



Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No.....: GTS20221215003-1-3

FCC ID.....: RBWEMC0650C

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Date of issue.....: Jun.15, 2023

Representative Laboratory Name.: Shenzhen Global Test Service Co.,Ltd.

Address: No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong,China

Applicant's name.....: Elo Touch Solutions, Inc.

Address: 670 N. McCarthy Blvd. Suite 100, Milpitas, CA 95035, USA

Test specification

Standard: **FCC Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz**

TRF Originator.....: Shenzhen Global Test Service Co.,Ltd.

Master TRF.....: Dated 2014-12

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Test item description mobile POS

Trade Mark: Elo

Manufacturer: Elo Touch Solutions, Inc.

Model/Type reference: EMC0650S

List Models: EMC0650

Modulation Type.....: GFSK,π/4-DQPSK,8-DPSK

Operation Frequency.....: From 2402MHz to 2480MHz

Hardware Version: N/A

Software Version: N/A

Rating: DC 5.0V/2.0A by Adapter

Result: **PASS**

TEST REPORT

Test Report No. :	GTS20221215003-1-3	Jun.15, 2023
		Date of issue

Equipment under Test : mobile POS

Model /Type : EMC0650S

Listed model : EMC0650

Applicant : **Elo Touch Solutions, Inc.**

Address : 670 N. McCarthy Blvd. Suite 100, Milpitas, CA 95035, USA

Manufacturer : **Elo Touch Solutions, Inc.**

Address : 670 N. McCarthy Blvd. Suite 100, Milpitas, CA 95035, USA

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

[ANSI C63.10-2020](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB 558074 D01 15.247 Meas Guidance](#): Digital Transmission Systems (DTS) and Frequency Hopping measurement procedures

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	May.18, 2023
Testing commenced on	:	May.18, 2023
Testing concluded on	:	Jun. 15, 2023

2.2. Product Description

Product Name:	mobile POS
Trade Mark:	Elo
Model/Type reference:	EMC0650S
List Model:	EMC0650
Model Declaration	PCB board, structure and internal of these model(s) are the same, Only the difference in the scanning head, model (EMC0650S) with a scanning head and model (EMC0650) without a scanning head, was evaluated for the EMC part and did not affect RF performance.
Power supply:	DC 5.0V/2.0A by Adapter
Hardware Version	N/A
Software Version	N/A
Sample ID	GTS20221215003-1-S0001-1#& GTS20221215003-1-S0001-2#
Bluetooth	
Frequency Range	2402MHz ~ 2480MHz
Channel Number	79 channels for Bluetooth (DSS) 40 channels for Bluetooth (DTS)
Channel Spacing	1MHz for Bluetooth (DSS) 2MHz for Bluetooth (DTS)
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth (DSS) GFSK for Bluetooth (DTS)
2.4GWLAN	
WLAN Operation frequency	IEEE 802.11b:2412-2462MHz IEEE 802.11g:2412-2462MHz IEEE 802.11n HT20:2412-2462MHz IEEE 802.11n HT40:2422-2452MHz
WLAN Modulation Type	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)
Channel number:	11 Channel for IEEE 802.11b/g/n(HT20) 7 Channel for IEEE 802.11n(HT40)
Channel separation:	5MHz
WIFI(5.2G/5.3G/5.7G Band)	
Frequency Range	5180MHz ~ 5240MHz, 5260MHz ~ 5320MHz, 5500MHz ~ 5700MHz
Channel Number	4 Channels for 20MHz bandwidth(5180-5240MHz) 4 Channels for 20MHz bandwidth(5260-5320MHz) 11 Channels for 20MHz bandwidth(5500-5700MHz) 2 channels for 40MHz bandwidth(5190~5230MHz) 2 channels for 40MHz bandwidth(5270~5310MHz) 5 Channels for 40MHz bandwidth(5510-5670MHz) 1 channels for 80MHz bandwidth(5210MHz) 1 channels for 80MHz bandwidth(5290MHz) 2 Channels for 80MHz bandwidth(5530-5610MHz)
Modulation Type	802.11a/n/ac: OFDM
WIFI (5.8G Band)	
Frequency Range	5745MHz ~ 5825MHz
Channel Number	5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)
Modulation Type	802.11a/n/ac: OFDM

Antenna Description	FPC Antenna, 2.50dBi(Max.) for 2.4G Band and 1.80dBi(Max.) for 5G Band
LTE	
LTE Operation Frequency Band	E-UTRA Band 2(1850 MHz -1910MHz) E-UTRA Band 4(1710 MHz -1755MHz) E-UTRA Band 5(824 MHz -849MHz) E-UTRA Band 7(2500 MHz -2570MHz) E-UTRA Band 12(699 MHz -716MHz) E-UTRA Band 13(777 MHz -787MHz) E-UTRA Band 14(788 MHz -798MHz) E-UTRA Band 17(704 MHz -716MHz) E-UTRA Band 25(1850 MHz -1915MHz) E-UTRA Band 26(814 MHz -824MHz) E-UTRA Band 26(824 MHz -849MHz) E-UTRA Band 41(2496 MHz -2690MHz) E-UTRA Band 66(1710 MHz -1780MHz) E-UTRA Band 71(663 MHz -698MHz)
LTE Release Version	R10
Type Of Modulation	QPSK/16QAM
Antenna Description	FPC Antenna; 1.23dBi (max.) For LTE Band 2; 0.80dBi (max.) For LTE Band 4; -2.49dBi (max.) For LTE Band 5; 0.80dBi (max.) For LTE Band 7; -2.86dBi (max.) For LTE Band 12; -2.56dBi (max.) For LTE Band 13; -2.75dBi (max.) For LTE Band 14; -2.92dBi (max.) For LTE Band 17; 1.26dBi (max.) For LTE Band 25; -2.72dBi (max.) For LTE Band 26; 0.63dBi (max.) For LTE Band 41; 0.94dBi (max.) For LTE Band 66; -2.96dBi (max.) For LTE Band 71;
RFID(13.56MHz) (Optional)	
Frequency Range	13.56MHz
Channel Number	1
Modulation Type	ASK
Antenna Description	Internal Antenna, 0dBi (Max.)
GPS(RX)	Support

2.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	<input type="radio"/>	230V/ 50 Hz	<input type="radio"/>	120V/60Hz
		<input type="radio"/>	12 V DC	<input type="radio"/>	24 V DC
		<input checked="" type="radio"/>	Other (specified in blank below)		

DC 5.0V

2.4. Short description of the Equipment under Test (EUT)

This is a mobile POS.

For more details, refer to the user's manual of the EUT.

2.5. EUT operation mode

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing .There are 79 channels provided to the EUT.

Channel 00/39/78 was selected to test.

Mode of Operations	Frequency Range (MHz)	Data Rate (Mbps)
(BDR/EDR)	2402	1/2/3
	2441	1/2/3
	2480	1/2/3
For Conducted Emission		
Test Mode		TX Mode
For Radiated Emission		
Test Mode		TX Mode

Channel	Frequency(MHz)	Channel	Frequency(MHz)
00	2402	40	2442
01	2403	41	2443
02	2404	42	2444
--	--	--	--
--	--	--	--
38	2440	78	2480
39	2441		

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case.

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was the mode and channel with the highest output power that was determined to be TX (1Mbps).

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be TX(1Mbps-MCH).

2.6. Block Diagram of Test Setup



2.7. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: RBWEMC0650C** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.8. EUT Exercise Software

The system enters the engineering mode through the instructions provided by the application (QDART_WIN_4_8_Installer_00056_2), tests under continuous transmission conditions, and changes the test channel.

2.9. Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN TIANYIN ELECTRONICS CO.,LTD.	Adapter	TPA-46050200UU	--	SDOC
SHENZHEN HONOR ELECTRONIC CO.,LTD.	Adapter	ADS-10LA-06 05010EPCU	--	SDOC

2.10. External I/O Cable

I/O Port Description	Quantity	Cable
DC IN Port	1	1.2M, Unscreened Cable

2.11. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong,China.

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1234.

FCC Registered Test Site Number is165725.

3.3. Environmental conditions

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

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.4. 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 Global Test Service 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 GTS laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.5. Summary of measurement results

Applied Standard: FCC Part 15 Subpart C				
FCC Rules	Description of Test	Test Sample	Result	Remark
§15.247(b)(1)	Maximum Conducted Output Power	GTS20221215003-1-S0001-1#	Compliant	Appendix A
§15.247(c)	Frequency Separation	GTS20221215003-1-S0001-1#	Compliant	Appendix A
§15.247(c)	99% and 20 dB Bandwidth	GTS20221215003-1-S0001-1#	Compliant	Appendix A
§15.247(a)(1)(ii)	Number of Hopping Frequency	GTS20221215003-1-S0001-1#	Compliant	Appendix A
§15.247(a)(1)(iii)	Time Of Occupancy (Dwell Time)	GTS20221215003-1-S0001-1#	Compliant	Appendix A
§15.209, §15.205	Conducted Spurious Emissions and Band Edges Test	GTS20221215003-1-S0001-1#	Compliant	Appendix A
§15.209, §15.247(d)	Radiated Spurious Emissions	GTS20221215003-1-S0001-1# GTS20221215003-1-S0001-2#	Compliant	Note 1
§15.205	Emissions at Restricted Band	GTS20221215003-1-S0001-1#	Compliant	Note 1
§15.207(a)	AC Conducted Emissions	GTS20221215003-1-S0001-2#	Compliant	Note 1
§15.203 §15.247(c)	Antenna Requirements	GTS20221215003-1-S0001-1#	Compliant	Note 1
§15.247(i)§2.10 93	RF Exposure	/	Compliant	Note 2

Remark:

1. The measurement uncertainty is not included in the test result.
2. NA = Not Applicable; NP = Not Performed
3. Note 1 – Test results inside test report;
4. Note 2 – Test results in other test report (MPE Report).
5. We tested all test mode and recorded worst case in report

3.6. Equipments Used during the Test

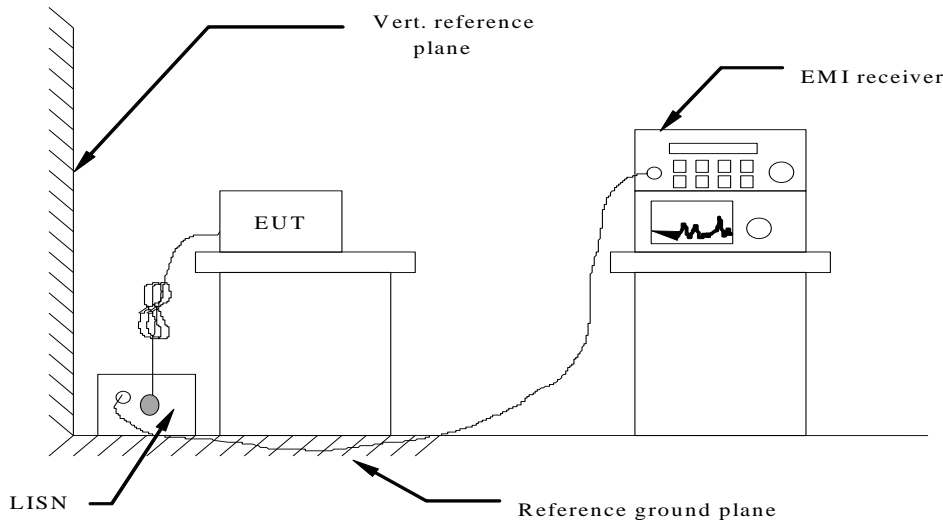
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	CYBERTEK	EM5040A	E1850400105	2022/07/13	2023/07/12
LISN	R&S	ESH2-Z5	893606/008	2022/07/13	2023/07/12
EMI Test Receiver	R&S	ESPI3	101841-cd	2022/07/13	2023/07/12
EMI Test Receiver	R&S	ESCI7	101102	2022/09/09	2023/09/08
Spectrum Analyzer	Agilent	N9020A	MY48010425	2022/09/09	2023/09/08
Spectrum Analyzer	R&S	FSV40	100019	2022/07/13	2023/07/12
Vector Signal generator	Agilent	N5181A	MY49060502	2022/07/13	2023/07/12
Signal generator	Agilent	N5182A	3610AO1069	2022/09/09	2023/09/08
Climate Chamber	ESPEC	EL-10KA	A20120523	2022/09/09	2023/09/08
Controller	EM Electronics	Controller EM 1000	N/A	N/A	N/A
Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2022/09/09	2023/09/08
Active Loop Antenna	Beijing Da Ze Technology Co.,Ltd.	ZN30900C	15006	2022/09/09	2023/09/08
Bilog Antenna	Schwarzbeck	VULB9163	000976	2022/07/13	2023/07/12
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2022/09/09	2023/09/08
Amplifier	Schwarzbeck	BBV 9743	#202	2022/07/13	2023/07/12
Amplifier	Schwarzbeck	BBV9179	9719-025	2022/07/13	2023/07/12
Amplifier	EMCI	EMC051845B	980355	2022/07/13	2023/07/12
Temperature/Humidity Meter	Gangxing	CTH-608	02	2022/07/13	2023/07/12
High-Pass Filter	K&L	9SH10-2700/X12750-O/O	KL142031	2022/07/13	2023/07/12
High-Pass Filter	K&L	41H10-1375/U12750-O/O	KL142032	2022/07/13	2023/07/12
RF Cable(below 1GHz)	HUBER+SUHNER	RG214	RE01	2022/07/13	2023/07/12
RF Cable(above 1GHz)	HUBER+SUHNER	RG214	RE02	2022/07/13	2023/07/12
Data acquisition card	Agilent	U2531A	TW53323507	2022/07/13	2023/07/12
Power Sensor	Agilent	U2021XA	MY5365004	2022/07/13	2023/07/12
Test Control Unit	Tonscend	JS0806-1	178060067	2022/07/13	2023/07/12
Automated filter bank	Tonscend	JS0806-F	19F8060177	2022/07/13	2023/07/12
EMI Test Software	Tonscend	JS1120-1	Ver 2.6.8.0518	/	/
EMI Test Software	Tonscend	JS1120-3	Ver 2.5.77.0418	/	/
EMI Test Software	Tonscend	JS32-CE	Ver 2.5	/	/
EMI Test Software	Tonscend	JS32-RE	Ver 2.5.1.8	/	/

Note: The Cal.Interval was one year.

4. TEST CONDITIONS AND RESULTS

4.1. AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2020.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2020.
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2020.
- 4 The EUT received DC 5V power, the received AC120V/60Hz or AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

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 RESULTS

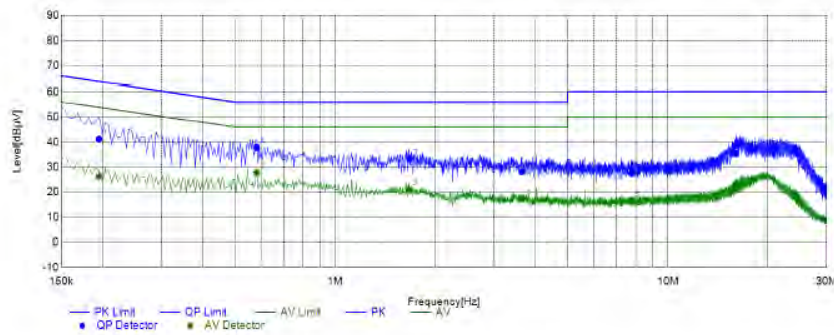
Remark: We measured Conducted Emission at GFSK, $\pi/4$ -DQPSK and 8-DPSK mode in AC 120V/60Hz and AC 240V/60Hz, the worst case was recorded(GFSK 1Mbps-MCH) .

Temperature	25°C	Humidity	60%
Test Engineer	Jenny Zeng	Configurations	BT

Adapter:TPA-46050200UU
 Model: EMC0650S

Power supply:	AC 120V/60Hz	Polarization	L
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Test Graph



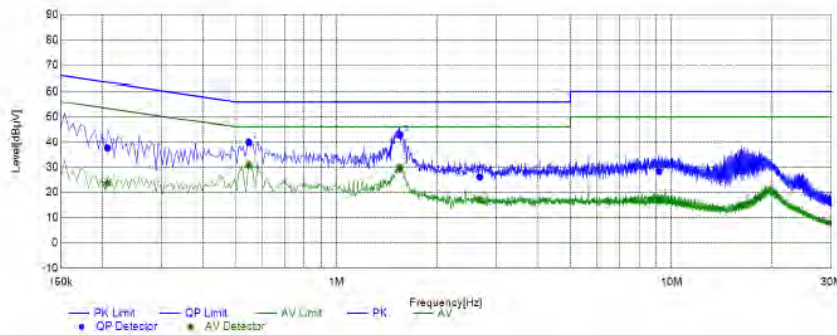
Final Data List												
NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.1951	31.64	16.70	9.56	41.20	26.26	63.82	53.82	22.62	27.56	L1	PASS
2	0.5801	28.24	18.14	9.64	37.88	27.78	56.00	46.00	18.12	18.22	L1	PASS
3	1.6688	24.06	11.75	9.38	33.44	21.13	56.00	46.00	22.56	24.87	L1	PASS
4	3.6441	18.82	7.97	9.40	28.22	17.37	56.00	46.00	27.78	28.63	L1	PASS
5	7.7835	18.18	7.29	9.27	27.45	16.56	60.00	50.00	32.55	33.44	L1	PASS
6	16.0393	26.21	13.57	9.16	35.97	22.73	60.00	50.00	24.63	27.27	L1	PASS

Note: 1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N
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Test Graph



Final Data List												
NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.2075	28.02	14.03	9.59	37.61	23.62	63.30	53.30	25.69	29.68	N	PASS
2	0.5474	30.47	21.40	9.40	39.87	30.80	56.00	46.00	16.13	15.20	N	PASS
3	1.5444	33.41	20.50	9.36	42.77	29.86	56.00	46.00	13.23	16.14	N	PASS
4	2.6772	16.73	7.80	9.33	26.06	17.13	56.00	46.00	29.94	28.87	N	PASS
5	9.1861	19.09	7.90	9.29	28.38	17.19	60.00	50.00	31.62	32.81	N	PASS
6	16.2112	19.39	5.78	9.17	28.56	14.95	60.00	50.00	31.44	35.05	N	PASS

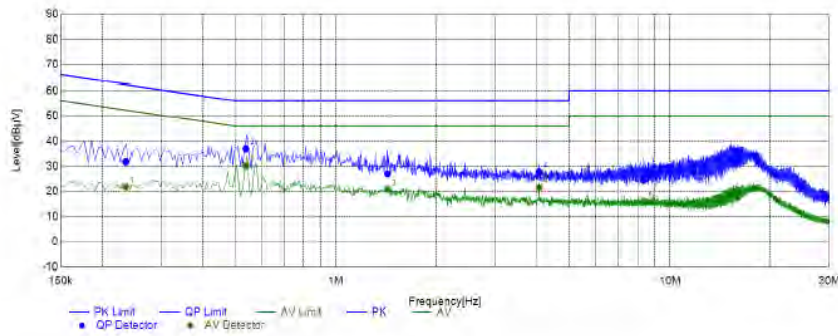
Note: 1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Model: EMC0650

Power supply:	AC 120V/60Hz	Polarization	L
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Test Graph



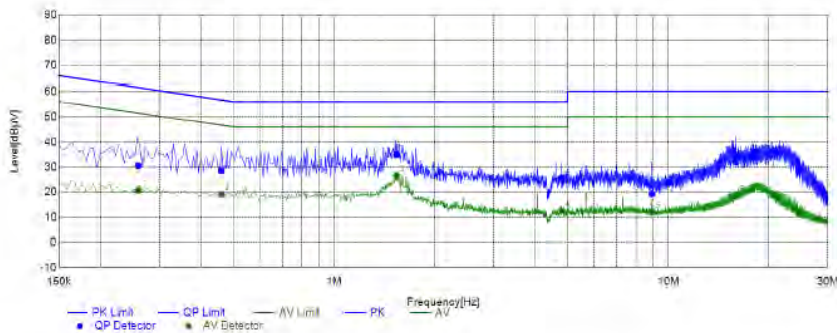
Final Data List												
NO.	Frequency	QP	AVG	Factor	QP	AVG	QP	AVG	QP	AVG	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.2952	22.28	12.33	9.51	31.79	21.84	62.26	52.26	30.47	30.42	L1	PASS
2	0.5392	27.49	20.75	9.52	37.01	30.27	56.00	46.00	18.99	15.73	L1	PASS
3	1.4300	17.61	11.45	9.38	26.99	20.83	56.00	46.00	29.01	25.17	L1	PASS
4	4.0640	18.35	12.14	9.41	27.76	21.55	56.00	46.00	28.24	24.45	L1	PASS
5	8.3538	15.19	6.60	9.25	24.44	15.85	60.00	50.00	35.56	34.15	L1	PASS
6	15.2438	23.39	10.01	9.16	32.55	19.17	60.00	50.00	27.45	30.83	L1	PASS

Note: 1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N
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Test Graph



Final Data List												
NO.	Frequency	QP	AVG	Factor	QP	AVG	QP	AVG	QP	AVG	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.2590	20.99	11.26	9.51	30.50	20.77	61.46	51.46	30.96	30.69	N	PASS
2	0.4596	19.19	9.72	9.43	28.62	19.15	56.70	46.70	28.08	27.55	N	PASS
3	1.5343	25.56	17.38	9.36	34.92	26.74	56.00	46.00	21.08	19.26	N	PASS
4	4.7993	16.26	3.39	9.34	25.60	12.73	56.00	46.00	30.40	33.27	N	PASS
5	8.9309	10.04	2.94	9.30	19.34	12.24	60.00	50.00	40.66	37.76	N	PASS
6	15.9084	22.93	9.72	9.19	32.12	18.91	60.00	50.00	27.88	31.09	N	PASS

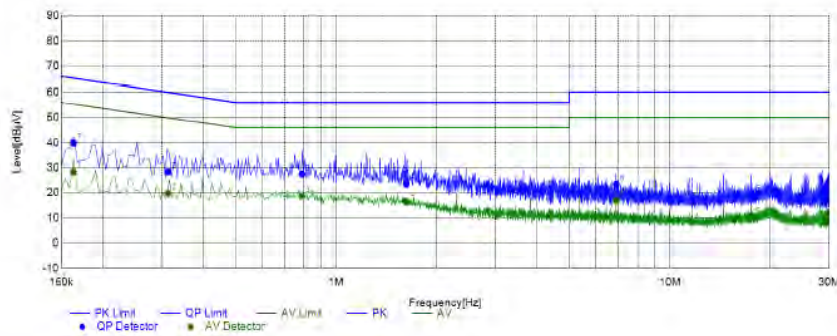
Note: 1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Adapter: ADS-10LA-06 05010EPCU
 Model: EMC0650S

Power supply:	AC 120V/60Hz	Polarization	L
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Test Graph



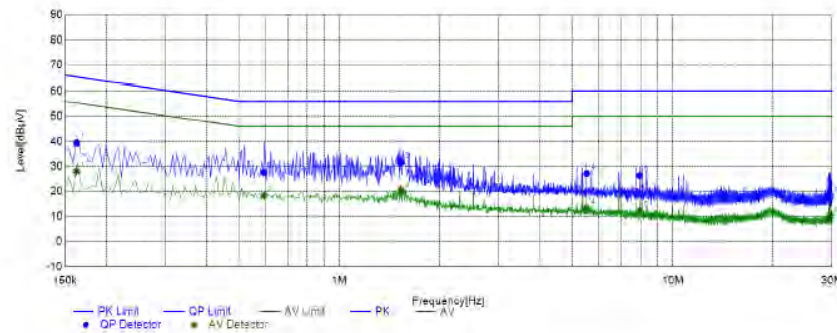
Final Data List												
NO.	Frequency	QP	AVG	Factor	QP	AVG	QP	AVG	QP	AVG	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.1633	30.22	18.66	9.60	39.82	28.26	65.30	55.30	25.48	27.04	L1	PASS
2	0.3131	18.97	10.37	9.42	28.39	19.79	59.89	49.89	31.50	30.10	L1	PASS
3	0.7897	18.06	9.35	9.41	27.47	18.76	56.00	46.00	28.53	27.24	L1	PASS
4	1.6240	14.15	7.08	9.37	23.52	16.45	56.00	46.00	32.48	29.55	L1	PASS
5	6.9080	14.08	7.68	9.30	23.38	16.98	60.00	50.00	36.62	33.02	L1	PASS
6	17.5168	10.18	1.35	9.19	19.37	10.54	60.00	50.00	40.63	39.46	L1	PASS

Note: 1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N
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Test Graph



Final Data List												
NO.	Frequency	QP	AVG	Factor	QP	AVG	QP	AVG	QP	AVG	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.1628	29.71	18.44	9.60	39.31	28.04	65.32	55.32	26.01	27.28	N	PASS
2	0.5940	18.19	8.90	9.40	27.59	18.30	56.00	46.00	28.41	27.70	N	PASS
3	1.5296	22.31	10.82	9.36	31.67	20.18	56.00	46.00	24.33	25.82	N	PASS
4	5.5247	17.79	4.00	9.34	27.13	13.34	60.00	50.00	32.87	36.66	N	PASS
5	7.9636	17.01	3.01	9.30	26.31	12.31	60.00	50.00	33.69	37.69	N	PASS
6	29.7428	8.67	0.81	9.24	17.91	10.05	60.00	50.00	42.09	39.95	N	PASS

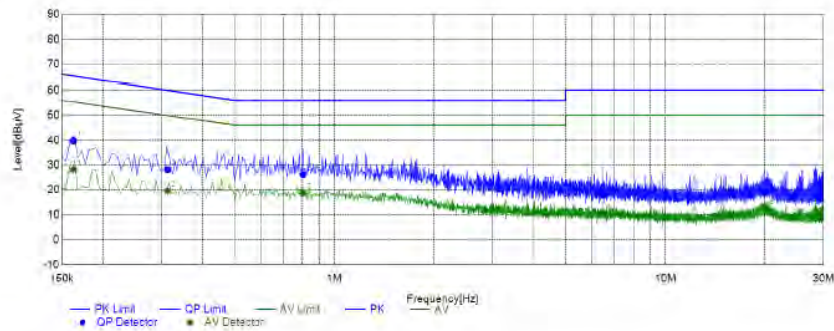
Note: 1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Model: EMC0650

Power supply:	AC 120V/60Hz	Polarization	L
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Test Graph



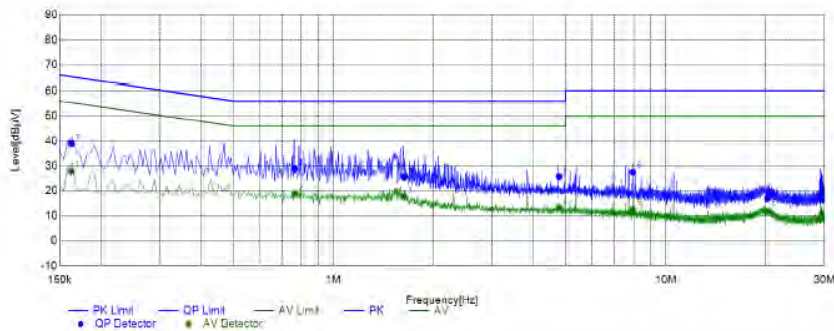
Final Data List												
NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.1628	30.13	18.58	9.60	39.73	28.18	65.32	55.32	25.59	27.14	L1	PASS
2	0.3134	18.69	10.22	9.42	28.11	19.64	59.88	49.88	31.77	30.24	L1	PASS
3	0.8043	16.73	9.46	9.41	26.14	18.87	56.00	46.00	29.86	27.13	L1	PASS
4	3.1482	11.03	2.91	9.35	20.38	12.26	56.00	46.00	35.62	33.74	L1	PASS
5	6.4770	8.60	1.17	9.31	17.91	10.48	60.00	50.00	42.09	39.52	L1	PASS
6	20.0267	9.69	3.38	9.21	18.90	12.59	60.00	50.00	41.10	37.41	L1	PASS

Note: 1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N
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Test Graph



Final Data List												
NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.1629	29.36	18.22	9.60	38.96	27.82	65.31	55.31	26.35	27.49	N	PASS
2	0.7652	19.53	9.34	9.40	28.93	18.74	56.00	46.00	27.07	27.26	N	PASS
3	1.6322	16.11	8.43	9.36	25.47	17.79	56.00	46.00	30.53	28.21	N	PASS
4	4.7739	16.42	4.05	9.34	25.76	13.39	56.00	46.00	30.24	32.61	N	PASS
5	7.9653	18.20	3.27	9.30	27.50	12.57	60.00	50.00	32.50	37.43	N	PASS
6	20.2438	7.72	2.75	9.22	16.94	11.97	60.00	50.00	43.06	38.03	N	PASS

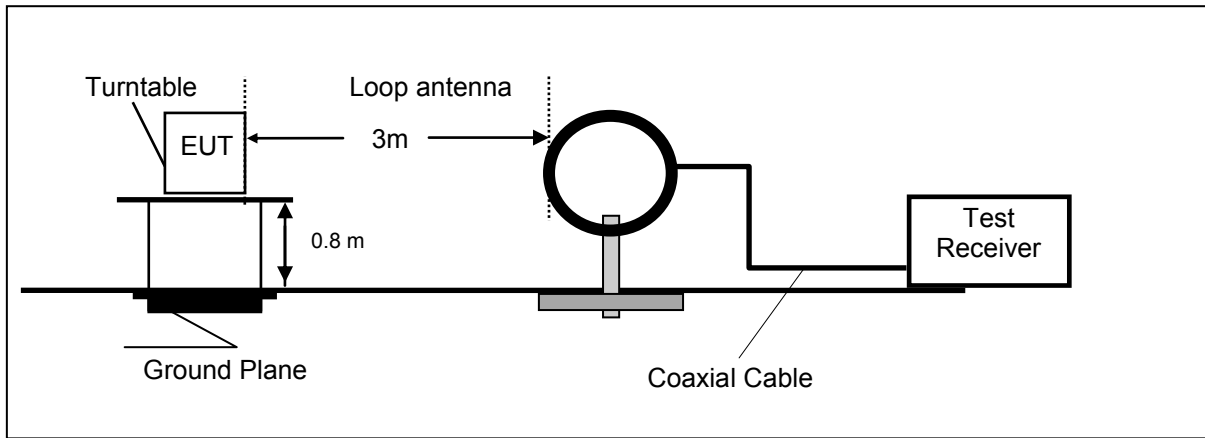
Note: 1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

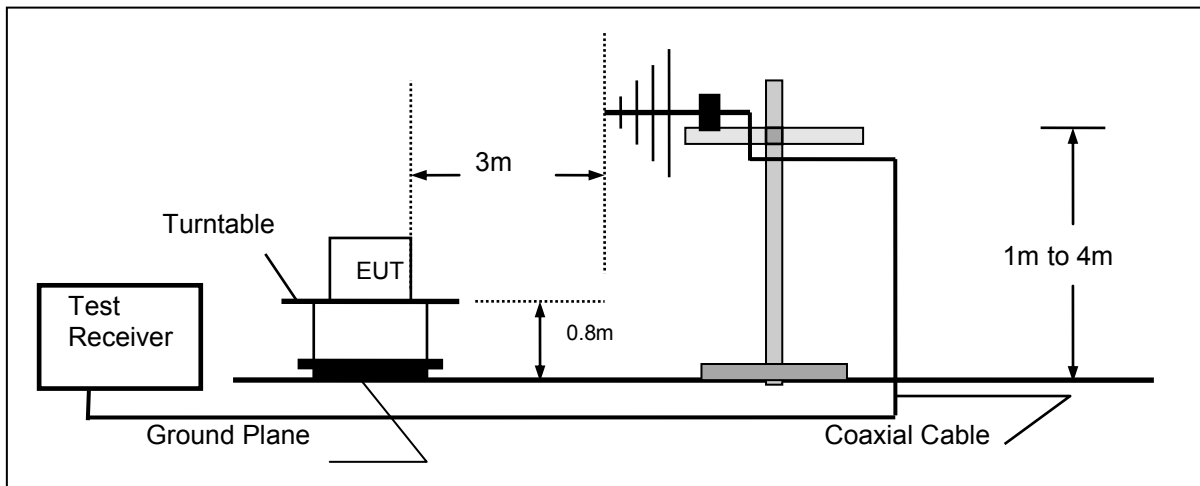
4.2. Radiated Emission

TEST CONFIGURATION

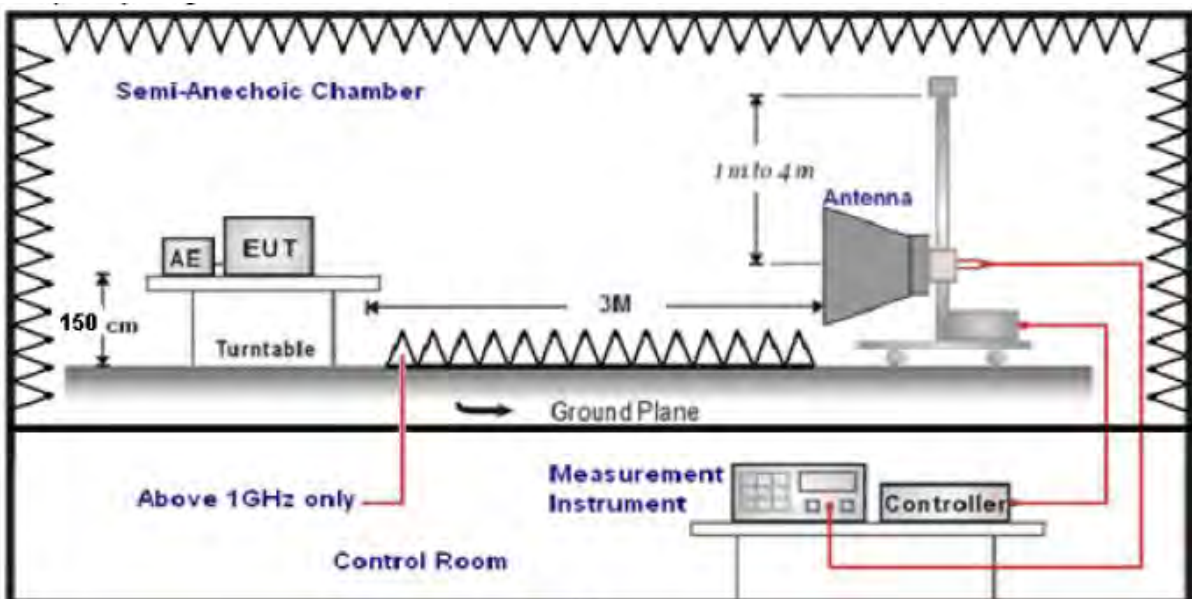
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. The EUT minimum operation frequency was 32.768KHz and maximum operation frequency was 2480MHz.so radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz, Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz, Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz, Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

Transd=AF +CL-AG

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST RESULTS

Remark: We measured Radiated Emission at GFSK, $\pi/4$ -DQPSK and 8-DPSK mode from 9KHz to 25GHz and recorded worst case at GFSK(1Mbps-MCH) mode.

Temperature	25°C	Humidity	60%
Test Engineer	Jenny Zeng	Configurations	BT

For 9 KHz~30MHz

Freq. (MHz)	Level (dB μ V)	Over Limit (dB)	Over Limit (dB μ V)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

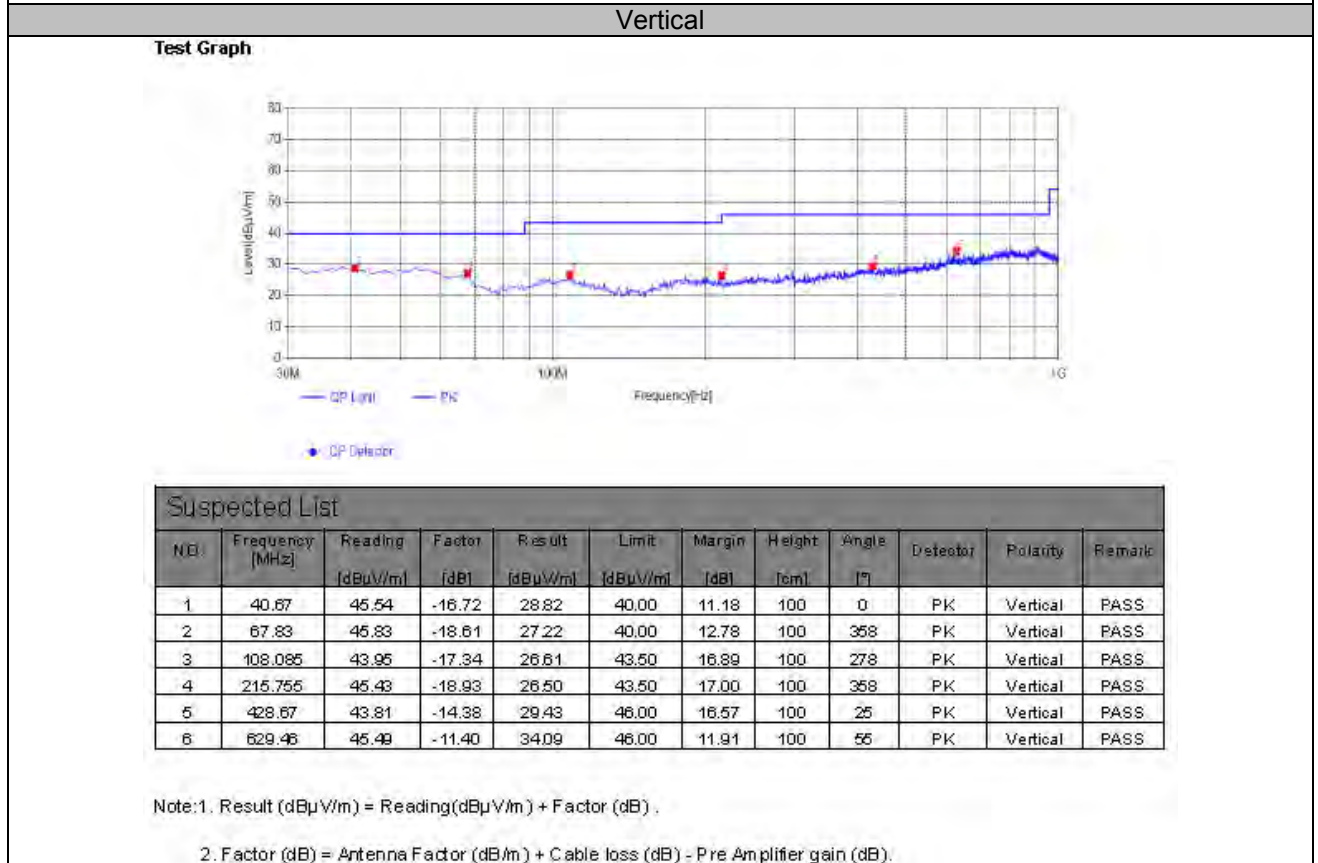
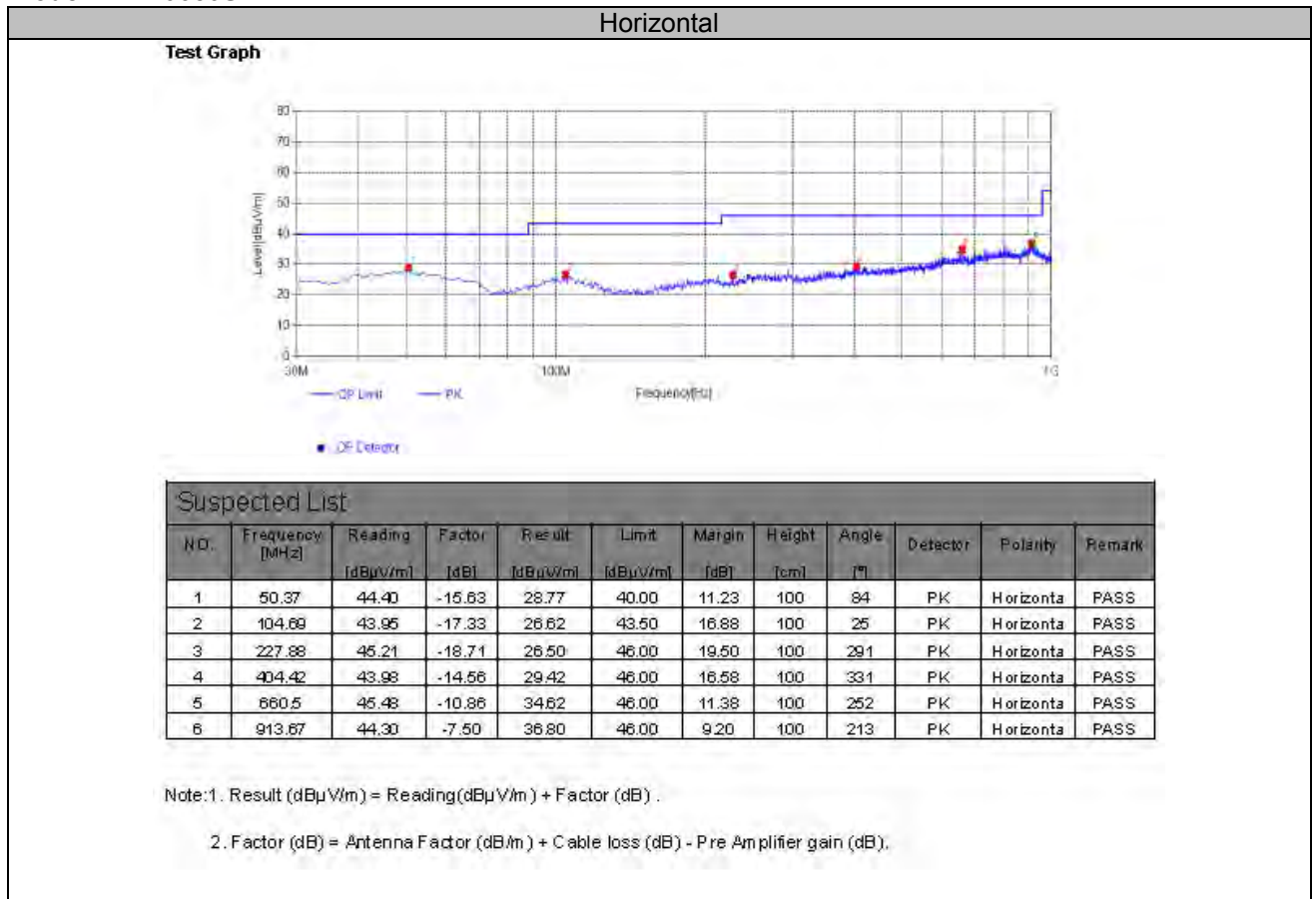
Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dB μ V) + distance extrapolation factor.

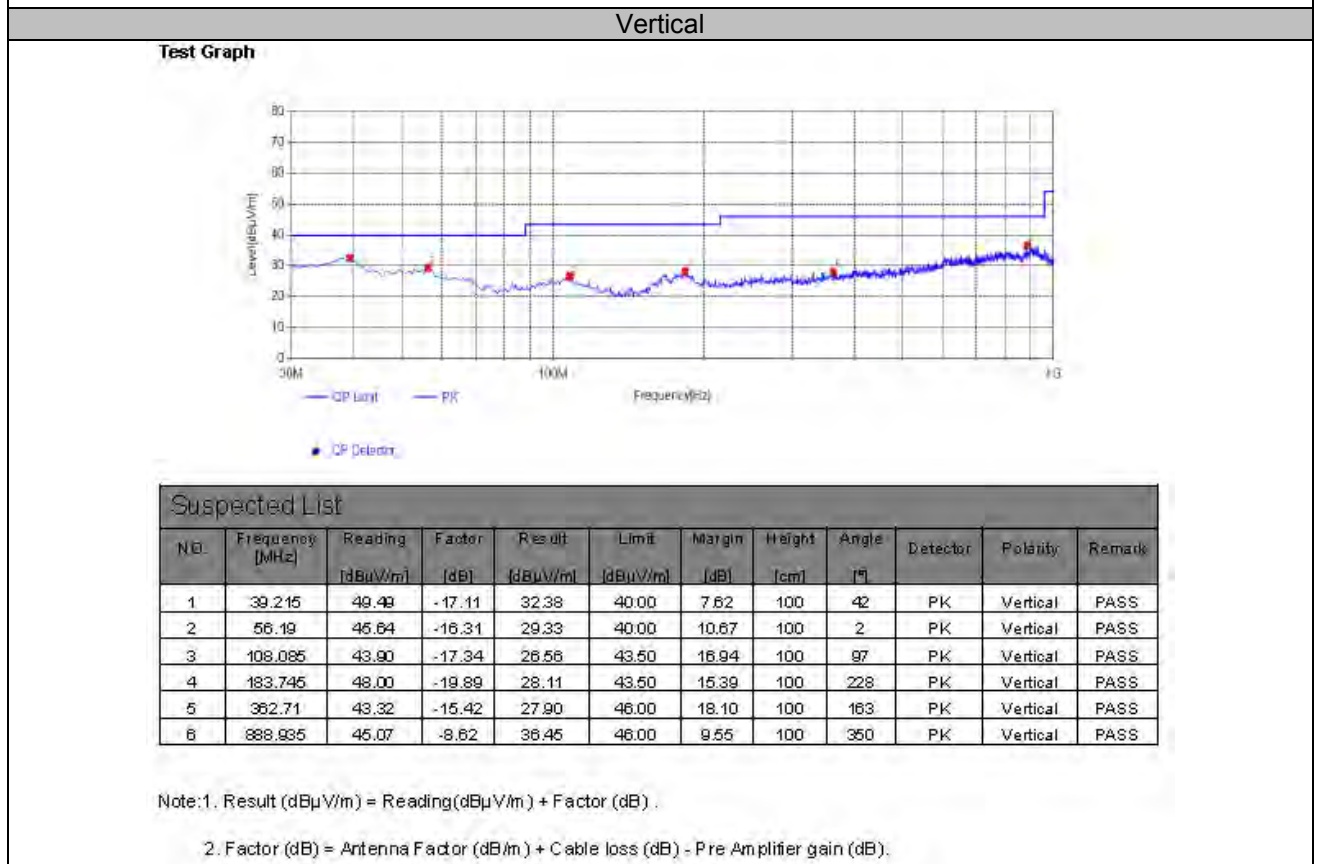
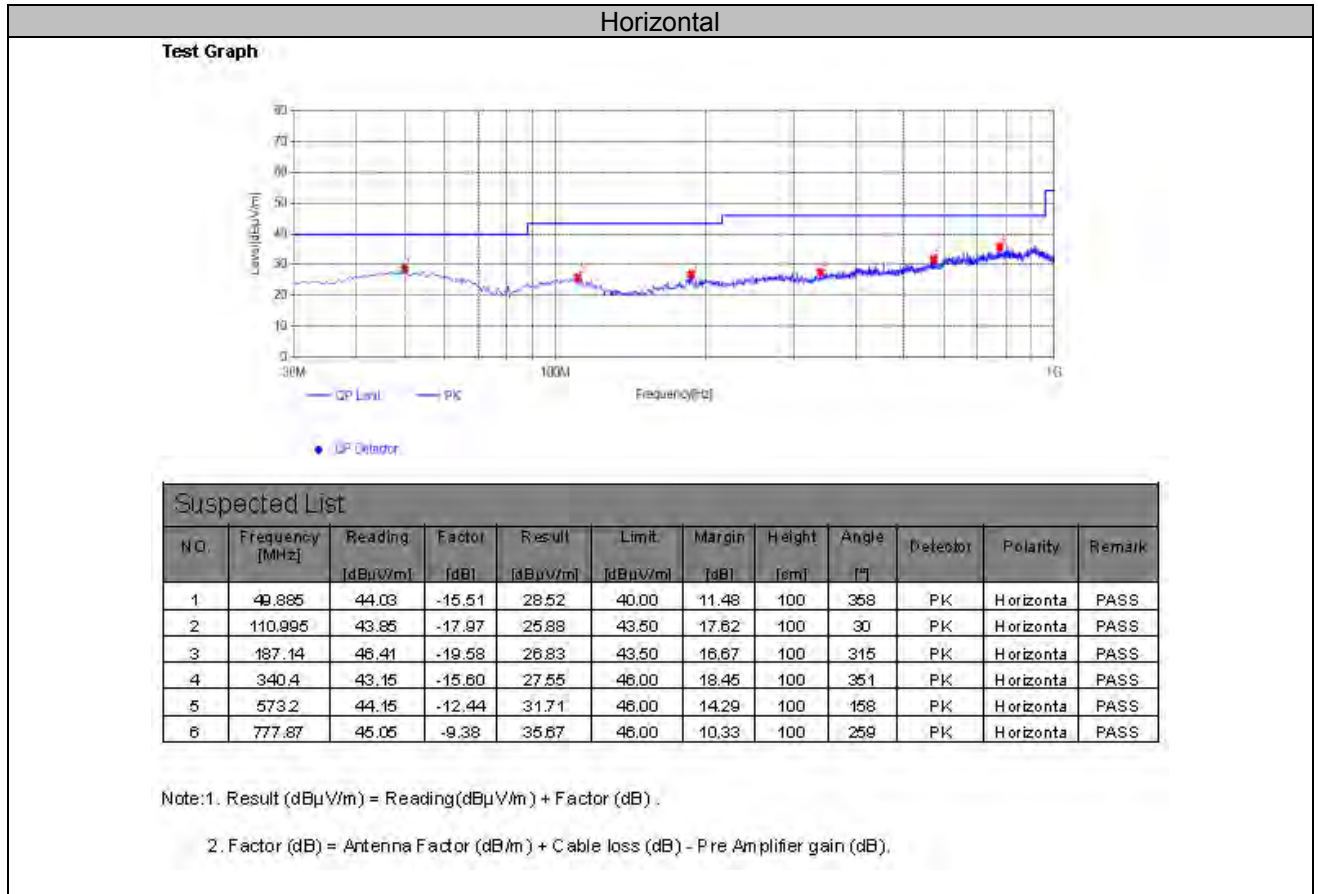
For 30MHz-1GHz

Adapter:TPA-46050200UU

Model: EMC0650S



Model: EMC0650

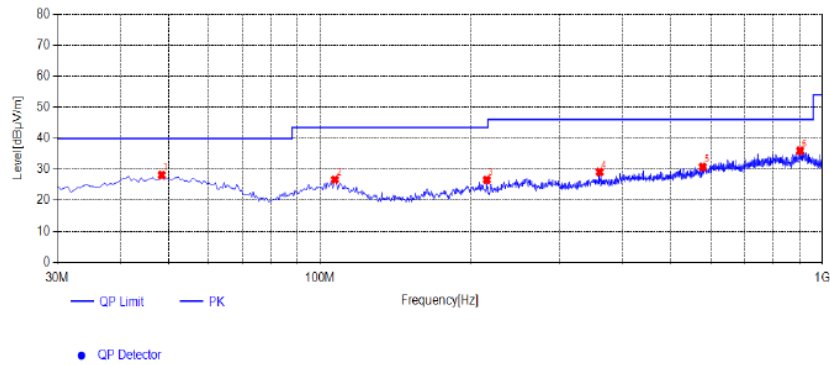


Adapter: ADS-10LA-06 05010EPCU

Model: EMC0650S

Horizontal

Test Graph



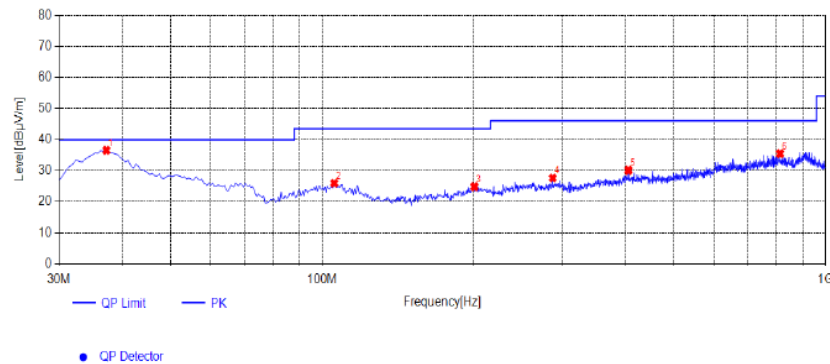
Suspected List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	48.43	43.95	-15.77	28.18	40.00	11.82	100	254	PK	Horizontal	PASS
2	107.115	43.72	-17.05	26.67	43.50	16.83	100	69	PK	Horizontal	PASS
3	214.785	45.52	-18.92	26.60	43.50	16.90	100	280	PK	Horizontal	PASS
4	360.285	44.48	-15.30	29.18	46.00	16.82	100	333	PK	Horizontal	PASS
5	578.05	43.09	-12.32	30.77	46.00	15.23	100	230	PK	Horizontal	PASS
6	903.485	43.95	-8.00	35.95	46.00	10.05	100	16	PK	Horizontal	PASS

Note: 1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical

Test Graph



Suspected List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	37.275	54.70	-18.19	36.51	40.00	3.49	100	358	PK	Vertical	PASS
2	105.66	43.22	-17.27	25.95	43.50	17.55	100	225	PK	Vertical	PASS
3	200.72	42.92	-18.13	24.79	43.50	18.71	100	325	PK	Vertical	PASS
4	287.05	44.71	-17.08	27.63	46.00	18.37	100	34	PK	Vertical	PASS
5	405.875	44.68	-14.53	30.15	46.00	15.85	100	28	PK	Vertical	PASS
6	812.305	44.35	-8.90	35.45	46.00	10.55	100	258	PK	Vertical	PASS

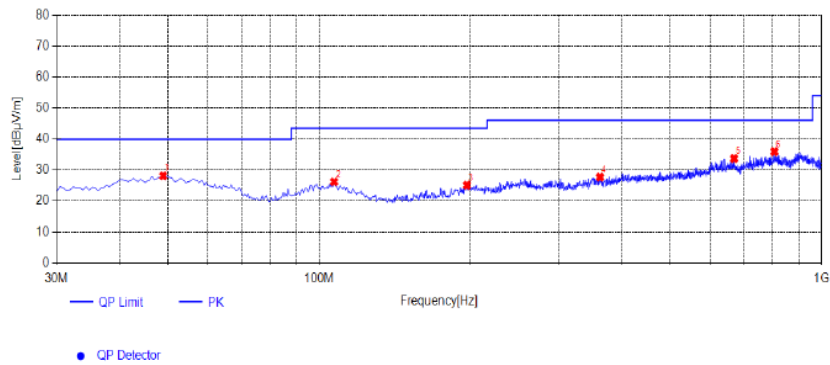
Note: 1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Model: EMC0650

Horizontal

Test Graph



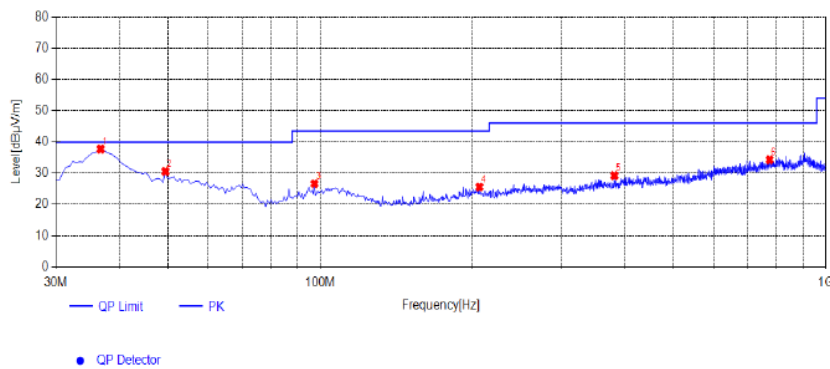
Suspected List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	48.915	43.92	-15.76	28.16	40.00	11.84	100	11	PK	Horizontal	PASS
2	107.115	43.24	-17.05	26.19	43.50	17.31	100	21	PK	Horizontal	PASS
3	196.84	43.79	-18.74	25.05	43.50	18.45	100	188	PK	Horizontal	PASS
4	362.225	43.11	-15.40	27.71	46.00	18.29	100	70	PK	Horizontal	PASS
5	669.715	44.72	-11.04	33.68	46.00	12.32	100	146	PK	Horizontal	PASS
6	805.515	44.87	-8.98	35.89	46.00	10.11	100	93	PK	Horizontal	PASS

Note: 1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical

Test Graph



Suspected List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	36.79	56.16	-18.49	37.67	40.00	2.33	100	2	PK	Vertical	PASS
2	49.4	46.17	-15.60	30.57	40.00	9.43	100	112	PK	Vertical	PASS
3	97.415	44.83	-18.21	26.62	43.50	16.88	100	118	PK	Vertical	PASS
4	206.54	43.95	-18.40	25.55	43.50	17.95	100	112	PK	Vertical	PASS
5	381.625	45.06	-15.80	29.26	46.00	16.74	100	22	PK	Vertical	PASS
6	774.475	43.67	-9.40	34.27	46.00	11.73	100	109	PK	Vertical	PASS

Note: 1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

For 1GHz to 25GHz

GFSK /Channel 0 / 2402 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.00	49.71	32.44	30.25	7.95	59.85	74.00	-14.15	Peak	Horizontal
4804.00	36.17	32.44	30.25	7.95	46.31	54.00	-7.69	Average	Horizontal
4804.00	54.83	32.44	30.25	7.95	64.97	74.00	-9.03	Peak	Vertical
4804.00	34.37	32.44	30.25	7.95	44.51	54.00	-9.49	Average	Vertical

Channel 39 / 2441 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4882.00	50.40	32.52	30.31	8.12	60.73	74.00	-13.27	Peak	Horizontal
4882.00	36.16	32.52	30.31	8.12	46.49	54.00	-7.51	Average	Horizontal
4882.00	51.29	32.52	30.31	8.12	61.62	74.00	-12.38	Peak	Vertical
4882.00	35.28	32.52	30.31	8.12	45.61	54.00	-8.39	Average	Vertical

Channel 78 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.00	51.44	32.68	30.27	7.88	61.73	74.00	-12.27	Peak	Horizontal
4960.00	35.59	32.68	30.27	7.88	45.88	54.00	-8.12	Average	Horizontal
4960.00	49.45	32.68	30.27	7.88	59.74	74.00	-14.26	Peak	Vertical
4960.00	31.56	32.68	30.27	7.88	41.85	54.00	-12.15	Average	Vertical

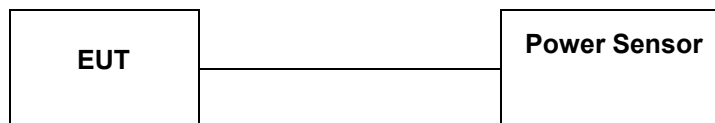
Notes:

- 1). Measuring frequencies from 9 KHz~10th harmonic or 26.5GHz (which is less), No emission found between lowest internal used/generated frequency to 30MHz.
- 2). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
- 3). Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4). Measured= Reading- Pre. Fac.+ Ant. Fac.+ Cab. Loss
- 5). Margin = Measured- Limit

NOTE: All the modes have been tested and recorded worst mode in the report.

4.3. Maximum Peak Output Power

TEST CONFIGURATION



TEST PROCEDURE

According to ANSI C63.10:2013 Maximum peak conducted output power for HFSS devices:
The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the HFSS bandwidth and shall utilize a fast-responding diode detector.
The maximum Average conducted output power may be measured using a wideband RF power meter with a thermocouple detector or equivalent. The power meter shall have a video bandwidth that is greater than or equal to the HFSS bandwidth and shall utilize a fast-responding diode detector.

LIMIT

For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

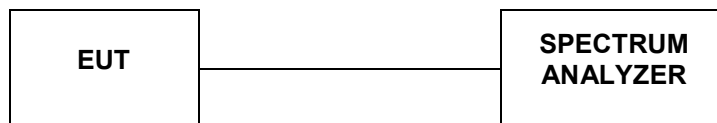
TEST RESULTS

For reporting purpose only.

Please refer to Appendix A.3.

4.4. 99% and 20dB Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=30KHz and VBW=100KHz. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

LIMIT

For frequency hopping systems operating in the 2400MHz-2483.5MHz no limit for 20dB bandwidth.

TEST RESULTS

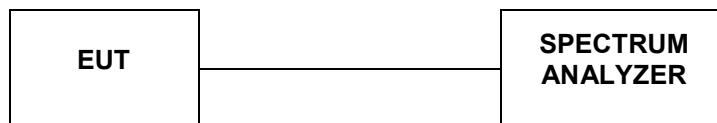
For reporting purpose only.

Please refer to Appendix A.1.

Please refer to Appendix A.2.

4.5. Frequency Separation

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=100KHz and VBW=300KHz.

LIMIT

According to 15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25KHz or the $\frac{2}{3} * 20\text{dB}$ bandwidth of the hopping channel, whichever is greater.

TEST RESULTS

For reporting purpose only.

Please refer to Appendix A.4.

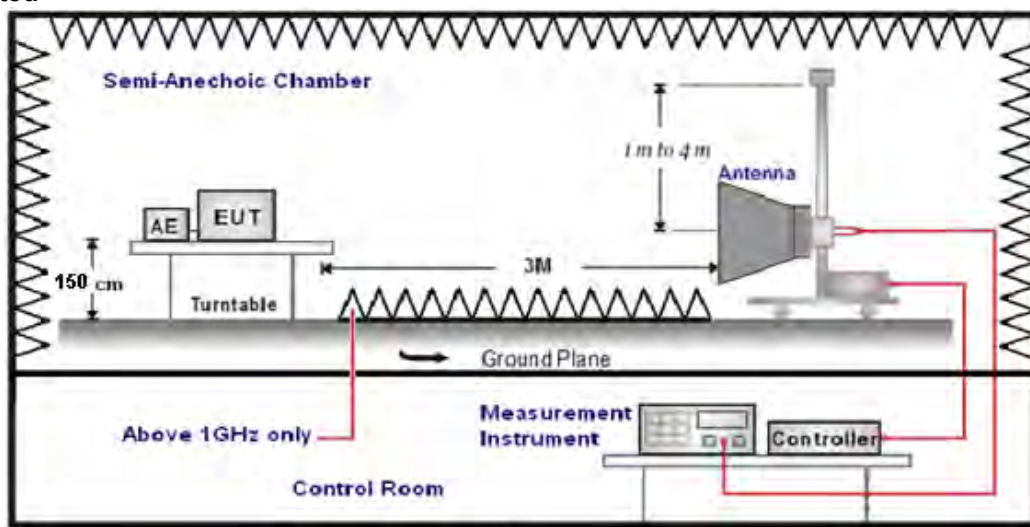
4.6. Conducted Spurious Emissions and Band Edge Compliance of RF Emission

TEST REQUIREMENT

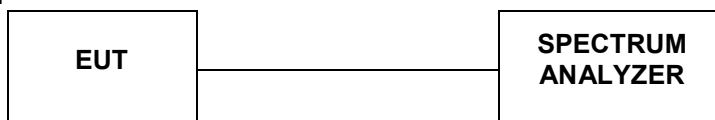
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

TEST CONFIGURATION

For Radiated



For Conducted



TEST PROCEDURE

1. The EUT was placed on a turn table which is 1.5m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed..
5. The distance between test antenna and EUT was 3 meter:
6. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

LIMIT

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

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)

TEST RESULTS

4.6.1 For Conducted at Restricted Band Measurement

For reporting purpose only.

Please refer to Appendix A.9.

4.6.2 For Conducted Bandedge Measurement

For reporting purpose only.

Please refer to Appendix A.7.

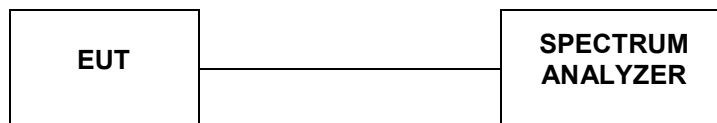
4.6.3 For Conducted Spurious Emissions Measurement

For reporting purpose only.

Please refer to Appendix A.8.

4.7. Number of hopping frequency

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. Set spectrum analyzer start 2400MHz to 2483.5MHz with RBW=100KHz and VBW=300KHz.

LIMIT

Frequency hopping systems in the 2400–2483.5MHz band shall use at least 15 channels.

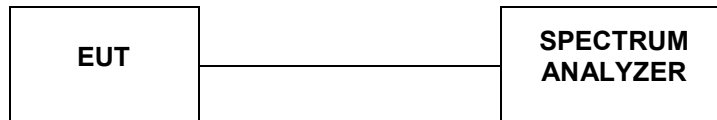
TEST RESULTS

For reporting purpose only.

Please refer to Appendix A.6.

4.8. Time Of Occupancy(Dwell Time)

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. Set center frequency of spectrum analyzer=operating frequency with RBW=1MHz and VBW=3MHz,Span=0Hz.

LIMIT

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

TEST RESULTS

For reporting purpose only.

Please refer to Appendix A.5.

4.9. Pseudorandom Frequency Hopping Sequence

TEST APPLICABLE

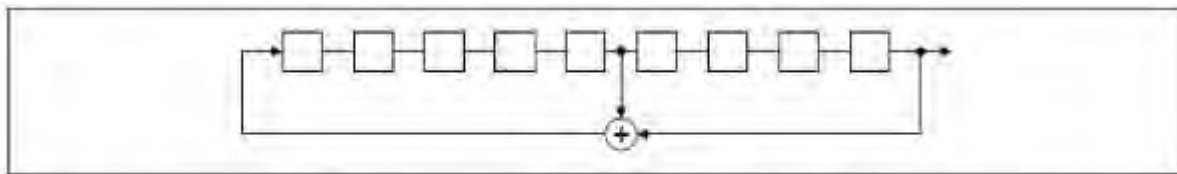
For 47 CFR Part 15C section 15.247 (a)(1) requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence Requirement

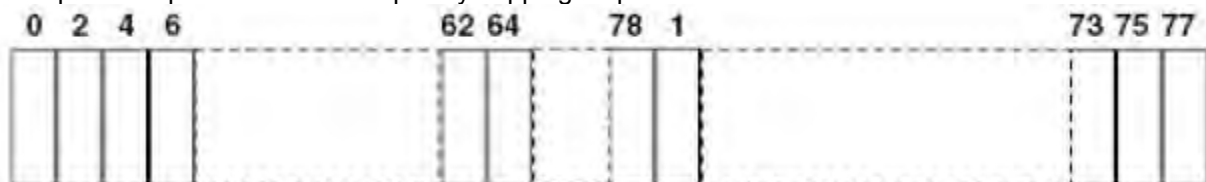
The pseudorandom frequency hopping sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

- Number of shift register stages:9
- Length of pseudo-random sequence:29-1=511 bits
- Longest sequence of zeros:8(non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of pseudorandom frequency hopping sequence as follows:



Each frequency used equally one the average by each transmitter. The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shift frequencies in synchronization with the transmitted signals.

4.10. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The antenna used for this product is FPC Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2.50dBi.

Reference to the **Internal photos**.

5. TEST SETUP PHOTOS OF THE EUT

Photo of Radiated Emissions Measurement

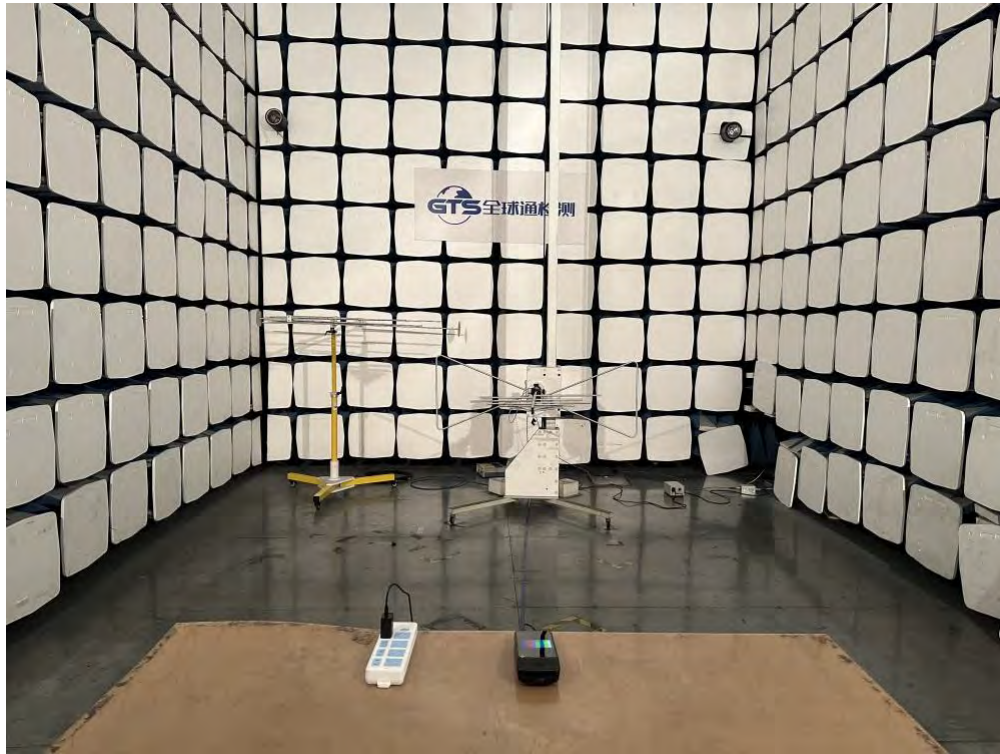


Fig. 1

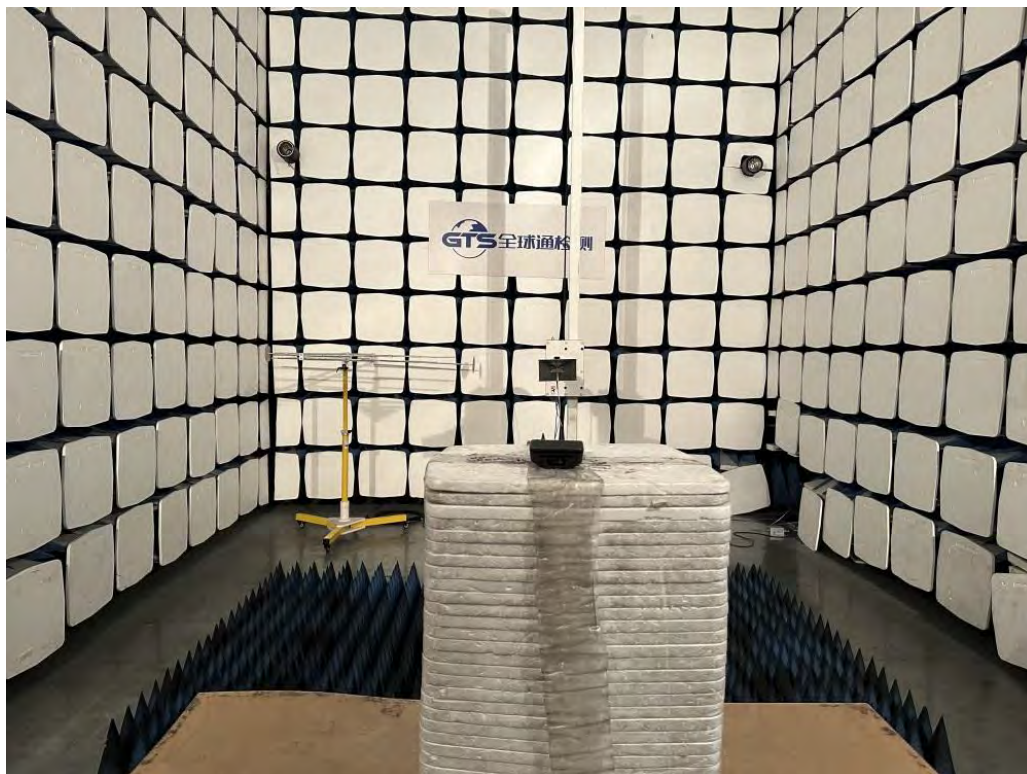


Fig. 2

Photo of Conducted Emission Measurement



Fig. 3

6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

6.1. External photos of the EUT



Fig. 1



Fig. 2

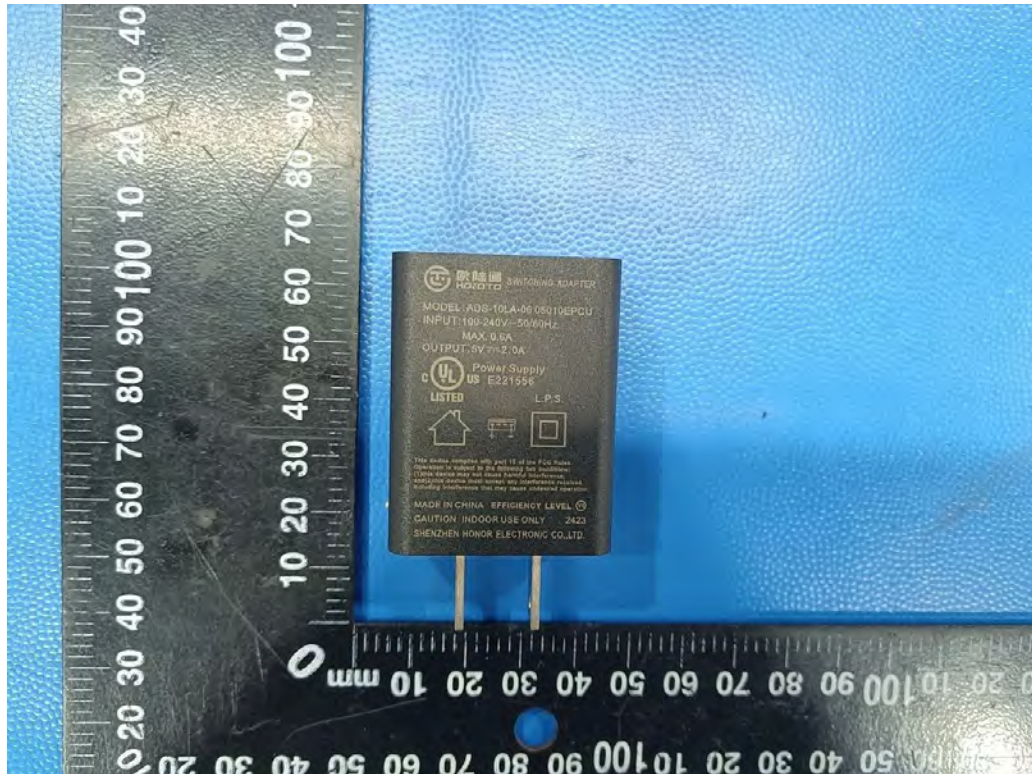


Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17

6.2. Internal photos of the EUT



Fig. 18

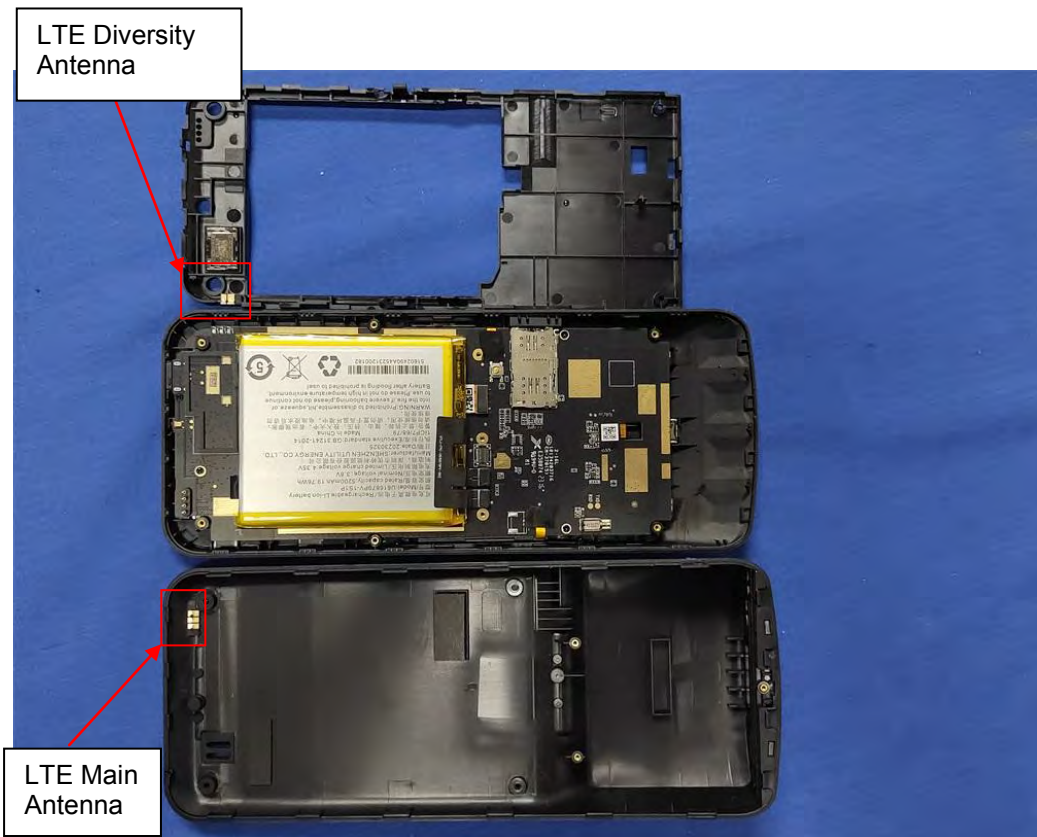


Fig. 19



Fig. 20

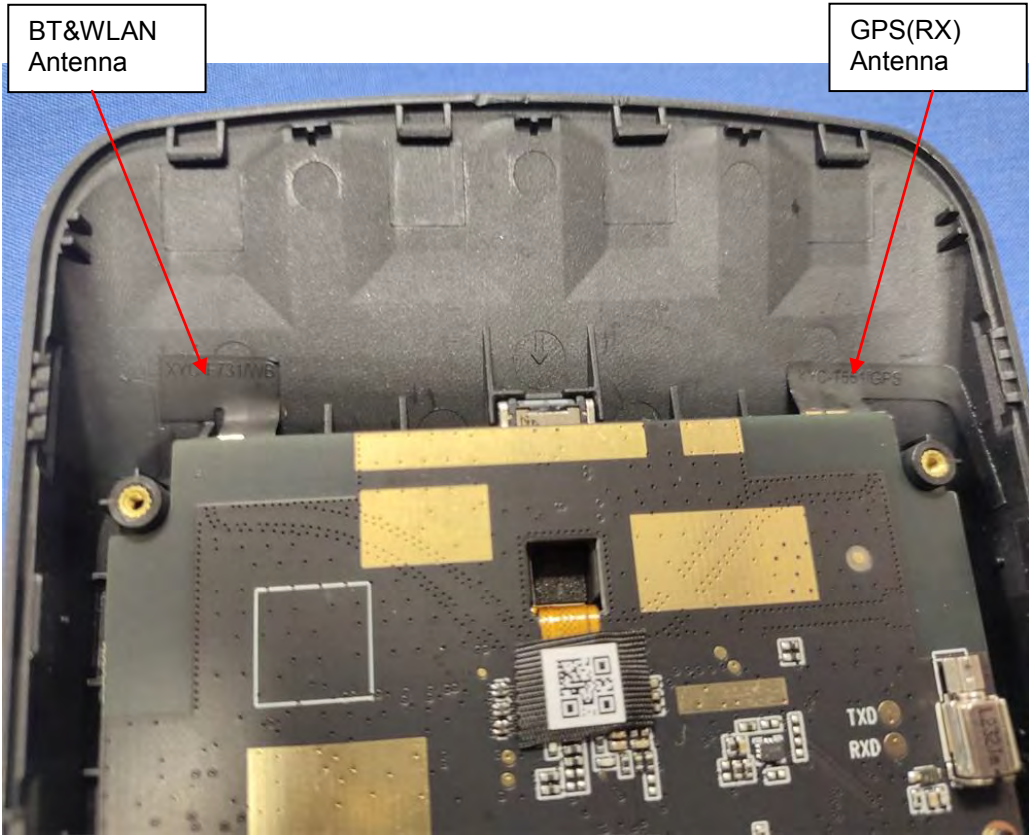


Fig. 21

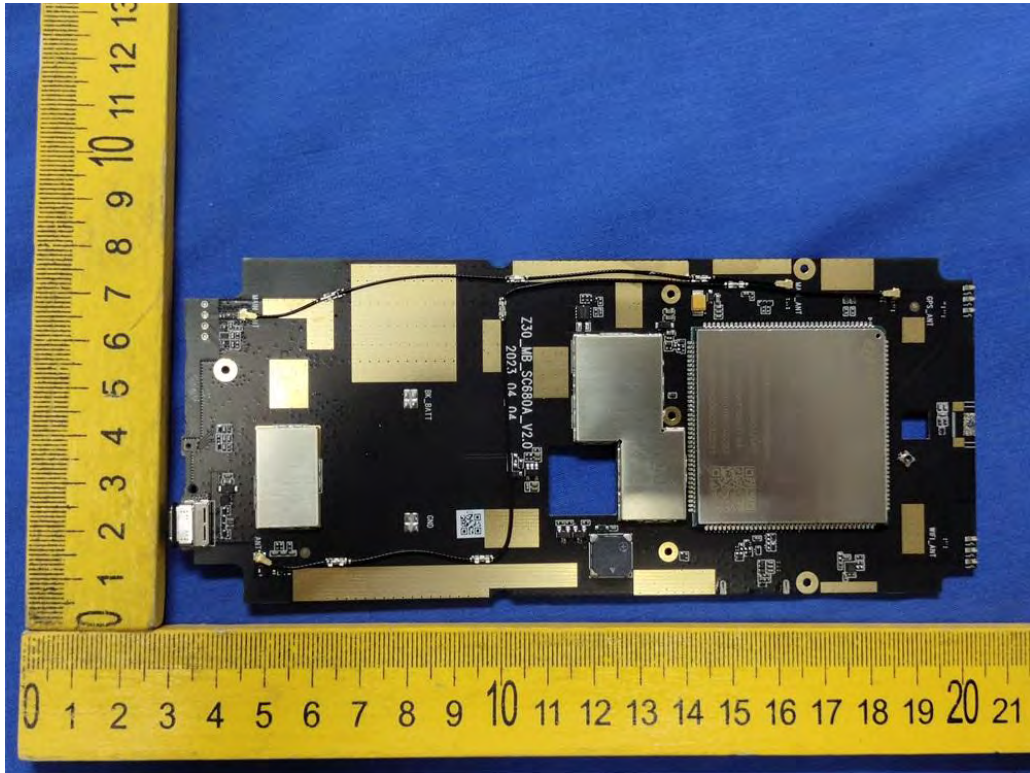


Fig. 22

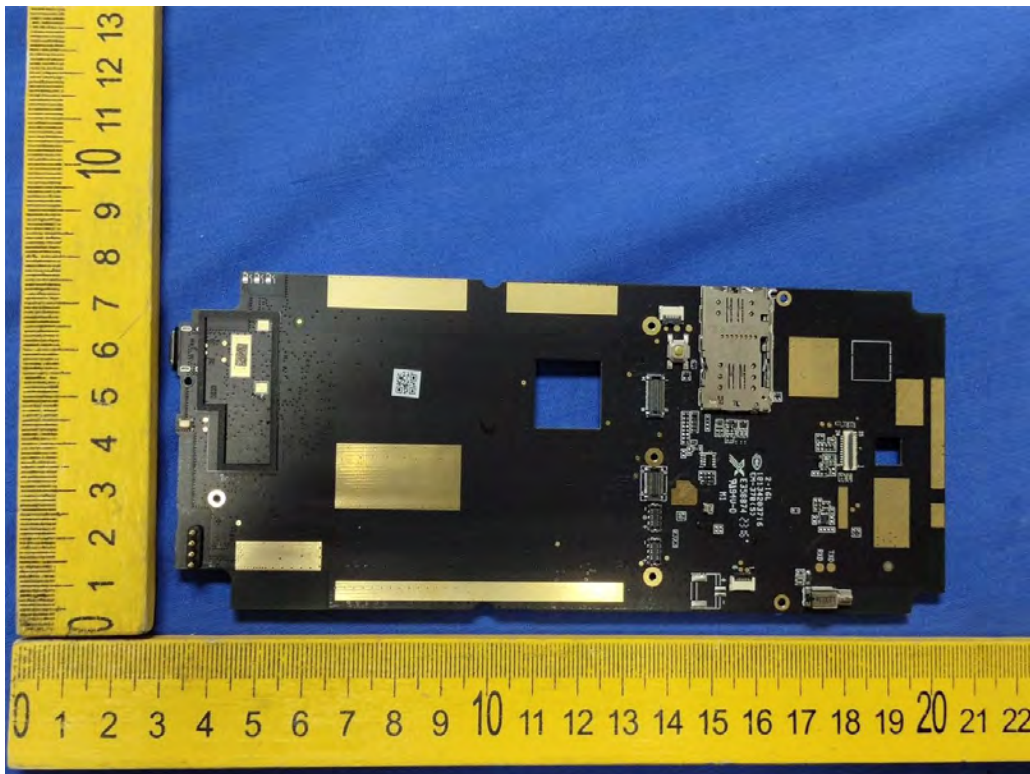


Fig. 23

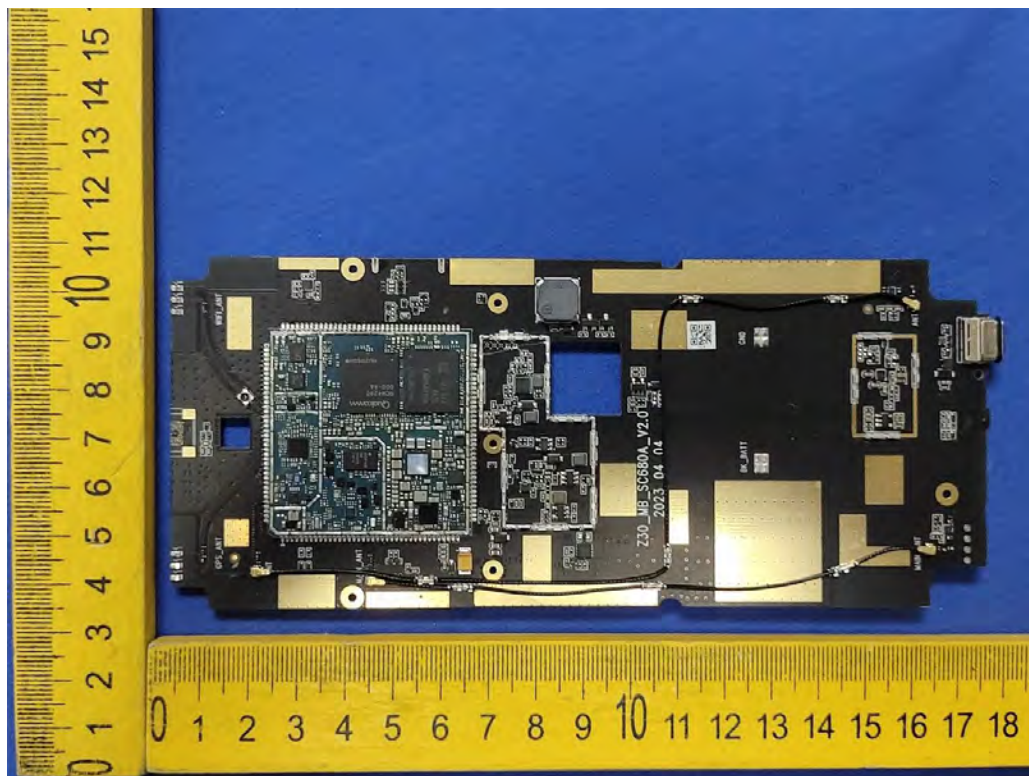


Fig. 24



Fig. 25



Fig. 26

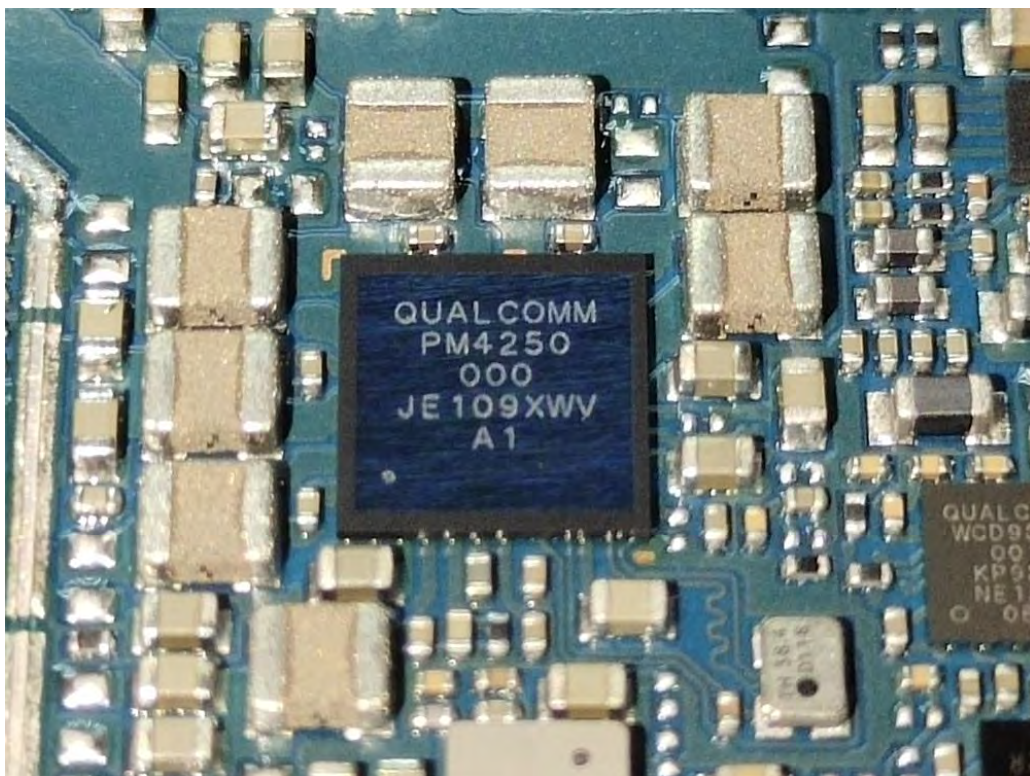


Fig. 27

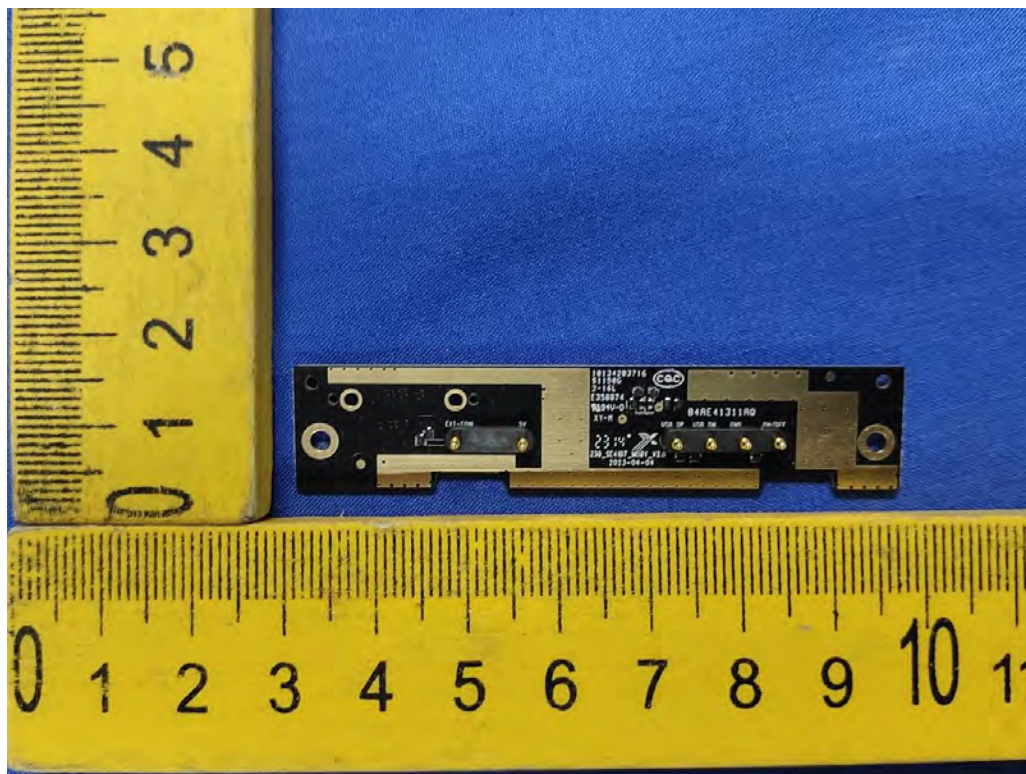


Fig. 28

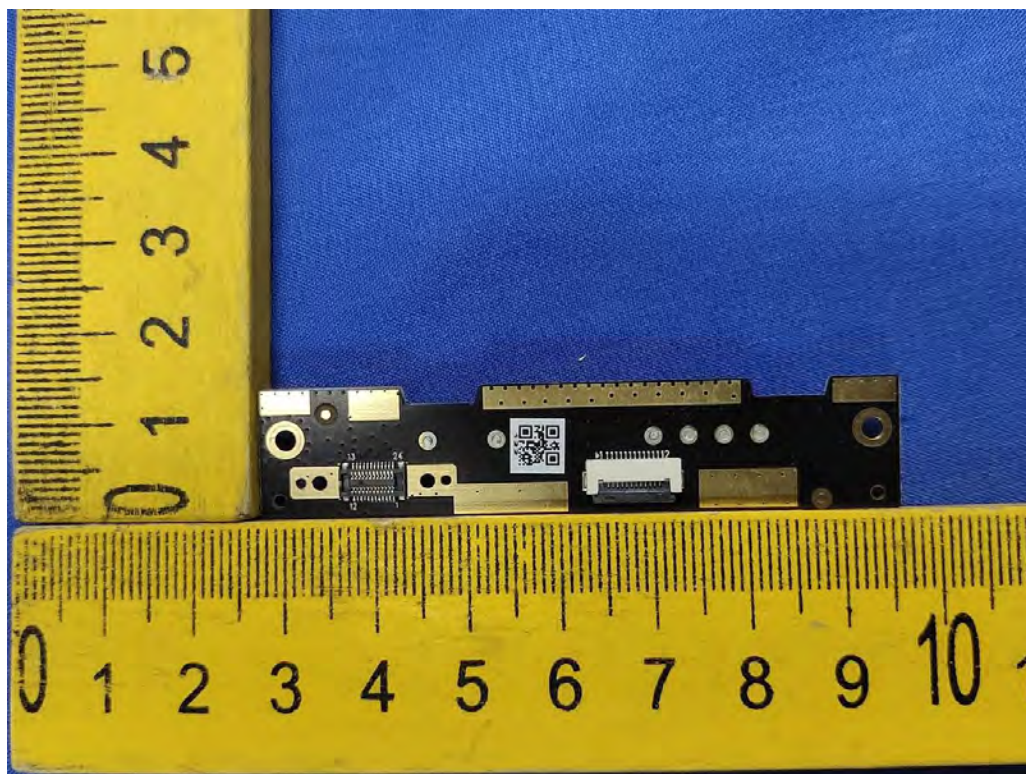


Fig. 29

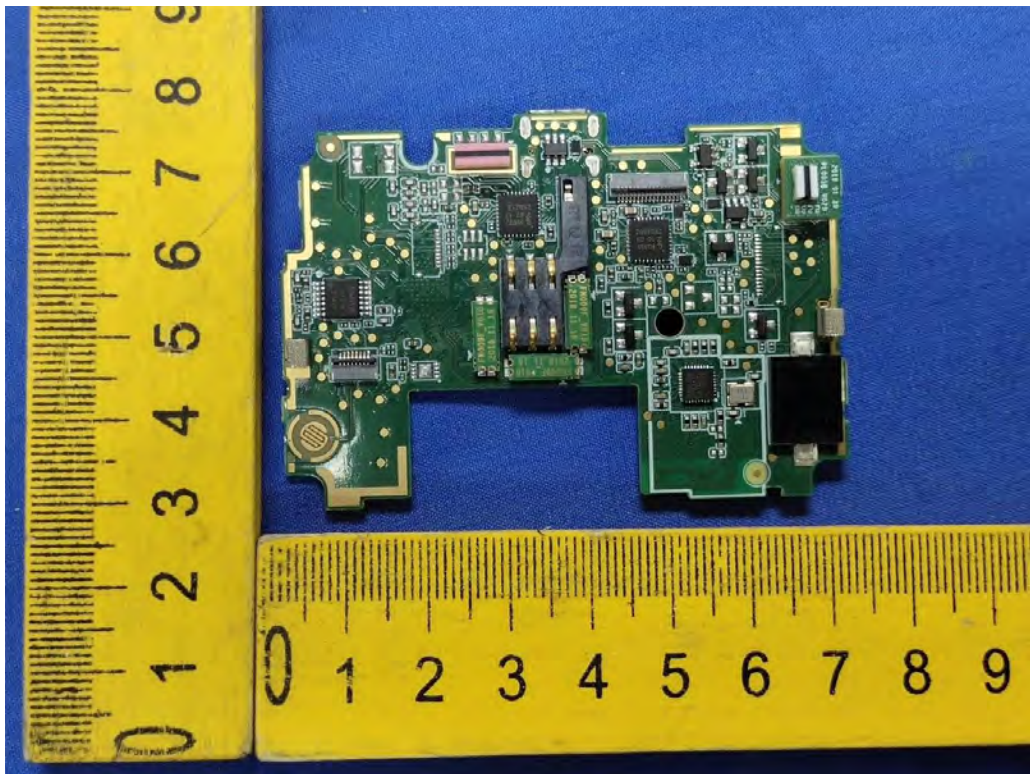


Fig. 30

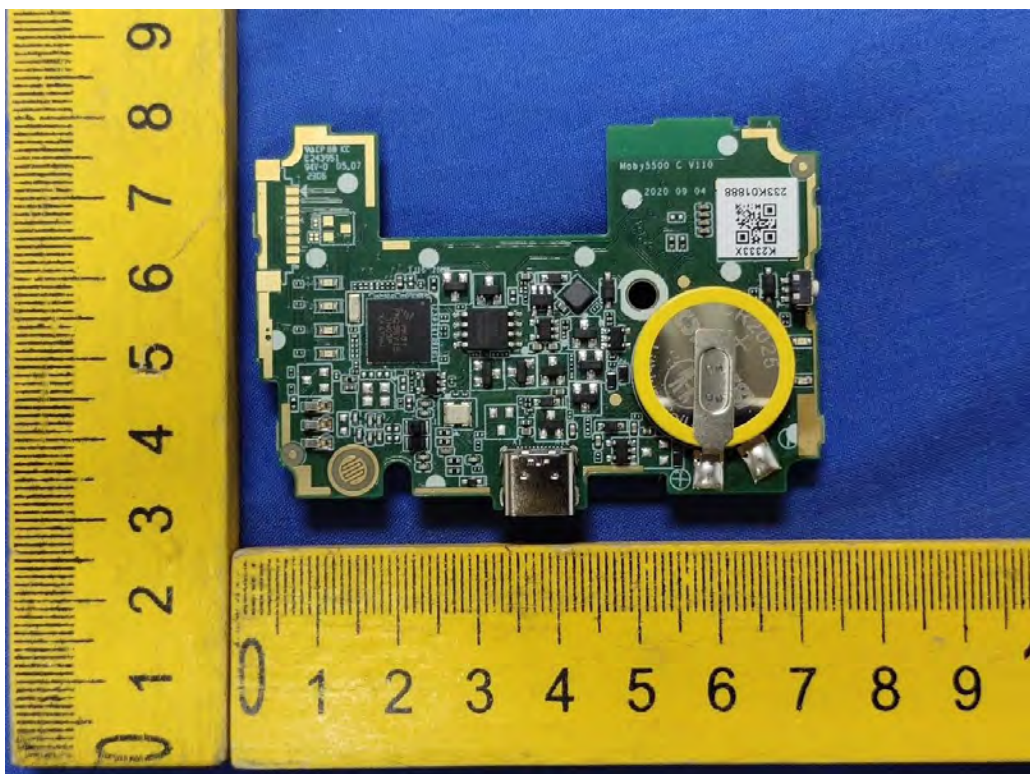


Fig. 31

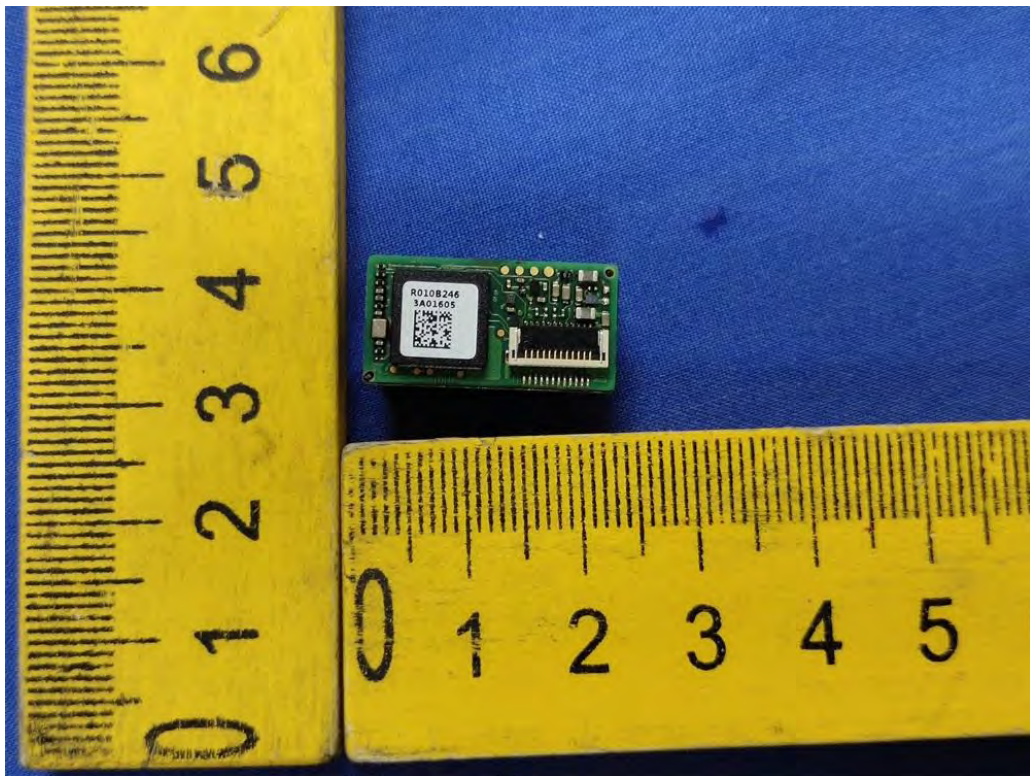


Fig. 32

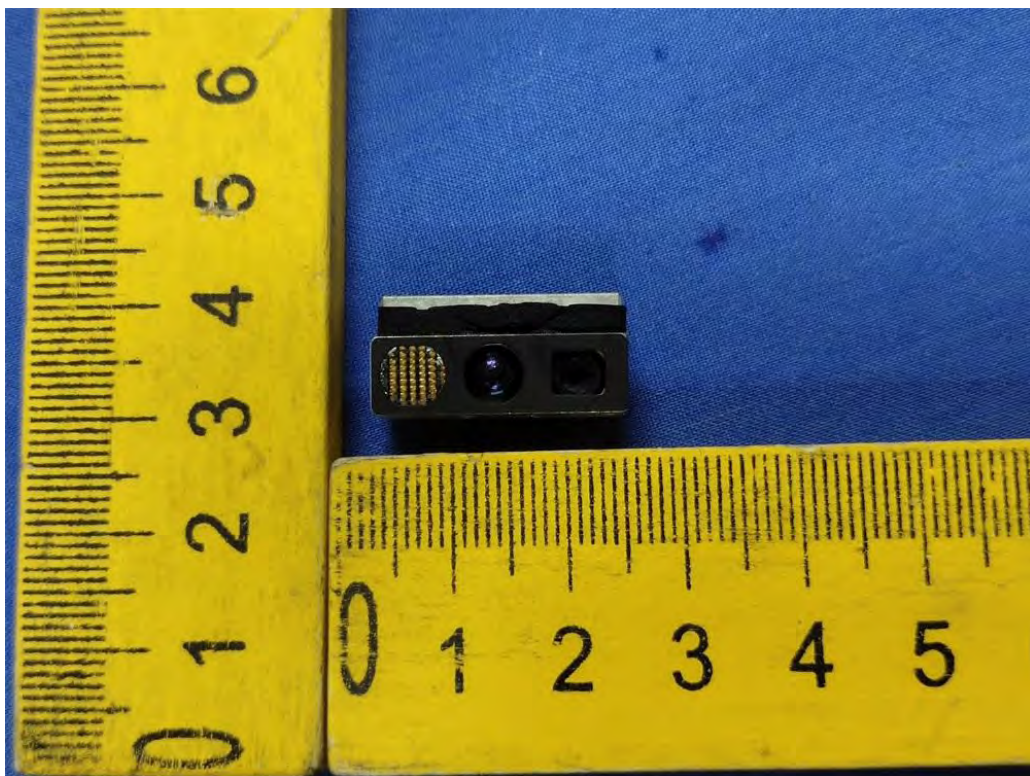


Fig. 33

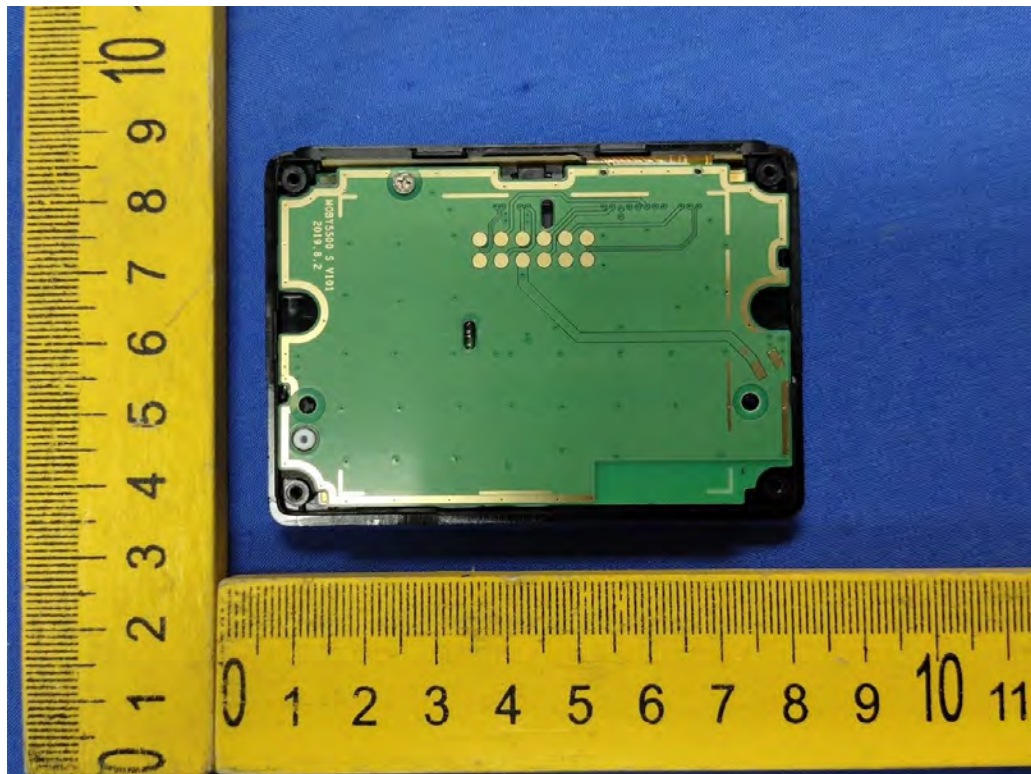


Fig. 34



Fig. 35

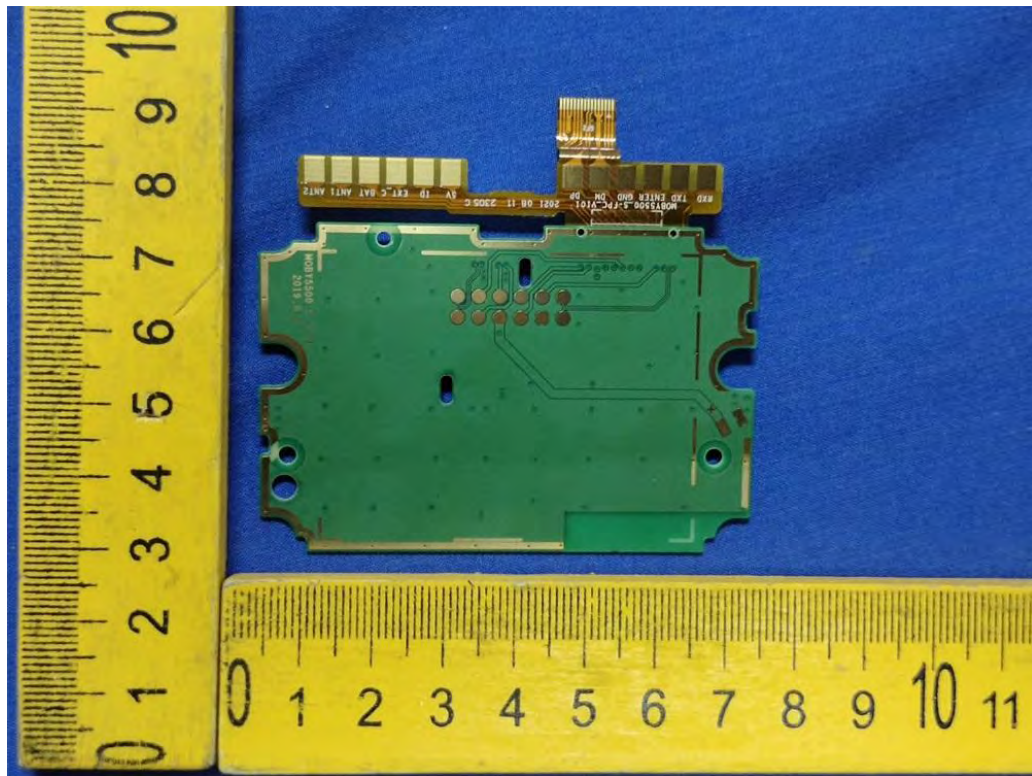


Fig. 36

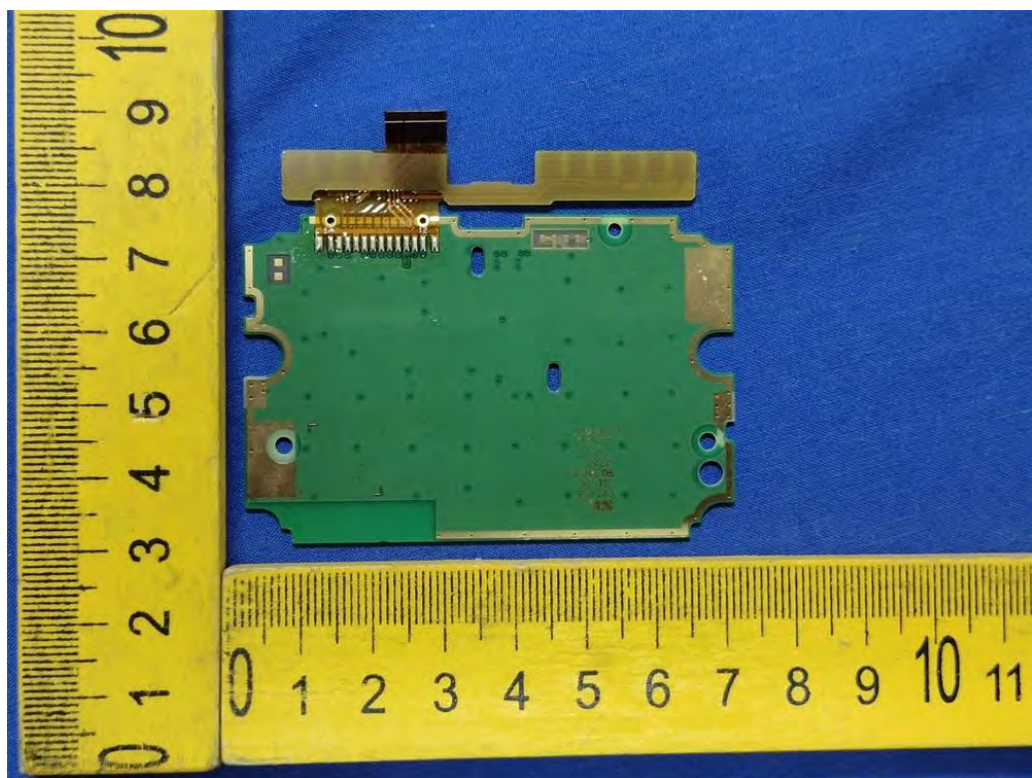


Fig. 37

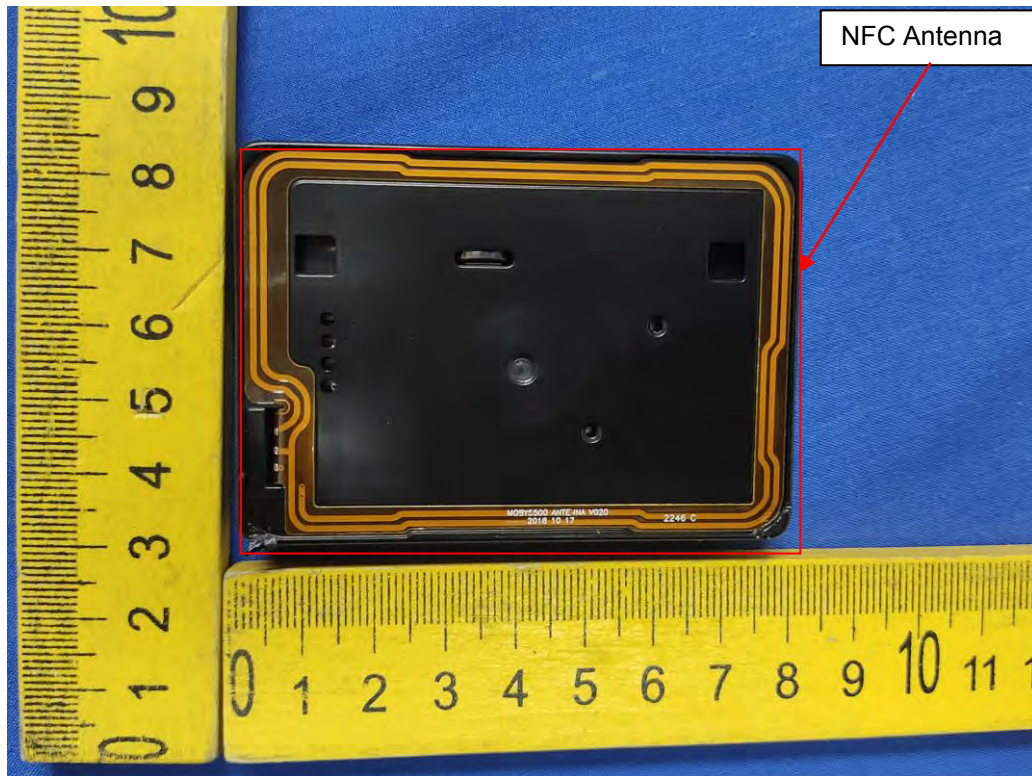


Fig. 38



Fig. 39

.....End of Report.....