Standards : FCC Part 15.247
Test procedure..... : IEEE/ANSI C63.10-2020
KDB 558074 D01 15.247 Meas Guidance v05r02

This device described above has been tested by Shenzhen HongBiao Certification& Testing Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

Date of Test

Date (s) of performance of tests: Feb. 20, 2025~ Feb. 27, 2025
Test Result.....: **Pass**

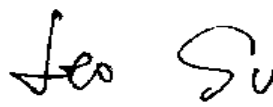
Testing Engineer :


(Z o e S u)

Technical Manager :


(G a r y L u)

Authorized Signatory :


(L e o S u)

[illegible]

1 General Description

1.1 Description of EUT

Product name:	Find My Passport Wallet With Wireless Charging
Model name:	300 0014 TD2
Series Model:	300 0014, 300 0014 TD, 300 0014 TDX
Different of series model:	Except for the model name, appearance color and appearance shape of wallet, all models are the same circuit and module.
Operation frequency:	2402-2480MHz
Modulation type:	GFSK
Bit Rate of transmitter:	1 Mbps, 2 Mbps
Antenna type:	Chip Antenna
Antenna gain:	1.7dBi
Max. output power:	5.02dBm
Hardware version:	V1.0
Software version:	V1.0
Battery:	DC 3.7V
Power supply:	DC 3.7V from battery
Adapter information:	N/A

1.2 Test Mode

Test Mode	Channel	Frequency (MHz)
BLE 1M	00	2402
BLE 1M	19	2440
BLE 1M	39	2480
BLE 2M	00	2402
BLE 2M	19	2440
BLE 2M	39	2480

1.3 Operation Channel list

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

1.4 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.5 Power setting configuration parameters

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters.

Test software Version		Rev2.1	
Frequency	2402 MHz	2440 MHz	2480 MHz
Parameters	Default	Default	Default
RF cable			
Description	Connector	Length	Supplied by
Antenna Cable	SMA	10cm	Applicant

Note: Disclaimer: the loss of RF cable is too small and can be ignored.

1.6 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
Notebook	BDR-WDH	A3RQPM242 0004454	HONR
Adapter	CD289	35810	Ugreen Group Limited
Wireless charger	SAWA-129-12512A	/	/

Note: The laptop is used to assist the RF test. In order to prevent the laptop from causing unnecessary impact on the test, the laptop will be removed from the test environment after the EUT successfully transmits at a fixed frequency using the laptop.

2 Summary of Test Result

No.	Standard Section	Test Item	Result	Remark
1	15.203	Antenna Requirement	Pass	
2	15.247 (b)	Peak Output Power	Pass	
3	15.207	Conducted Emission	Pass	
4	15.247 (d) & 15.209	Radiated Spurious Emission	Pass	
5	15.247 (e)	Power Spectral Density	Pass	
6	15.247 (a)(2)	6dB Bandwidth	Pass	
7	558074 D01 15.247 Meas Guidance v05r02 Chapter 6	Duty Cycle	Pass	
8	15.205	Band Edge Emission	Pass	
9	15.247(d)	Spurious RF Conducted Emissions	Pass	

3 Test Facilities and Accreditations

3.1 Test Laboratory

Test Site	Shenzhen HongBiao Certification& Testing Co., Ltd
Test Site Location	Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China
Telephone:	(86-755) 2998 9321
Fax:	(86-755) 2998 5110
FCC Registration No.:	CN1341
A2LA Certificate No.:	6765.01

3.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C~35°C
Relative Humidity:	20%~75%
Air Pressure:	98kPa~101kPa

3.3 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

The data and results quoted in this document are true and accurate values, and uncertainties are not involved in the calculations.

In addition, components and mass production processes that are similar to testing equipment may introduce additional deviations, and the manufacturer is solely responsible for the continued compliance of the equipment.

Measurement Frequency Range	U, (dB)	Note
RF frequency	2×10^{-5}	
RF power, conducted	± 0.57 dB	
Conducted emission(150kHz~30MHz)	± 2.5 dB	
Radiated emission(9kHz-30MHz)	± 2.5 dB	
Radiated emission(30MHz~1GHz)	± 4.2 dB	
Radiated emission (above 1GHz)	± 4.7 dB	
Occupied Bandwidth	$\pm 3\%$	
Temperature	± 1 degree	
Humidity	± 5 %	

3.4 Test Software

Software name	Manufacturer	Model	Version
Conducted Emission test Software	Farad	EZ-EMC	EMC-CON 3A1.1+
Radiated Emission test Software	Farad	EZ-EMC	FA-03A2
RF Test System	MWRF	MTS 8310	2.0.0.0

4 List of Test Equipment

Radiation emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E001	Horn Antenna	Schwarzbeck	BBHA 9120D	02592	2024-05-18	2026-05-17
2	HB-E002	Biconical log-periodic composite antenna	Schwarzbeck	VULB 9168	01340	2024-05-18	2026-05-17
3	HB-E003	SHF-EHF Horn	Schwarzbeck	BBHA 91270	01193	2024-05-18	2026-05-17
4	HB-E005	Preamplifier	Noyetec	LAN-0118	NYCM1420102	2024-05-17	2025-05-16
5	HB-E006	Preamplifier	Noyetec	LAN-1840	NYCM1420103	2024-05-17	2025-05-16
6	HB-E007	EMI TEST RECEIVER	R&S	ESR7	102520	2024-05-17	2025-05-16
7	HB-E009	POSITINAL COTROLLE R	Noyetec	N/A	N/A	/	/
8	HB-E013	RF switch	Noyetec	NY-RF4	NY0CM1420204	/	/
9	HB-E066	Illuminance Tester	TASI	TA8121	N/A	2024-05-21	2025-05-20
10	HB-E075	Active loop antenna	Schwarzbeck	FMZB 1519B	1519B-245	2024-05-18	2026-05-17
11	HB-E076	Preamplifier	Hewlett Packard	8447D	1937A02278	2024-05-17	2025-05-16
Conduction emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E014	4 Path V-LISN	Schwarzbeck	NNLK 8121	00770	2024-05-17	2025-05-16
2	HB-E015	Pulse Limiter	Schwarzbeck	VTSD 9561-F	00949	2024-05-17	2025-05-16
3	HB-E016	ZN23201	Noyetec	ZN23201	N/A	2024-05-21	2025-05-20
4	HB-E059	Attenuator	Xianghua	TS2-6-1	220215166	2024-05-17	2025-05-16
5	HB-E069	EMI TEST RECEIVER	R&S	ESCI	N/A	2024-05-17	2025-05-16
RF							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E041	MXG AnaioG Signal Generator	Agilent	N5181A	MY47070421	2024-05-17	2025-05-16
2	HB-E042	WIDEBAND RADIO COMMUNICA	R&S	CMW500	132108	2024-05-17	2025-05-16

		TION TESTER					
3	HB-E043	MXG Anaio Signal Generator	Agilent	N5182A	US46240335	2024-05-17	2025-05-16
4	HB-E044	Signal& spectrum Analyzer	R&S	FSV3044	101264	2024-05-17	2025-05-16
5	HB-E045	RF Control Box	Noyetec	NY100-R FCB	N/A	/	/
6	HB-E058	Thermometer Clock Humidity Monitor	N/A	HTC-1	N/A	/	/

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

5 Test Item And Results

5.1 Antenna Requirement

5.1.1 Standard Requirement

15.203 requirement: For intentional device, 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

5.1.2 Test Result

The EUT antenna is Chip Antenna. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

5.2 Conducted Emission

5.2.1 Limits

Limits – Class B		
Frequency (MHz)	Limit (dBμV)	
	Quasi-Peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

Note:

- the tighter limit applies at the band edges.
- the limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

5.2.2 Test Procedures

a) EUT Operating Conditions

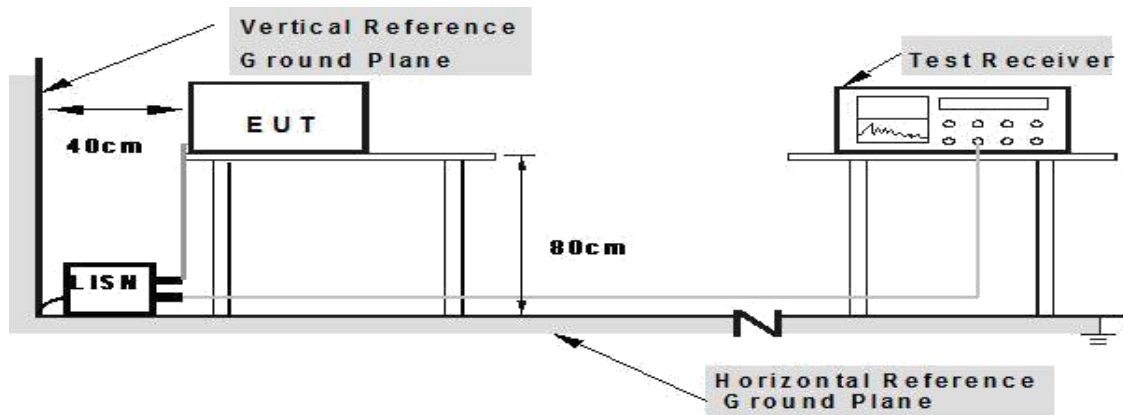
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b) The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

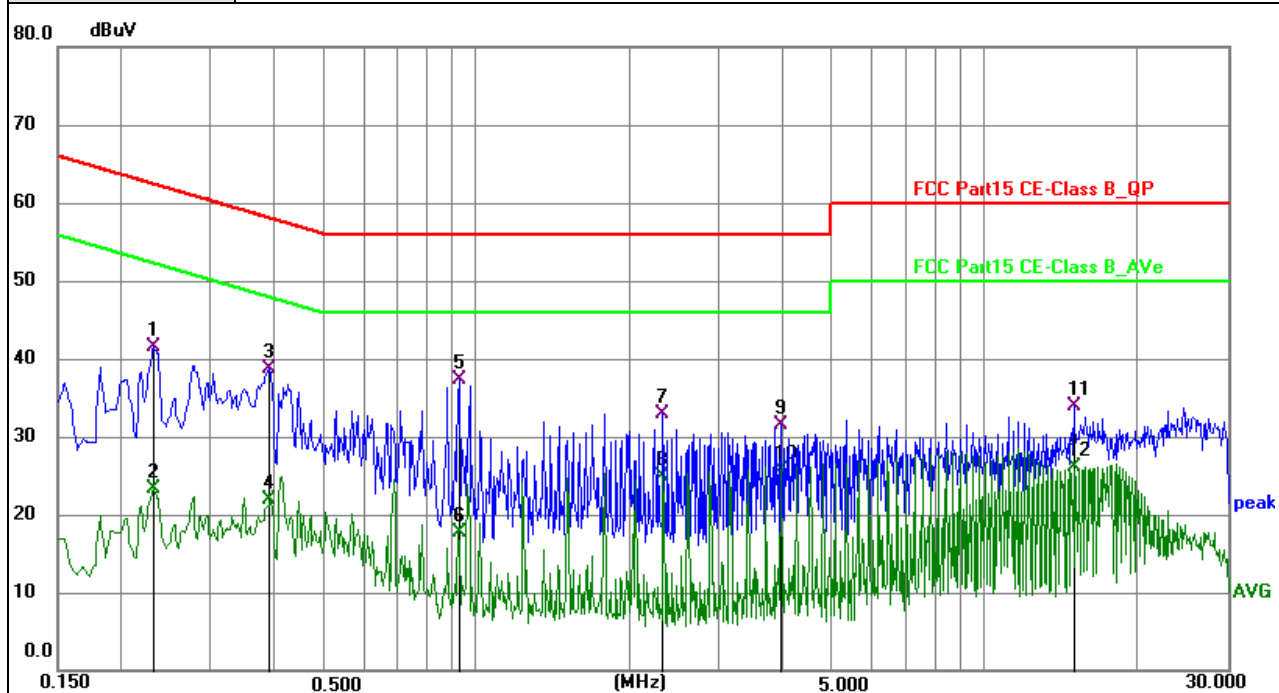
- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item – photographs of the test setup.

5.2.3 Test Setup



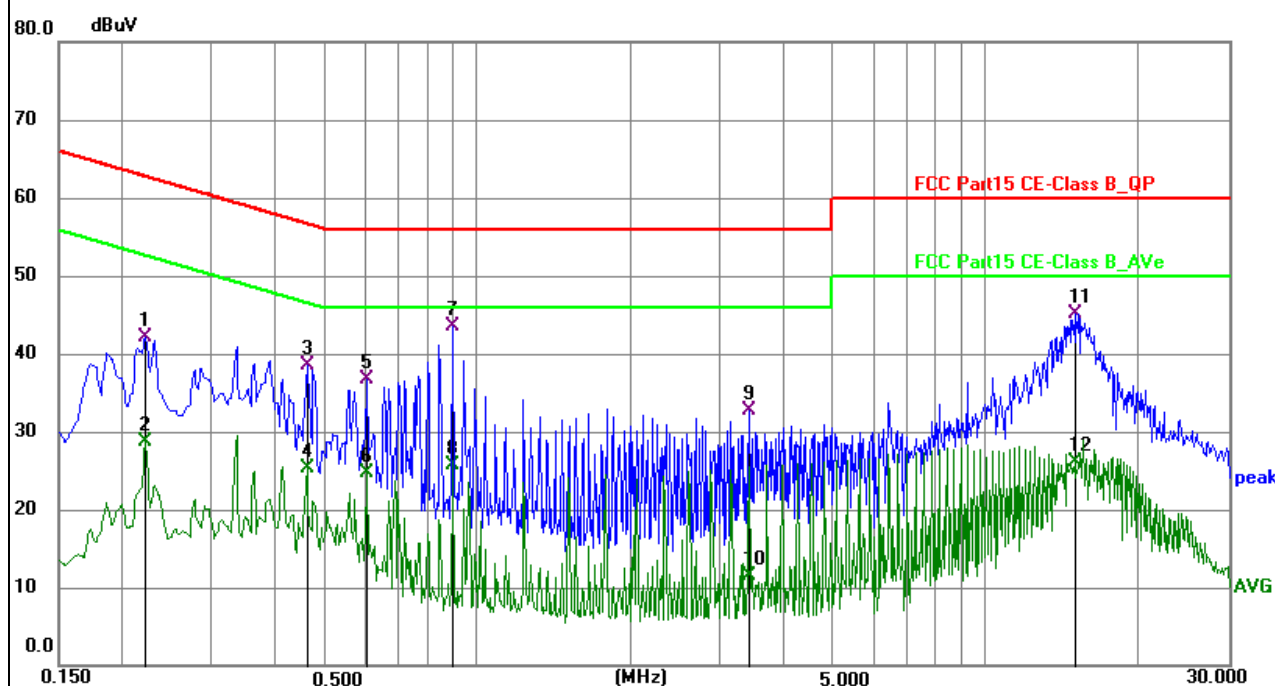
5.2.4 Test Result

EUT:	Find My Passport Wallet With Wireless Charging	Model Name:	300 0014 TD2
Test Mode:	Charging + TX	Phase:	L
Test Voltage:	DC 5V from Wireless Charging AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.231000	31.07	10.47	41.54	62.41	-20.87	QP
2	0.231000	12.86	10.47	23.33	52.41	-29.08	AVG
3	0.388500	28.19	10.49	38.68	58.10	-19.42	QP
4	0.388500	11.44	10.49	21.93	48.10	-26.17	AVG
5 *	0.924000	26.77	10.45	37.22	56.00	-18.78	QP
6	0.924000	7.24	10.45	17.69	46.00	-28.31	AVG
7	2.332500	22.45	10.50	32.95	56.00	-23.05	QP
8	2.332500	14.36	10.50	24.86	46.00	-21.14	AVG
9	3.979400	21.07	10.43	31.50	56.00	-24.50	QP
10	3.979400	15.36	10.43	25.79	46.00	-20.21	AVG
11	14.959500	22.37	11.54	33.91	60.00	-26.09	QP
12	14.959500	14.57	11.54	26.11	50.00	-23.89	AVG

EUT:	Find My Passport Wallet With Wireless Charging	Model Name:	300 0014 TD2
Test Mode:	Charging + TX	Phase:	N
Test Voltage:	DC 5V from Wireless Charging AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.222000	31.65	10.53	42.18	62.74	-20.56	QP
2	0.222000	18.14	10.53	28.67	52.74	-24.07	AVG
3	0.460500	28.11	10.41	38.52	56.68	-18.16	QP
4	0.460500	14.91	10.41	25.32	46.68	-21.36	AVG
5	0.604500	26.35	10.39	36.74	56.00	-19.26	QP
6	0.604500	14.24	10.39	24.63	46.00	-21.37	AVG
7 *	0.897000	33.12	10.36	43.48	56.00	-12.52	QP
8	0.897000	15.33	10.36	25.69	46.00	-20.31	AVG
9	3.430500	22.32	10.41	32.73	56.00	-23.27	QP
10	3.430500	1.19	10.41	11.60	46.00	-34.40	AVG
11	14.986500	33.55	11.57	45.12	60.00	-14.88	QP
12	14.986500	14.55	11.57	26.12	50.00	-23.88	AVG

5.3 Radiated Emission

5.3.1 Limits

Frequencies (MHz)	Field Strength (micровolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

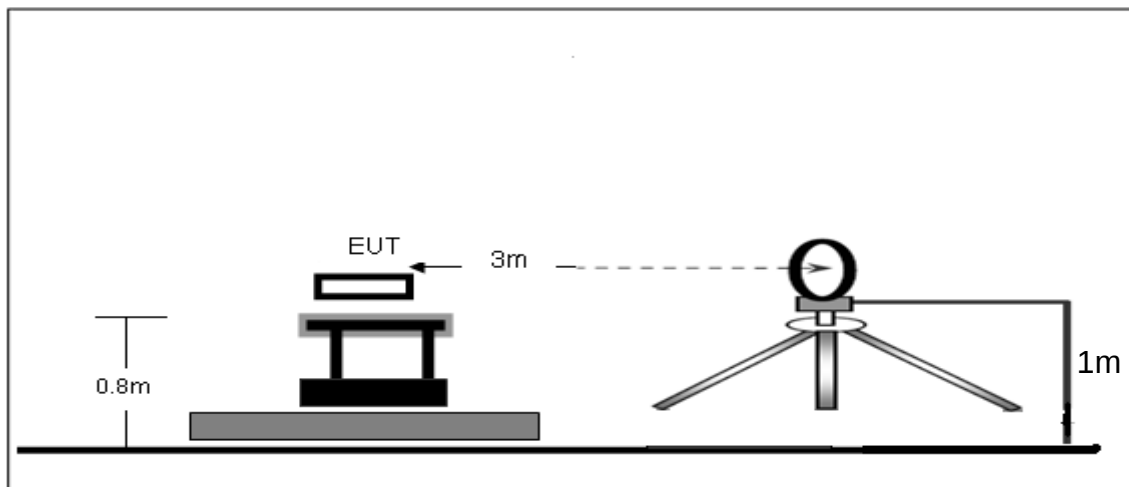
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.3.2 Test Procedures

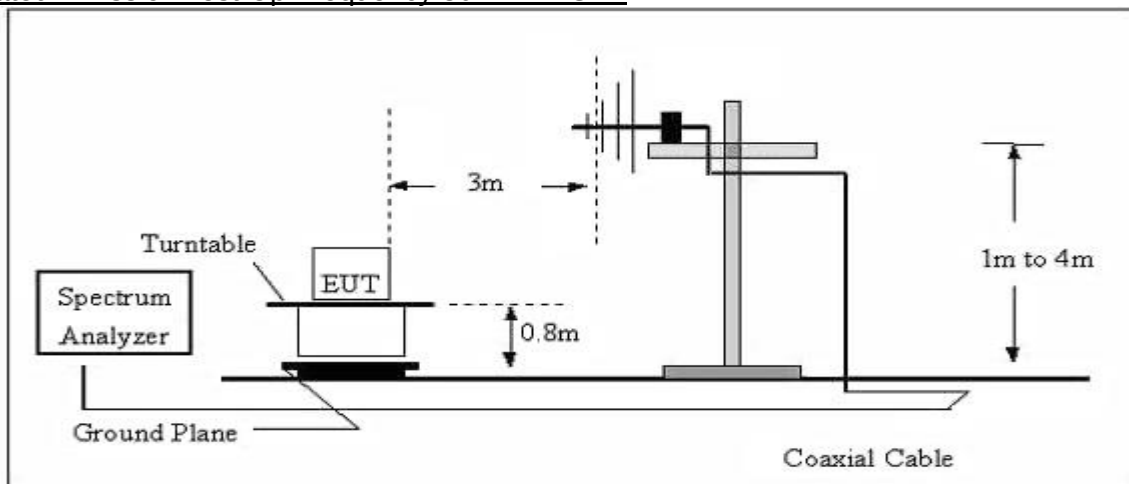
- The radiated emission tests were performed in the 3 meters.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- If the peak mode measured value compliance with and lower than quasi peak mode limit, the EUT shall be deemed to meet QP limits and then no additional QP mode measurement performed.
- If the peak mode measured value compliance with and lower than average mode limit, the EUT shall be deemed to meet average limits and then no additional average mode measurement performed.
- For the actual test configuration, please refer to the related item – EUT test photos.

5.3.3 Test Setup

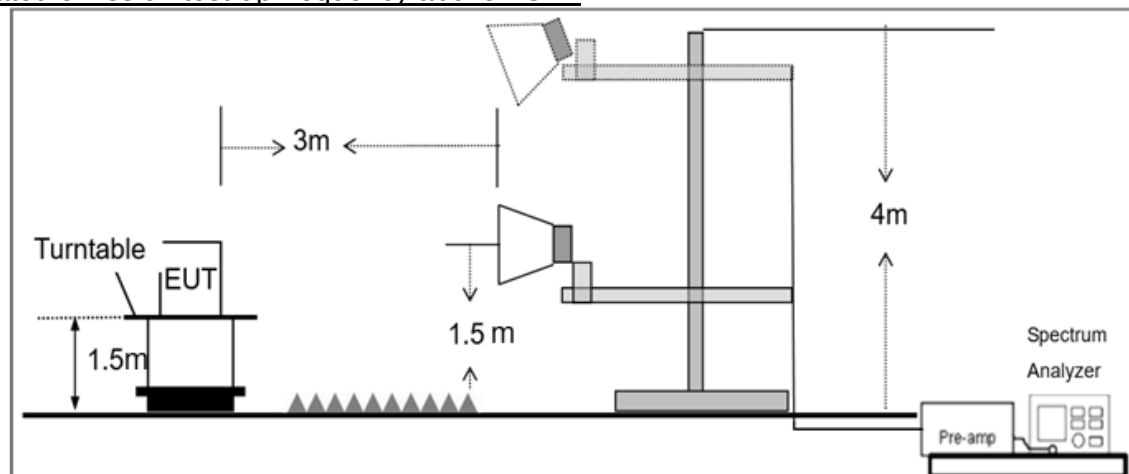
Radiated Emission Test-Up Frequency Below 30MHz



Radiated Emission Test-Up Frequency 30MHz~1GHz



Radiated emission test-up frequency above 1GHz



5.3.4 Test Result

Below 30MHz

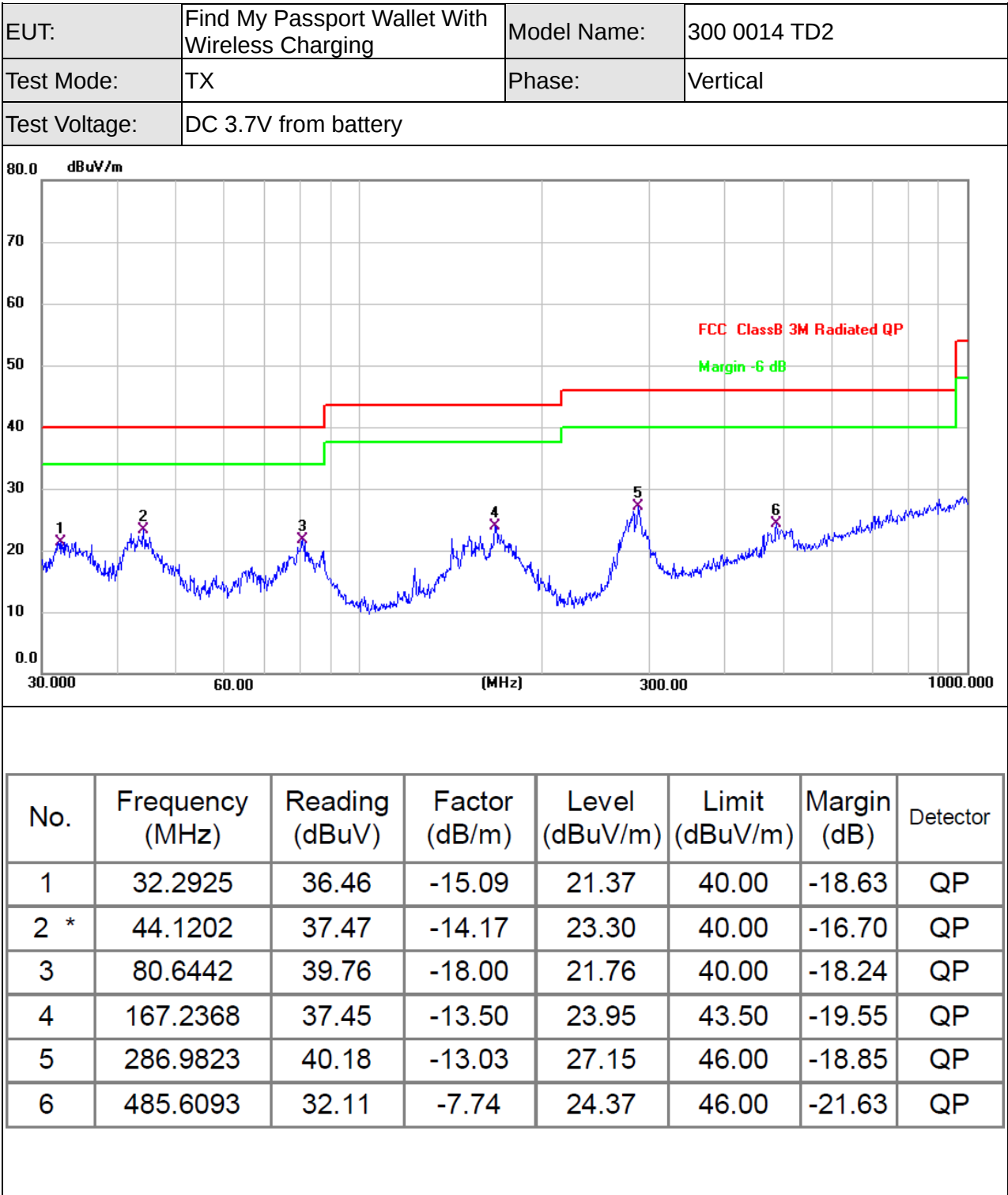
EUT:	Find My Passport Wallet With Wireless Charging	Model Name:	300 0014 TD2
Pressure:	1010 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	TX	Polarization:	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	Pass
--	--	--	--	Pass

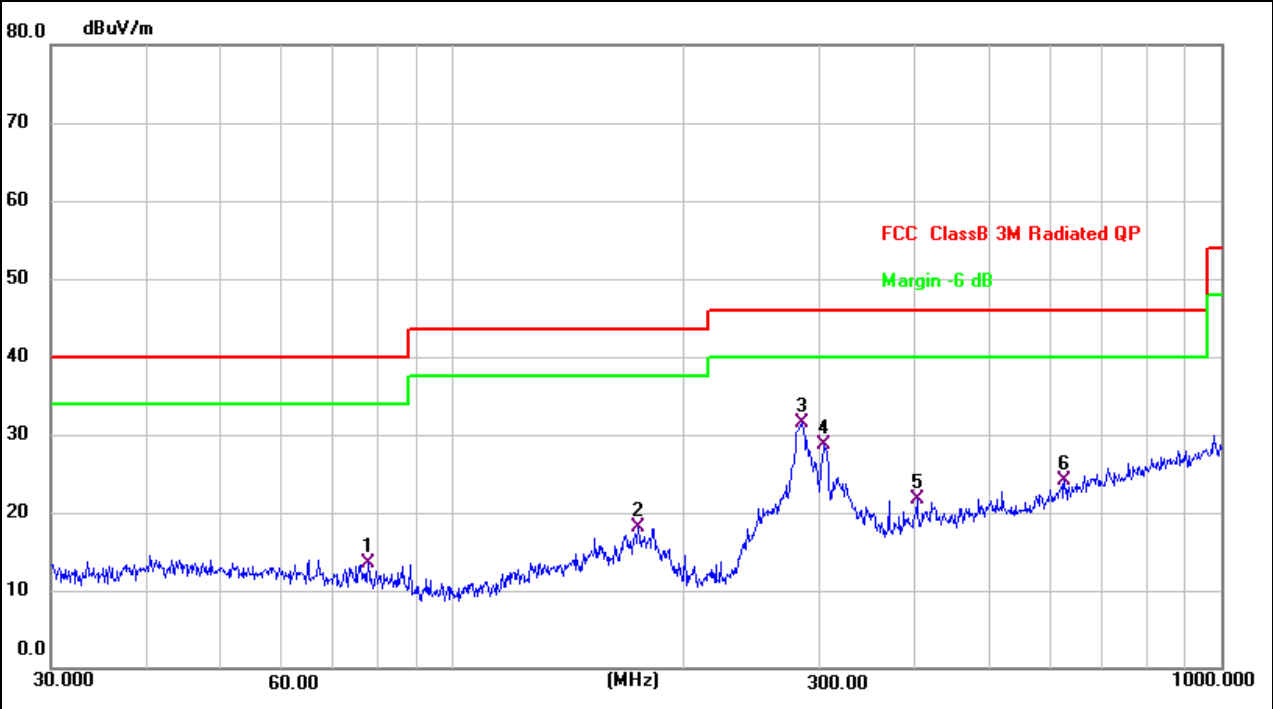
Note:

1. For 9kHz-30MHz, the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
3. Limit line = specific limits (dBuV) + distance extrapolation factor.

Frequency range (30MHz – 1GHz)



EUT:	Find My Passport Wallet With Wireless Charging	Model Name:	300 0014 TD2
Test Mode:	TX	Phase:	Horizontal
Test Voltage:	DC 3.7V from battery		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	77.5928	30.67	-17.19	13.48	40.00	-26.52	QP
2	174.4241	32.41	-14.22	18.19	43.50	-25.31	QP
3 *	284.9767	44.63	-13.10	31.53	46.00	-14.47	QP
4	304.6099	41.10	-12.40	28.70	46.00	-17.30	QP
5	401.8385	31.30	-9.52	21.78	46.00	-24.22	QP
6	625.0780	28.20	-4.02	24.18	46.00	-21.82	QP

5.3.5 Band Edge - Radiated

Frequency (MHz)	Meter Reading (dBμV)	Cable Loss (dB)	Antenna Factor dB/m	Preamplifier Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
GFSK									
2310.00	45.97	3.40	27.80	32.41	44.76	74	-29.24	Pk	Horizontal
2310.00	33.44	3.40	27.80	32.41	32.23	54	-21.77	AV	Horizontal
2310.00	44.69	3.40	27.80	32.41	43.48	74	-30.52	Pk	Vertical
2310.00	33.67	3.40	27.80	32.41	32.46	54	-21.54	AV	Vertical
2390.00	45.57	3.45	27.70	32.49	44.23	74	-29.77	Pk	Vertical
2390.00	34.59	3.45	27.70	32.49	33.25	54	-20.75	AV	Vertical
2390.00	46.35	3.45	27.70	32.49	45.01	74	-28.99	Pk	Horizontal
2390.00	34.55	3.45	27.70	32.49	33.21	54	-20.79	AV	Horizontal
2400.00	46.68	3.46	27.80	32.54	45.40	74	-28.60	Pk	Vertical
2400.00	34.37	3.46	27.80	32.54	33.09	54	-20.91	AV	Vertical
2400.00	45.93	3.46	27.80	32.54	44.65	74	-29.35	Pk	Horizontal
2400.00	34.42	3.46	27.80	32.54	33.14	54	-20.86	AV	Horizontal
2483.50	47.23	3.48	28.53	32.55	46.69	74	-27.31	Pk	Vertical
2483.50	33.97	3.48	28.53	32.55	33.43	54	-20.57	AV	Vertical
2483.50	46.32	3.48	28.53	32.55	45.78	74	-28.22	Pk	Horizontal
2483.50	33.77	3.48	28.53	32.55	33.23	54	-20.77	AV	Horizontal
2500.00	45.29	3.49	29.20	32.66	45.32	74	-28.68	Pk	Vertical
2500.00	33.85	3.49	29.20	32.66	33.88	54	-20.12	AV	Vertical
2500.00	45.42	3.49	29.20	32.66	45.45	74	-28.55	Pk	Horizontal
2500.00	33.74	3.49	29.20	32.66	33.77	54	-20.23	AV	Horizontal
Remark:									
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit									

5.3.6 Spurious emission in restricted band 1000MHz-25000MHz

All the modulation modes have been tested, and the worst result was report as below:

Frequency (MHz)	Reading Level (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (2402 MHz)(GFSK)--Above 1G									
4804.103	42.87	4.83	33.5	30.80	50.40	74.00	-23.60	Pk	Vertical
4804.103	31.83	4.83	33.5	30.80	39.36	54.00	-14.64	AV	Vertical
7206.214	42.69	5.83	37.79	31.40	54.91	74.00	-19.09	Pk	Horizontal
7206.214	31.89	5.83	37.79	31.40	44.11	54.00	-9.89	AV	Horizontal
4804.142	42.93	4.83	33.5	30.80	50.46	74.00	-23.54	Pk	Vertical
4804.142	31.68	4.83	33.5	30.80	39.21	54.00	-14.79	AV	Vertical
7206.227	42.60	5.83	37.79	31.40	54.82	74.00	-19.18	Pk	Horizontal
7206.227	32.07	5.83	37.79	31.40	44.29	54.00	-9.71	AV	Horizontal
Mid Channel (2440 MHz)(GFSK)--Above 1G									
4880.142	44.22	4.89	33.76	30.80	52.07	74.00	-21.93	Pk	Vertical
4880.142	32.03	4.89	33.76	30.80	39.88	54.00	-14.12	AV	Vertical
7320.226	44.25	5.95	38.25	31.70	56.75	74.00	-17.25	Pk	Horizontal
7320.226	33.00	5.95	38.25	31.70	45.50	54.00	-8.50	AV	Horizontal
4880.166	43.72	4.89	33.76	30.80	51.57	74.00	-22.43	Pk	Vertical
4880.166	31.79	4.89	33.76	30.80	39.64	54.00	-14.36	AV	Vertical
7320.234	44.00	5.95	38.25	31.70	56.50	74.00	-17.50	Pk	Horizontal
7320.234	33.05	5.95	38.25	31.70	45.55	54.00	-8.45	AV	Horizontal
High Channel (2480 MHz)(GFSK)-- Above 1G									
4960.185	42.65	4.95	34.33	30.80	51.13	74.00	-22.87	Pk	Vertical
4960.185	32.16	4.95	34.33	30.80	40.64	54.00	-13.36	AV	Vertical
7440.131	43.53	6.11	37.60	31.74	55.50	74.00	-18.50	Pk	Horizontal
7440.131	32.36	6.11	37.60	31.74	44.33	54.00	-9.67	AV	Horizontal
4960.254	42.76	4.95	34.33	30.80	51.24	74.00	-22.76	Pk	Vertical
4960.254	32.18	4.95	34.33	30.80	40.66	54.00	-13.34	AV	Vertical
7440.299	43.08	6.11	37.60	31.74	55.05	74.00	-18.95	Pk	Horizontal
7440.299	32.23	6.11	37.60	31.74	44.20	54.00	-9.80	AV	Horizontal

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
4. All the modulation modes have been tested, and the worst result was report as below.

5.4 Peak Output Power

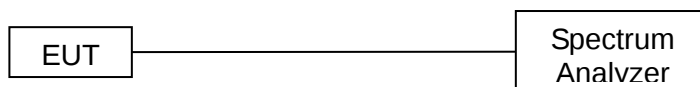
5.4.1 Limit

FCC Part15 Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247(b)(3)	Peak output power	1 watt or 30dBm	2400-2483.5

5.4.2 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:
RBW=2MHz, VBW=10MHz, Detector=Peak
- (3) The EUT was set to continuously transmitting in the max power during the test.

5.4.3 Test Setup

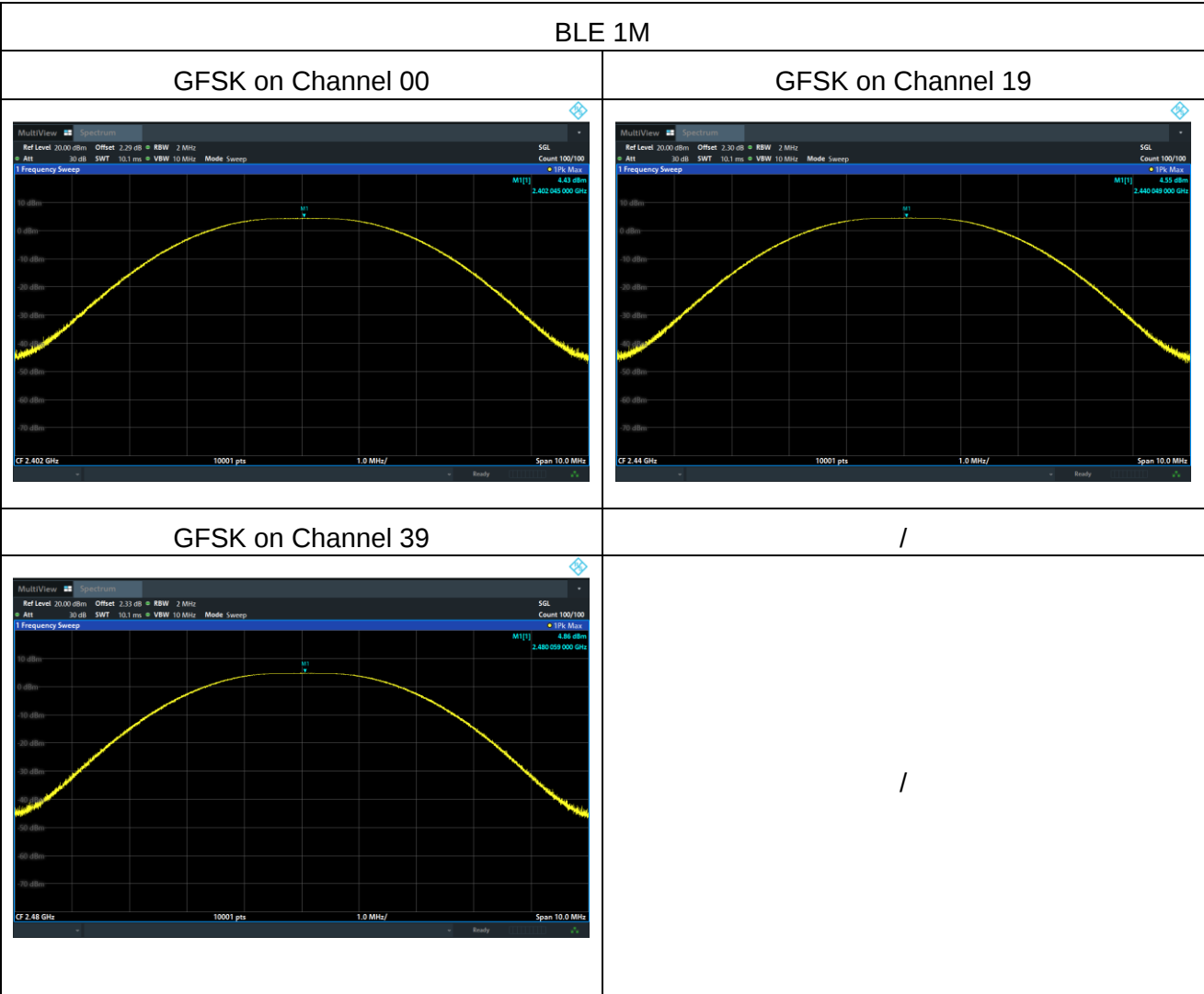


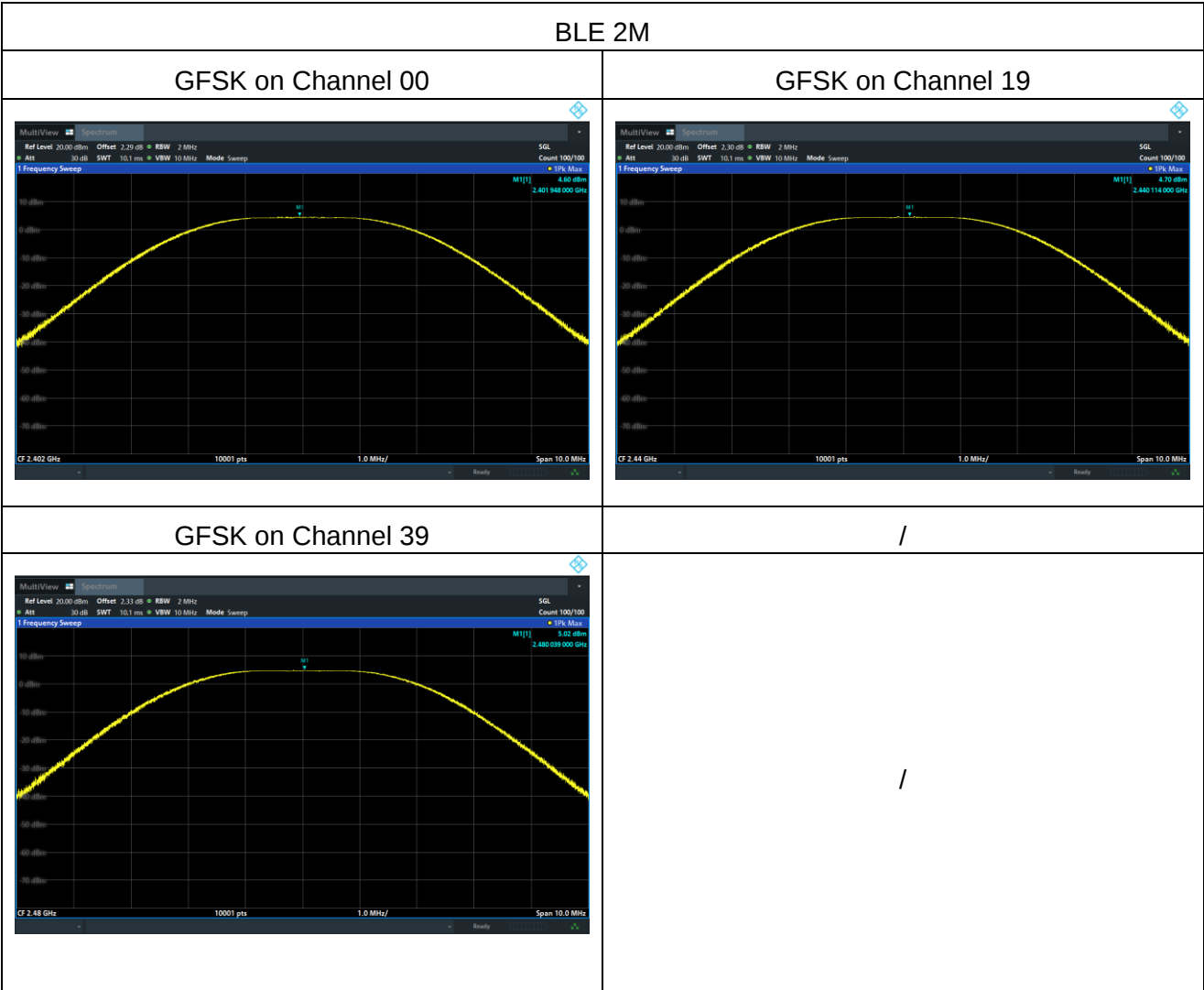
5.4.4 Test Results

EUT:	Find My Passport Wallet With Wireless Charging	Model Name:	300 0014 TD2
Test Mode:	TX Mode /CH00, CH19, CH39	Test Voltage:	DC 3.7V from battery

BLE 1M			
Test Channel	Frequency (MHz)	Maximum Peak Output Power(dBm)	Limit (dBm)
CH00	2402	4.43	30
CH19	2440	4.55	30
CH39	2480	4.86	30

BLE 2M			
Test Channel	Frequency (MHz)	Maximum Peak Output Power(dBm)	Limit (dBm)
CH00	2402	4.60	30
CH19	2440	4.70	30
CH39	2480	5.02	30





5.5 Power Spectral Density

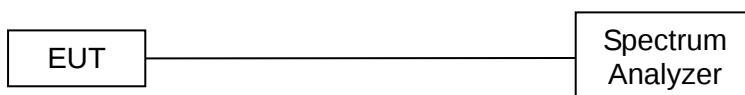
5.5.1 Limit

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247	Power Spectral Density	8 dBm (in any 3kHz)	2400-2483.5

5.5.2 Test Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW ≥ 3 kHz.
4. Set the VBW $\geq 3 \times$ RBW.
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.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

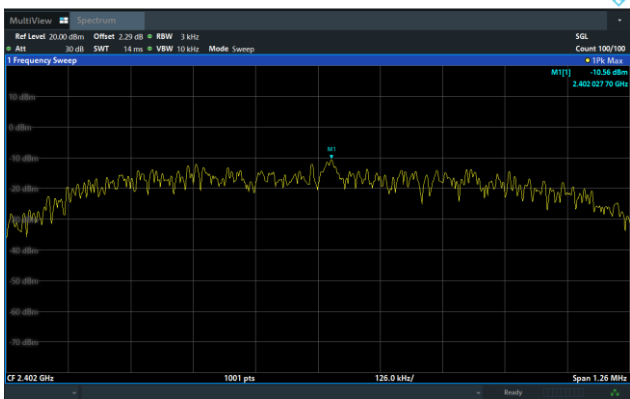
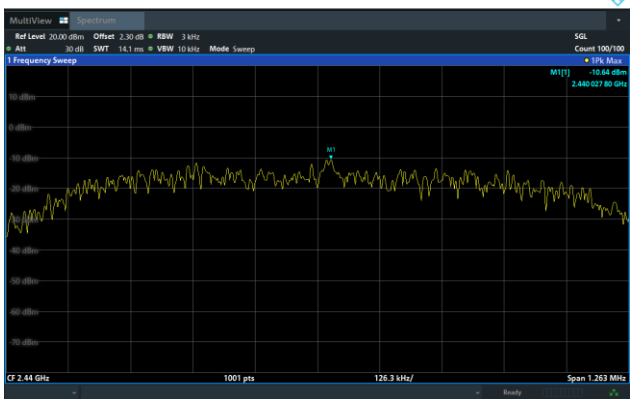
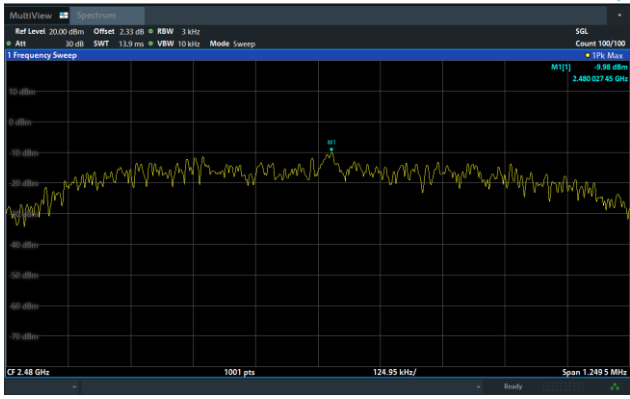
5.5.3 Test Setup



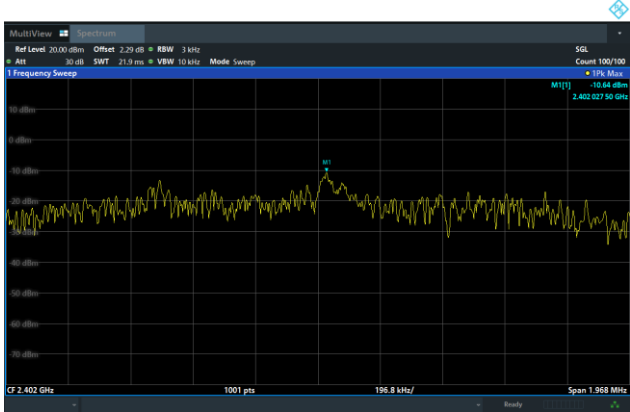
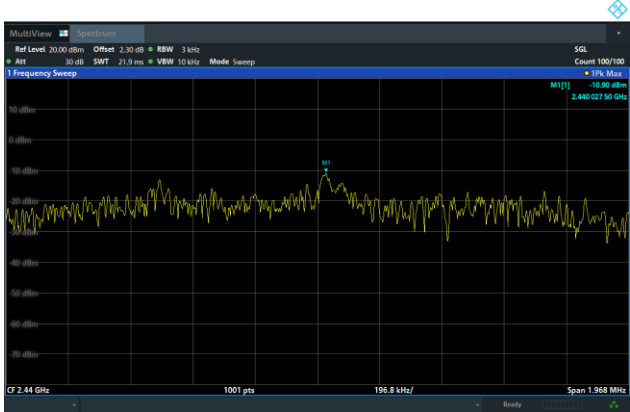
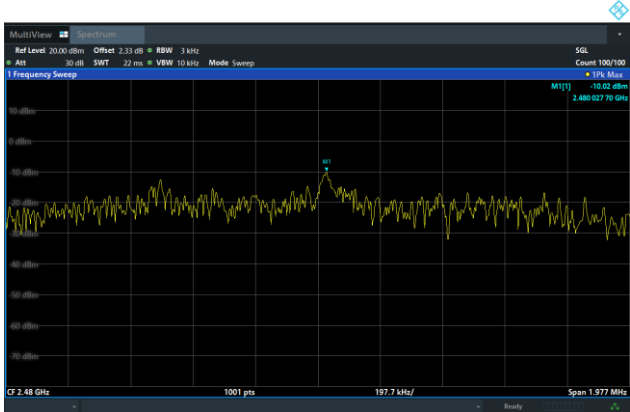
5.5.4 Test Results

EUT:	Find My Passport Wallet With Wireless Charging	Model Name:	300 0014 TD2
Pressure:	1015 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	TX Mode /CH00, CH19, CH39		

BLE 1M			
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2402 MHz	-10.56	8	Pass
2440 MHz	-10.64	8	Pass
2480 MHz	-9.98	8	Pass

GFSK on Channel 00 	GFSK on Channel 19 
GFSK on Channel 39 	/ /

BLE 2M			
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2402 MHz	-10.64	8	Pass
2440 MHz	-10.90	8	Pass
2480 MHz	-10.02	8	Pass

GFSK on Channel 00 	GFSK on Channel 19 
GFSK on Channel 39 	/ /

5.6 6dB Bandwidth

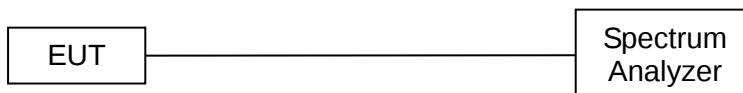
5.6.1 Limit

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247(a)(2)	Bandwidth	$\geq 500\text{kHz}$ (6dB bandwidth)	2400-2483.5

5.6.2 Test Procedure

1. Set RBW= 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.6.3 Test Setup

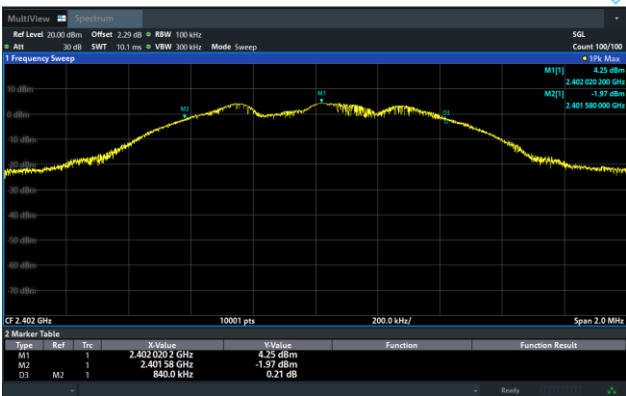
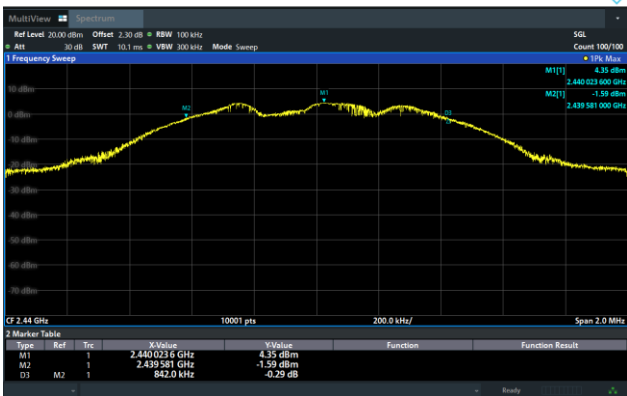
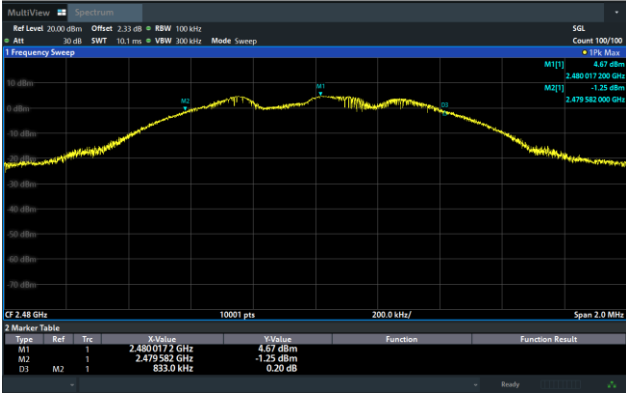


5.6.4 Test Results

EUT:	Find My Passport Wallet With Wireless Charging	Model Name:	300 0014 TD2
Pressure:	1012 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	GFSK/ CH00, CH19, CH39		

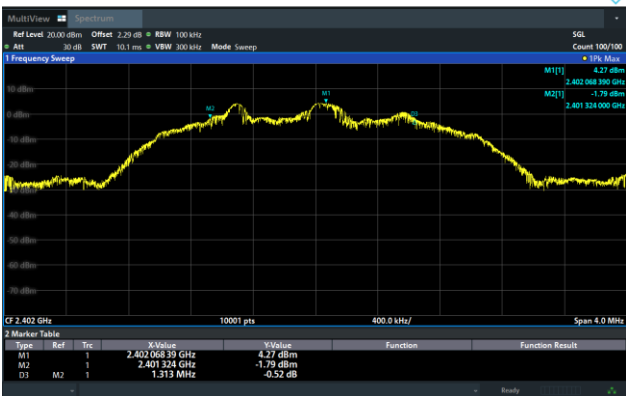
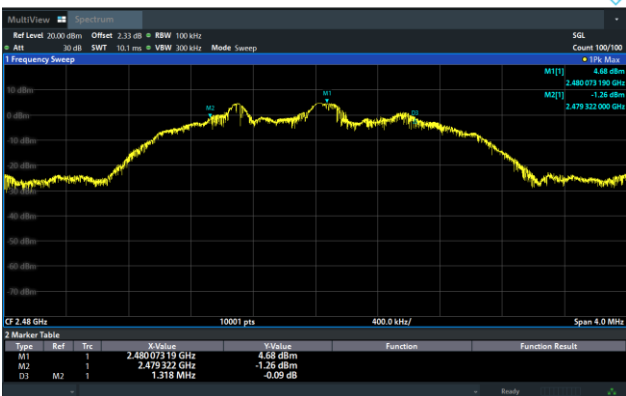
BLE 1M				
Channel	Frequency (MHz)	6dB bandwidth (kHz)	Limit (kHz)	Result
Low	2402	840	500	Pass
Middle	2440	842	500	Pass
High	2480	833	500	Pass

Test plots

GFSK on Channel 00	GFSK on Channel 19
	
GFSK on Channel 39	/
	/

BLE 2M				
Channel	Frequency (MHz)	6dB bandwidth (kHz)	Limit (kHz)	Result
Low	2402	1313	500	Pass
Middle	2440	1312	500	Pass
High	2480	1318	500	Pass

Test plots

GFSK on Channel 00	GFSK on Channel 19
	
GFSK on Channel 39	/
	/

5.7 Duty Cycle

5.7.1 Limit

No limit requirement.

5.7.2 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value. Set $VBW \geq RBW$. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested according to the zero-span measurement method, 6.0(b) in KDB 558074 D01 DTS Meas Guidance v05r02.

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \leq 6.25$ microseconds. ($50/6.25 = 8$)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are $> 50/T$.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = Zero Span

RBW = 10MHz (the largest available value)

VBW = 10MHz ($\geq$ RBW)

Number of points in Sweep > 100

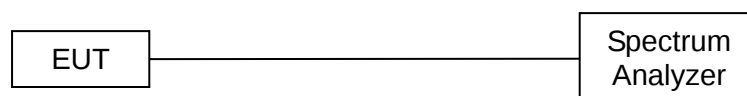
Detector function = peak

Trace = Clear write

Measure Total and Ton

Calculate Duty Cycle = $Ton / Total$

5.7.3 Test Setup



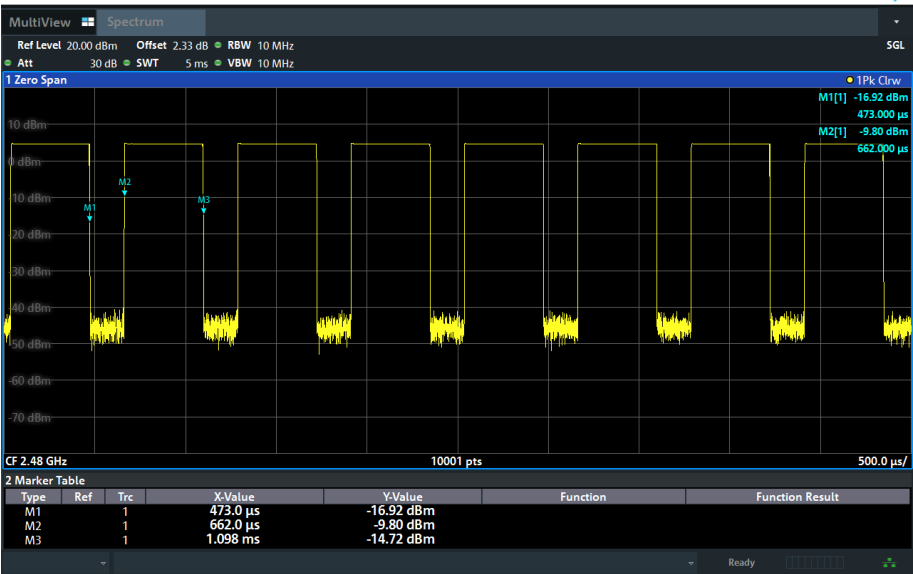
5.7.4 Test Results

EUT:	Find My Passport Wallet With Wireless Charging	Model Name:	300 0014 TD2
Pressure:	1012 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	TX Mode /CH00, CH19, CH39		

Test plots

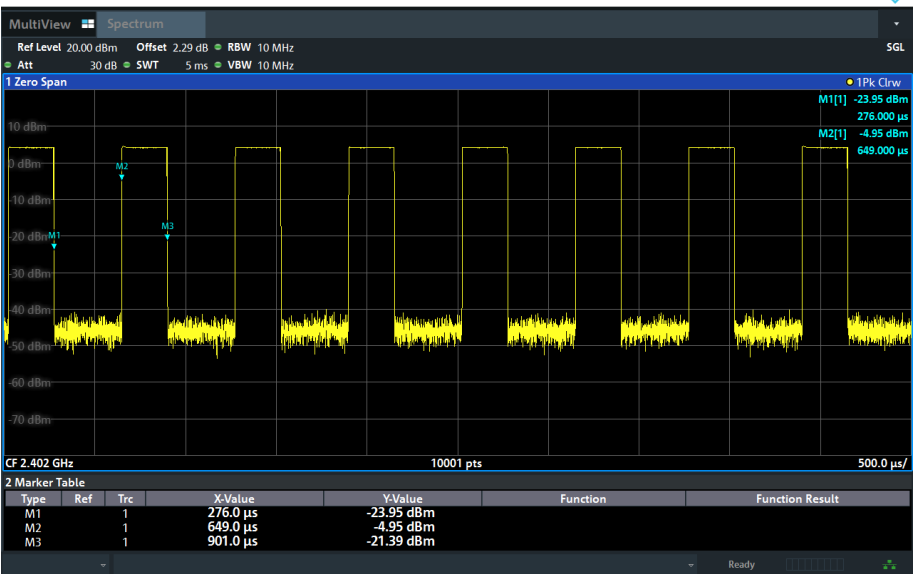


TX CH 39

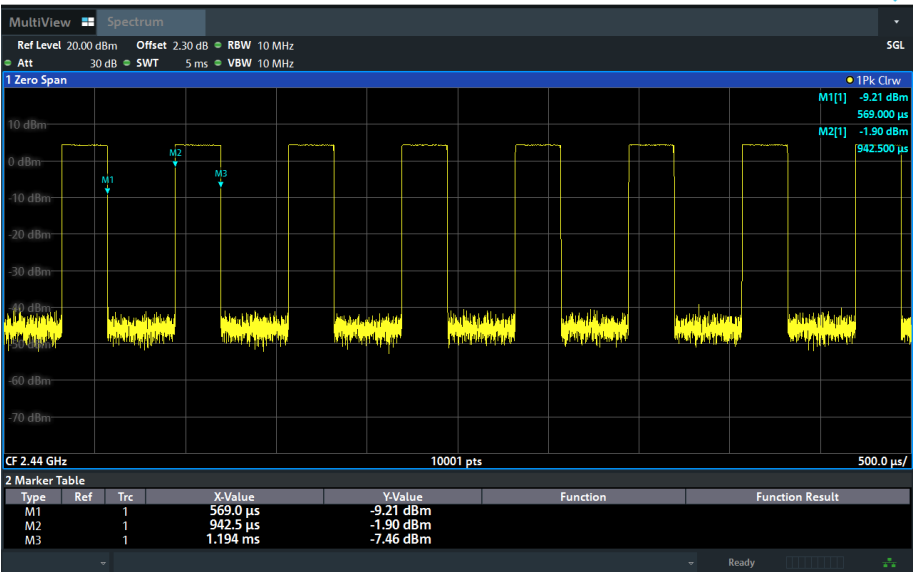


BLE 2M

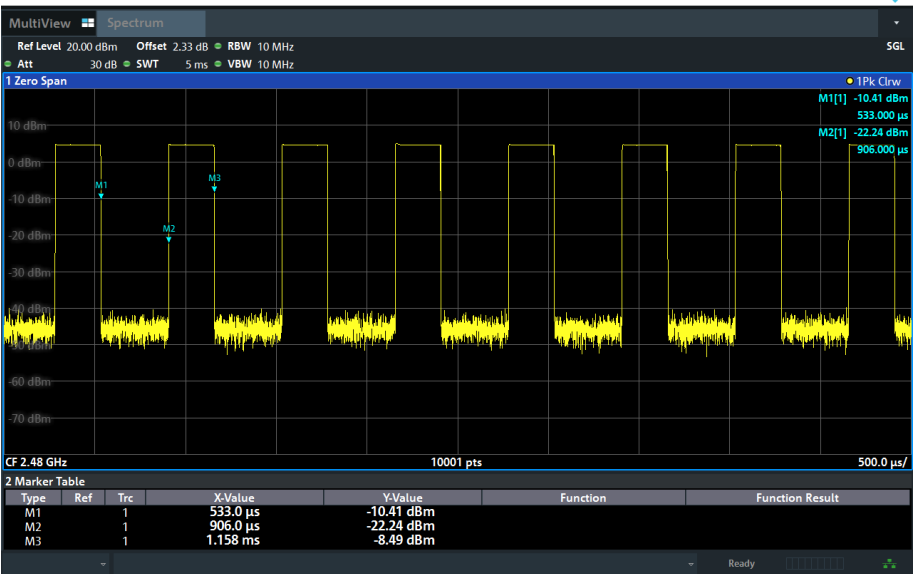
TX CH 00



TX CH 19



TX CH 39



5.8 Conducted Band Edge

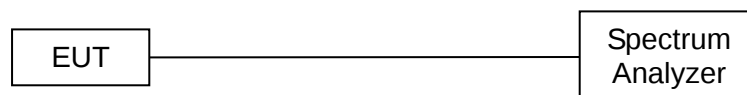
5.8.1 Limit

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)).

5.8.2 Test Procedure

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 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.
- 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.
- 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.
- Repeat above procedures until all measured frequencies were complete.

5.8.3 Test Setup



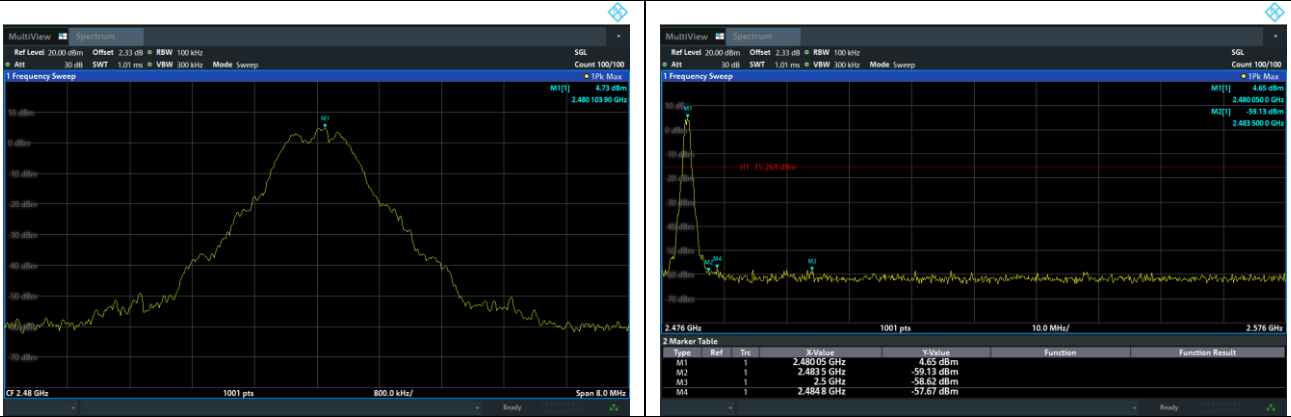
5.8.4 Test Results

EUT:	Find My Passport Wallet With Wireless Charging	Model Name:	300 0014 TD2
Pressure:	1012 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	TX Mode /CH00, CH39		

BLE 1M: Band Edge, Left Side



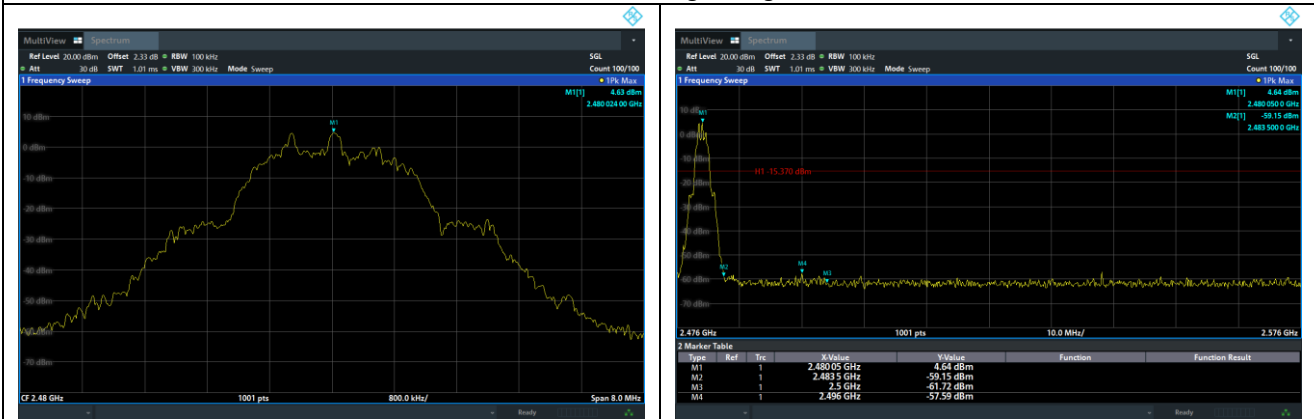
BLE 1M: Band Edge, Right Side



BLE 2M: Band Edge, Left Side



BLE 2M: Band Edge, Right Side



5.9 Spurious RF Conducted Emissions

5.9.1 Limit

Below -20dB of the highest emission level in operating band.

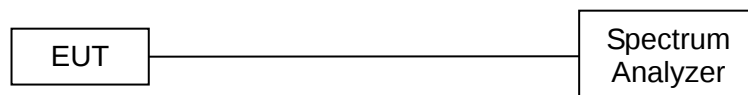
5.9.2 Measuring Instruments

The Measuring equipment is listed in the section 4 of this test report.

5.9.3 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2020 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW=300kHz to measure the peak field strength, and measure frequency range from 9kHz to 26.5GHz.

5.9.4 Test Setup



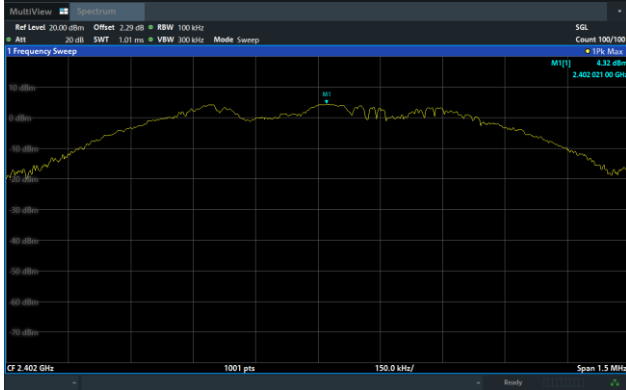
5.9.5 Test Results

Note:

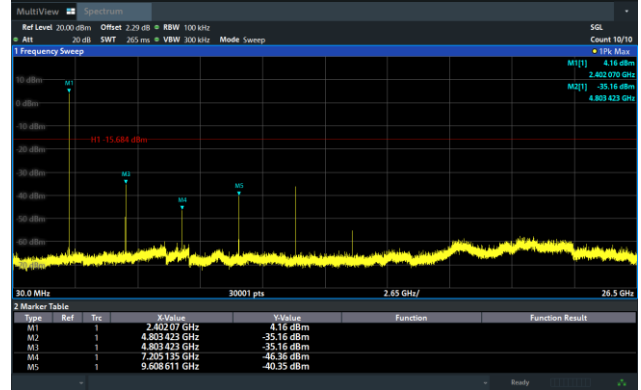
1: The measurement frequency range is from 9kHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and band edge measurement data.

BLE 1M

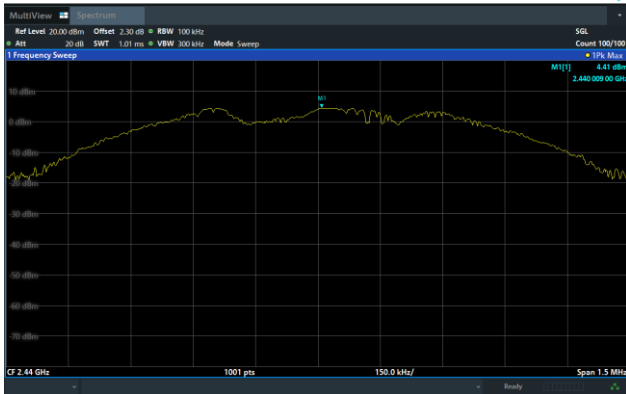
GFSK on Channel 00



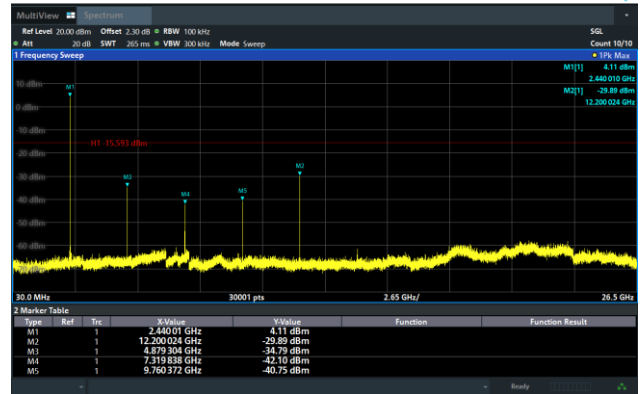
GFSK on Channel 00



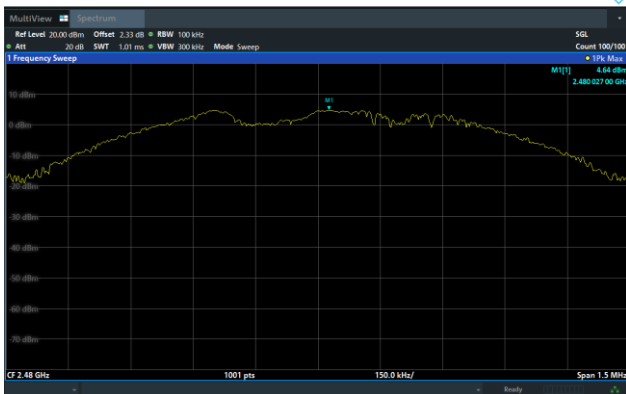
GFSK on Channel 19



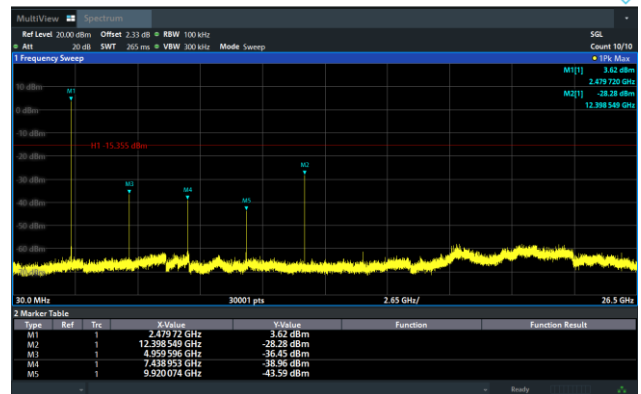
GFSK on Channel 19



GFSK on Channel 39

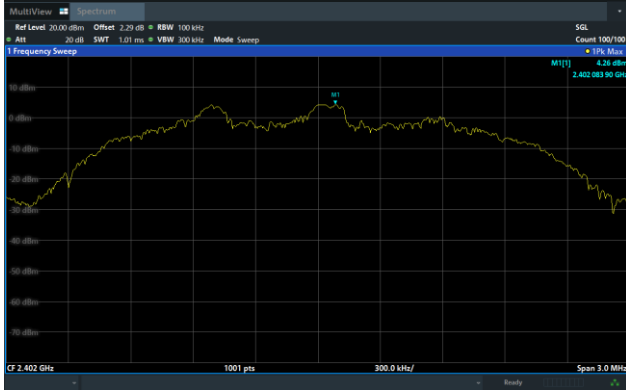


GFSK on Channel 39

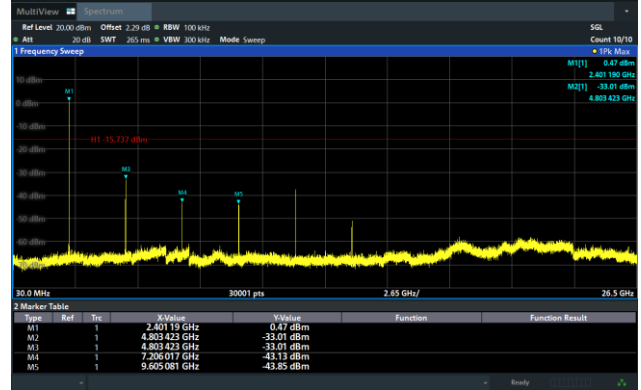


BLE 2M

GFSK on Channel 00



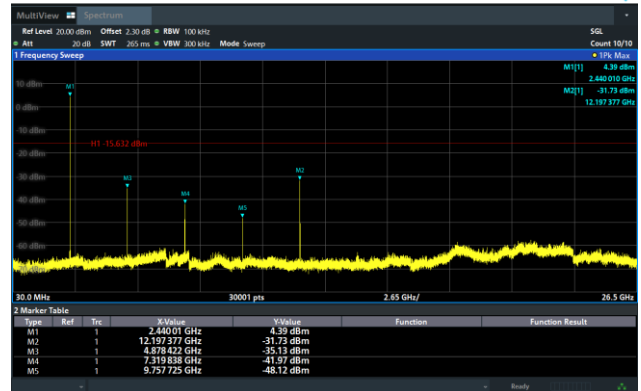
GFSK on Channel 00



GFSK on Channel 19



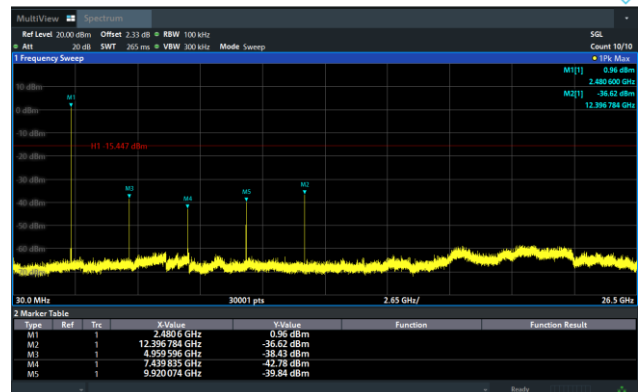
GFSK on Channel 19



GFSK on Channel 39

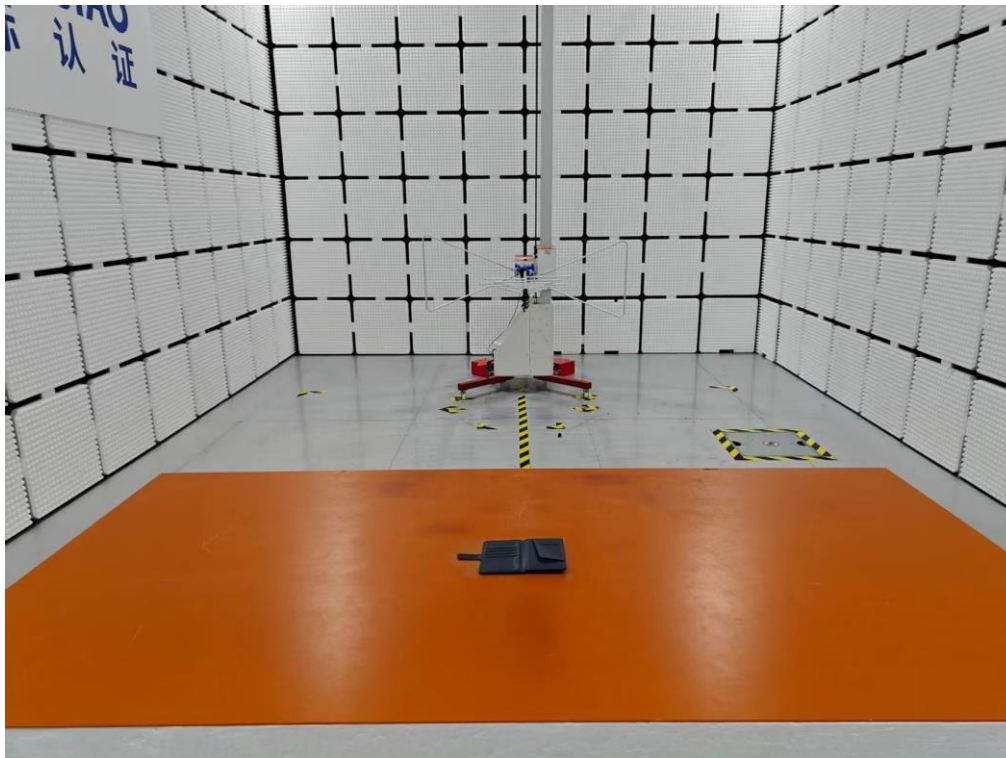


GFSK on Channel 39



6 Photographs of the Test Setup

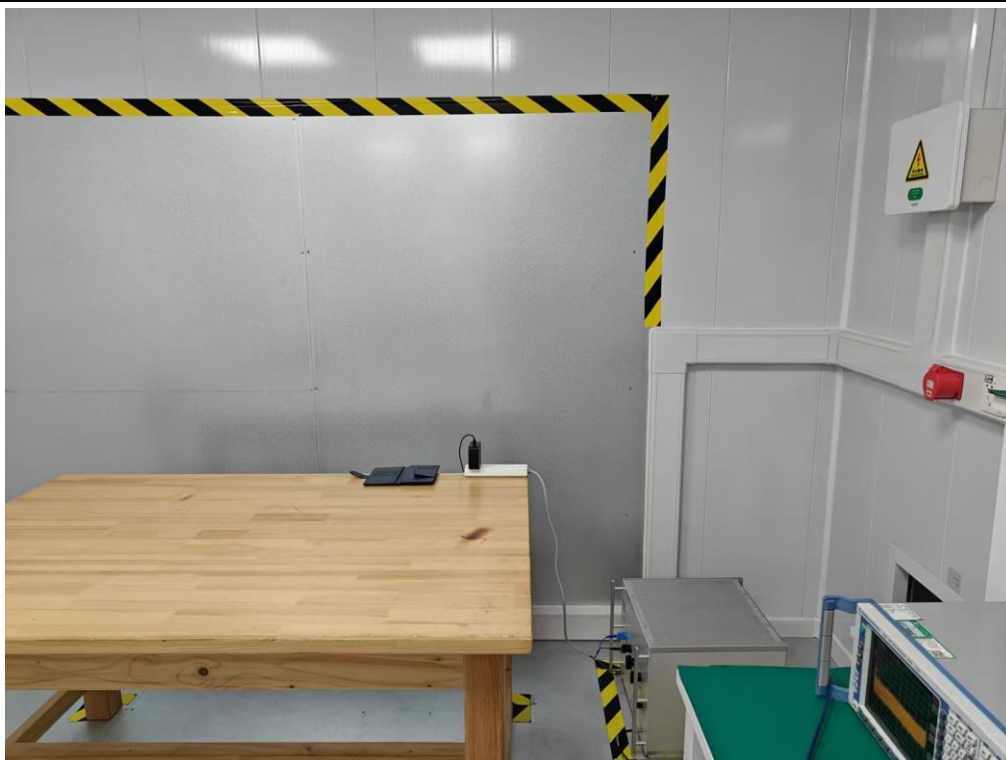
Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



Conducted Emission



7 Photographs of the EUT

Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8

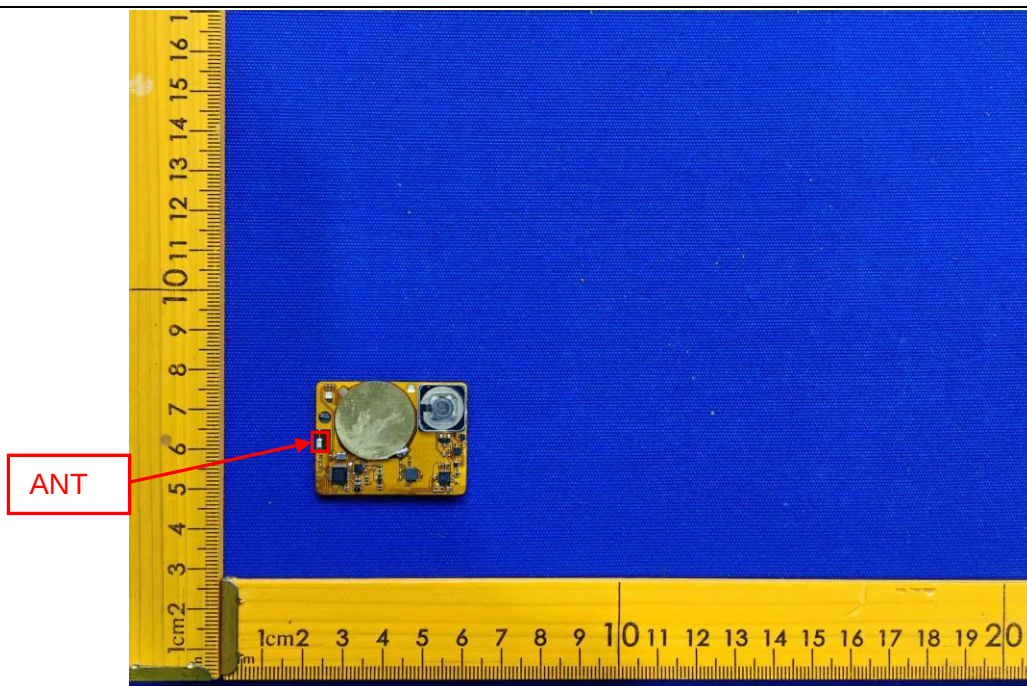


Photo 9

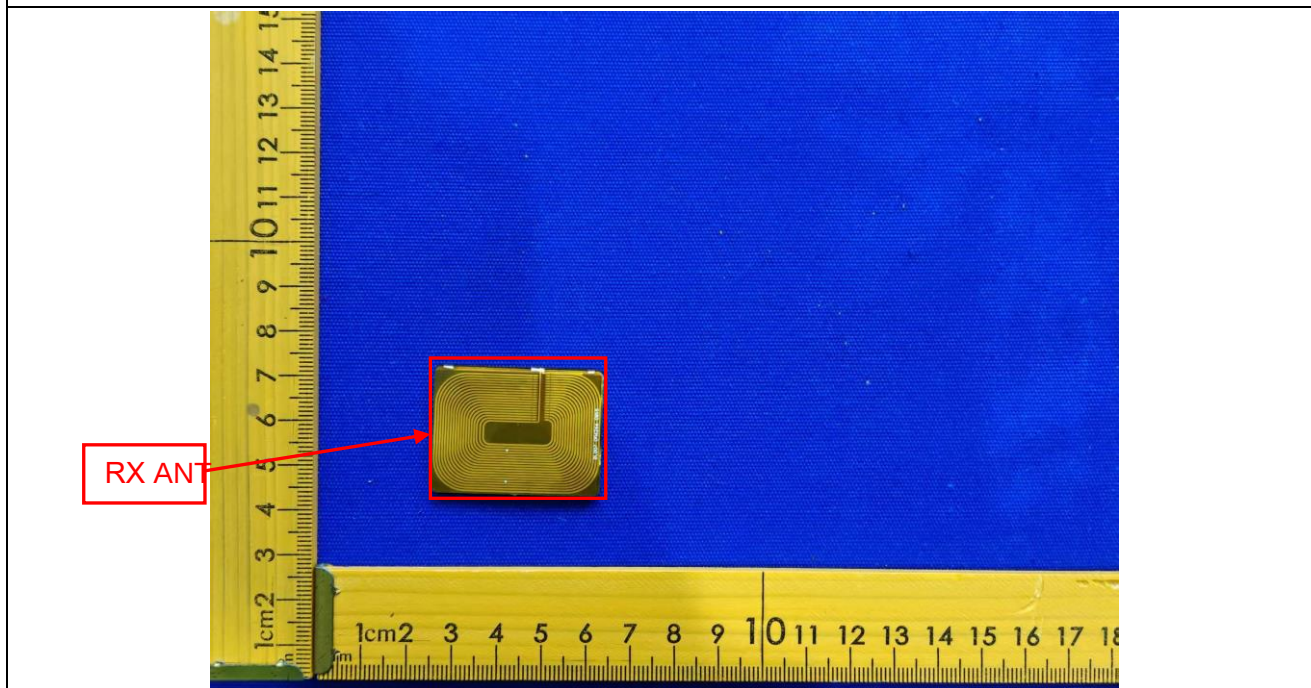


Photo 10

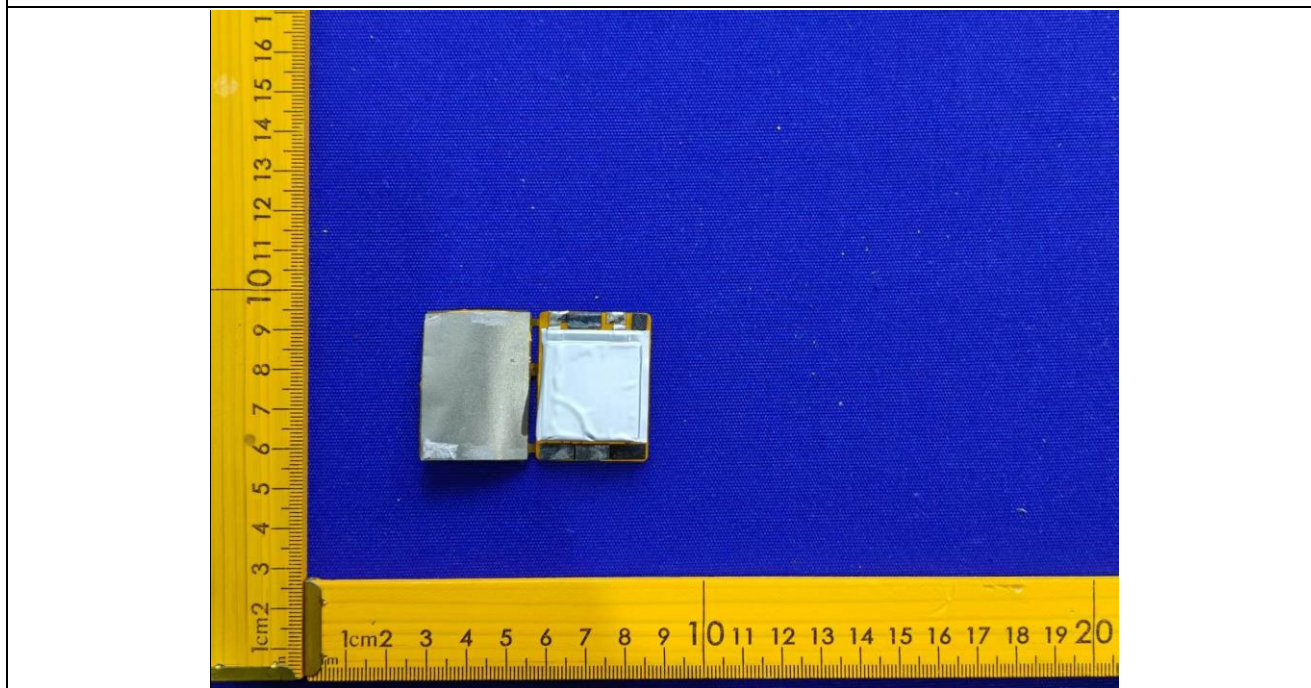
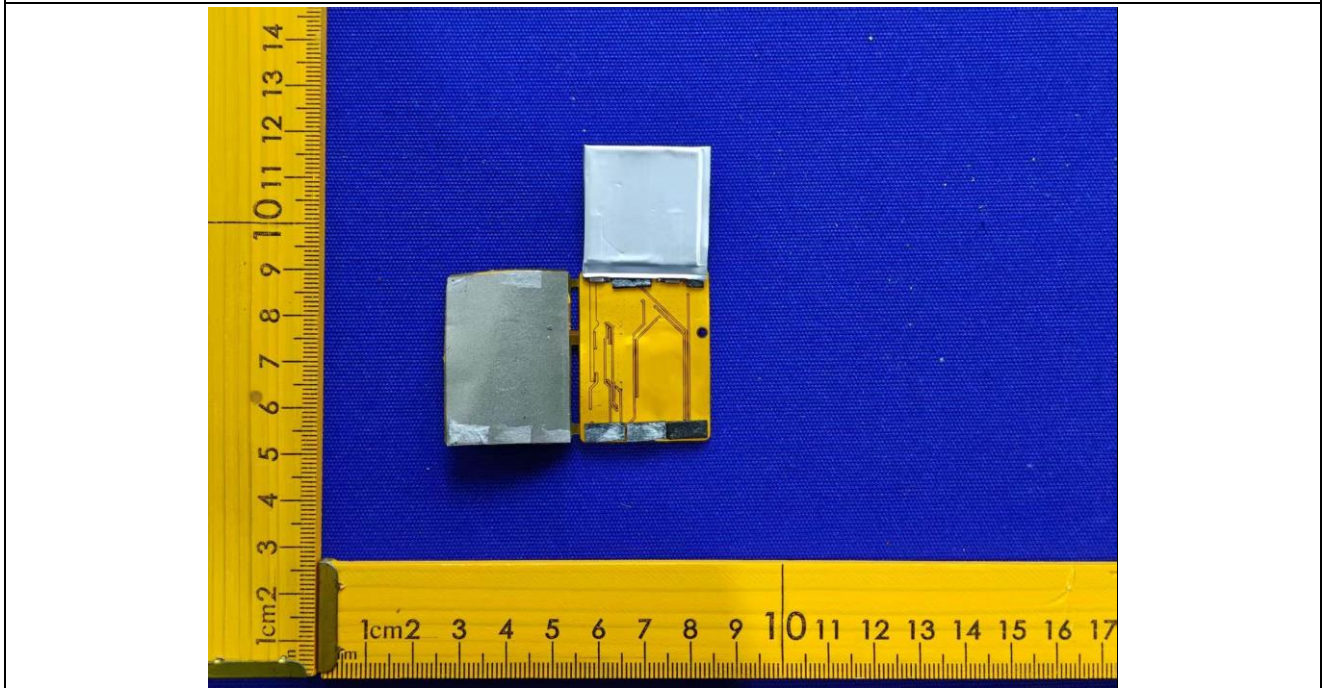


Photo 11



***** END OF REPORT *****