



TEST REPORT

Report Reference No...... : **CHTEW22050061** Report Verification: 

Project No...... : **SHT2204018602EW**

FCC ID..... : **2A6HY-X3**

Applicant's name : **Tecnologias de la Informacion y Pago Integrado S.A.S.**

Address..... : **Carrera 65 # 8B - 91 Oficina 370**

Test item description : **4G Body Worn Camera**

Trade Mark : **TAGED**

Model/Type reference..... : **X3**

Listed Model(s) : **-**

Standard : **47 CFR FCC Part 15 Subpart B**

Date of receipt of test sample..... : **Apr. 18, 2022**

Date of testing..... : **Apr. 19, 2022- May. 10, 2022**

Date of issue..... : **May. 11, 2022**

Result..... : **Pass**

Compiled by
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Supervised by
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Approved by
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Silvia Li

Aaron Fang

Hans Hu

Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**

Address..... : **1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China**

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The test report merely corresponds to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

[47 CFR FCC Part 15 Subpart B](#) - Unintentional Radiators

[ANSI C63.4: 2014](#) – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

1.2. Report version information

Revision No.	Date of issue	Description
N/A	2022-05-11	Change camera location ,make difference test on Radiated Emissions , others are the same as case:SHT2204018601EW

2. TEST DESCRIPTION

Test Item	Section in CFR 47	Result	Test Engineer
Conducted Emissions	15.107(a)	PASS	Jiongsheng Feng
Radiated Emissions	15.109(a)	PASS	Pan Xie

Note: The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant:	Tecnologias de la Informacion y Pago Integrado S.A.S.
Address:	Carrera 65 # 8B - 91 Oficina 370
Manufacturer:	Tecnologias de la Informacion y Pago Integrado S.A.S.
Address:	Carrera 65 # 8B - 91 Oficina 370

3.2. Product Description

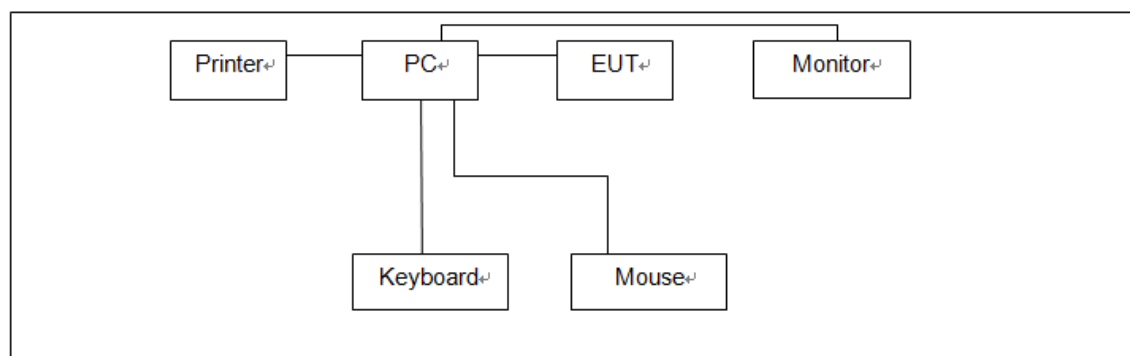
Name of EUT:	4G Body Worn Camera
Trade Mark:	TAGED
Model No.:	X3
Listed Model(s)	-
Power supply:	DC 3.8V
Adapter information 1:	Model:JZB110-050200WU Input: AC100-240V, 50/60Hz, 0.35A Output: 5.0Vdc,2.0A 10.0W
Adapter information 2:	Model:J151-050300IU Input: AC100-240V, 50/60Hz, 0.6A Output: 5.0Vdc, 3.0A 15.0W

3.3. EUT operation mode

Test mode	Describe
Camera recording mode	Keep the EUT in Camera recording status
Video Playing mode	Keep the EUT in Video Playing status
Data exchange mode	Keep the EUT in Data exchange with PC status

Pre-scan all of above modes. Only show Camera recording mode which is the worst case on the report.

3.4. Configuration of Tested System



3.5. Support unit used in test configuration

Item	Equipment	Manufacturer	Model No.	FCC ID / FCC DoC	Data Cable	Power Cord
1	PC	DELL	OptiPlex 3020 MT	FCC DoC	N/A	Unshielded 1.8m
2	Monitor	DELL	E1912Hf	FCC DoC	N/A	Unshielded 1.8m
3	Keyboard	DELL	SK8115	FCC DoC	Unshielded, 1.5m	N/A
4	Mouse	DELL	MS111-T	FCC DoC	Unshielded, 1.5m	N/A
5	Printer	EPSON	L101	FCC DoC	N/A	Unshielded 1.8m

4. TEST ENVIRONMENT

4.1. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China	
Connect information:	Tel: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type	Accreditation Number
	FCC	762235

4.2. Environmental conditions

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

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

4.3. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emissions	30~1000MHz	4.90 dB	(1)
Radiated Emissions	1~18GHz	4.96 dB	(1)
Conducted Disturbance	0.15~30MHz	3.02 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.4. Equipments Used during the Test

● Conducted Emission							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Shielded Room	Albatross projects	HTWE0114	N/A	N/A	2018/09/28	2023/09/27
●	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2020/10/19	2021/10/18
●	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2020/10/15	2021/10/14
●	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2020/10/15	2021/10/14
●	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLEX_142	EF-NM-BNCM-2M	2020/10/15	2021/10/14
●	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

● Radiated Emission-6th test site							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2022/09/29
●	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2021/09/14	2022/09/13
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0119	VULB9163	546	2020/04/28	2023/04/27
●	Pre-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2021/11/05	2022/11/04
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2022/02/25	2023/02/24
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2022/02/25	2023/02/24
●	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

● Radiated emission-7th test site							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11121	2018/09/27	2022/09/26
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2021/09/13	2022/09/12
●	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2022/02/28	2023/02/27
●	RF Connection Cable	HUBER+SUHNER	HTWE0126-01	RE-7-FH	N/A	2022/03/04	2023/03/03
●	Test Software	Audix	N/A	E3	N/A	N/A	N/A

5. TEST CONDITIONS AND RESULTS

5.1. Conducted Emissions Test

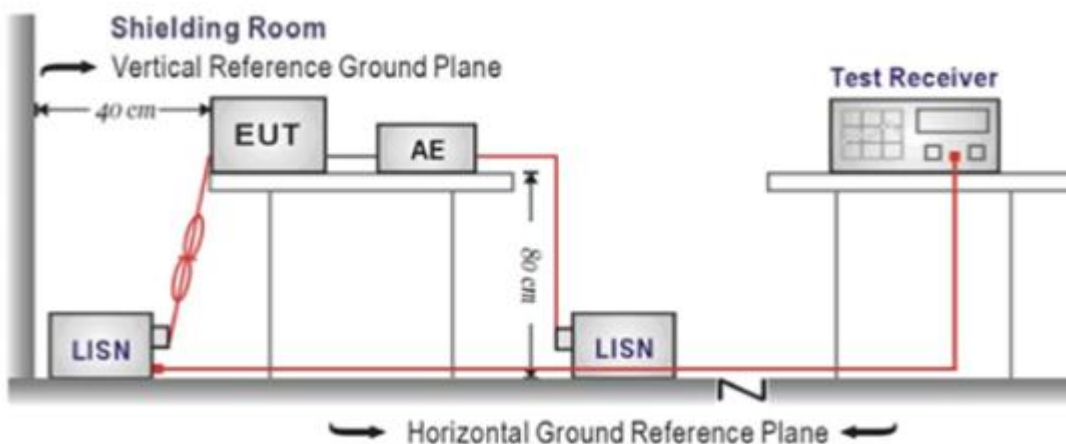
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.107:

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 CONFIGURATION



TEST PROCEDURE

1. The EUT was setup according to ANSI C63.4:2014
2. The EUT was placed on a plat form of nominal size, 1 m by 1.5 m, raised 10 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 10 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50ohm / 50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

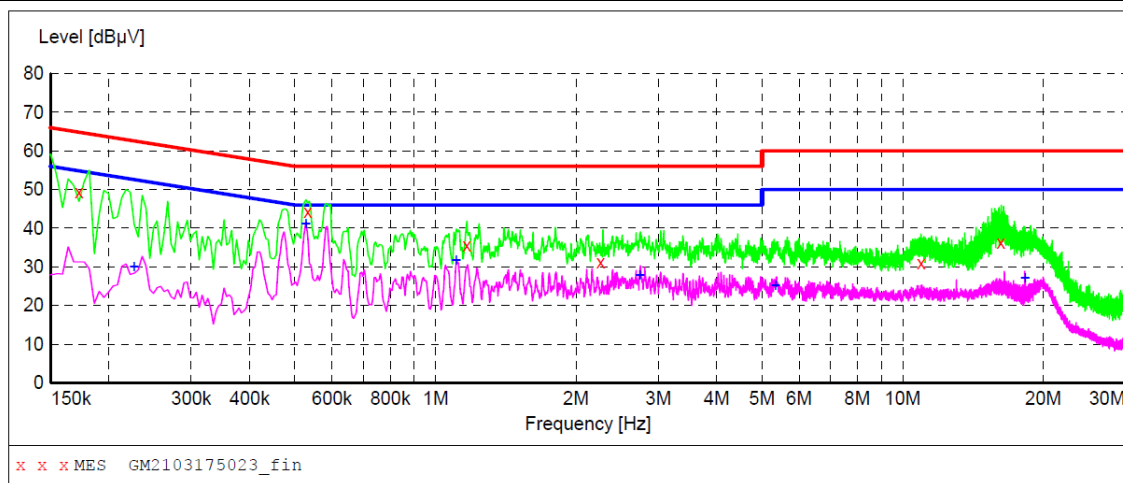
Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

Test Line:

L

**MEASUREMENT RESULT: "GM2103175023_fin"**

3/17/2021 1:09PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.172500	49.30	10.2	65	15.5	QP	L1	GND
0.532500	44.30	10.2	56	11.7	QP	L1	GND
1.167000	35.60	10.2	56	20.4	QP	L1	GND
2.256000	31.20	10.2	56	24.8	QP	L1	GND
10.950000	31.10	10.5	60	28.9	QP	L1	GND
16.224000	36.40	10.4	60	23.6	QP	L1	GND

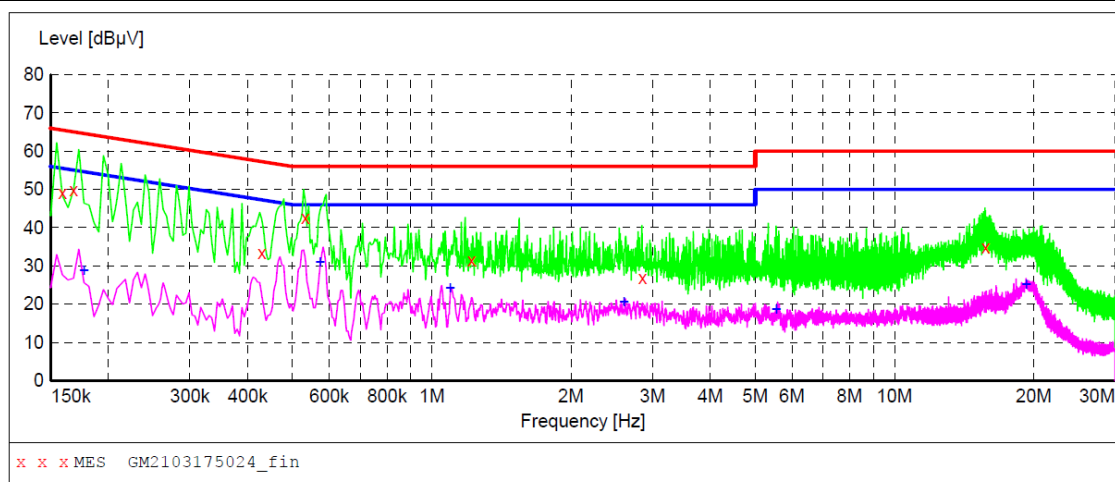
MEASUREMENT RESULT: "GM2103175023_fin2"

3/17/2021 1:09PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.226500	30.10	10.2	53	22.5	AV	L1	GND
0.528000	41.20	10.2	46	4.8	AV	L1	GND
1.108500	31.70	10.2	46	14.3	AV	L1	GND
2.737500	27.90	10.2	46	18.1	AV	L1	GND
5.343000	25.30	10.2	50	24.7	AV	L1	GND
18.271500	27.10	10.5	50	22.9	AV	L1	GND

Test Line:

N

**MEASUREMENT RESULT: "GM2103175024_fin"**

3/17/2021 1:15PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.159000	49.10	10.2	66	16.4	QP	N	GND
0.168000	49.90	10.2	65	15.2	QP	N	GND
0.429000	33.30	10.2	57	24.0	QP	N	GND
0.532500	42.50	10.2	56	13.5	QP	N	GND
1.216500	31.40	10.2	56	24.6	QP	N	GND
2.854500	26.90	10.2	56	29.1	QP	N	GND
15.729000	34.90	10.4	60	25.1	QP	N	GND

MEASUREMENT RESULT: "GM2103175024_fin2"

3/17/2021 1:15PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.177000	28.70	10.2	55	25.9	AV	N	GND
0.573000	31.10	10.2	46	14.9	AV	N	GND
1.095000	24.10	10.2	46	21.9	AV	N	GND
2.602500	20.50	10.2	46	25.5	AV	N	GND
5.554500	18.60	10.2	50	31.4	AV	N	GND
19.261500	25.20	10.5	50	24.8	AV	N	GND

5.2. Radiated Emissions Test

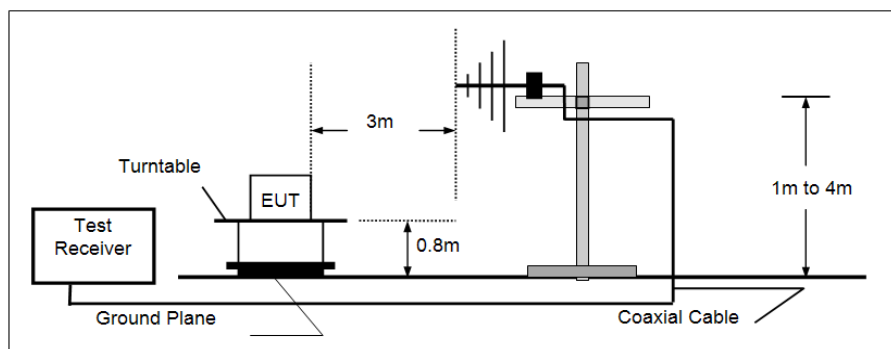
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.109

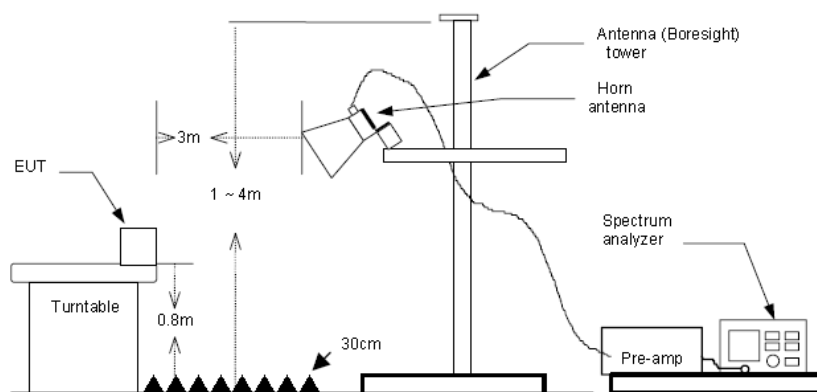
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

➤ 30MHz ~ 1GHz



➤ Above 1GHz



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.4:2014.
2. The EUT is placed on a turn table which is 0.8 meter above ground.
3. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
4. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
5. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1GHz,
RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold;
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - (3) From 1GHz to 5th harmonic, RBW=1MHz, VBW=3MHz

TEST MODE:

Please refer to the clause 3.3

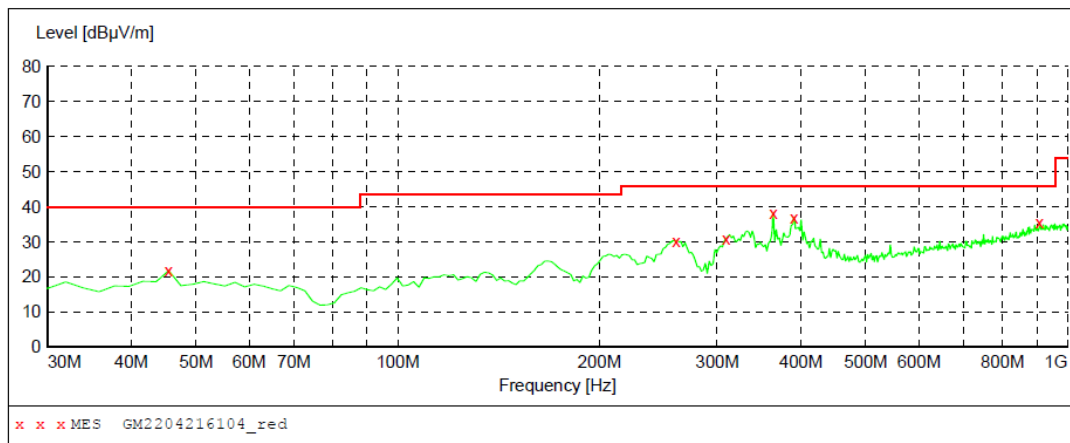
TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

Note: Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
The emission levels of frequency above 6GHz are very lower than limit and not show in test report.

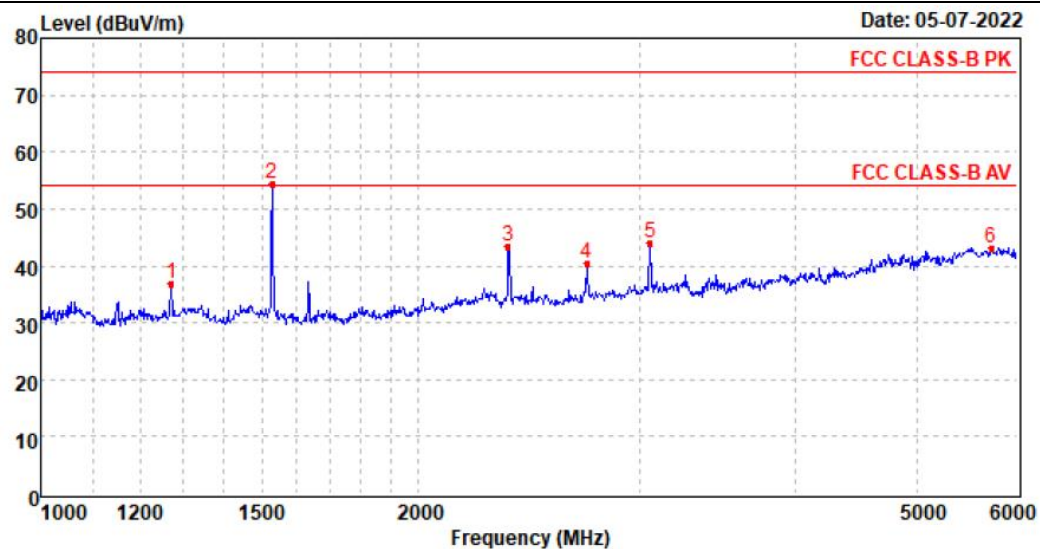
Polarization:

Horizontal

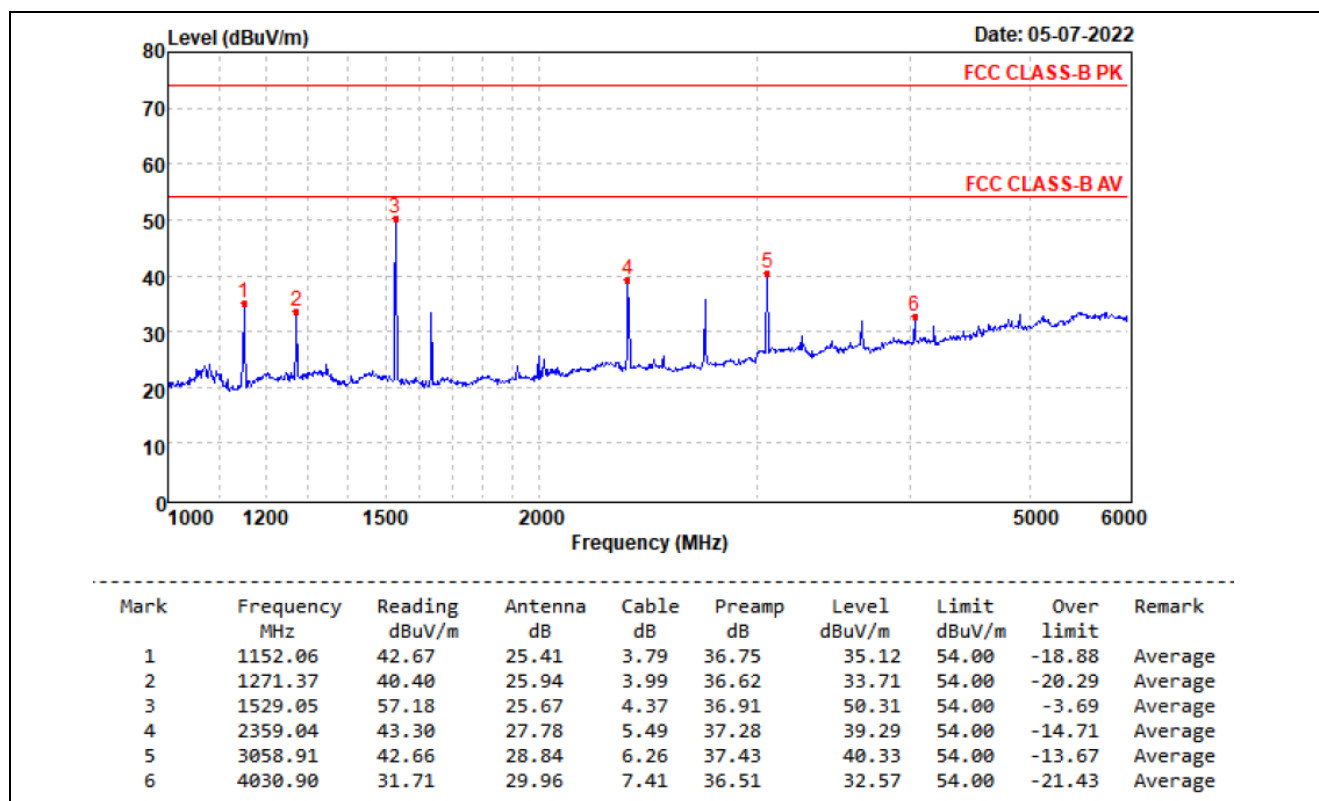
**MEASUREMENT RESULT: "GM2204216104_red"**

4/21/2022 9:32PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
45.520000	21.80	-9.4	40.0	18.2	QP	100.0	203.00	HORIZONTAL
260.860000	30.30	-8.7	46.0	15.7	QP	100.0	255.00	HORIZONTAL
309.360000	31.00	-7.0	46.0	15.0	QP	100.0	245.00	HORIZONTAL
363.680000	38.30	-5.3	46.0	7.7	QP	100.0	106.00	HORIZONTAL
390.840000	37.00	-4.5	46.0	9.0	QP	100.0	106.00	HORIZONTAL
908.820000	35.40	7.0	46.0	10.6	QP	100.0	236.00	HORIZONTAL

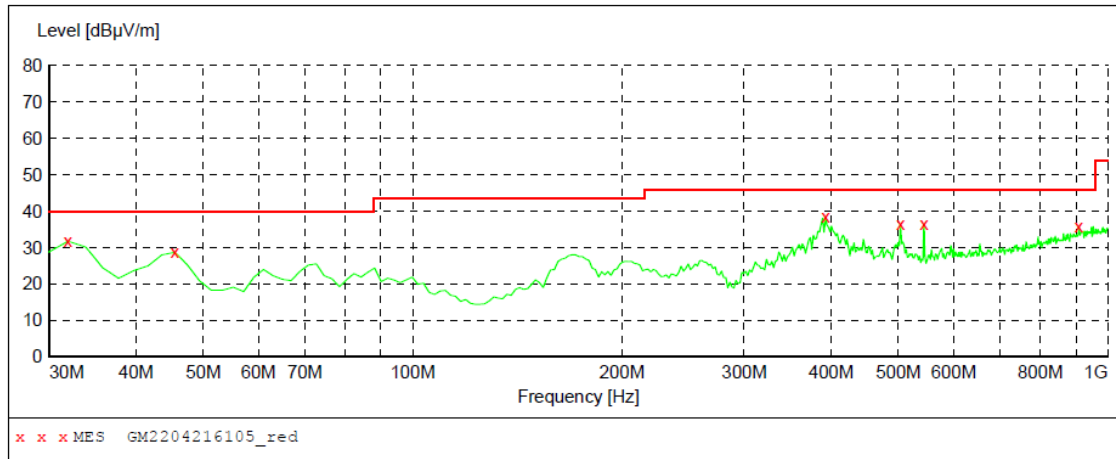


Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1271.37	43.66	25.94	3.99	36.62	36.97	74.00	-37.03	Peak
2	1529.05	61.28	25.67	4.37	36.91	54.41	74.00	-19.59	Peak
3	2359.04	47.37	27.78	5.49	37.28	43.36	74.00	-30.64	Peak
4	2722.62	43.74	28.09	5.89	37.36	40.36	74.00	-33.64	Peak
5	3058.91	46.24	28.84	6.26	37.43	43.91	74.00	-30.09	Peak
6	5726.90	34.95	31.90	9.56	33.39	43.02	74.00	-30.98	Peak



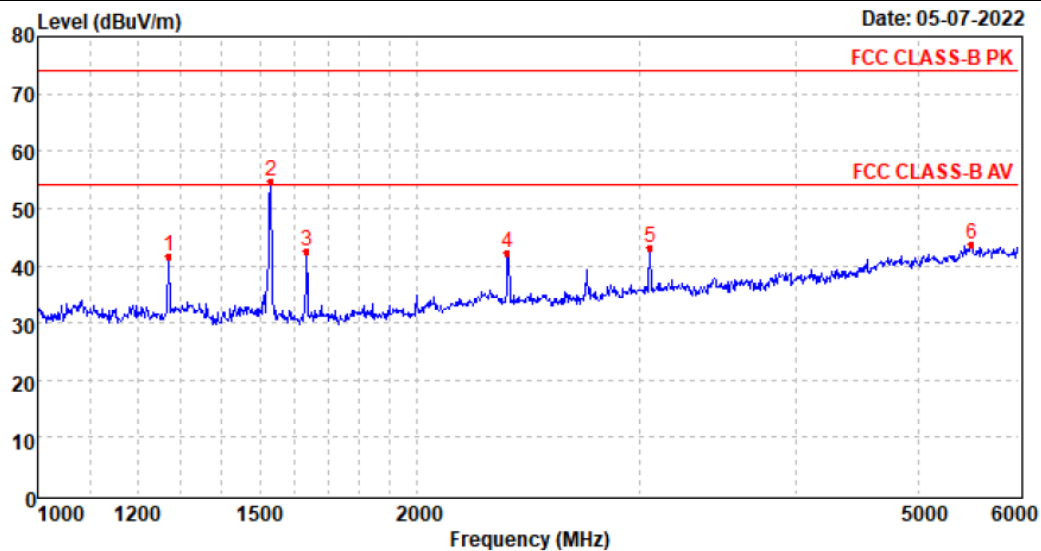
Polarization:

Vertical

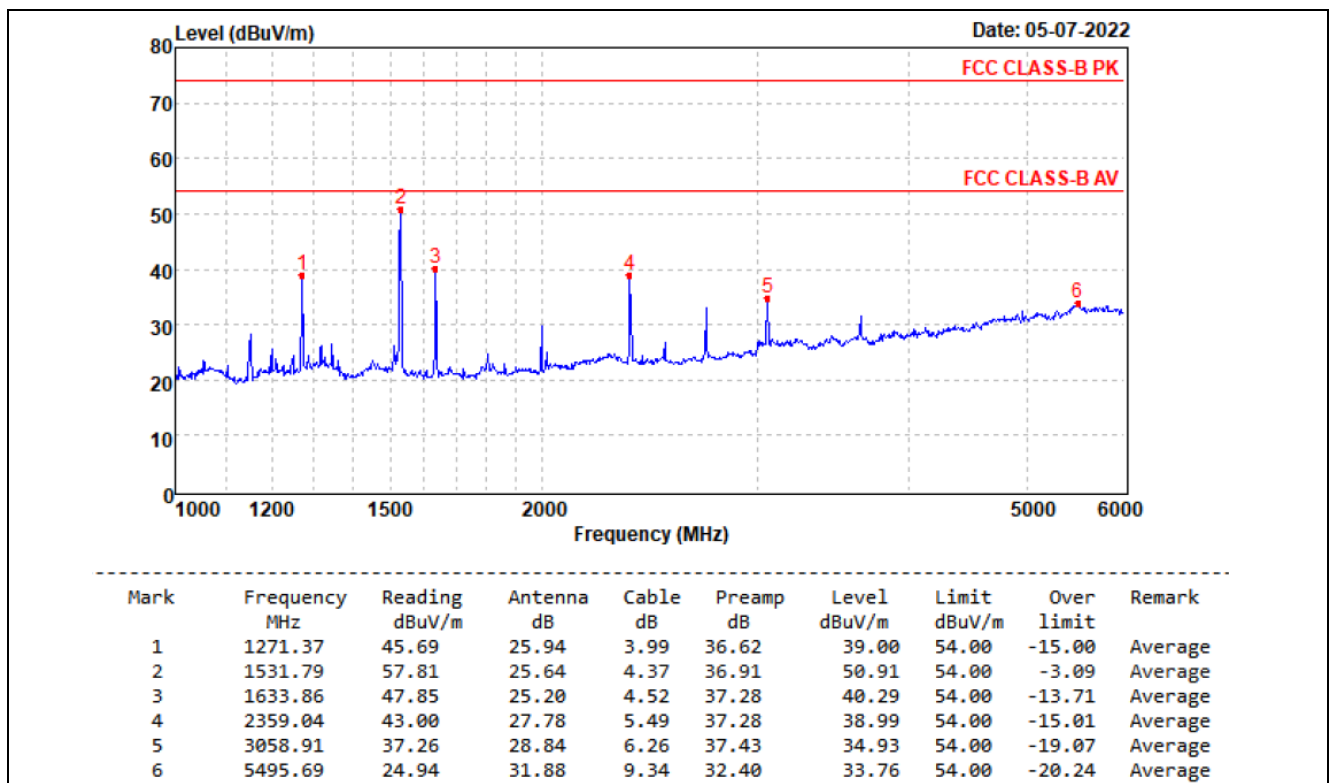
**MEASUREMENT RESULT: "GM2204216105_red"**

4/21/2022 9:34PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
31.940000	31.70	-12.1	40.0	8.3	QP	100.0	139.00	VERTICAL
45.520000	28.70	-9.4	40.0	11.3	QP	100.0	360.00	VERTICAL
392.780000	38.40	-4.4	46.0	7.6	QP	100.0	95.00	VERTICAL
503.360000	36.40	-1.7	46.0	9.6	QP	100.0	153.00	VERTICAL
544.100000	36.40	-0.3	46.0	9.6	QP	100.0	153.00	VERTICAL
908.820000	35.80	7.0	46.0	10.2	QP	100.0	75.00	VERTICAL



Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1271.37	48.33	25.94	3.99	36.62	41.64	74.00	-32.36	Peak
2	1531.79	61.76	25.64	4.37	36.91	54.86	74.00	-19.14	Peak
3	1633.86	50.19	25.20	4.52	37.28	42.63	74.00	-31.37	Peak
4	2359.04	46.25	27.78	5.49	37.28	42.24	74.00	-31.76	Peak
5	3058.91	45.56	28.84	6.26	37.43	43.23	74.00	-30.77	Peak
6	5505.54	34.74	31.89	9.34	32.40	43.57	74.00	-30.43	Peak



6. TEST SETUP PHOTOS OF THE EUT

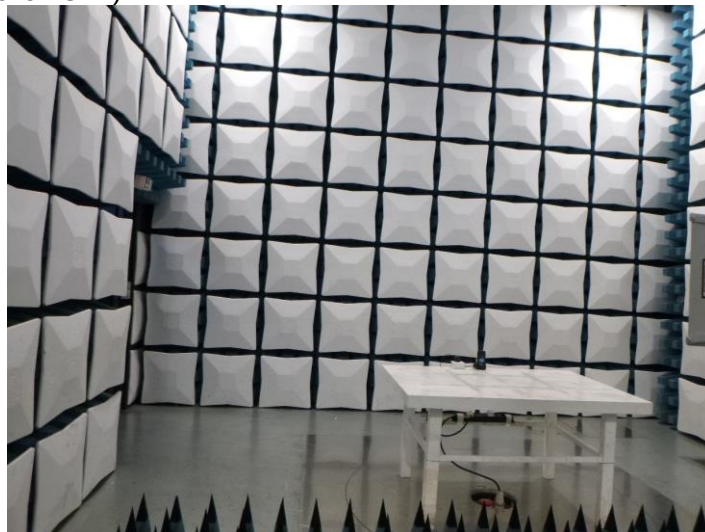
Conducted Emissions (AC Mains)



Radiated Emissions (30MHz-1GHz)

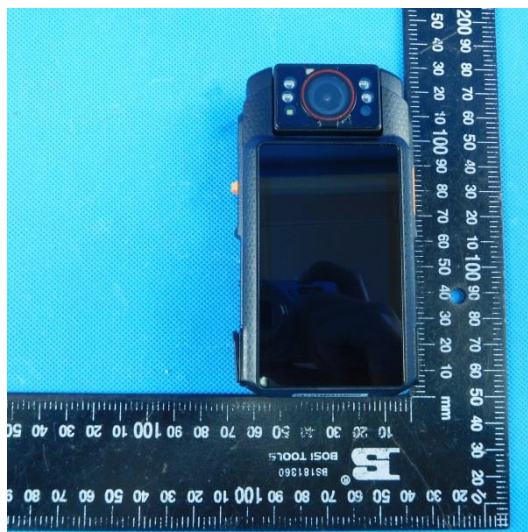


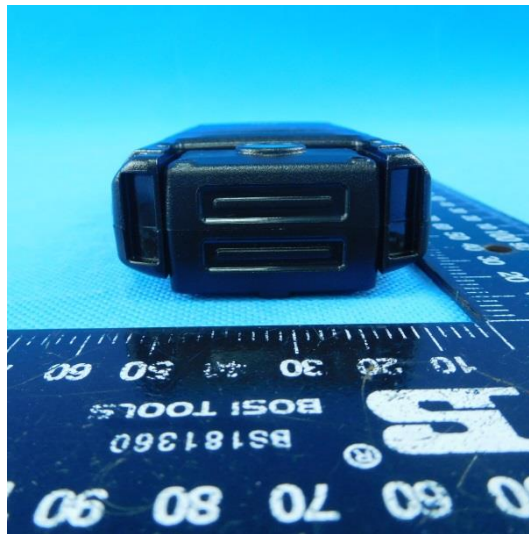
Radiated Emissions (Above 1GHz)

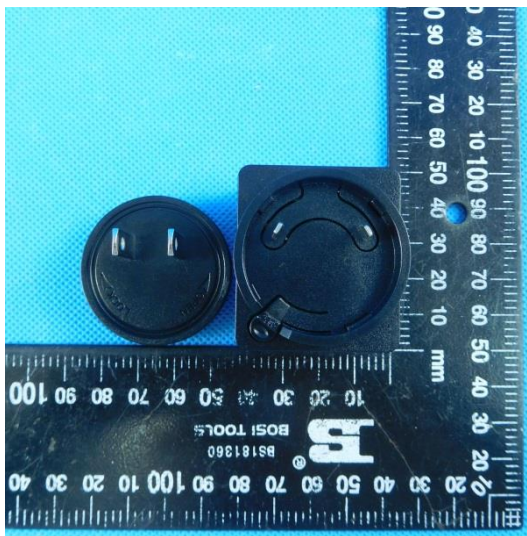


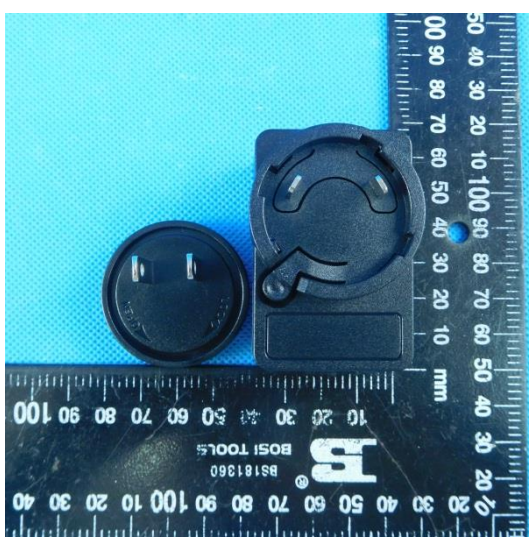
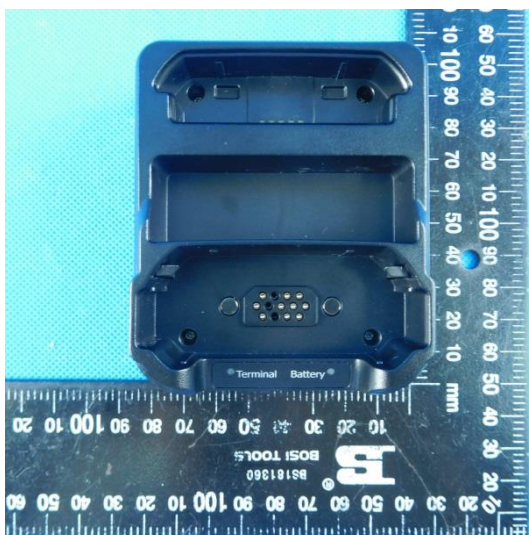
7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

External photos of the EUT





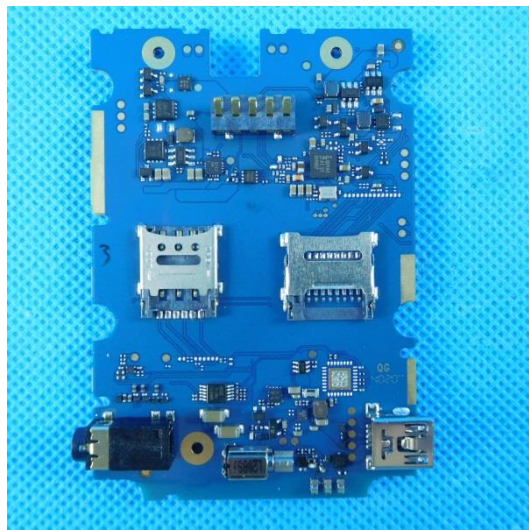
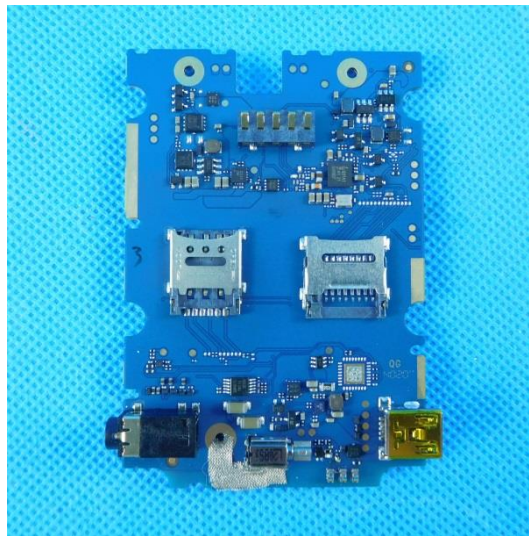
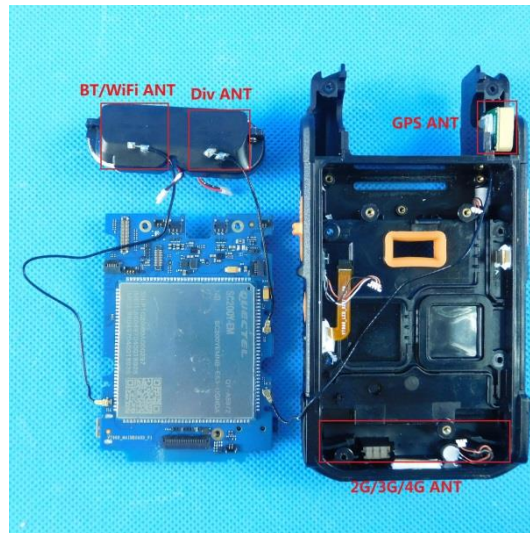


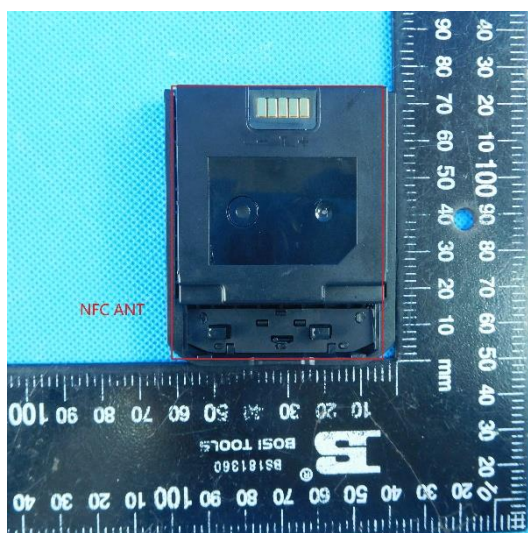




Internal photos of the EUT







Li-ion Battery Pack

Model: VTBP-980A DC 3.8V

3500mAh 13.3WH

Limited Charging Voltage:  4.4V

CAUTION :

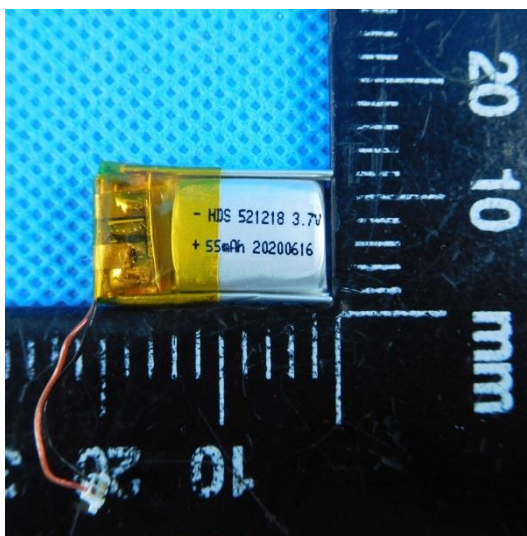
- DO NOT disassemble, crush, puncture, short external contacts or dispose of in fire or water.

NFC



S/N:898212070118

Made in China



-----End of Report-----