

Test Report

Product: Power Bank

Trade Mark: N/A

Model Number: RC9.PD20.M2

FCC ID: 2ASBY-RC8-9

Prepared for

Shenzhen Trusda Industrial Co., Ltd
3/F, Building 4, Lianchuang Technology Park, Bulan Road, Nanwan
Street Longgang District, Shenzhen, China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's Name..... : Shenzhen Trusda Industrial Co., Ltd
Address : 3/F, Building 4, Lianchuang Technology Park, Bulan Road,
Nanwan StreetLonggang District, Shenzhen, China
Manufacturer's Name : Shenzhen Trusda Industrial Co., Ltd
Address : 3/F, Building 4, Lianchuang Technology Park, Bulan Road,
Nanwan StreetLonggang District, Shenzhen, China

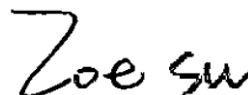
Product description

Product name : Power Bank
Model Number : RC9.PD20.M2
Standards : FCC Part 15C
Test procedure..... : IEEE/ANSI C63.10-2020

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..... : July 22, 2025~Aug. 05, 2025
Test Result..... : **Pass**

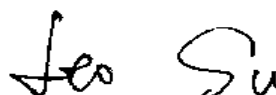
Testing Engineer :


(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:	Power Bank
Model name:	RC9.PD20.M2
Series Model:	RC8.PD20.M2
Different of series model:	Except for the model and battery capacity, the circuits and modules of all models are the same.
Operation frequency:	115kHz-205kHz, 360kHz
Operational mode:	Wireless charging
Modulation type:	ASK
Antenna type:	Coil Antenna
Hardware version:	V1.0
Software version:	V1.0
Battery:	RC9.PD20.M2: DC 3.85V, 10000mAh, 38.5Wh RC8.PD20.M2: DC 3.85V, 5000mAh, 19.25Wh
Power supply:	USB-C Input: 5V=3A, 9V=2A USB-C Output: 5V=3A, 9V=2.22A, 12V=1.67A Wireless Output: 5W/15W Maximum Output Power: 20W
Adapter information:	N/A

Note: Due to the difference in internal battery capacity between model RC9.PD20.M2 and model RC8.PD20.M2 listed in the report, a difference test was conducted for the Radiated Emissions project to address this difference.

1.2 Test Mode

Pretest Test Mode	Description of Mode
1	AC/DC adapter+Wireless Output: 5W
2	Wireless Output: 15W

Note: All modes have been tested, and the report only reflects the test results of the worst mode (Final Test Mode). When the prototype is powered by the adapter, it can only perform 5W wireless charging output.

Test Item	Final Test Mode
Conducted Emissions	1
Radiated Emissions	1/2
20dB bandwidth	1/2

1.3 Test Setup

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

1.4 Power setting configuration parameters

Test Software Version		N/A	
Frequency	115-205kHz		360kHz
Parameters	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.

1.5 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
Adapter	CD289	35810	Ugreen Group Limited
Load	YBZ3.1	/	YBZ

2 Summary of Test Result

Test procedures according to the technical standards:

FCC Part 15C				
No.	Standard Section	Test Item	Result	Remark
1	FCC Part 15.203	Antenna Requirement	Pass	
2	FCC Part 15.207	Conducted Emission	Pass	
3	FCC Part 15.209	Radiated Emission	Pass	
4	FCC Part 15.215	20dB Bandwidth	Pass	
Note: 1. "N/A" means the test case does not apply to the test object.				

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	
Occupied Bandwidth	$\pm 3\%$	
Temperature	± 1 degree	
Humidity	$\pm 5 \%$	

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	2025-05-07	2026-05-06
5	HB-E006	Preamplifier	Noyetec	LAN-1840	NYCM1420103	2025-05-07	2026-05-06
6	HB-E007	EMI TEST RECEIVER	R&S	ESR7	102520	2025-05-07	2026-05-06
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	2025-05-13	2026-05-12
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	2025-05-07	2026-05-06
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	2025-05-07	2026-05-06
2	HB-E015	Pulse Limiter	Schwarzbeck	VTSD 9561-F	00949	2025-05-07	2026-05-06
3	HB-E016	ZN23201	Noyetec	ZN23201	N/A	2025-05-10	2026-05-09
4	HB-E059	Attenuator	Xianghua	TS2-6-1	220215166	2025-05-10	2026-05-09
5	HB-E069	EMI TEST RECEIVER	R&S	ESCI	N/A	2025-05-07	2026-05-06
RF							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E041	MXG Anaio Signal Generator	Agilent	N5181A	MY47070421	2025-05-07	2026-05-06
2	HB-E042	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW500	132108	2025-05-08	2026-05-07

3	HB-E043	MXG Anaio Signal Generator	Agilent	N5182A	US46240335	2025-05-08	2026-05-07
4	HB-E044	Signal& spectrum Analyzer	R&S	FSV3044	101264	2025-05-07	2026-05-06
5	HB-E045	RF Control Box	Noyetec	NY100-R FCB	N/A	2025-05-08	2026-05-07
6	HB-E058	Thermometer Clock Humidity Monitor	N/A	HTC-1S	N/A	2025-05-09	2026-05-08

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 Coil 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 A		
Frequency (MHz)	Limit (dBµV)	
	Quasi-Peak	Average
0.15 to 0.5	79	66
0.5 to 30	73	60
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: 1. the tighter limit applies at the band edges. 2. the limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.		

5.2.2 Test Procedures

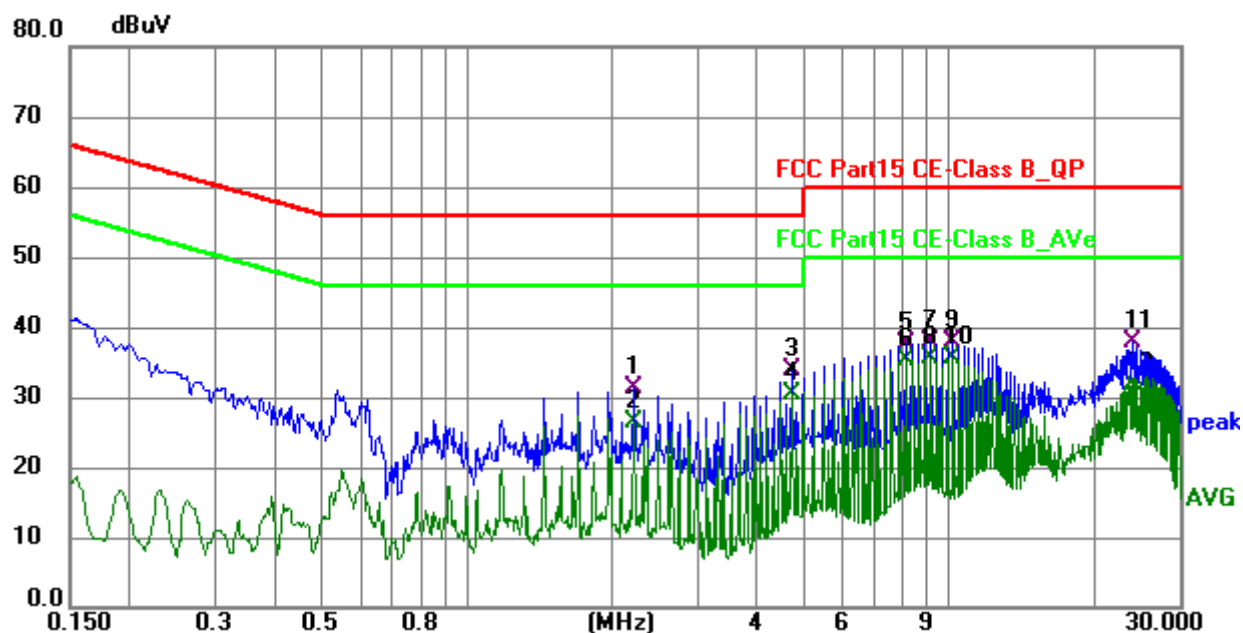
- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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



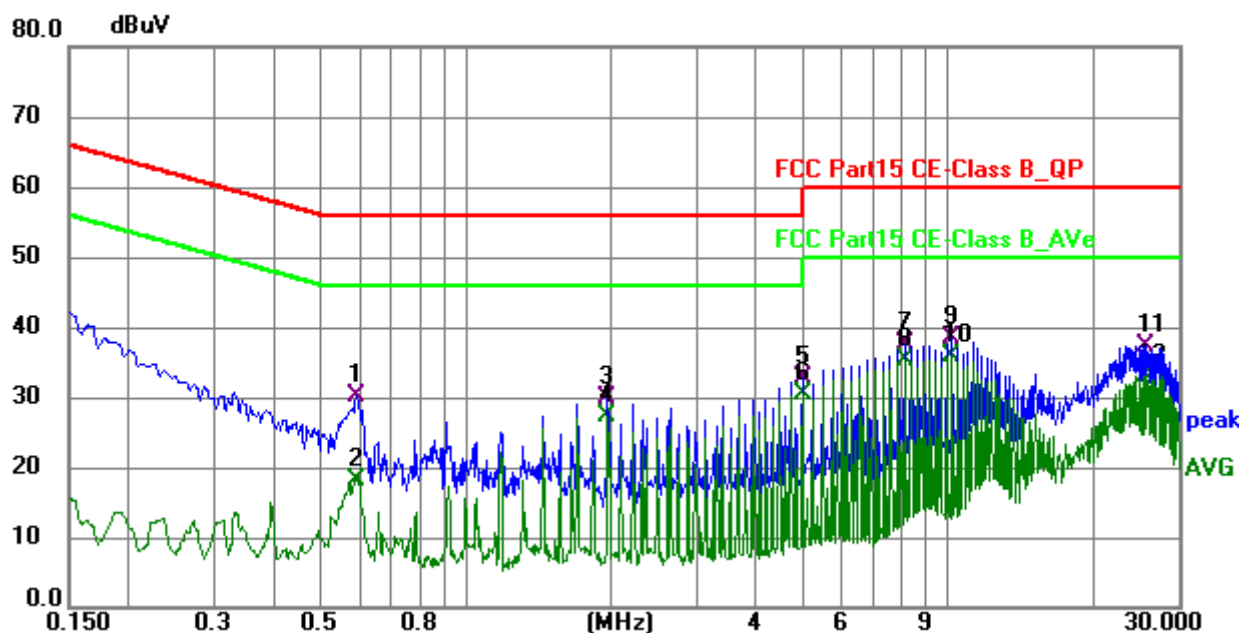
5.2.4 Test Result

EUT:	Power Bank	Model Name:	RC9.PD20.M2
Test Mode:	Mode 1	Phase:	L
Test Voltage:	DC 9V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	2.229	20.88	10.42	31.30	56.00	-24.70	QP
2	2.229	16.08	10.42	26.50	46.00	-19.50	AVG
3	4.718	22.55	11.26	33.81	56.00	-22.19	QP
4	4.718	19.22	11.26	30.48	46.00	-15.52	AVG
5	8.124	24.75	12.77	37.52	60.00	-22.48	QP
6	8.124	22.60	12.77	35.37	50.00	-14.63	AVG
7	9.172	24.60	13.22	37.82	60.00	-22.18	QP
8 *	9.172	22.25	13.22	35.47	50.00	-14.53	AVG
9	10.221	24.26	13.59	37.85	60.00	-22.15	QP
10	10.221	21.88	13.59	35.47	50.00	-14.53	AVG
11	24.113	22.53	15.21	37.74	60.00	-22.26	QP
12	24.113	16.68	15.21	31.89	50.00	-18.11	AVG

EUT:	Power Bank	Model Name:	RC9.PD20.M2
Test Mode:	Mode 1	Phase:	N
Test Voltage:	DC 9V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.591	20.15	10.12	30.27	56.00	-25.73	QP
2	0.591	8.13	10.12	18.25	46.00	-27.75	AVG
3	1.968	19.62	10.34	29.96	56.00	-26.04	QP
4	1.968	16.87	10.34	27.21	46.00	-18.79	AVG
5	4.979	21.41	11.39	32.80	56.00	-23.20	QP
6	4.979	19.00	11.39	30.39	46.00	-15.61	AVG
7	8.124	24.72	12.80	37.52	60.00	-22.48	QP
8	8.124	22.57	12.80	35.37	50.00	-14.63	AVG
9	10.221	24.66	13.64	38.30	60.00	-21.70	QP
10 *	10.221	22.22	13.64	35.86	50.00	-14.14	AVG
11	25.683	21.97	15.45	37.42	60.00	-22.58	QP
12	25.683	17.65	15.45	33.10	50.00	-16.90	AVG

5.3 Radiated Emission

5.3.1 Limits

Frequencies (MHz)	Field Strength (micorvolts/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

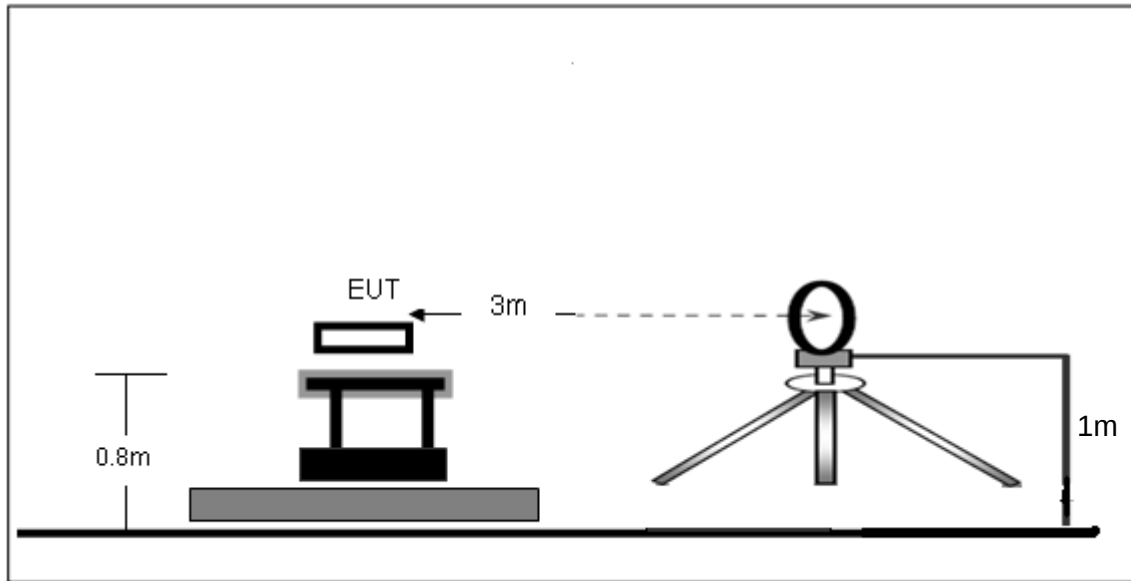
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.3.2 Test Procedures

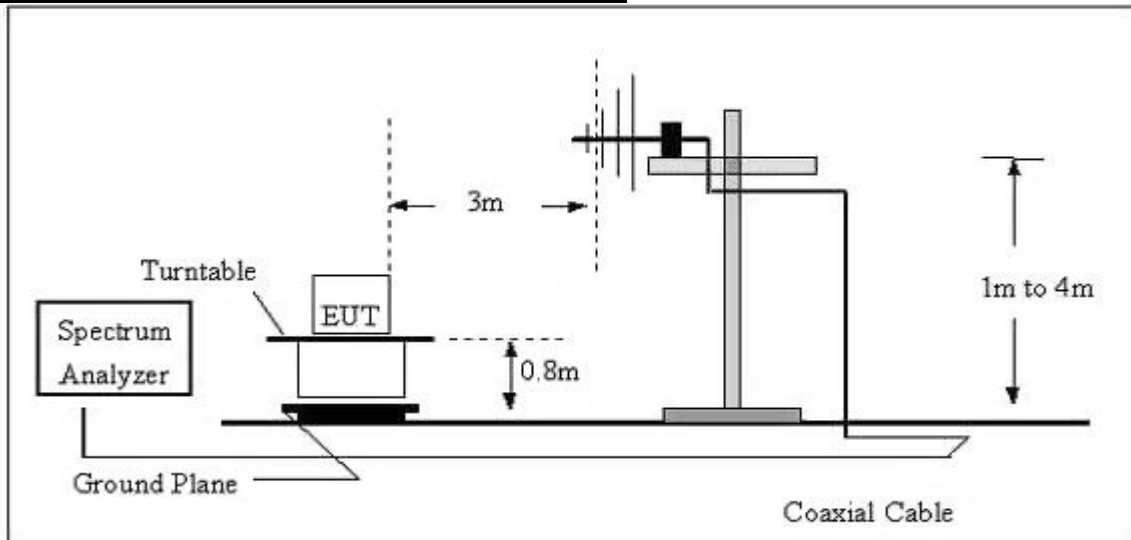
- The radiated emission tests were performed in the 3 meters.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the test antenna shall vary between 1m to 4m. Both horizontal 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

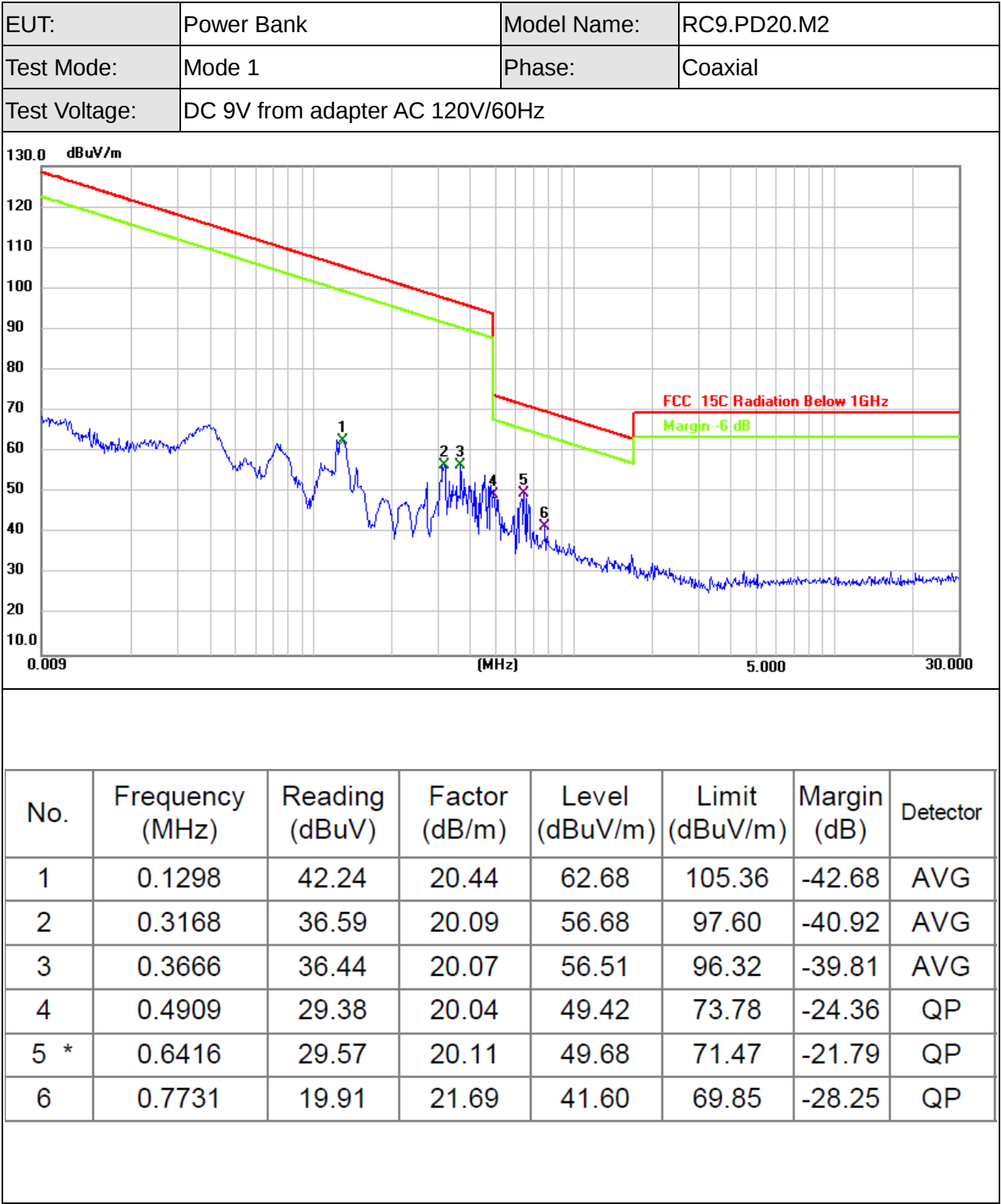


Radiated Emission Test-Up Frequency 30MHz~1GHz



5.3.4 Test Result

Frequency range (9kHz – 30MHz)

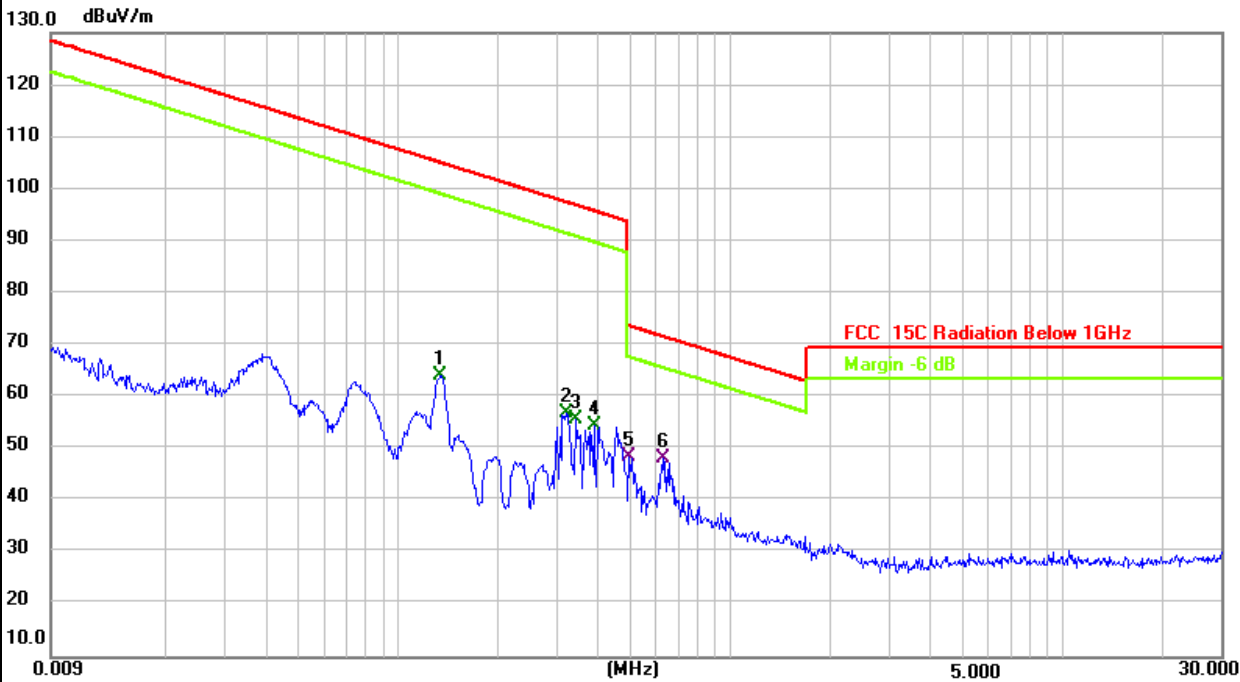


EUT:	Power Bank	Model Name:	RC9.PD20.M2
Test Mode:	Mode 2	Phase:	Coaxial
Test Voltage:	DC 3.85V from battery		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.3141	39.37	20.09	59.46	97.67	-38.21	AVG
2	0.3635	43.44	20.07	63.51	96.40	-32.89	AVG
3	0.5111	29.96	20.04	50.00	73.43	-23.43	QP
4 *	0.6363	32.23	20.10	52.33	71.54	-19.21	QP
5	1.0783	21.77	20.24	42.01	66.97	-24.96	QP
6	1.7975	15.04	20.31	35.35	69.50	-34.15	QP

EUT:	Power Bank	Model Name:	RC8.PD20.M2
Test Mode:	Mode 1	Phase:	Coaxial
Test Voltage:	DC 9V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1341	43.77	20.38	64.15	105.08	-40.93	AVG
2	0.3194	36.94	20.09	57.03	97.52	-40.49	AVG
3	0.3436	35.75	20.08	55.83	96.89	-41.06	AVG
4	0.3880	34.43	20.06	54.49	95.83	-41.34	AVG
5	0.4949	28.45	20.04	48.49	73.71	-25.22	QP
6 *	0.6262	28.05	20.10	48.15	71.68	-23.53	QP

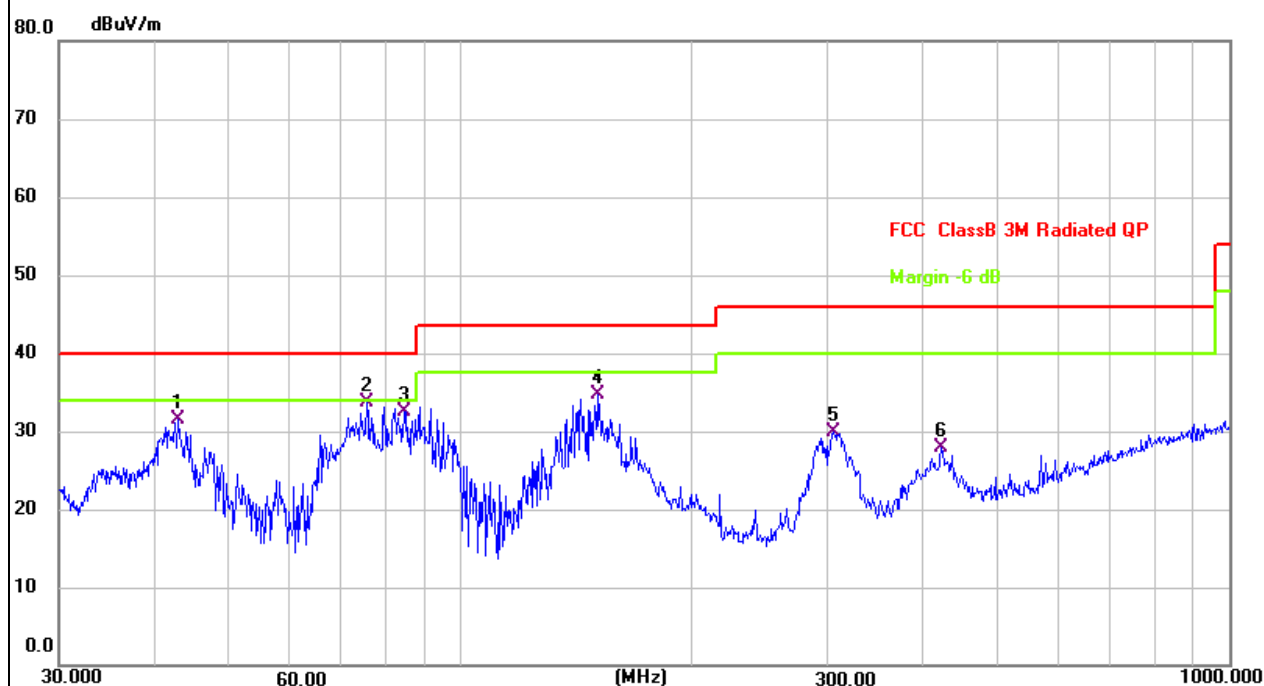
EUT:	Power Bank	Model Name:	RC8.PD20.M2
Test Mode:	Mode 2	Phase:	Coaxial
Test Voltage:	DC 3.85V from battery		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.3220	36.22	20.09	56.31	97.45	-41.14	AVG
2	0.3607	40.84	20.07	60.91	96.47	-35.56	AVG
3	0.4909	28.55	20.04	48.59	73.78	-25.19	QP
4 *	0.6574	27.32	20.11	47.43	71.25	-23.82	QP
5	1.0783	21.07	20.24	41.31	66.97	-25.66	QP
6	1.5408	7.94	20.28	28.22	63.88	-35.66	QP

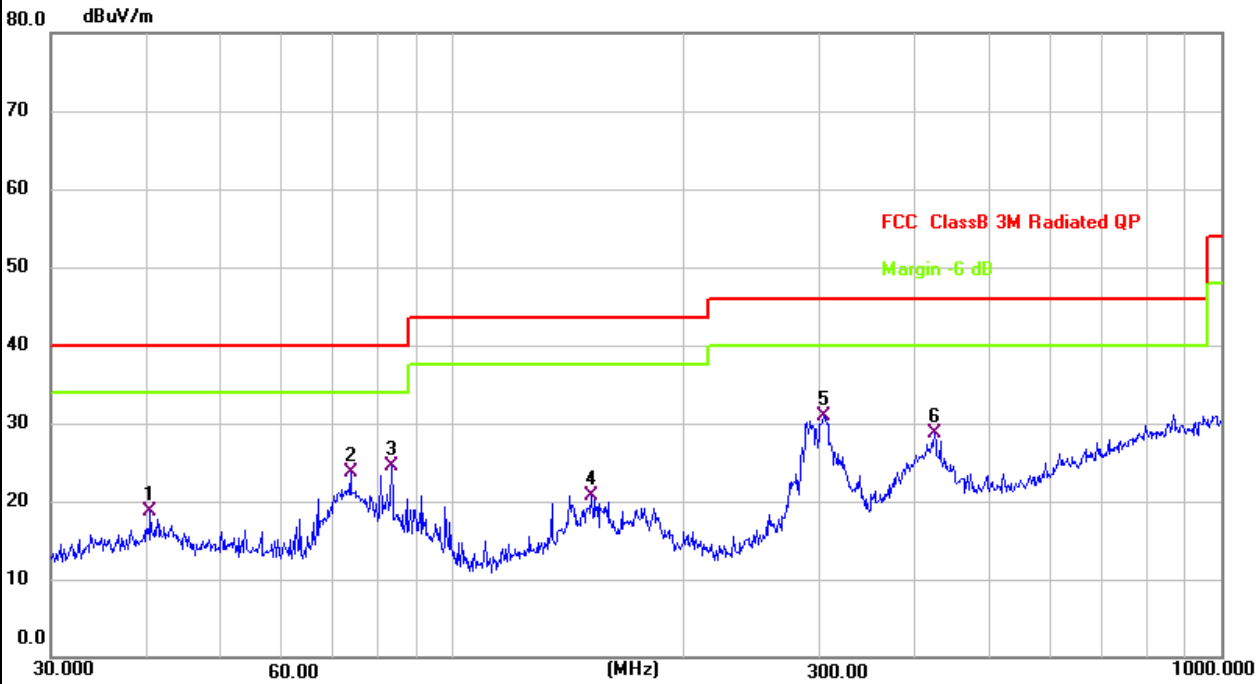
Frequency range (30MHz – 1GHz)

EUT:	Power Bank	Model Name:	RC9.PD20.M2
Test Mode:	Mode 1	Phase:	Vertical
Test Voltage:	DC 9V from adapter AC 120V/60Hz		



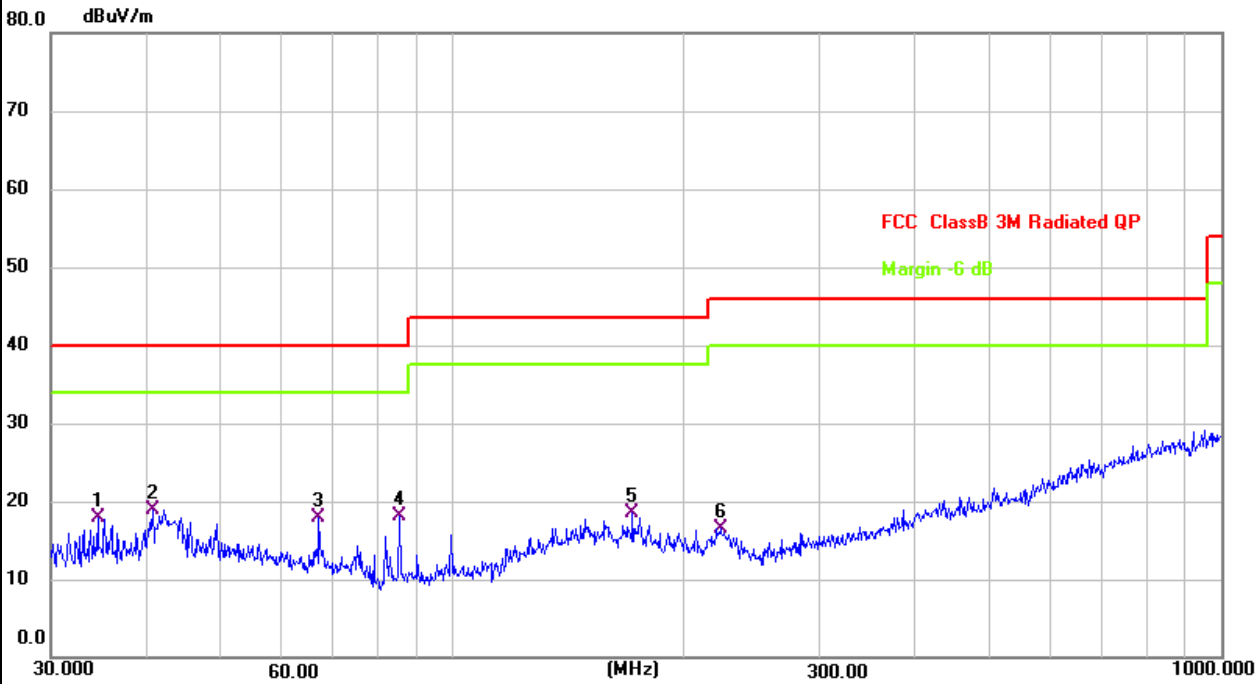
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	42.8998	45.36	-13.95	31.41	40.00	-8.59	QP
2 *	75.4464	50.48	-16.86	33.62	40.00	-6.38	QP
3	84.4054	50.80	-18.25	32.55	40.00	-7.45	QP
4	150.5378	48.16	-13.37	34.79	43.50	-8.71	QP
5	305.6800	42.27	-12.27	30.00	46.00	-16.00	QP
6	422.0577	36.55	-8.71	27.84	46.00	-18.16	QP

EUT:	Power Bank	Model Name:	RC9.PD20.M2
Test Mode:	Mode 1	Phase:	Horizontal
Test Voltage:	DC 9V from adapter AC 120V/60Hz		



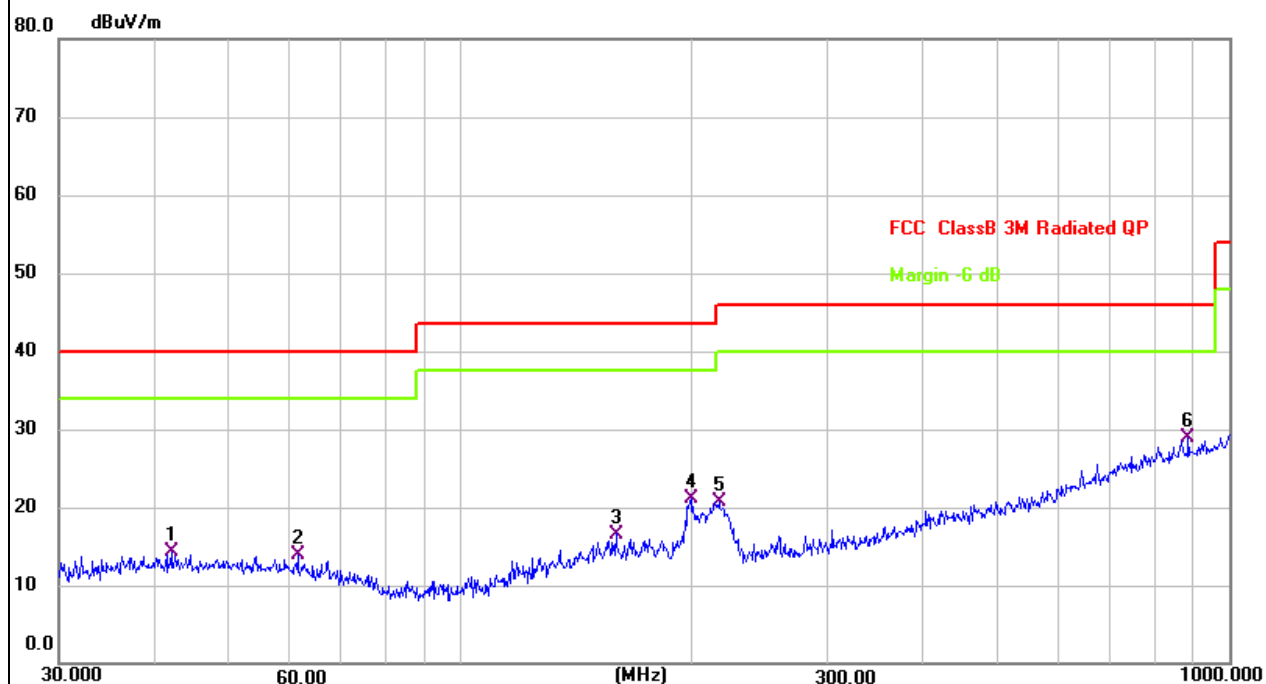
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.4172	32.51	-13.82	18.69	40.00	-21.31	QP
2	73.6170	40.37	-16.60	23.77	40.00	-16.23	QP
3	83.2298	42.72	-18.26	24.46	40.00	-15.54	QP
4	151.5972	33.91	-13.25	20.66	43.50	-22.84	QP
5 *	304.6099	43.22	-12.30	30.92	46.00	-15.08	QP
6	423.5403	37.37	-8.68	28.69	46.00	-17.31	QP

EUT:	Power Bank	Model Name:	RC9.PD20.M2
Test Mode:	Mode 2	Phase:	Vertical
Test Voltage:	DC 3.85V from battery		



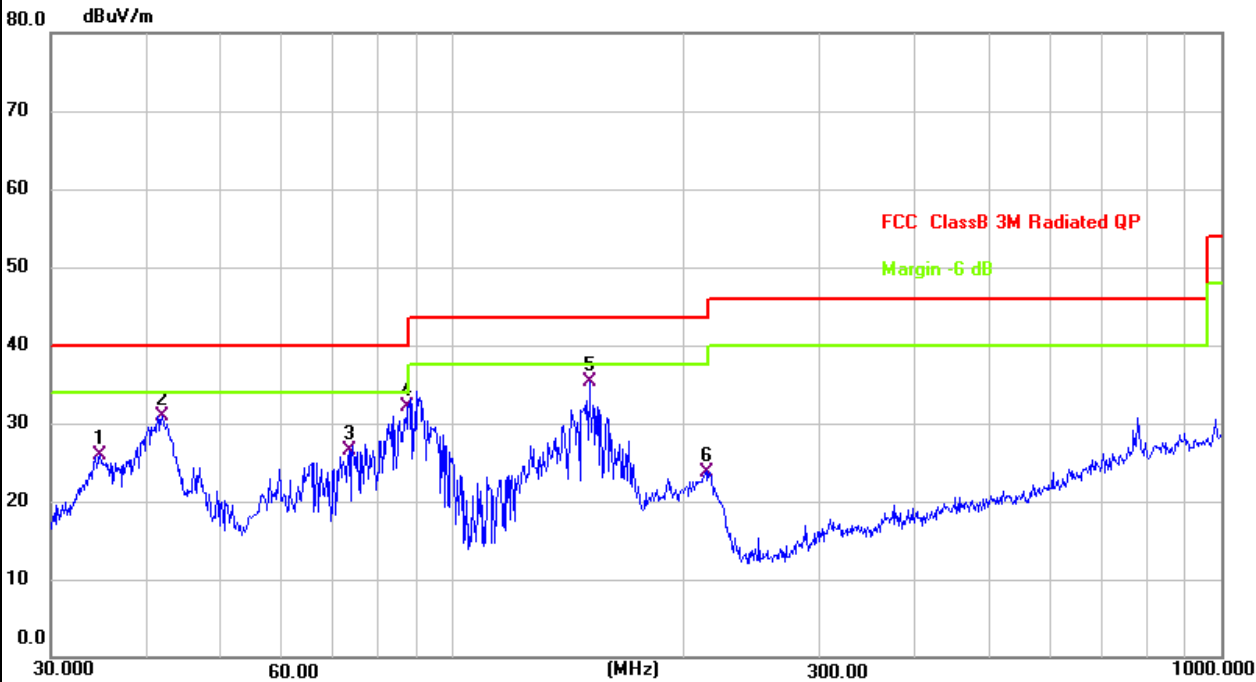
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	34.5173	32.66	-14.69	17.97	40.00	-22.03	QP
2 *	40.7016	32.73	-13.82	18.91	40.00	-21.09	QP
3	66.9669	33.48	-15.58	17.90	40.00	-22.10	QP
4	85.2980	36.24	-18.15	18.09	40.00	-21.91	QP
5	171.3926	32.03	-13.59	18.44	43.50	-25.06	QP
6	222.9502	32.93	-16.40	16.53	46.00	-29.47	QP

EUT:	Power Bank	Model Name:	RC9.PD20.M2
Test Mode:	Mode 2	Phase:	Horizontal
Test Voltage:	DC 3.85V from battery		



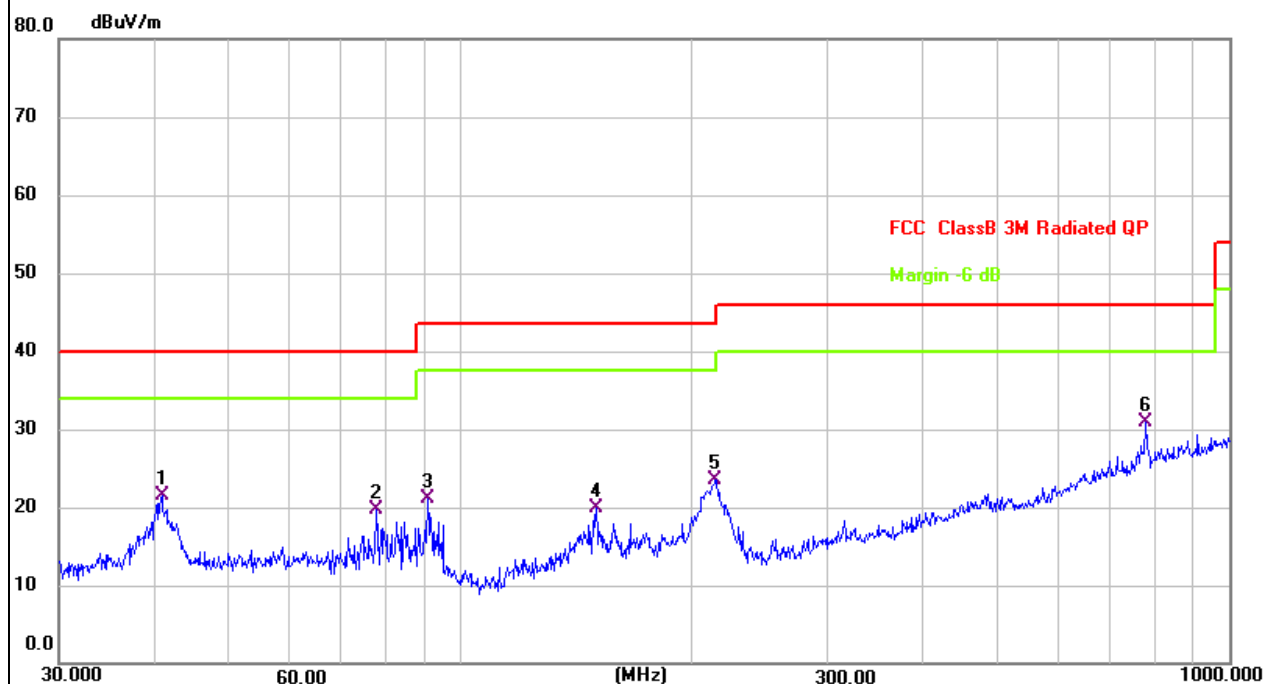
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	42.0066	28.13	-13.88	14.25	40.00	-25.75	QP
2	61.3463	28.78	-14.79	13.99	40.00	-26.01	QP
3	159.2251	29.88	-13.28	16.60	43.50	-26.90	QP
4	199.2855	37.59	-16.58	21.01	43.50	-22.49	QP
5	216.7828	37.37	-16.61	20.76	46.00	-25.24	QP
6 *	884.5029	27.52	1.33	28.85	46.00	-17.15	QP

EUT:	Power Bank	Model Name:	RC8.PD20.M2
Test Mode:	Mode 1	Phase:	Vertical
Test Voltage:	DC 9V from adapter AC 120V/60Hz		

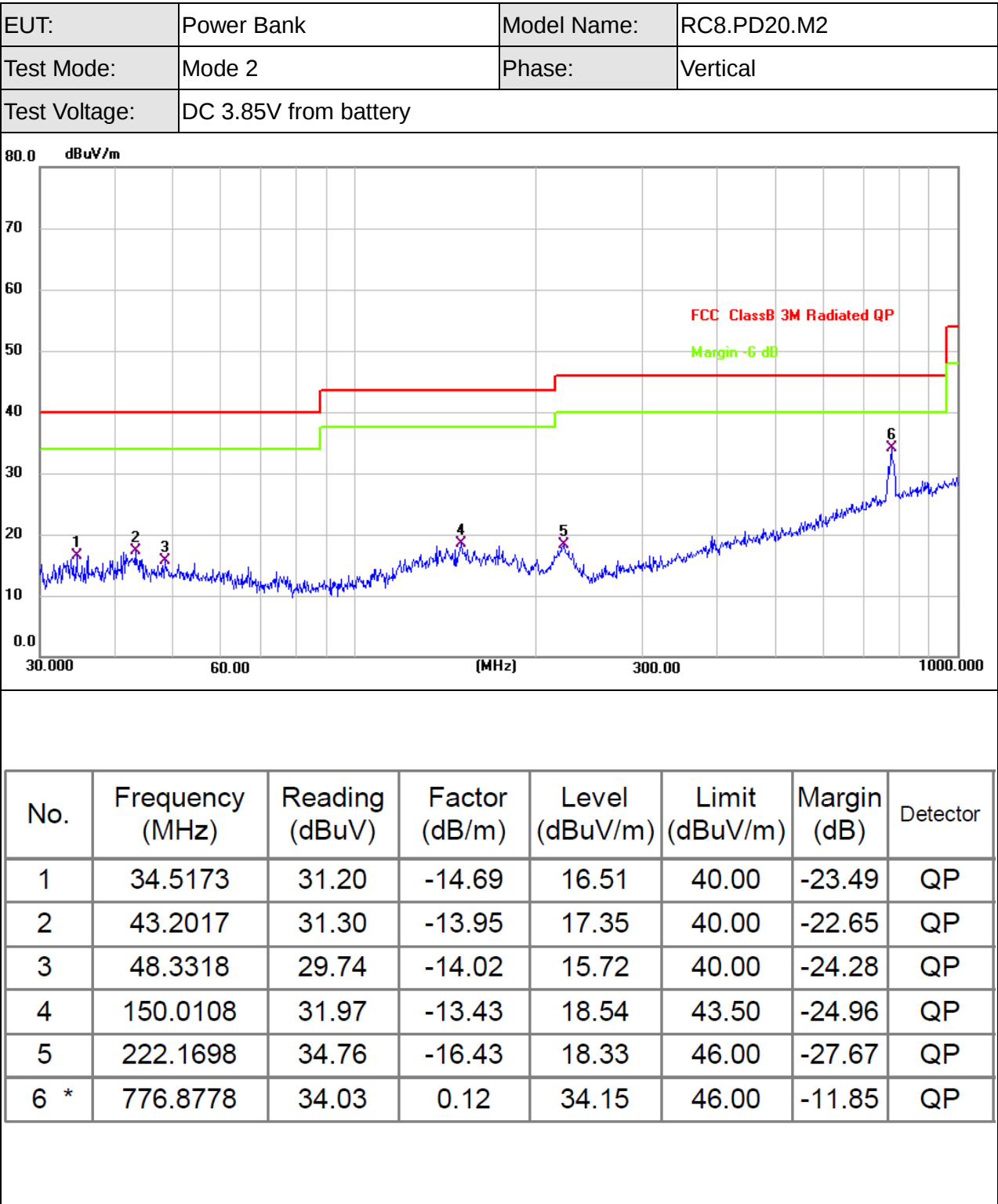


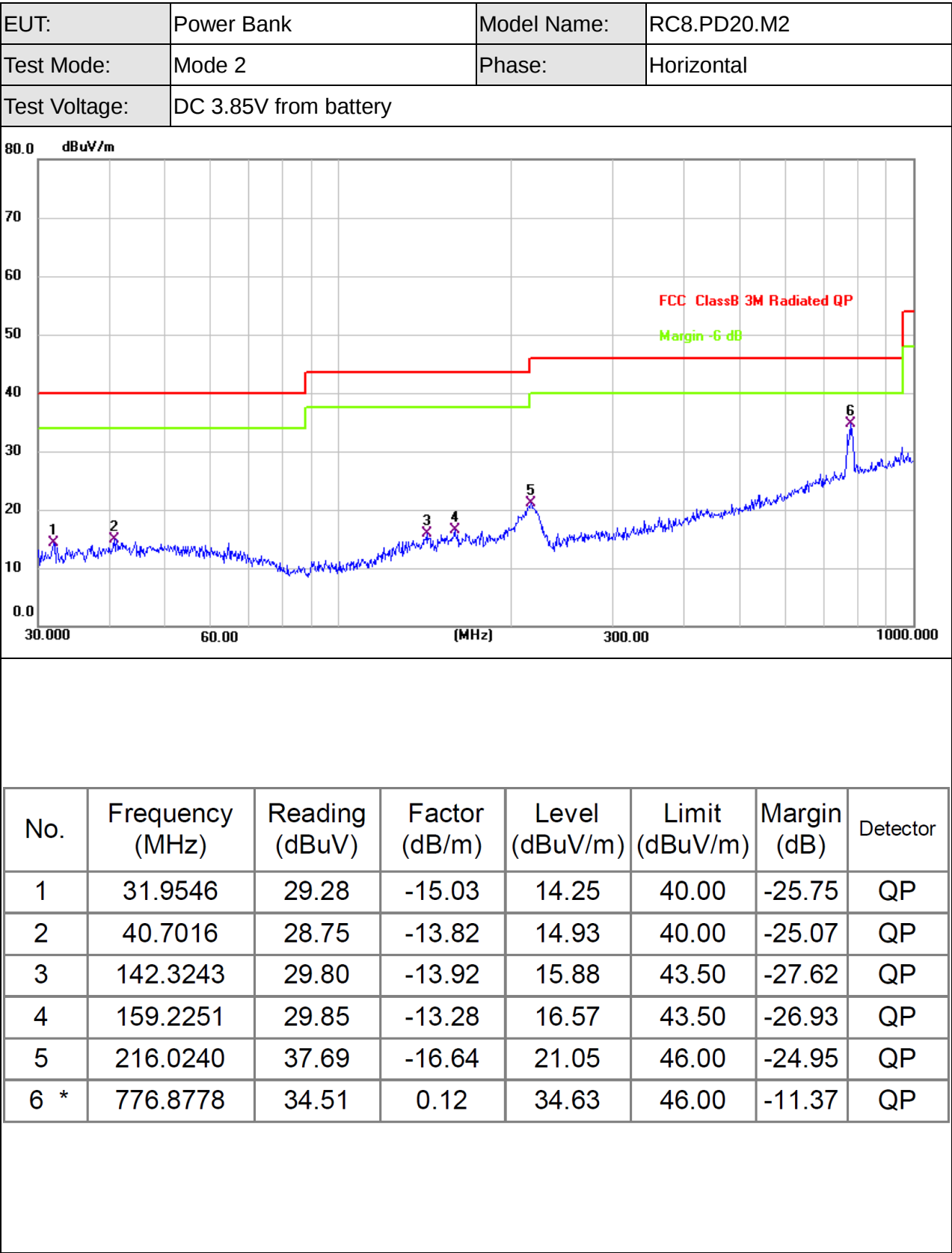
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	34.7601	40.47	-14.64	25.83	40.00	-14.17	QP
2	41.8595	44.82	-13.88	30.94	40.00	-9.06	QP
3	73.3593	42.99	-16.55	26.44	40.00	-13.56	QP
4 *	87.4176	50.41	-18.26	32.15	40.00	-7.85	QP
5	150.5377	48.62	-13.37	35.25	43.50	-8.25	QP
6	213.7634	40.50	-16.70	23.80	43.50	-19.70	QP

EUT:	Power Bank	Model Name:	RC8.PD20.M2
Test Mode:	Mode 1	Phase:	Horizontal
Test Voltage:	DC 9V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.8444	35.24	-13.81	21.43	40.00	-18.57	QP
2	77.5926	37.01	-17.35	19.66	40.00	-20.34	QP
3	90.5374	39.47	-18.33	21.14	43.50	-22.36	QP
4	150.0107	33.24	-13.43	19.81	43.50	-23.69	QP
5	214.5141	40.26	-16.67	23.59	43.50	-19.91	QP
6 *	779.6067	30.75	0.13	30.88	46.00	-15.12	QP





5.4 Occupied Bandwidth

5.4.1 Test method

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW $\geq 1\%$ to 5% of the OBW

VBW $\geq 3 \times \text{RBW}$

Sweep = auto

Detector function = peak

Trace = max hold

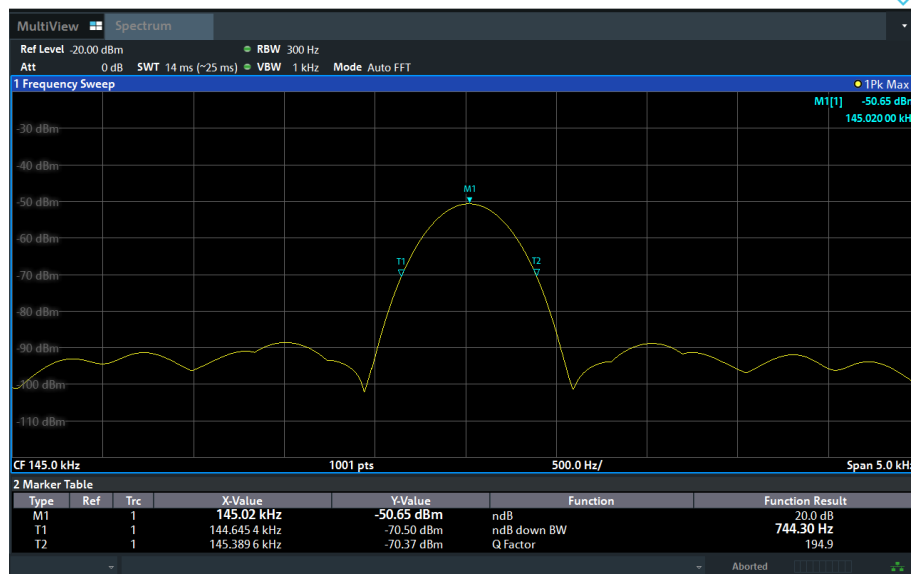
The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth and 99% occupied bandwidth of the emission.

Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

5.4.2 Test result

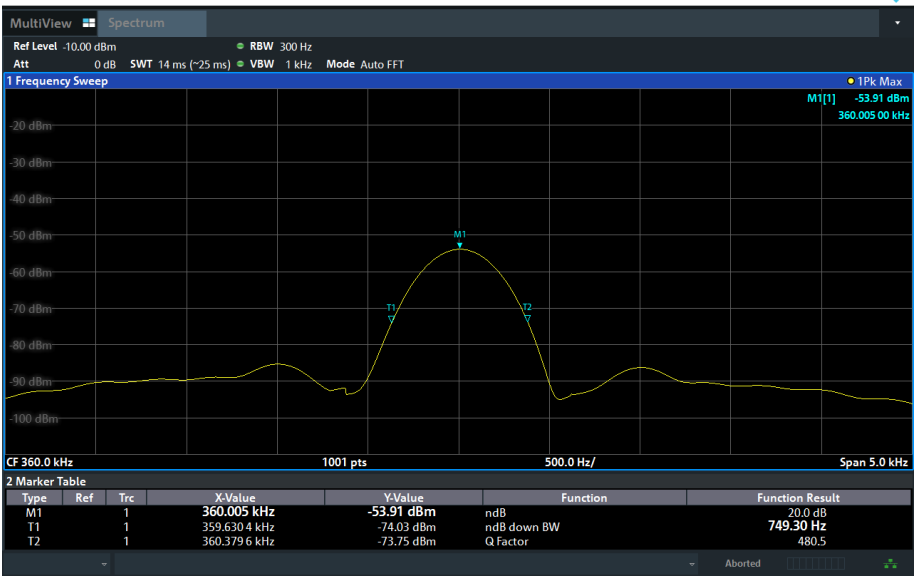
Frequency (kHz)	20dB emission bandwidth (Hz)
145	744.30

Test plots as below:



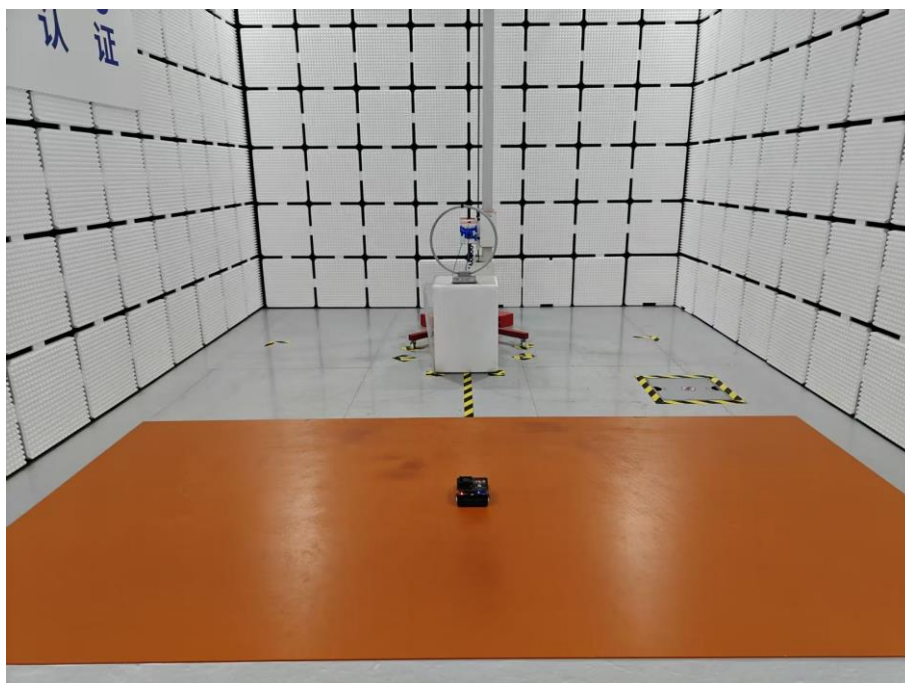
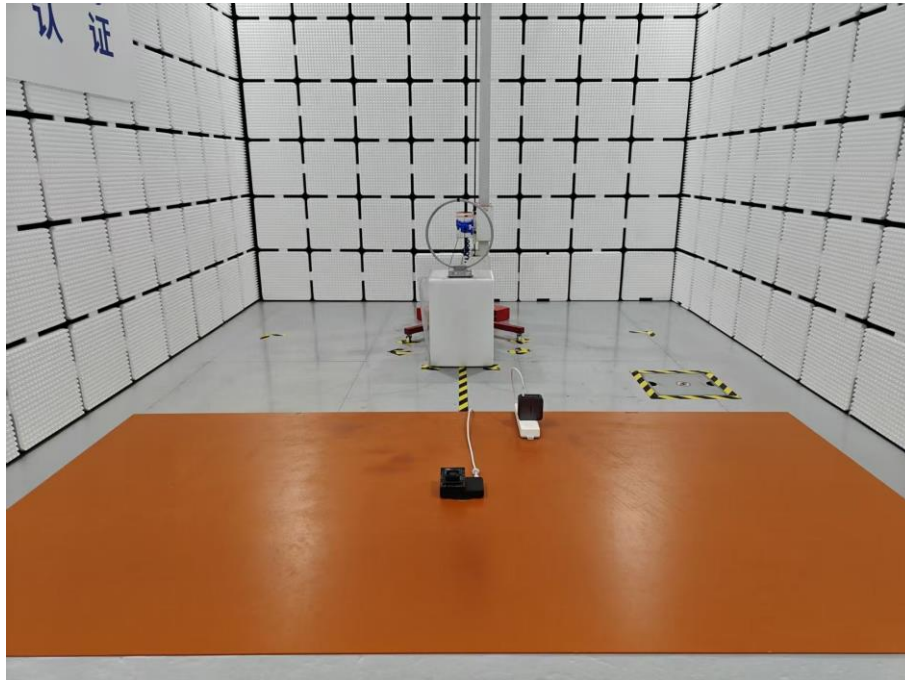
Frequency (kHz)	20dB emission bandwidth (Hz)
360	749.30

Test plots as below:

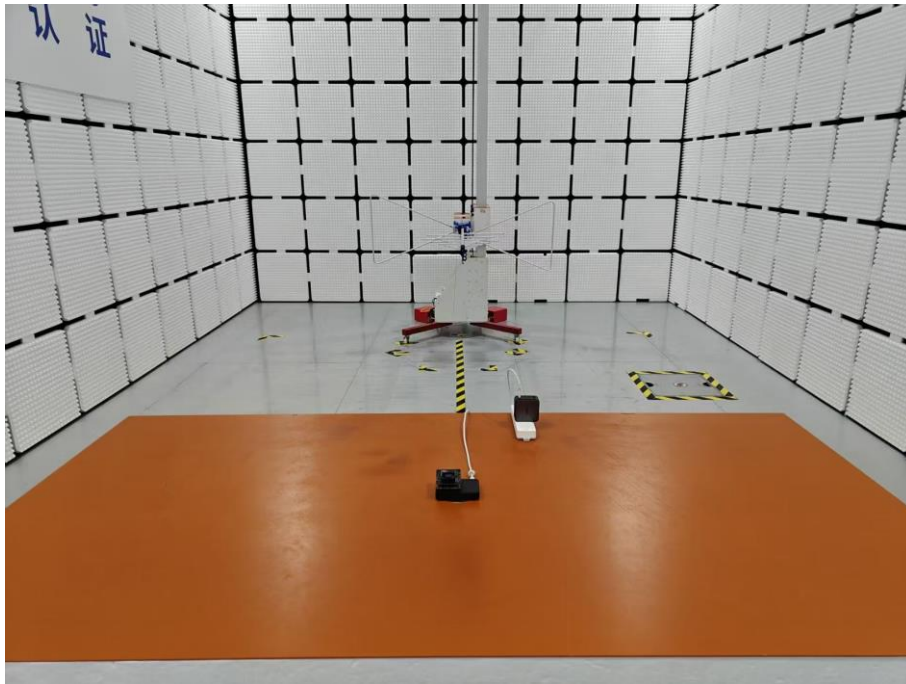


6 Photographs of the Test Setup

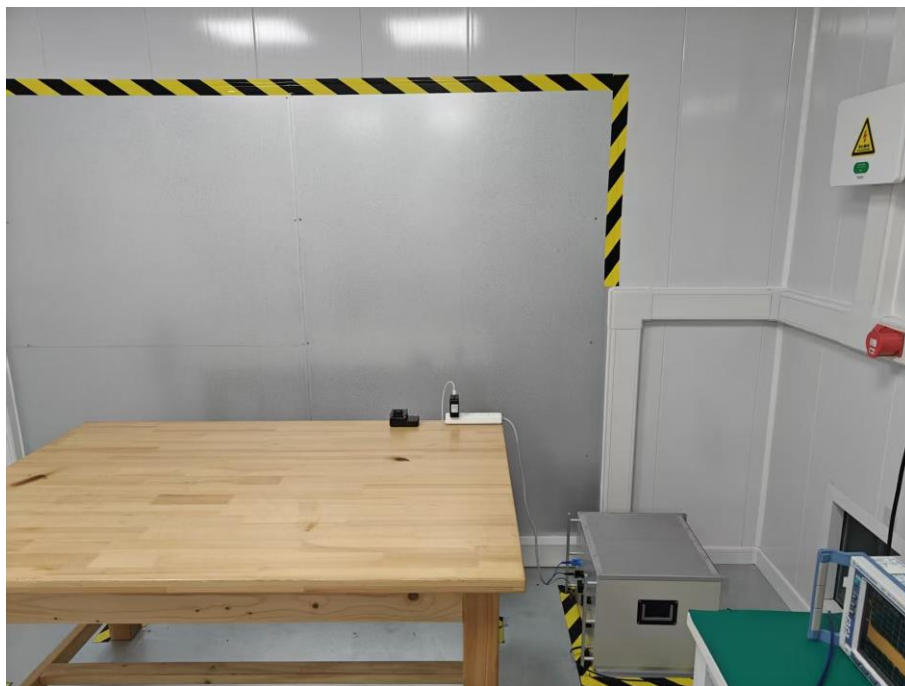
Radiated Emission Below 30MHz



Radiated Emission Above 30MHz



Conducted Emission



7 Photographs of the EUT

Photo 1



Photo 2



Photo 3



Photo 4



Photo 5

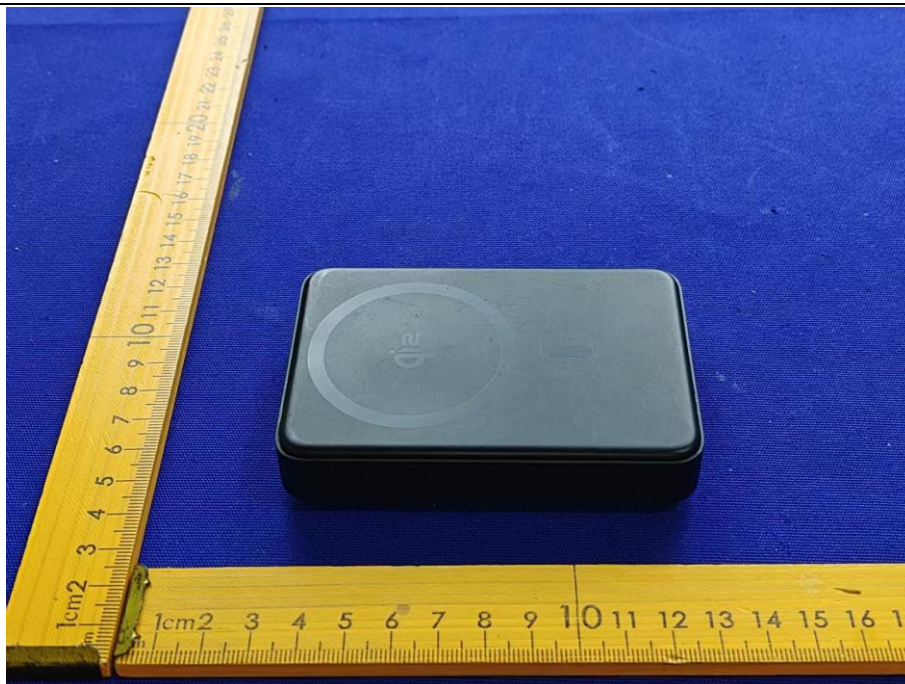


Photo 6



Photo 7

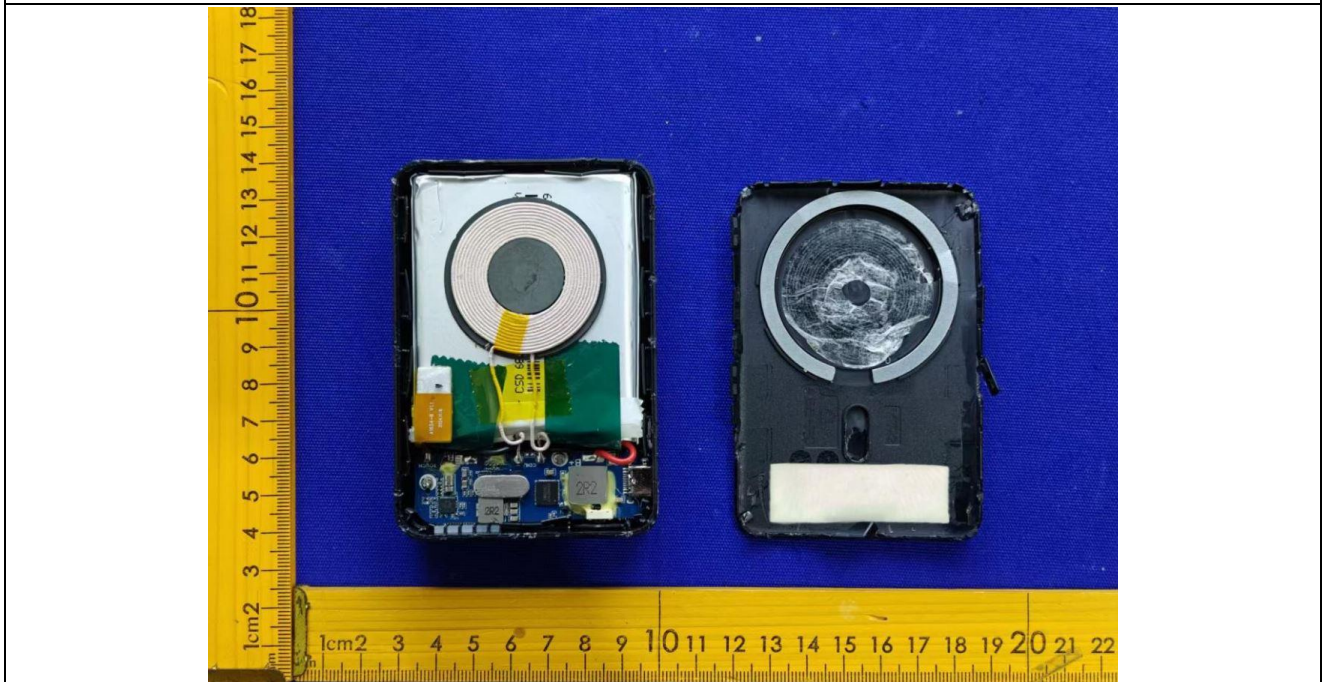


Photo 8

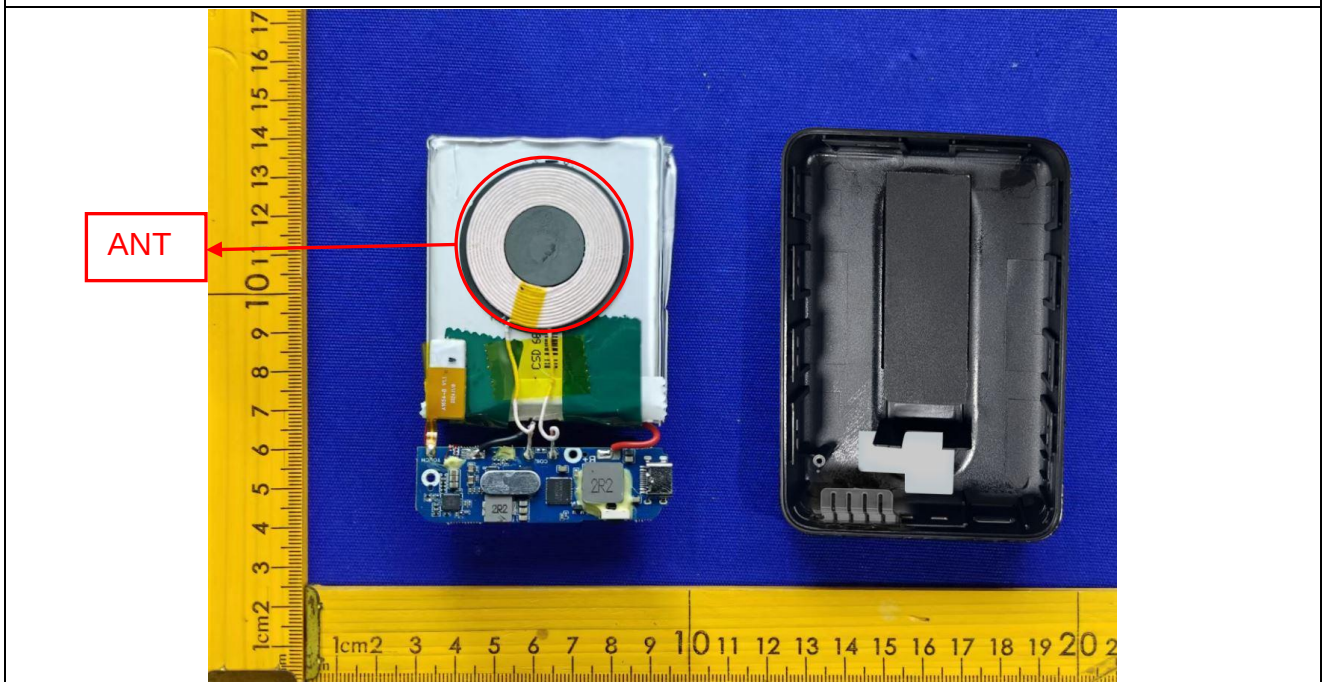


Photo 9

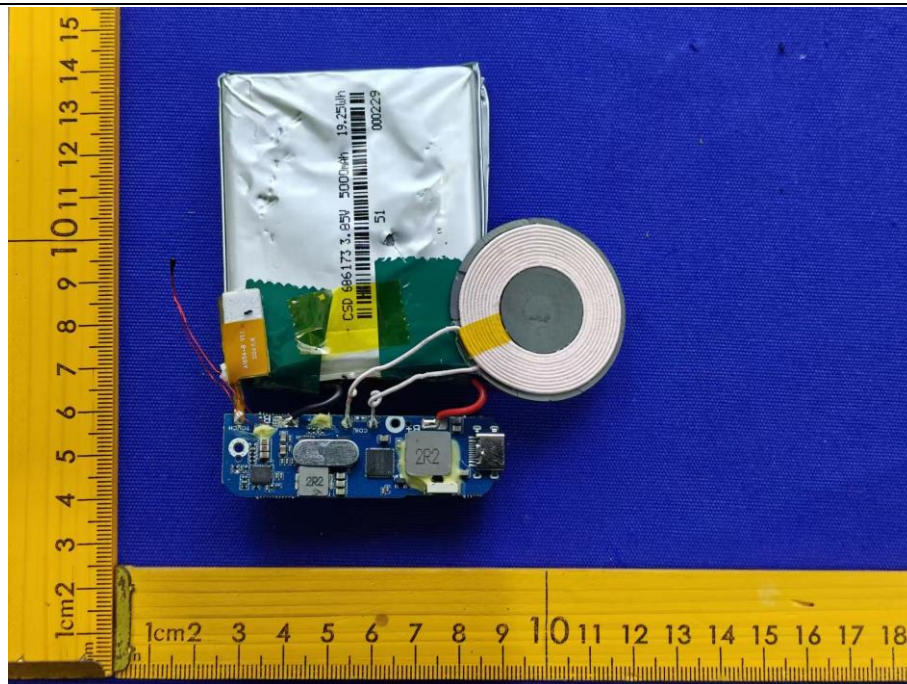


Photo 10

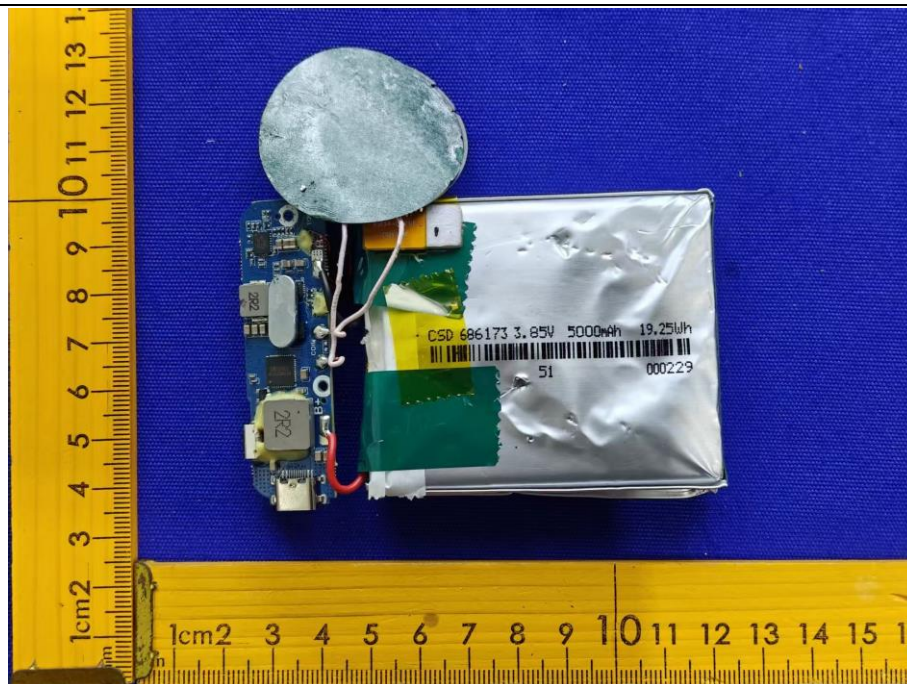


Photo 11

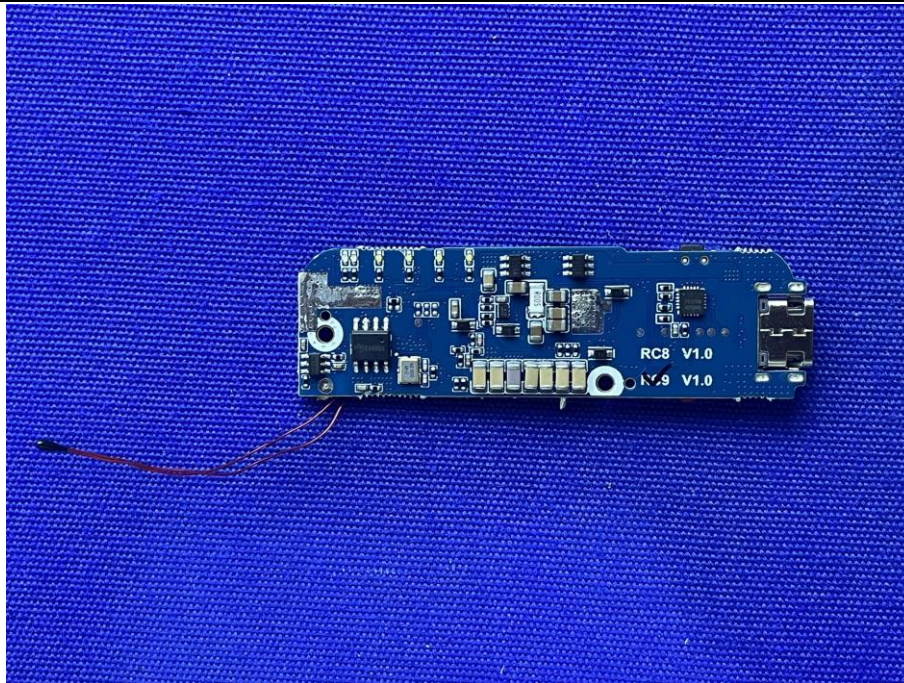
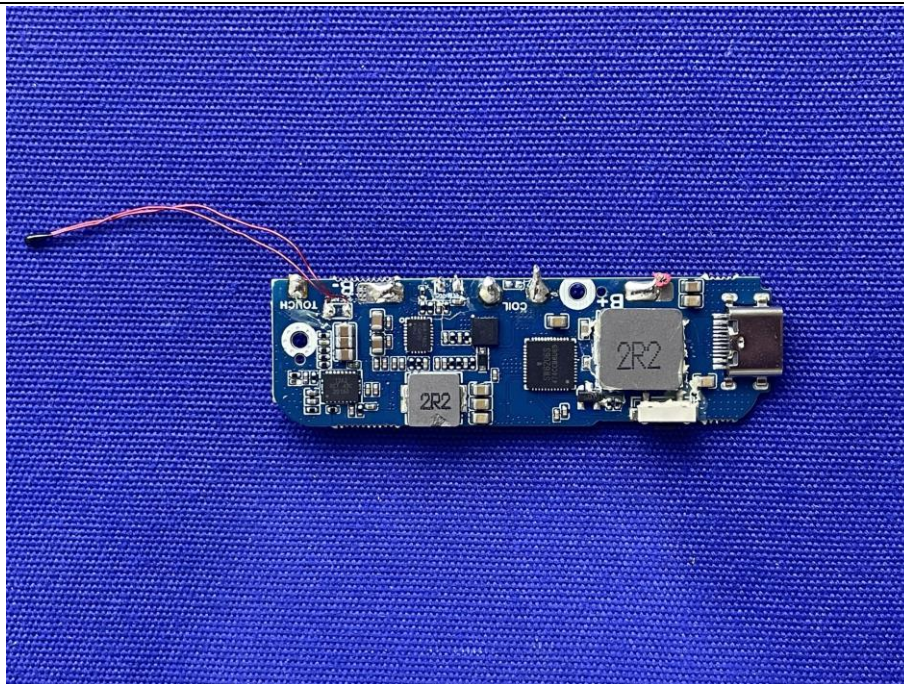


Photo 12



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