

11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

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

Note: All modes were tested For restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

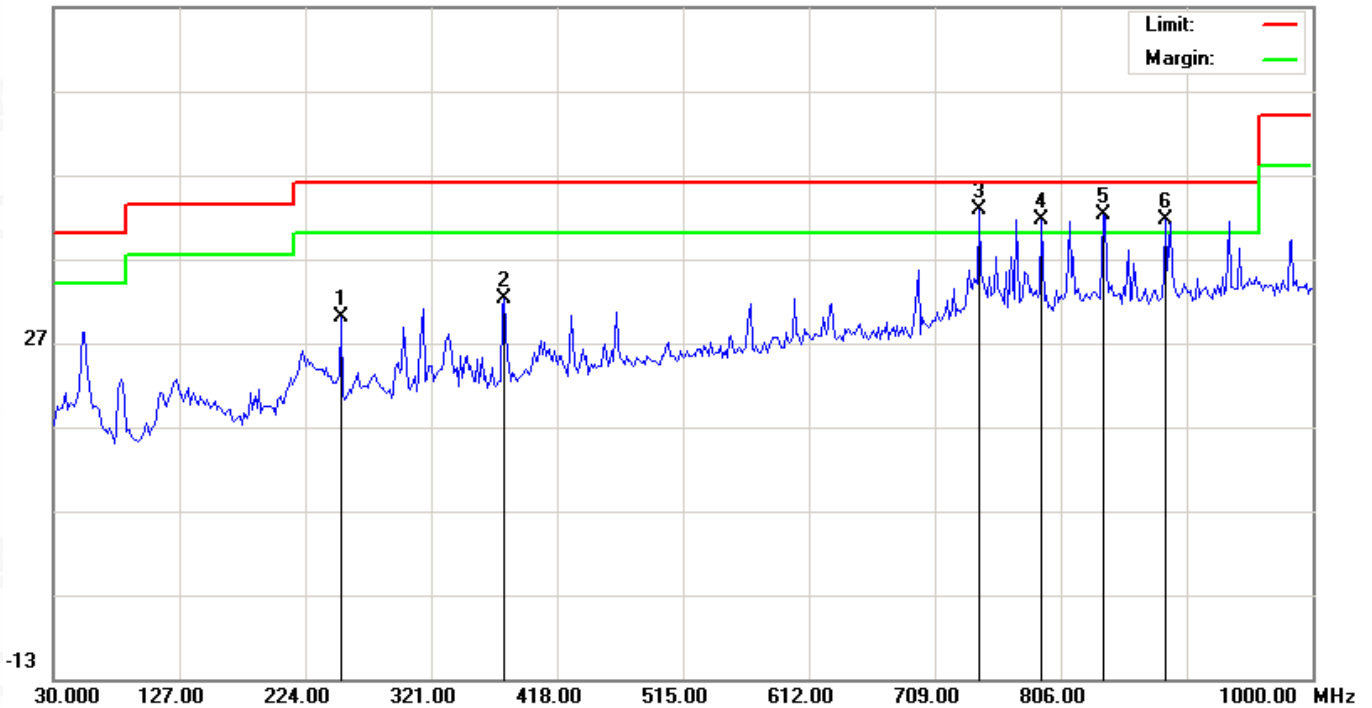
No emission found between lowest internal used/generated frequencies to 30MHz.



RADIATED EMISSION BELOW 1GHZ

EUT	VAVA 2K DUAL DASH CAM	Model Name	VA-VD009
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

66.9 dBuV/m



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		251.4833	11.58	18.46	30.04	46.00	-15.96	peak			
2		377.5833	10.04	22.19	32.23	46.00	-13.77	peak			
3	*	742.9500	13.74	29.12	42.86	46.00	-3.14	peak			
4	!	791.4500	11.41	30.22	41.63	46.00	-4.37	peak			
5	!	838.3333	11.28	30.90	42.18	46.00	-3.82	peak			
6	!	886.8333	10.11	31.53	41.64	46.00	-4.36	peak			

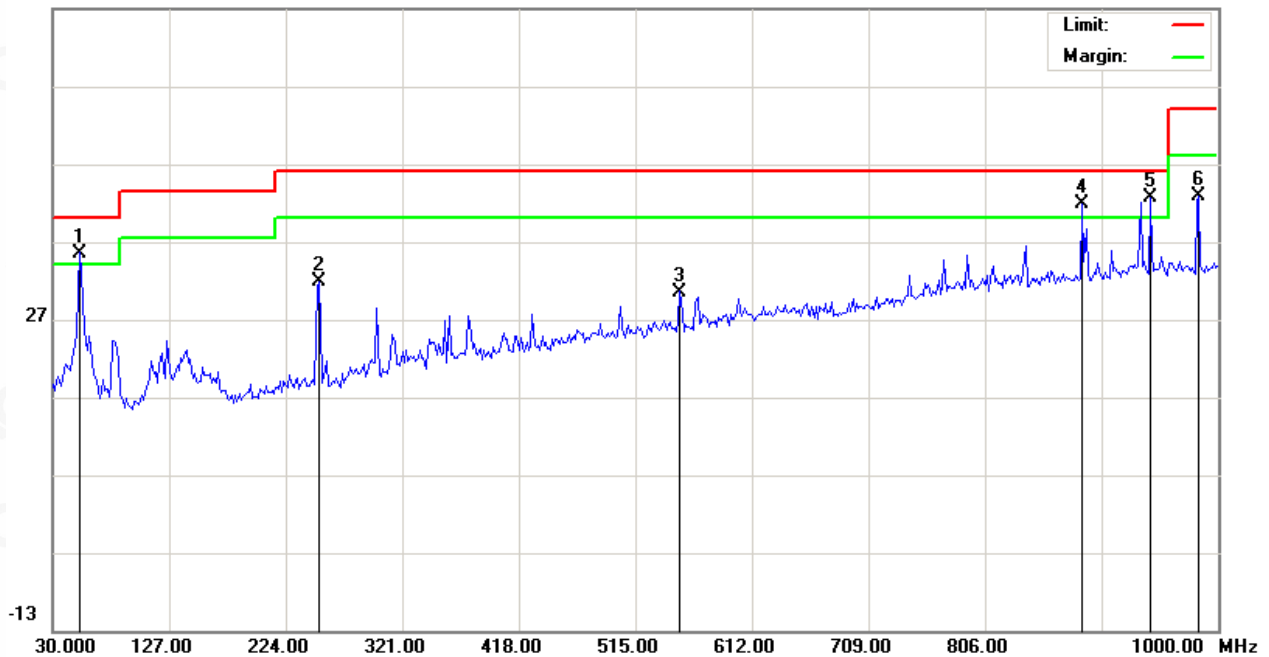
RESULT: PASS



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EUT	VAVA 2K DUAL DASH CAM	Model Name	VA-VD009
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

66.9 dBuV/m



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	!	52.6333	16.00	19.50	35.50	40.00	-4.50	peak			
2		251.4833	13.30	18.46	31.76	46.00	-14.24	peak			
3		552.1833	4.49	26.01	30.50	46.00	-15.50	peak			
4	!	886.8333	10.31	31.53	41.84	46.00	-4.16	peak			
5	*	943.4167	10.54	32.07	42.61	46.00	-3.39	peak			
6		983.8333	10.30	32.42	42.72	54.00	-11.28	peak			

RESULT: PASS

Note:

- Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- All test modes had been tested. The mode 1 is the worst case and recorded in the report.



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RADIATED EMISSION ABOVE 1GHZ

EUT	VAVA 2K DUAL DASH CAM	Model Name	VA-VD009
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4804.000	43.25	0.08	43.33	74	-30.67	peak
4804.000	38.19	0.08	38.27	54	-15.73	AVG
7206.000	39.14	2.21	41.35	74	-32.65	peak
7206.000	36.47	2.21	38.68	54	-15.32	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	VAVA 2K DUAL DASH CAM	Model Name	VA-VD009
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4804.000	41.32	0.08	41.4	74	-32.6	peak
4804.000	37.56	0.08	37.64	54	-16.36	AVG
7206.000	38.94	2.21	41.15	74	-32.85	peak
7206.000	35.28	2.21	37.49	54	-16.51	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT	VAVA 2K DUAL DASH CAM	Model Name	VA-VD009
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	43.51	0.14	43.65	74	-30.35	peak
4880.000	38.44	0.14	38.58	54	-15.42	AVG
7320.000	39.42	2.36	41.78	74	-32.22	peak
7320.000	34.76	2.36	37.12	54	-16.88	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	VAVA 2K DUAL DASH CAM	Model Name	VA-VD009
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	40.29	0.14	40.43	74	-33.57	peak
4880.000	35.18	0.14	35.32	54	-18.68	AVG
7320.000	36.45	2.36	38.81	74	-35.19	peak
7320.000	31.22	2.36	33.58	54	-20.42	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT	VAVA 2K DUAL DASH CAM	Model Name	VA-VD009
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	42.59	0.22	42.81	74	-31.19	peak
4960.000	36.12	0.22	36.34	54	-17.66	AVG
7440.000	37.58	2.64	40.22	74	-33.78	peak
7440.000	32.45	2.64	35.09	54	-18.91	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	VAVA 2K DUAL DASH CAM	Model Name	VA-VD009
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	43.59	0.22	43.81	74	-30.19	peak
4960.000	38.45	0.22	38.67	54	-15.33	AVG
7440.000	39.96	2.64	42.6	74	-31.4	peak
7440.000	35.33	2.64	37.97	54	-16.03	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

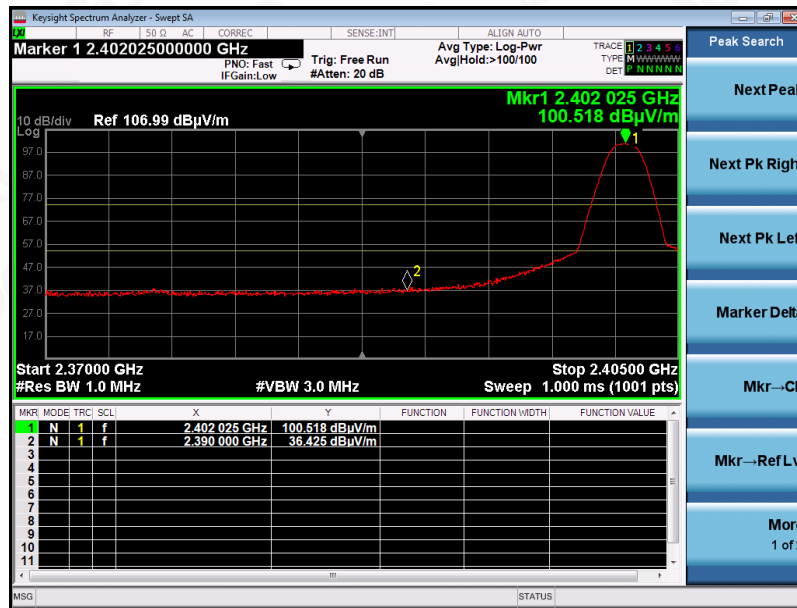
The “Factor” value can be calculated automatically by software of measurement system.



TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	VAVA 2K DUAL DASH CAM	Model Name	VA-VD009
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

PK



AV



RESULT: PASS



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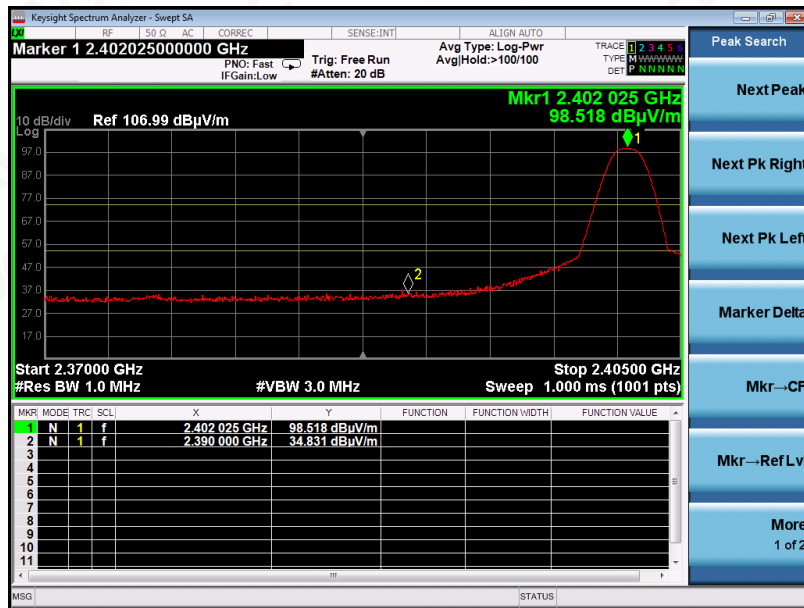
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

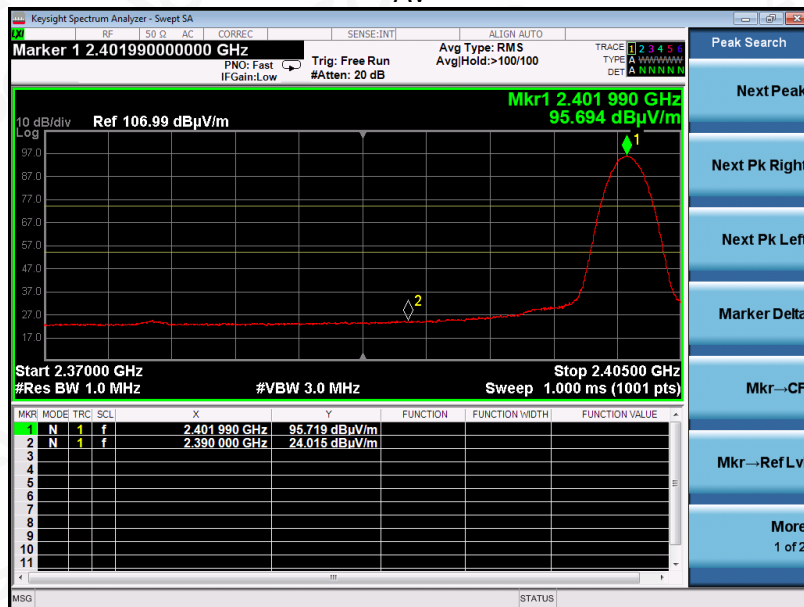
Service Hotline: 400 089 2118

EUT	VAVA 2K DUAL DASH CAM	Model Name	VA-VD009
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

PK



AV



RESULT: PASS



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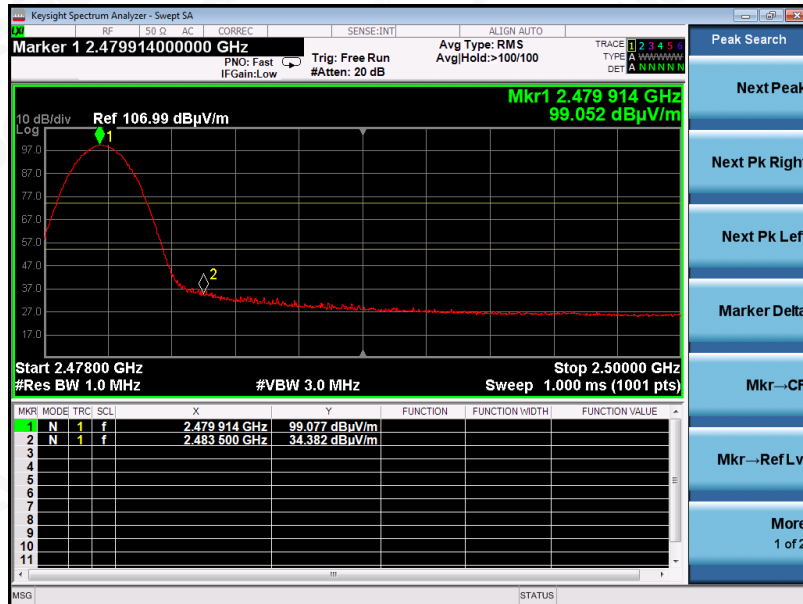
Service Hotline: 400 089 2118

EUT	VAVA 2K DUAL DASH CAM	Model Name	VA-VD009
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

PK



AV



RESULT: PASS



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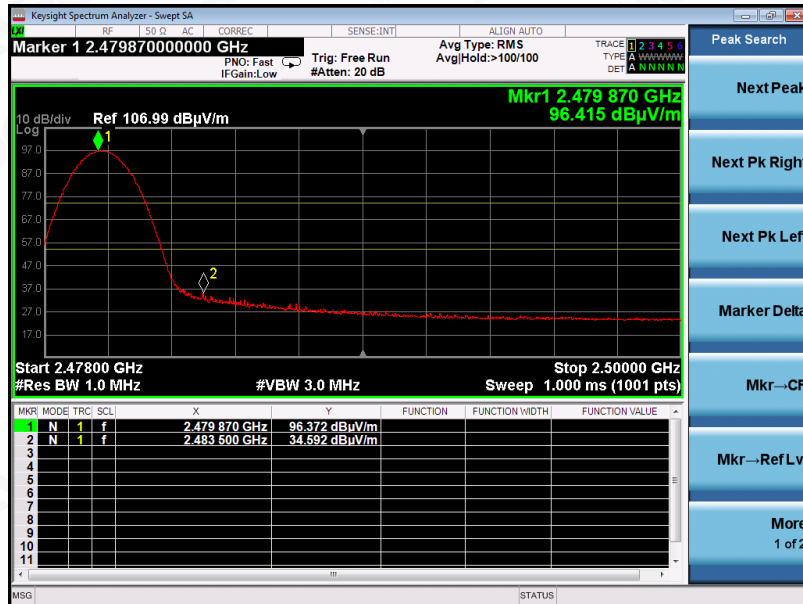
Service Hotline: 400 089 2118

EUT	VAVA 2K DUAL DASH CAM	Model Name	VA-VD009
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

PK



AV



RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(µV) to represent the Amplitude. Use the F dB(µV/m) to represent the Field Strength. So A=F.



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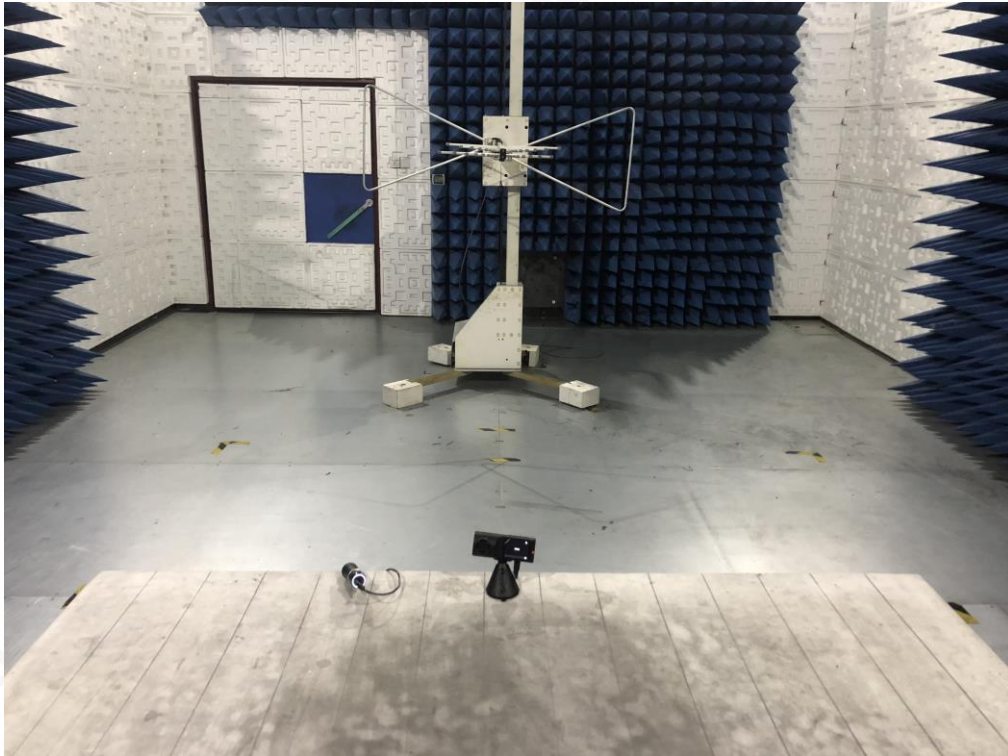
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

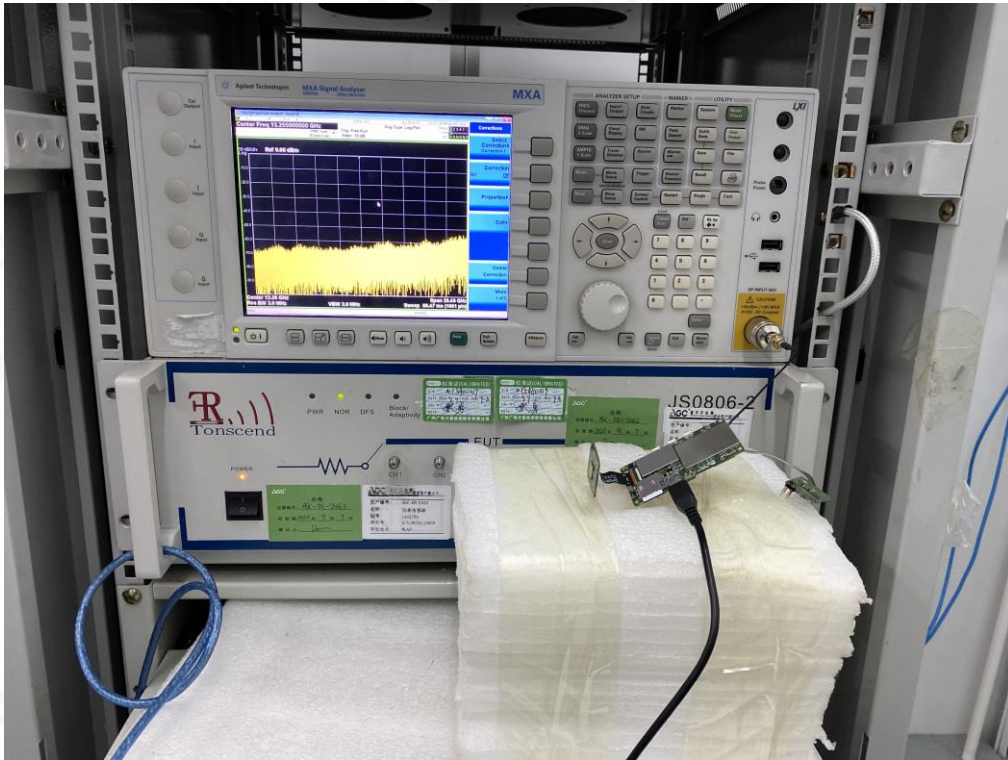
RADIATED EMISSION TEST SETUP BELOW 1GHZ



RADIATED EMISSION TEST SETUP ABOVE 1GHZ



CONDUCTED TEST SETUP



APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



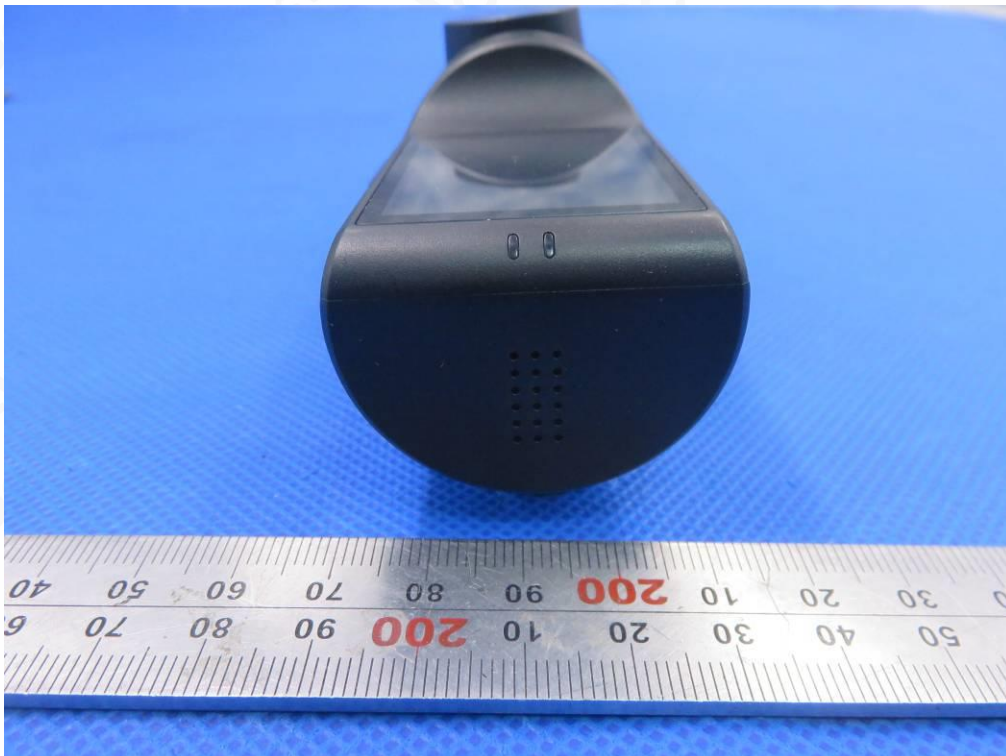
TOP VIEW OF EUT



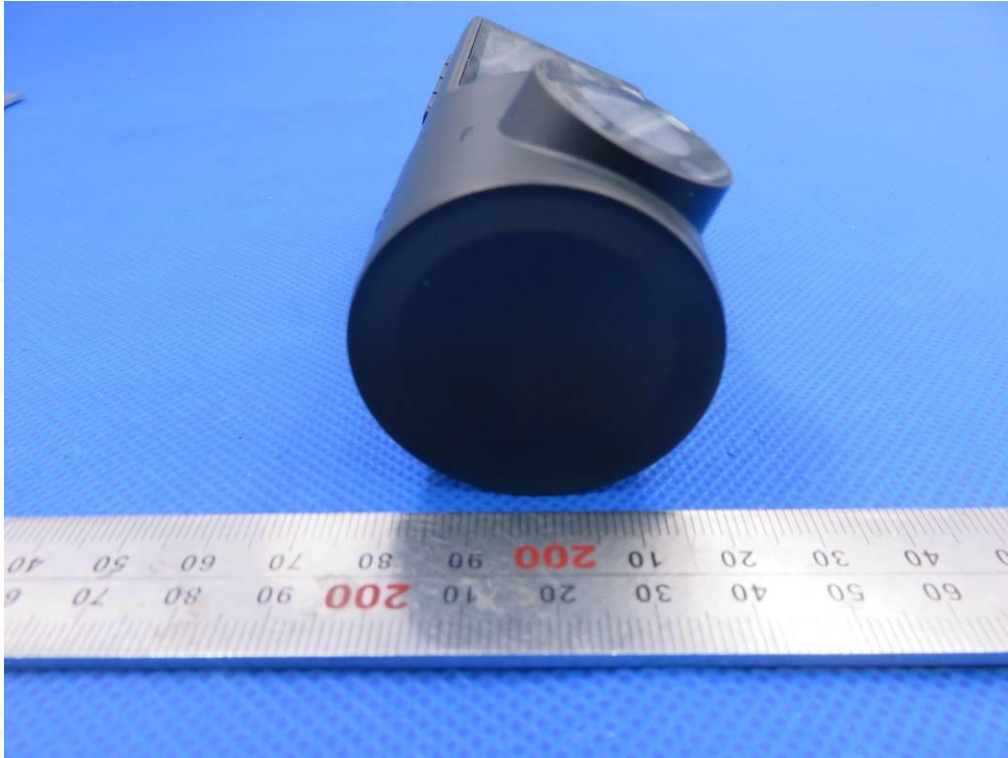
BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



LEFT VIEW OF EUT



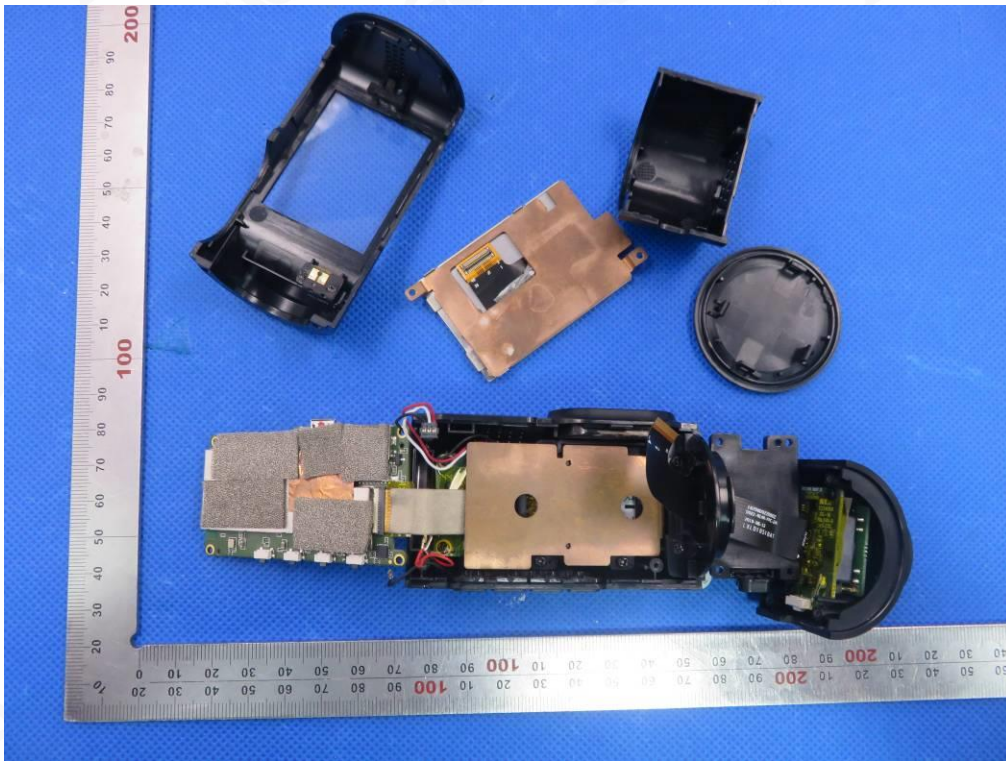
RIGHT VIEW OF EUT



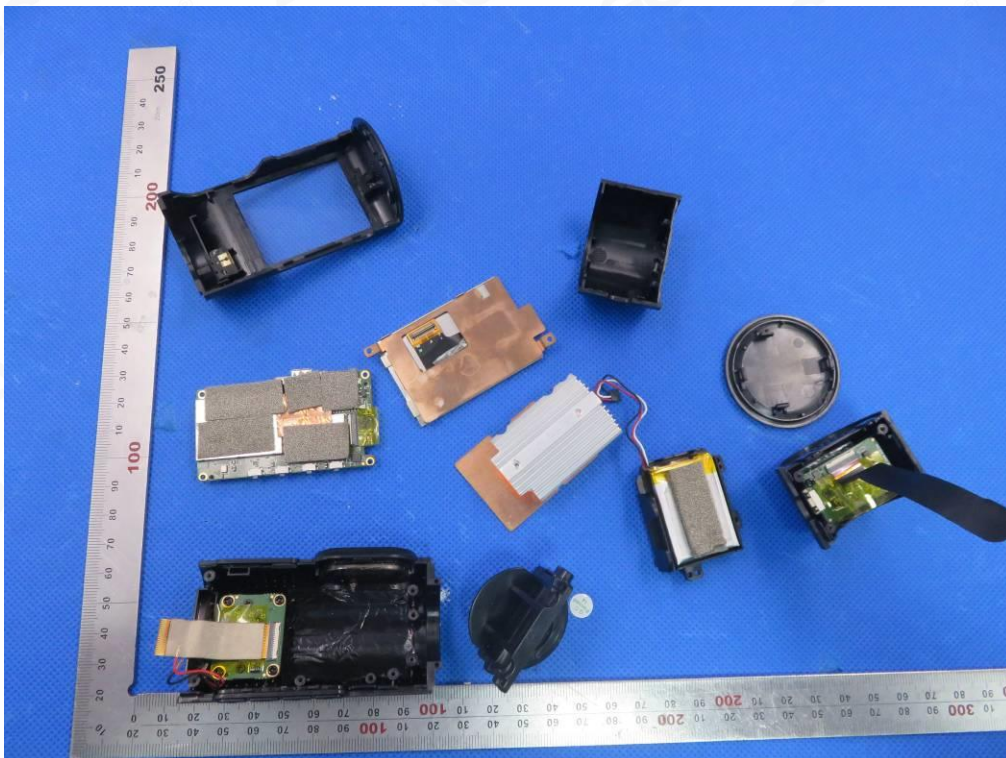
VIEW OF EUT(PORT)



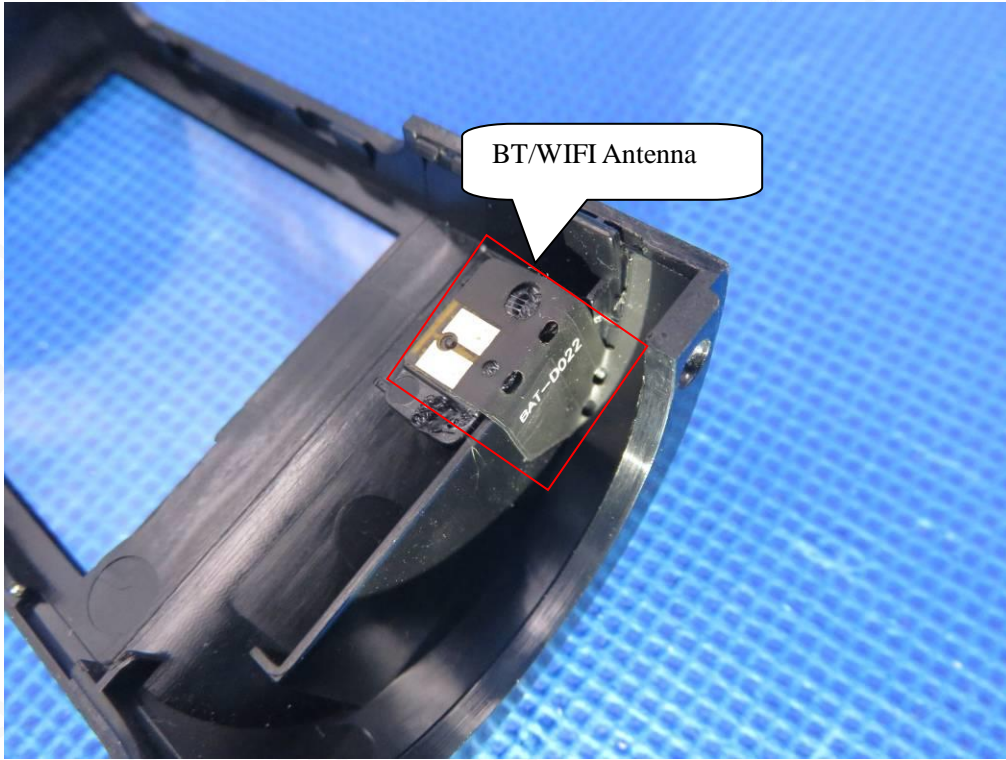
OPEN VIEW OF EUT-1



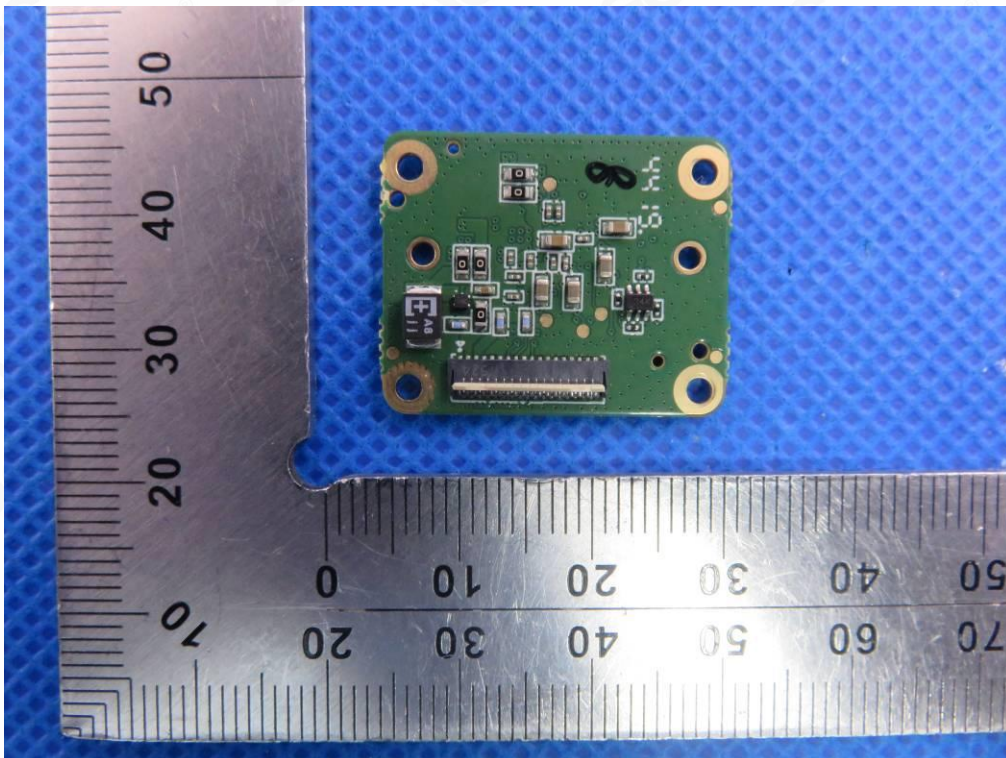
OPEN VIEW OF EUT-2



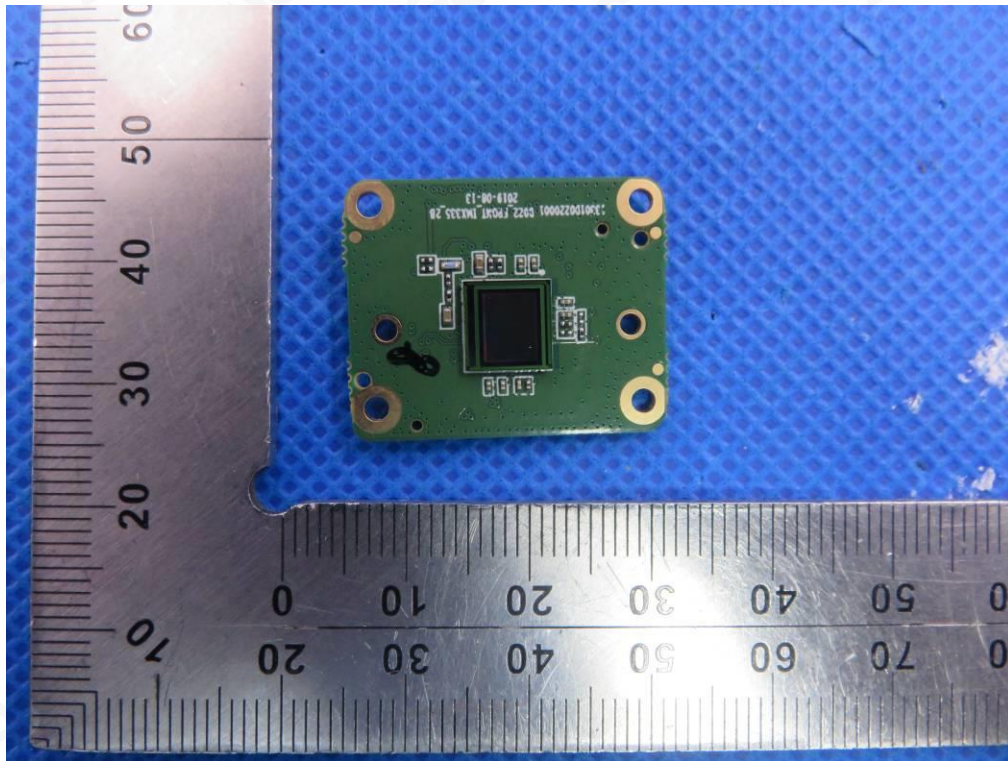
OPEN VIEW OF EUT-3



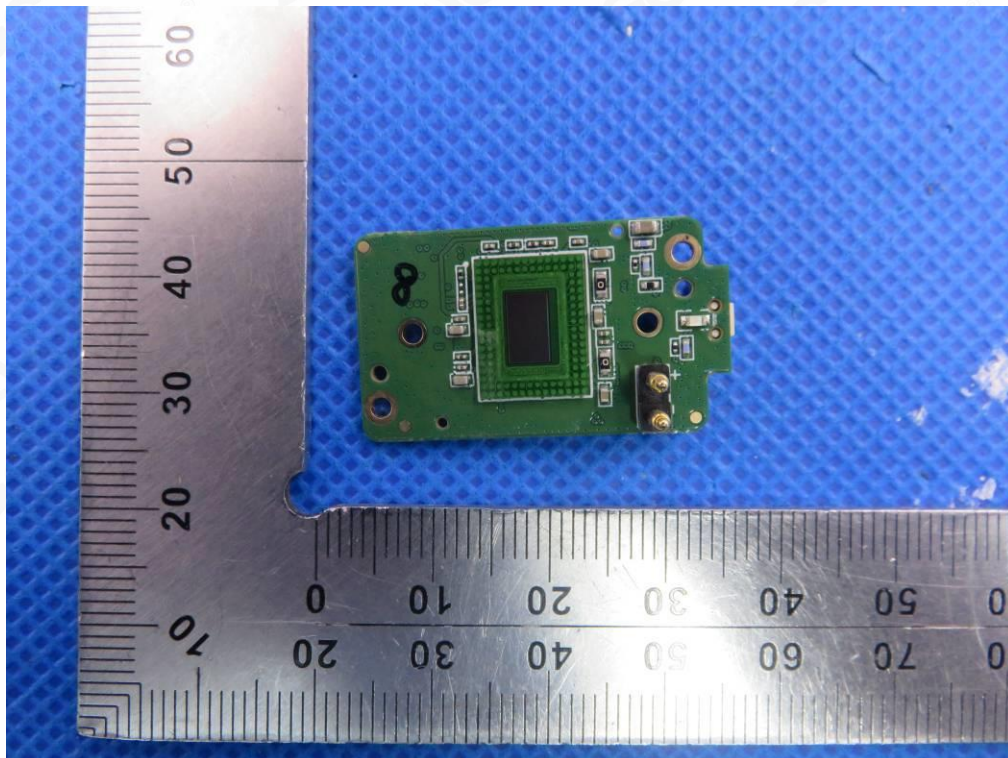
INTERNAL VIEW-1 OF EUT



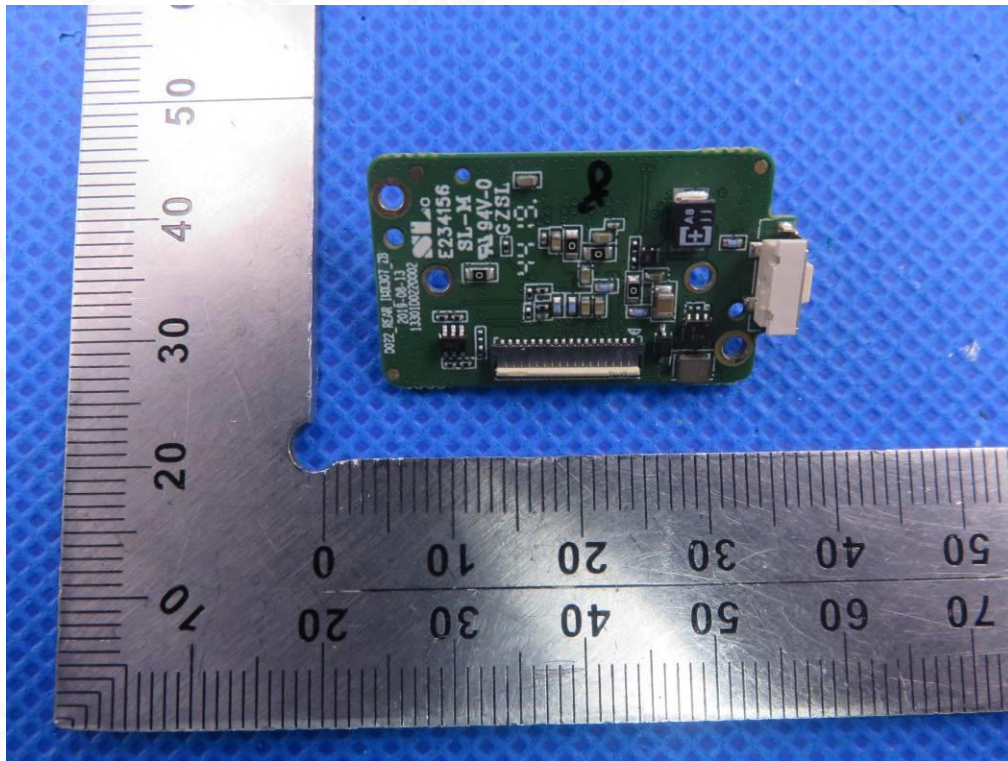
INTERNAL VIEW-2 OF EUT



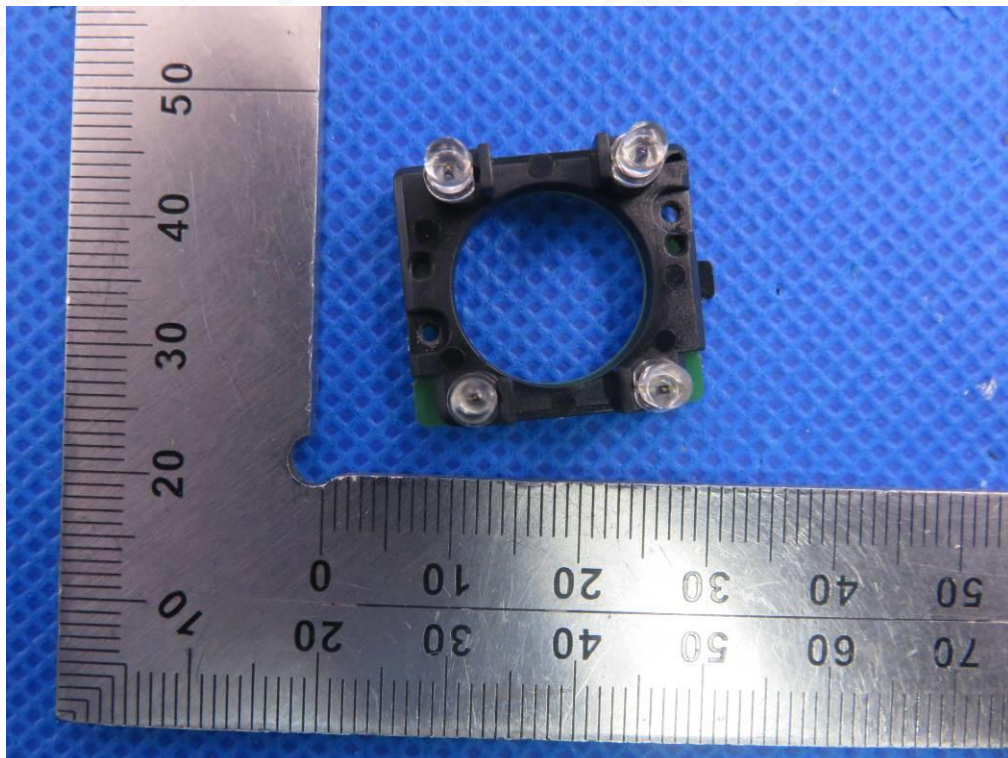
INTERNAL VIEW-3 OF EUT



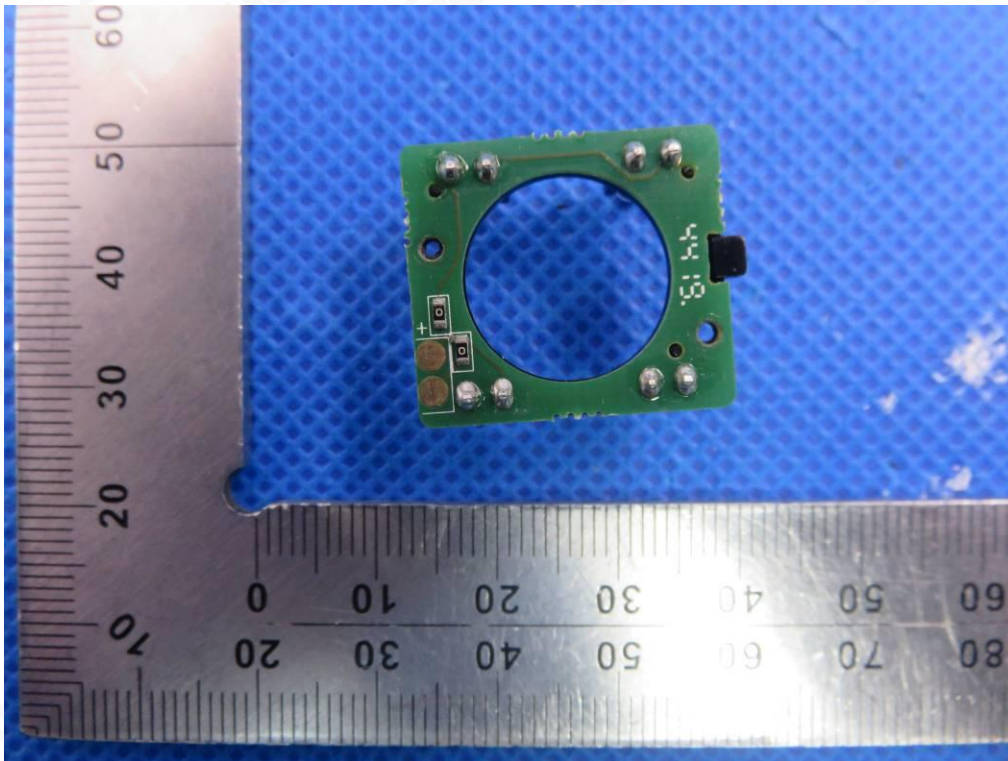
INTERNAL VIEW-4 OF EUT



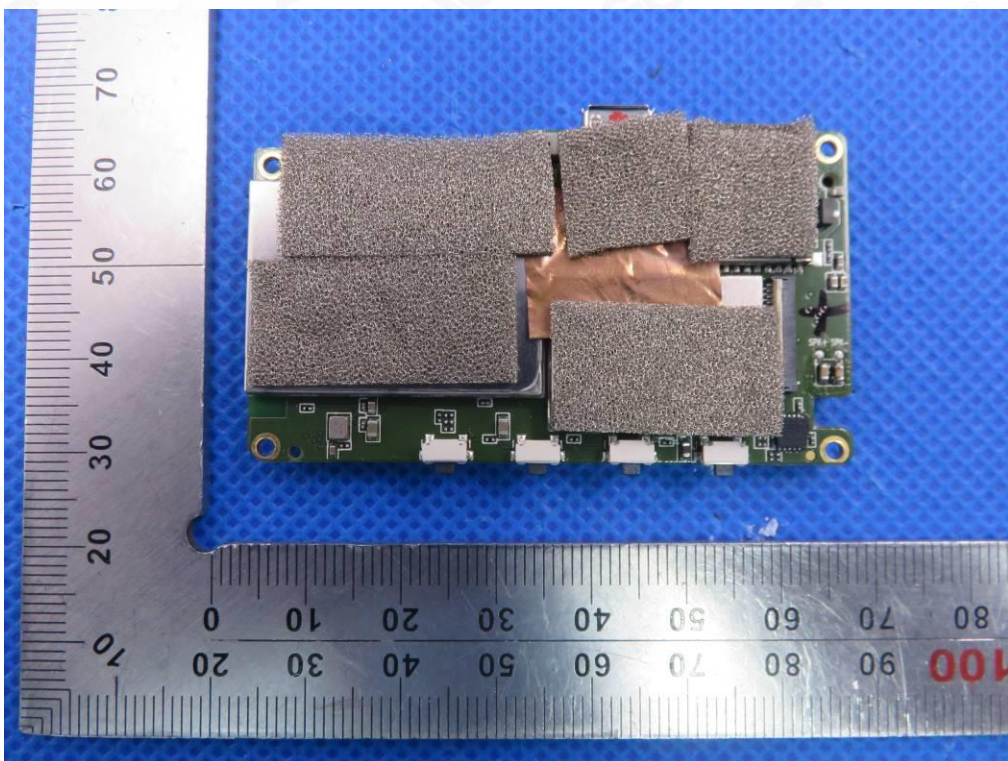
INTERNAL VIEW-5 OF EUT



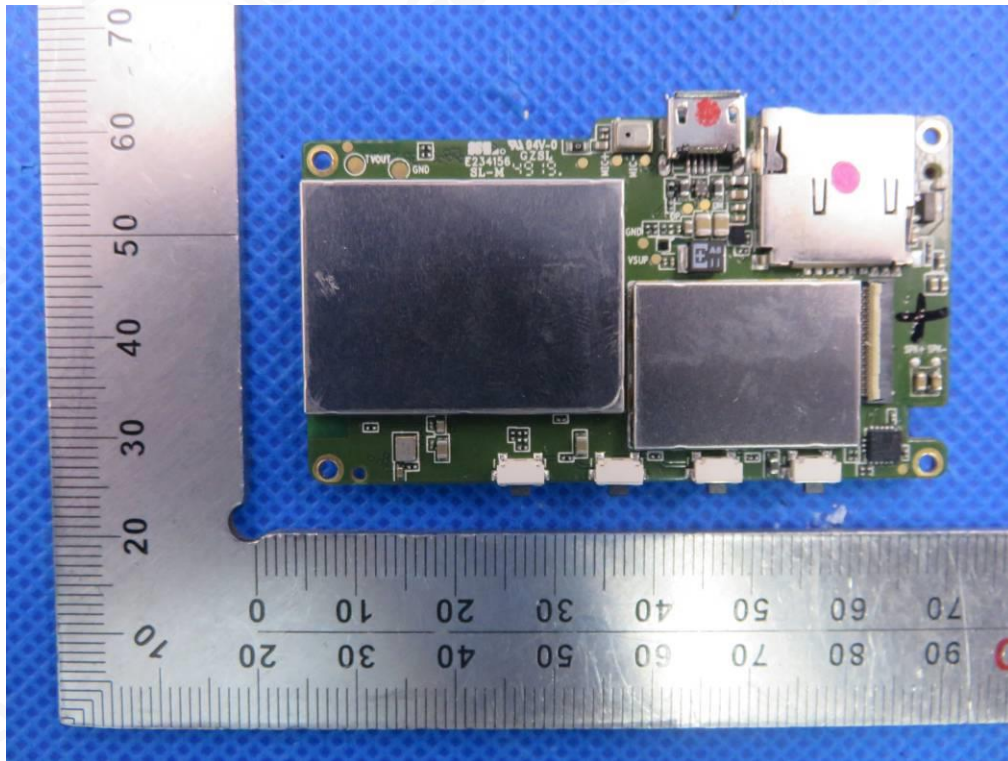
INTERNAL VIEW-6 OF EUT



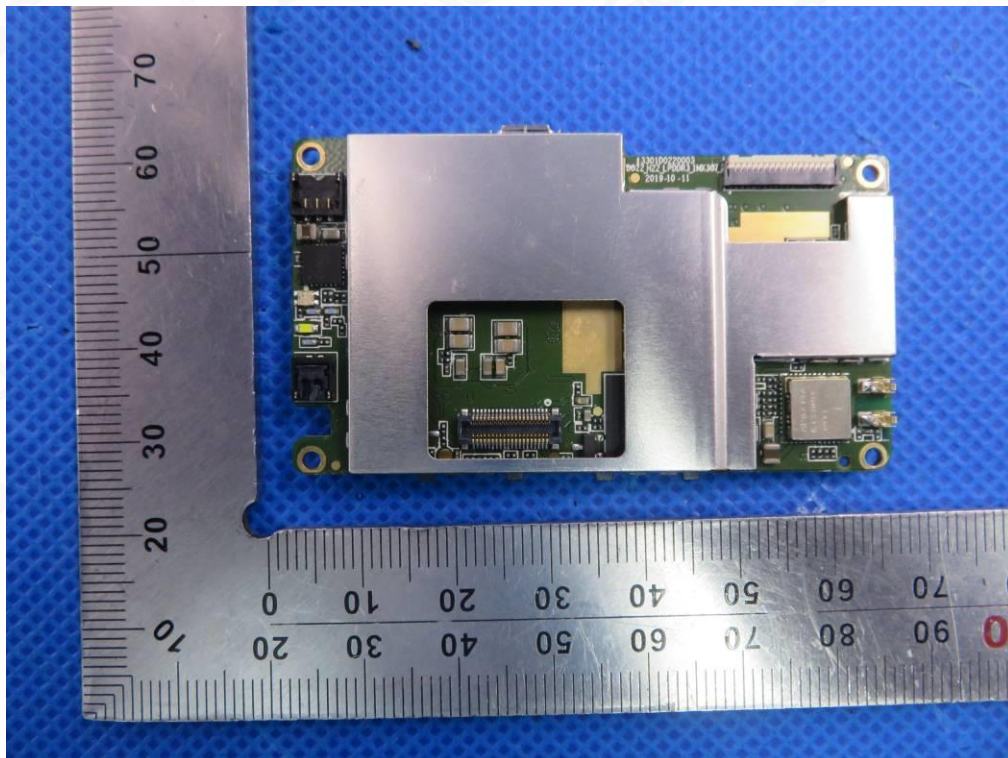
INTERNAL VIEW-7 OF EUT



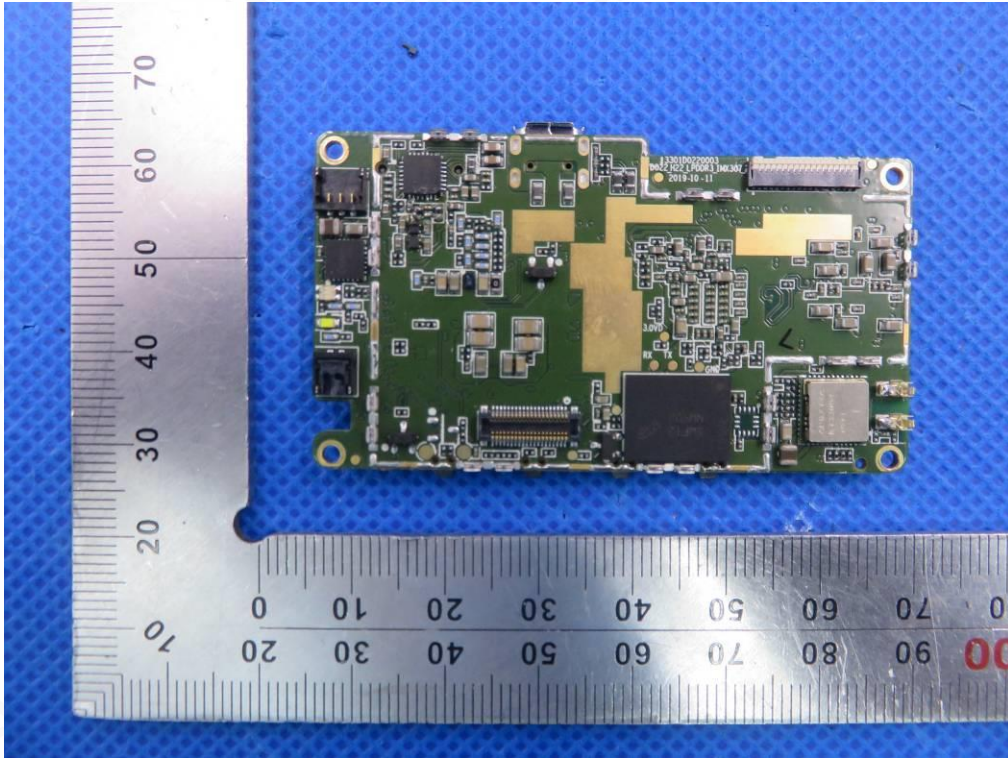
INTERNAL VIEW-8 OF EUT



INTERNAL VIEW-9 OF EUT



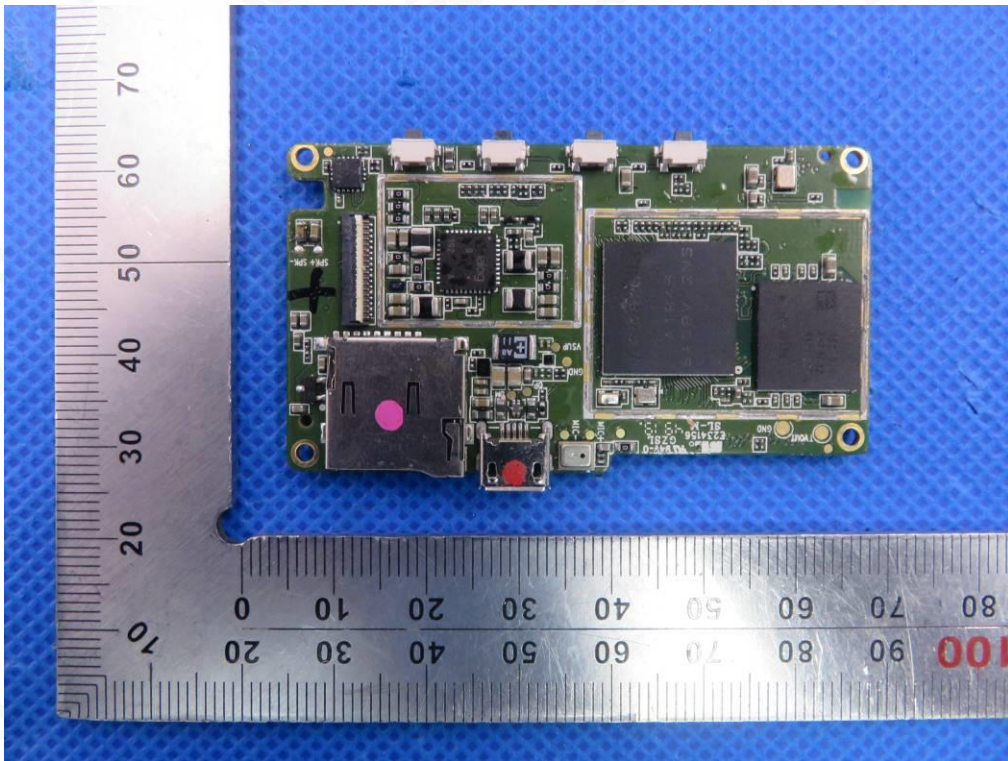
INTERNAL VIEW-10 OF EUT



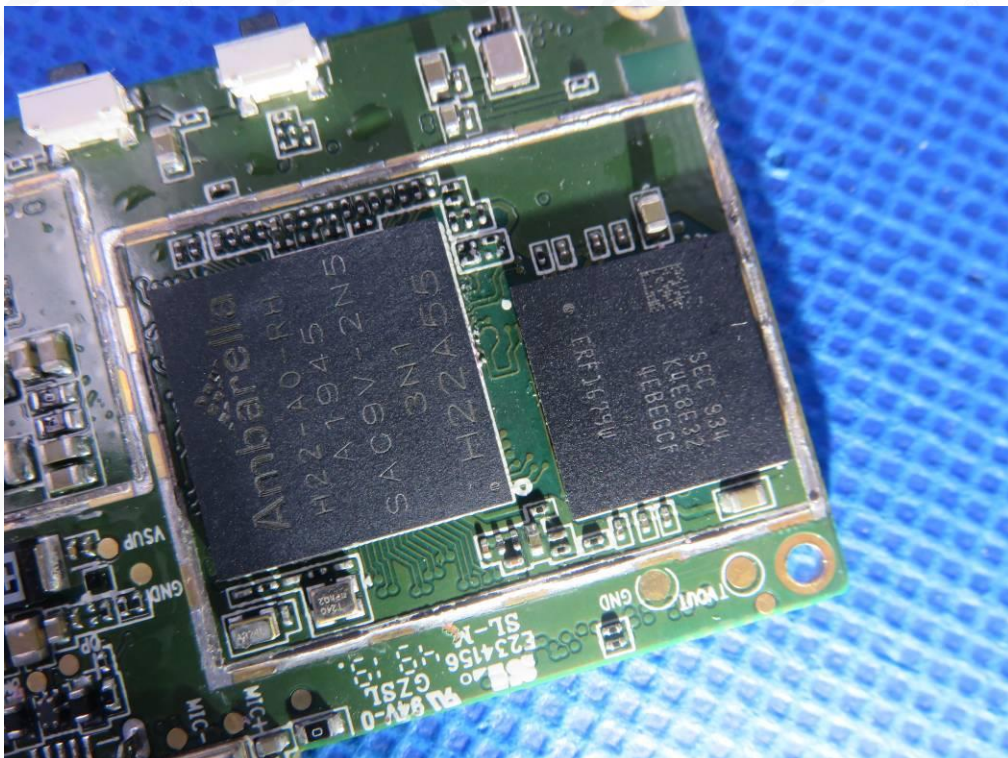
INTERNAL VIEW-11 OF EUT



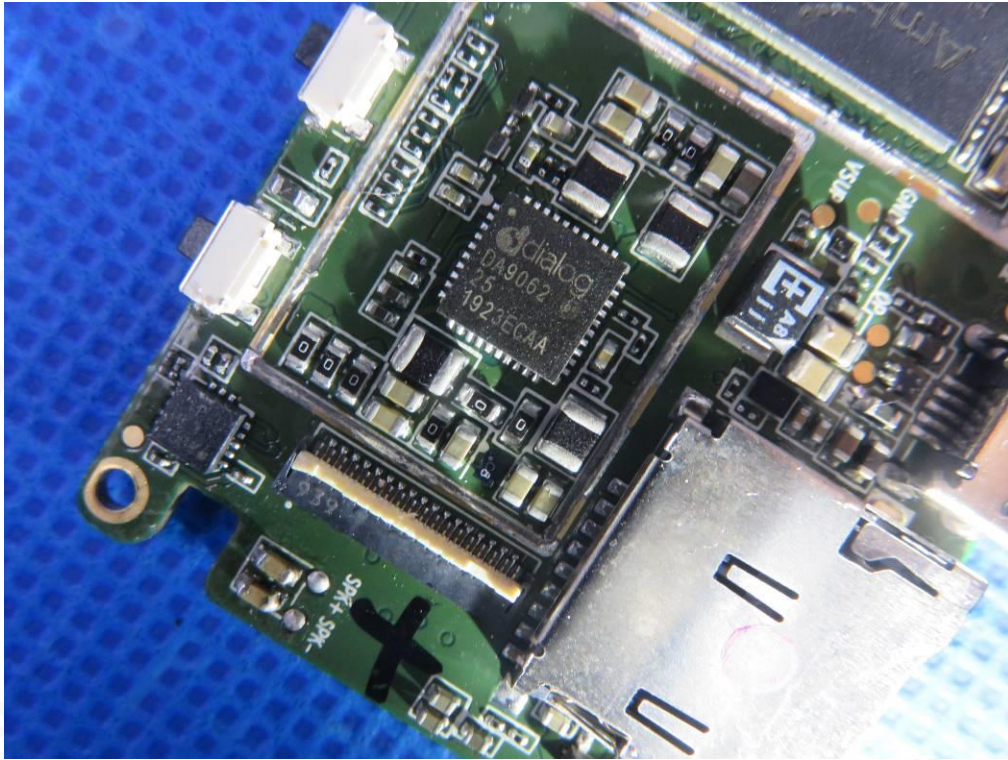
INTERNAL VIEW-12 OF EUT



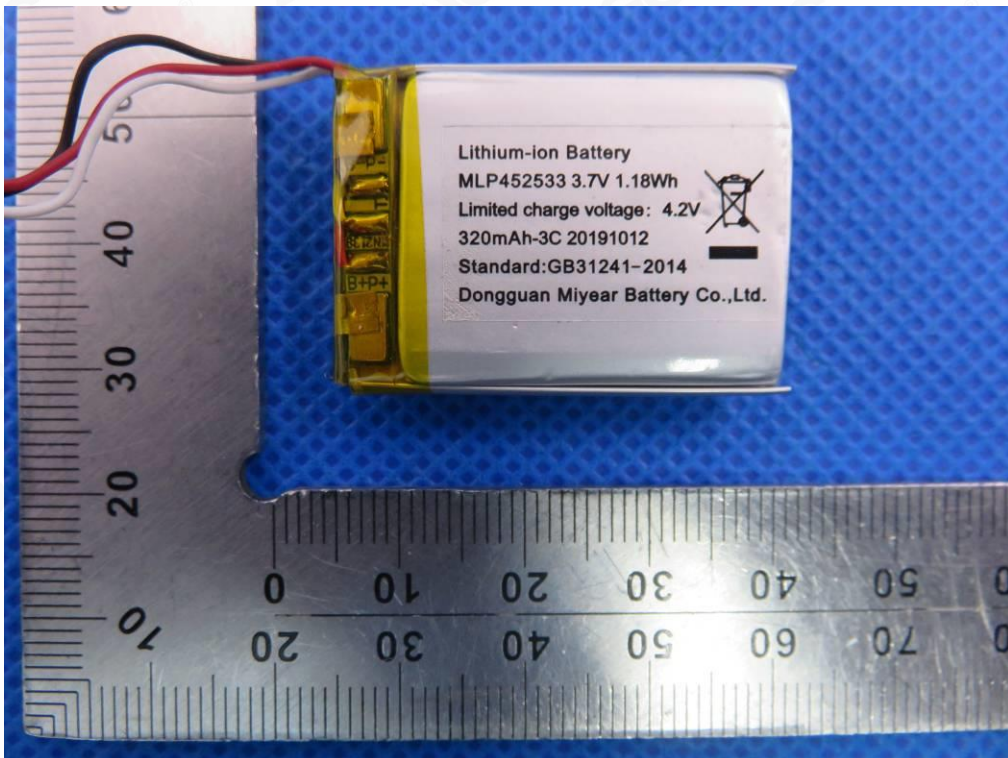
INTERNAL VIEW-13 OF EUT



INTERNAL VIEW-14 OF EUT



VIEW OF BATTERY



----END OF REPORT----

