

Applicant: Mego Afek AC ltd

Product: Tablet PC

Model No.: M-TA7

Trademark: N/A

Test Standards: FCC Part 15.247

Test Result: It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10, FCC Part 15.247 for

the evaluation of electromagnetic compatibility

Approved By

Terry long

Terry Tang

Manager

Dated: December 09, 2022

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

Report No.: TW2211112-02E Page 2 of 45

Date: 2022-12-09



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) — **Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

Page 3 of 45

Report No.: TW2211112-02E

Date: 2022-12-09



Test Report Conclusion

Content

1.0	General Details	4
1.1	Test Lab Details.	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Submitted Sample	4
1.5	Test Duration.	5
1.6	Test Uncertainty	5
1.7	Test By	5
2.0	List of Measurement Equipment	6
3.0	Technical Details	7
3.1	Summary of Test Results	7
3.2	Test Standards	7
4.0	EUT Modification.	7
5.0	Power Line Conducted Emission Test.	8
5.1	Schematics of the Test.	8
5.2	Test Method and Test Procedure.	8
5.3	Configuration of the EUT	8
5.4	EUT Operating Condition.	9
5.5	Conducted Emission Limit.	9
5.6	Test Result.	9
6.0	Radiated Emission test	12
5.1	Test Method and Test Procedure.	12
6.2	Configuration of the EUT	13
6.3	EUT Operation Condition.	13
6.4	Radiated Emission Limit.	13
7.0	6dB Bandwidth Measurement Bandwidth	23
8.0	Maximum Peak Output Power	28
9.0	Power Spectral Density Measurement.	30
10.0	Out of Band Measurement	35
11.0	Antenna Requirement	42
12.0	FCC ID Label	43
13.0	Photo of Test Setup and EUT View.	44

Date: 2022-12-09



1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

1.2 Applicant Details

Applicant: Mego Afek AC ltd

Address: Kibbutz Afek, 3004200, Israel

Telephone: +972-779084361

Fax: --

1.3 Description of EUT

Product: Tablet PC

Manufacturer: Crystel HK Limited

Address: Rm1803, 18th/F, Block East, YiHai Plaza, No.90 ChuangYe Rd, NanShan District,

518054, ShenZhen, China

Trademark: N/A
Additional Trademark: N/A
Model Number: M-TA7
Additional Model Number: N/A
Hardware Version: AK47-BT-V4.2
Software Version: M-TA7 20210728

Serial No.: 7290016330199

Type of Modulation GFSK (Bluetooth BLE)

Frequency range 2402-2480MHz Frequency Selection By software

Channel Number 40

Antenna: FPC antenna with gain 3.03dBi Max (Get from the antenna specification)

Rating: DC5V, 2.0 A

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2022-11-10 to 2022-12-09

The report refers only to the sample tested and does not apply to the bulk.

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Date: 2022-12-09



Page 5 of 45

1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty = 5%

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing

Date: 2022-12-09



2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2022-07-18	2023-07-17
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2022-07-15	2023-07-14
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/F A		2022-07-15	2023-07-14
RF Cable	Zhengdi	7m		2022-07-15	2023-07-14
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17

2.2 Automation Test Software

For Conducted Emission Test

Name	Version		
EZ-EMC	Ver.EMC-CON 3A1.1		

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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adopt any other remedies which may be appropriate.

Date: 2022-12-09



3.0 **Technical Details**

3.1 **Summary of test results**

Standard	Test Type	Result	Notes
CC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	Pass	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	Pass	Complies
CC Part 15, Paragraph 15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	Pass	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	Pass	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit:	Pass	Complies

3.2 **Test Standards**

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 **EUT Modification**

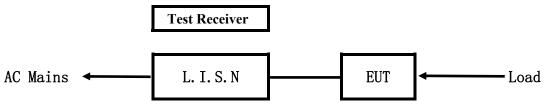
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

Date: 2022-12-09



5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

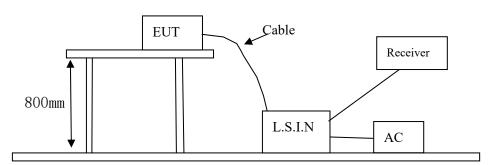


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
Tablet PC	Crystel HK Limited	M-TA7	2A9CI-M-TA7

Report No.: TW2211112-02E Page 9 of 45

Date: 2022-12-09



B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB μ V)				
(MHz)	Qua i-peak Level	Average Level			
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*			
$0.50 \sim 5.00$	56.0	46.0			
5.00 ~ 30.00	60.0	50.0			

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Date: 2022-12-09



A: Conducted Emission on Live Terminal (150kHz to 30MHz)

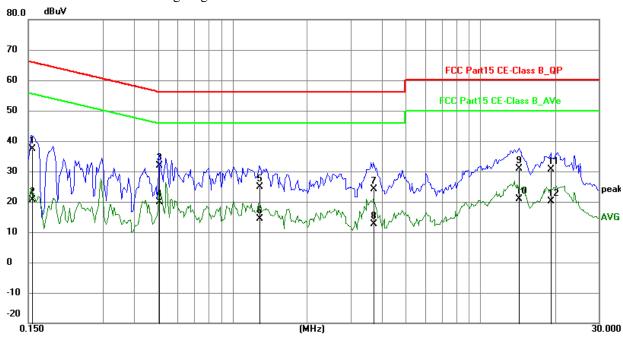
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1556	27.56	9.78	37.34	65.70	-28.36	QP	Р
2	0.1556	10.89	9.78	20.67	55.70	-35.03	AVG	Р
3	0.5049	22.13	9.77	31.90	56.00	-24.10	QP	Р
4	0.5049	10.23	9.77	20.00	46.00	-26.00	AVG	Р
5	1.2888	15.21	9.79	25.00	56.00	-31.00	QP	Р
6	1.2888	4.53	9.79	14.32	46.00	-31.68	AVG	Р
7	3.7059	14.29	9.87	24.16	56.00	-31.84	QP	Р
8	3.7059	2.83	9.87	12.70	46.00	-33.30	AVG	Р
9	14.3373	20.48	10.35	30.83	60.00	-29.17	QP	Р
10	14.3373	10.50	10.35	20.85	50.00	-29.15	AVG	Р
11	19.3137	19.87	10.64	30.51	60.00	-29.49	QP	Р
12	19.3137	9.53	10.64	20.17	50.00	-29.83	AVG	Р

Date: 2022-12-09



B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

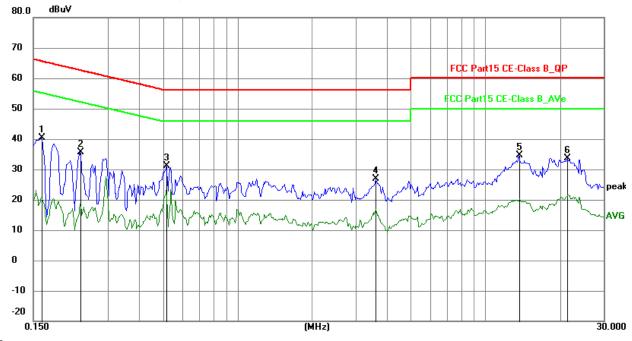
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1617	30.64	9.78	40.42	65.38	-24.96	peak	Р
2	0.2319	25.79	9.75	35.54	62.38	-26.84	peak	Р
3	0.5166	21.36	9.77	31.13	56.00	-24.87	peak	Р
4	3.6123	16.97	9.87	26.84	56.00	-29.16	peak	Р
5	13.6665	24.21	10.32	34.53	60.00	-25.47	peak	Р
6	21.3845	22.75	10.77	33.52	60.00	-26.48	peak	Р

Report No.: TW2211112-02E Page 12 of 45

Date: 2022-12-09

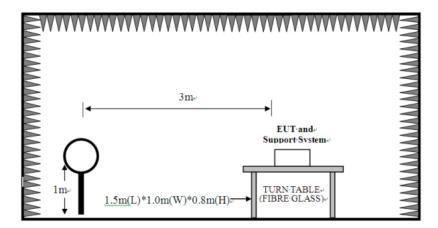


6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



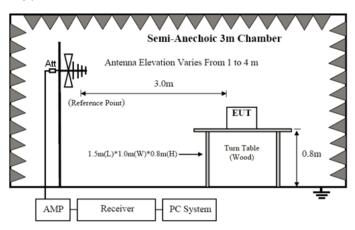
Page 13 of 45

Report No.: TW2211112-02E

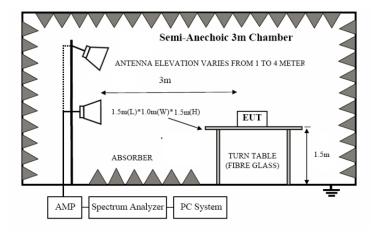
Date: 2022-12-09



For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT

 Same as section 5.3 of this report
- 6.3 EUT Operating Condition

 Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Report No.: TW2211112-02E Page 14 of 45

Date: 2022-12-09



Frequencies in restricted band are complied to limit on Paragraph 15.209

	•	
Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 5. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
- 6. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

Date: 2022-12-09



Test result

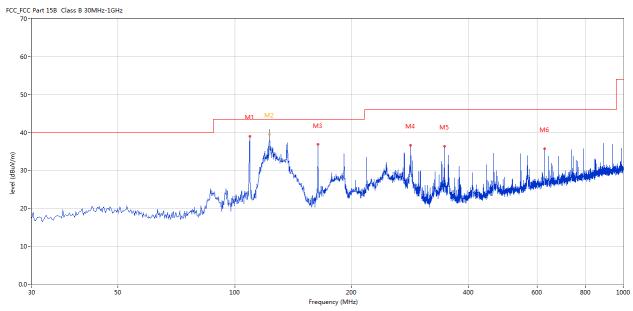
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Test Figure:



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	109.278	39.08	-13.56	43.5	-4.42	Peak	0.00	200	Horizontal	Pass
2*	122.846	39.53	-15.83	43.5	-3.97	QP	0.00	197	Horizontal	Pass
3	163.827	36.85	-16.31	43.5	-6.65	Peak	217.00	200	Horizontal	Pass
4	283.592	36.60	-11.37	46.0	-9.40	Peak	360.00	100	Horizontal	Pass
5	346.383	36.34	-9.46	46.0	-9.66	Peak	308.00	100	Horizontal	Pass
6	627.856	35.74	-4.97	46.0	-10.26	Peak	0.00	200	Horizontal	Pass

Date: 2022-12-09



Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**

Results: Pass

Test Figure:

No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1*	87.527	29.13	-15.67	40.0	-10.87	QP	13.00	100	Vertical	Pass
2*	109.182	37.87	-13.56	43.5	-5.63	QP	199.00	110	Vertical	Pass
3*	122.853	26.17	-15.83	43.5	-17.33	QP	278.00	100	Vertical	Pass
4*	163.774	39.53	-16.31	43.5	-3.97	QP	0.00	101	Vertical	Pass
5	245.529	33.59	-12.21	46.0	-12.41	Peak	347.00	200	Vertical	Pass
6	463.967	34.76	-7.75	46.0	-11.24	Peak	347.00	200	Vertical	Pass

Report No.: TW2211112-02E Page 17 of 45

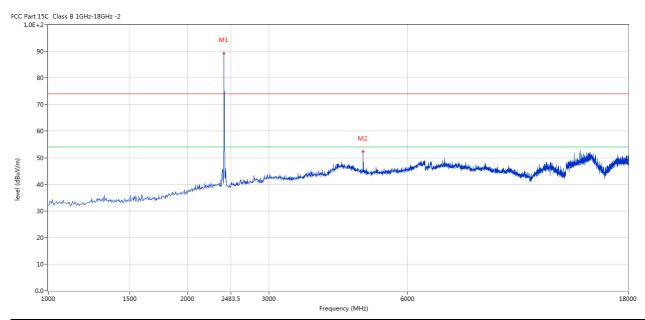
Date: 2022-12-09



Test Figures above 1GHz:

Please refer to the following test plots for details:

Low Channel: Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	89.27	-3.57	74.0	15.27	Peak	73.00	100	Horizontal	N/A
2	4802.799	52.30	3.12	74.0	-21.70	Peak	57.00	100	Horizontal	Pass

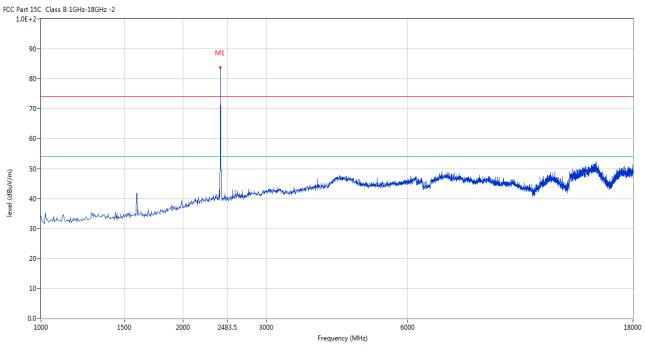
Page 18 of 45

Report No.: TW2211112-02E

Date: 2022-12-09



Low Channel: Vertical



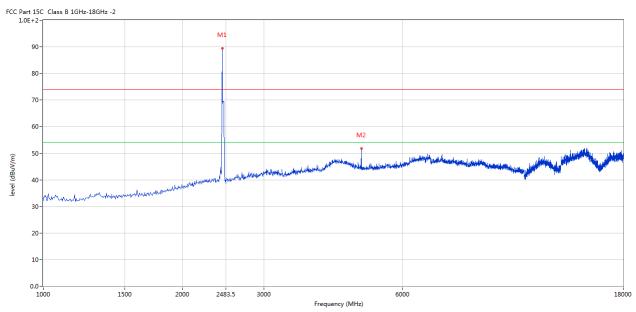
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	83.79	-3.57	74.0	9.79	Peak	192.00	100	Vertical	N/A

Page 19 of 45

Report No.: TW2211112-02E Date: 2022-12-09



Middle Channel: Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	89.48	-3.57	74.0	15.48	Peak	58.00	100	Horizontal	N/A
2	4879.280	51.85	3.20	74.0	-22.15	Peak	58.00	100	Horizontal	Pass

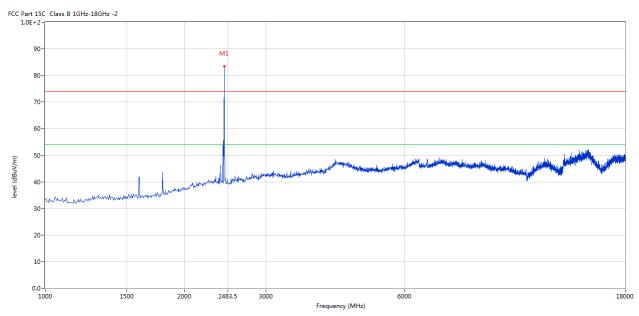
Page 20 of 45

Report No.: TW2211112-02E

Date: 2022-12-09



Middle Channel: Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	83.41	-3.57	74.0	9.41	Peak	192.00	100	Vertical	N/A

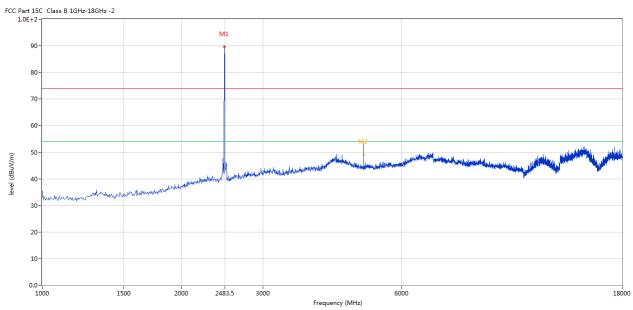
Page 21 of 45

Report No.: TW2211112-02E

Date: 2022-12-09



High Channel: Horizontal



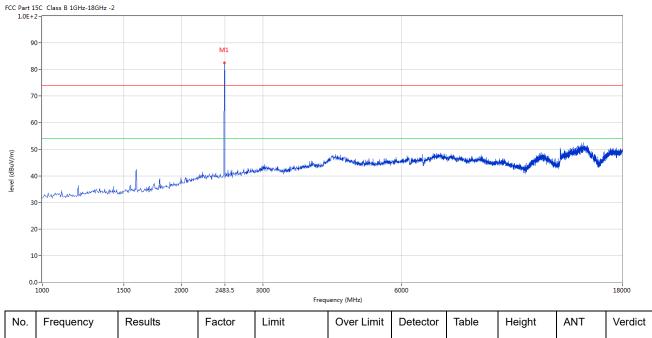
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	89.60	-3.57	74.0	15.60	Peak	77.00	100	Horizontal	N/A
2	4960.010	53.94	3.36	74.0	-20.06	Peak	67.00	100	Horizontal	Pass
2**	4960.010	49.02	3.36	54.0	-4.98	AV	67.00	100	Horizontal	Pass

Report No.: TW2211112-02E Page 22 of 45

Date: 2022-12-09



High Channel: Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	82.48	-3.57	74.0	8.48	Peak	360.00	100	Vertical	N/A

Note: 1. Level = Reading + AF + Cable - Preamp

- 2. For the radiated emissions above 18G, it is the floor noise.
- 3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

Page 23 of 45

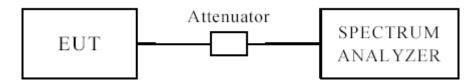
Report No.: TW2211112-02E

Date: 2022-12-09



7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

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

7.4 Test Result

Report No.: TW2211112-02E Page 24 of 45

Date: 2022-12-09



6dB BW

EUT	Т	ablet PC		Model	M-TA7
Mode	Tode Keep Transmitting		Input Voltage		DC5.0V
Temperat	re 24 deg. C,		Humidity		56% RH
Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)		Minimum Lim	it Pass/ Fail
Low	2402	739 50		500	Pass
Middle	2440	752		500	Pass
High	2480	745		500	Pass

Page 25 of 45

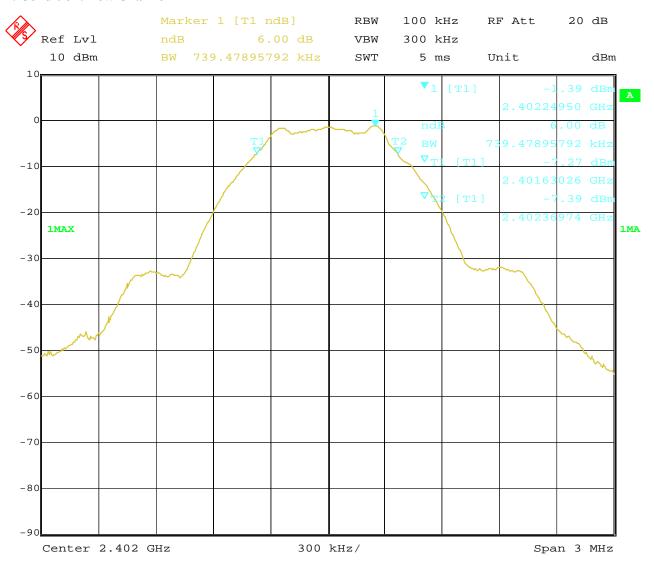
Report No.: TW2211112-02E

Date: 2022-12-09



Test Figure:

1. Condition: Low Channel



Date: 5.DEC.2022 11:59:45

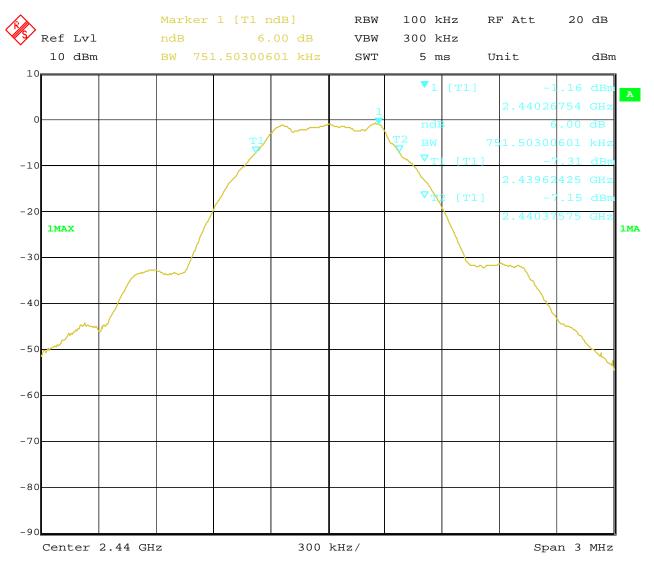
Page 26 of 45

Report No.: TW2211112-02E

Date: 2022-12-09



2. Condition: Middle Channel



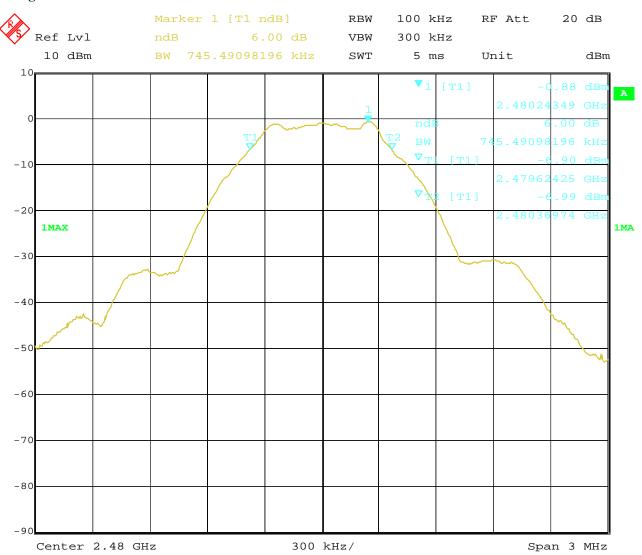
Date: 5.DEC.2022 12:06:35

Report No.: TW2211112-02E Page 27 of 45

Date: 2022-12-09



3. High Channel



Date: 5.DEC.2022 12:10:28

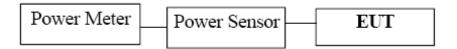
Report No.: TW2211112-02E Page 28 of 45

Date: 2022-12-09



8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the AV power were measured.

Page 29 of 45 Report No.: TW2211112-02E

Date: 2022-12-09



8.4Test Results

EUT		7	Tablet PC	Model			M-TA7
Mode		Keep	Transmitting	Input Voltage		DC5.0V	
Temperatu	re	2	24 deg. C, Humidity		,	56% RH	
Channel	Cł	nannel Frequency	Max. Power Output	t (dBm)		Power	Pass/ Fail
Chamer		(MHz)	AV			Bm)	
Low		2402	-6.67			30	Pass
Middle		2440	-6.29			30	Pass
High	h 2480		-6.14			30	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

Page 30 of 45

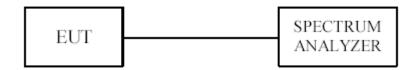
Report No.: TW2211112-02E

Date: 2022-12-09



9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

9.3 Test Procedure

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW = 10 kHz.
- 3. Set the VBW \geq 30 kHz.
- 4. Set the span to 1.5 times the DTS channel bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 11. The resulting peak PSD level must be $\leq 8 \text{ dBm/3kHz}$.

Page 31 of 45 Report No.: TW2211112-02E

Date: 2022-12-09



9.4Test Result

EUT		Tablet I	PC PC		Model	M-TA7			
Mode		Keep Transmitting			Keep Transmitting		Input Voltage		DC5.0V
Temperatur	e	24 deg.	C,	Humidity		56% RH			
	Peak Power	Cable	Final Power Spects	ral	Maximum				
Channel	Reading	Loss	Density		Limit	Pass/ Fail			
	(dBm)	(dB)	(dBm/10kHz)		(dBm/3kHz))			
Low	-10.47	0.2	-10.27		8	Pass			
Middle	-10.19	0.2	-9.99		8	Pass			
High	-9.73	0.2	-9.53		8	Pass			

Note: The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss

Page 32 of 45

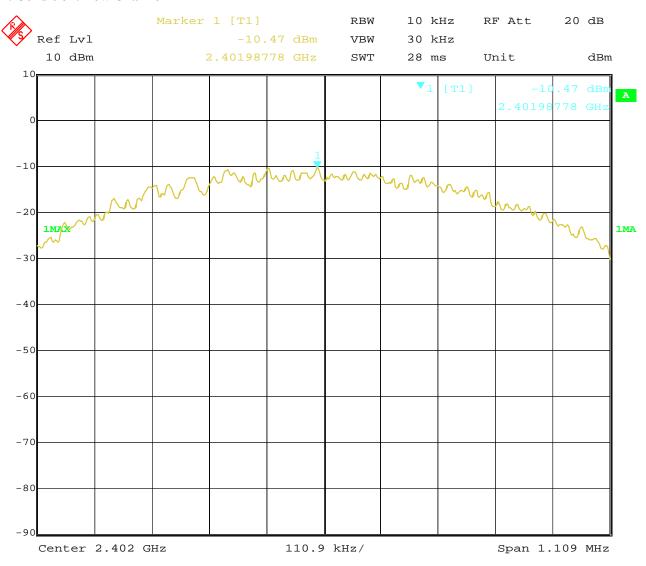
Report No.: TW2211112-02E

Date: 2022-12-09



Test Figure:

1. Condition: Low Channel



Date: 5.DEC.2022 12:23:30

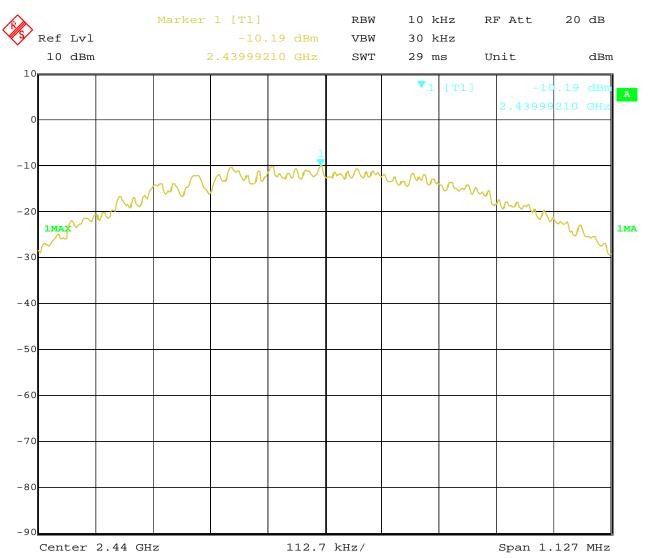
Page 33 of 45

Report No.: TW2211112-02E

Date: 2022-12-09



2. Condition: Middle Channel



Date: 5.DEC.2022 12:25:40

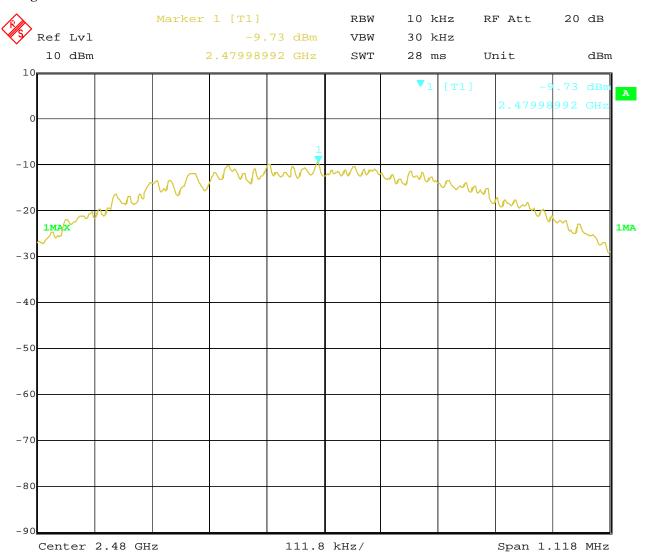
Page 34 of 45

Date: 2022-12-09

Report No.: TW2211112-02E



3. High Channel



Date: 5.DEC.2022 12:29:55

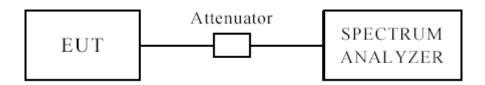
Page 35 of 45

Report No.: TW2211112-02E

Date: 2022-12-09



10 Out of Band Measurement 10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

Page 36 of 45

Report No.: TW2211112-02E

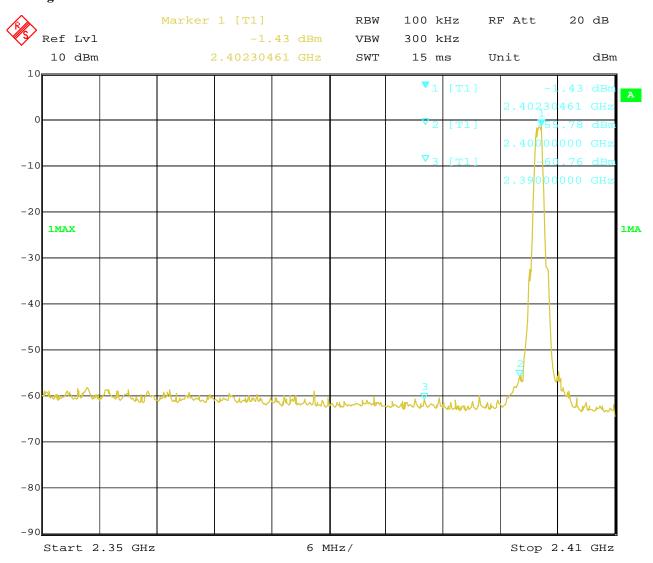
Date: 2022-12-09



10.4 Band-edge Measurement

EUT	Tablet PC	Model	M-TA7
Mode	Keep Transmitting	Input Voltage	DC5.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 5.DEC.2022 12:42:17

Page 37 of 45

Date: 2022-12-09

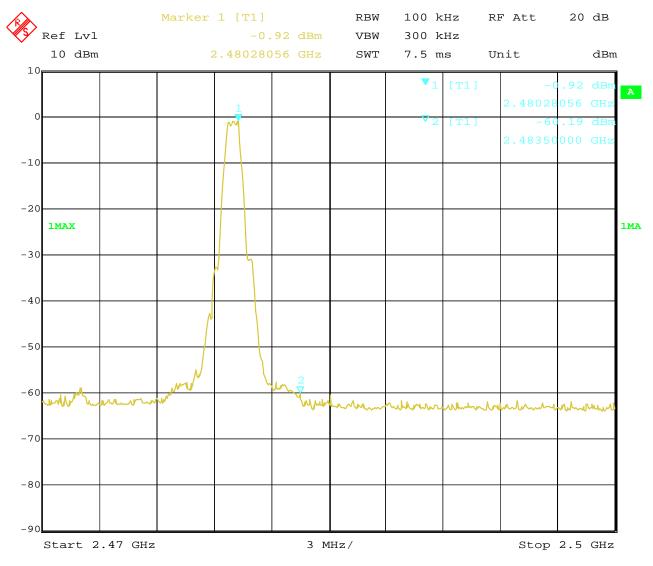


10.4 Band-edge Measurement

Report No.: TW2211112-02E

EUT	Tablet PC	Model	M-TA7
Mode	Keeping Transmitting	Input Voltage	DC5.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 5.DEC.2022 12:37:21

Page 38 of 45

Report No.: TW2211112-02E

Date: 2022-12-09



10.4 Restrict Band Measurement

EUT			Tablet PC			Model		M-TA		,	
Mode			Keep Transmitting			Input Voltage		DC5.0V		I	
Temperature			24 deg. C,			Humidity		56% RI		H	
Te	est Result:		-	Pass							
C Part :	L5C Class B 1GHz-18GHz 2-	-2									
	10-							ı	M1		
								4	M		
8	30-							/			
7	70-										
6	60-										
								M2	<u> </u>		
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2	0-	Results	Factor		Frequency (MHz) Over Limit	Detector	Table	Height	ANT	1	
2	0					Detector	Table (o)	Height (cm)	ANT	1	
E/Andr) 2	00- 00- 00- 00- 00- 00- 00- 00- 00- 00-	Results	Factor	Limit	Over Limit	Detector		_	ANT Horizontal	1	
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)		(0)	(cm)		Verdict	
No.	Frequency (MHz) 2401.692	Results (dBuV/m) 89.49	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Over Limit (dB)	Peak	(o) 58.00	(cm)	Horizontal	Verdict	

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

Page 39 of 45

Report No.: TW2211112-02E

Date: 2022-12-09



10.4 Restrict Band Measurement

EUT		Tablet PC				Model		M-TA7		1,	
	Mode	Keep Transmitting				Input Voltage			DC5.0V		
Temperature		24 deg. C,				Humidity		56% RH		RH	
Te	est Result:		Pa	ass							
	15C Class B 1GHz-18GH	z -2									
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8	30-								/\\\		
7	70-										
,	50-							J			
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2	20-	And the second s	de and my Philipping Statement Self Statement	And the second s						24	
2	20-	en e	de an en refigiere l'anneau de la contraction de		Frequency (MHz)					24	
1 0	20-	Results	Factor	Limit	Frequency (MHz) Over Limit	Detector	Table	Height	ANT	24 Verdict	
1 0	20-					Detector	Table (o)	Height (cm)	ANT	1	
1 0 No.	20- 10- 2350 Frequency	Results	Factor	Limit	Over Limit	Detector Peak		_	ANT Vertical	1	
1 1 0 No.	20- 10- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)		(0)	(cm)		Verdict	
1 1 0 No.	Frequency (MHz) 2401.722	Results (dBuV/m) 84.66	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Over Limit (dB)	Peak	(o) 176.00	(cm)	Vertical	Verdict N/A	
1 1 0 0 No.	Frequency (MHz) 2401.722 2400.000	Results (dBuV/m) 84.66 60.40	Factor (dB) -3.57	Limit (dBuV/m) 74.0 74.0	Over Limit (dB) 10.66 -13.60	Peak Peak	(o) 176.00 72.14	(cm) 100 100	Vertical Vertical	Verdict N/A Pass	
11 0 0 No.	Frequency (MHz) 2401.722 2400.000 2400.000	Results (dBuV/m) 84.66 60.40 46.31	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 54.0	Over Limit (dB) 10.66 -13.60 -7.69	Peak Peak AV	(o) 176.00 72.14 72.14	(cm) 100 100 100	Vertical Vertical Vertical	Verdict N/A Pass Pass	
2	Frequency (MHz) 2401.722 2400.000 2390.000	Results (dBuV/m) 84.66 60.40 46.31 42.13	Factor (dB) -3.57 -3.57 -3.57 -3.53	Limit (dBuV/m) 74.0 74.0 54.0 74.0	Over Limit (dB) 10.66 -13.60 -7.69 -31.87	Peak Peak AV Peak	(o) 176.00 72.14 72.14 301.67	(cm) 100 100 100 100	Vertical Vertical Vertical Vertical	Verdict N/A Pass Pass Pass	

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

Page 40 of 45 Report No.: TW2211112-02E

Date: 2022-12-09



10 4 Pactrict Rand Massurament

	EUT				M-TA7					
	Mode		Keep Transmitting			Input Voltage Humidity		DC5.0V 56% RH		I
Te	mperature	24 deg. C,								H
Τe	est Result:		Pa	ISS						
Part 1	15C Class B 1GHz-18GH	z -2			l .					
1.0E+	2-		M1							
g	0-		MA PL)hPho.						
8	80-		A N	***\\\						
7	70-									
-	60-		AND AND	W.						
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4	10-	acan the said to be a supple of the said o	Y	N	12 MANAGEMENT	hadaya madda Mariba	oki irokiji kopolovski	mydlan,dlang	potpoit pritigit iditusi spilisi	High and beautiful property of
3	10 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	Maritha Hallon ball ballon and hall ballon and	γ	N	12 Marina	landing on the landing of	diodynymadi	mydlatratratra	orthodoxidadishiddishiddi	Marin Wall
3		Harrist Andrews and the second	Y	N	12 Mary Mary Mary Mary Mary Mary Mary Mary	ludge vallat eiler	oliyahiya qorta	Mydderid y drawy	pol _{le} nik _t aid _a nitaitai	"Market only of
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4 3 2	0-	Harrist Andrews and the second	Y	244	**************************************	han an a	oljudhjiriyjaturdia	Mydderathaisen	portparting the parting the last and parting	
4 3 2 1	0-	Results	Factor	Limit 24	33.5	Detector	Table	Height	ANT	
4 3 2 1	0-2470	Results (dBuV/m)	Factor (dB)	T	33.5 Frequency (MHz)					2:
4 3 2 1	00- 00- 00- 00- 02470			Limit	83.5 Frequency (MHz) Over Limit		Table	Height		2:
3 2	Frequency (MHz)	(dBuV/m)	(dB)	Limit (dBuV/m)	33.5 Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2: Verdic

Report No.: TW2211112-02E Page 41 of 45

Date: 2022-12-09



10.4 Restrict Band Measurement

	EUT		Tablet	t PC		Mod	el		M-TA7	1
	Mode Keep Transmitti					Input Voltage		DC5.0V		
Temperature			24 deg. C,			Humic		56% RI		
	est Result:		Pass							
CC Part 1	5C Class B 1GHz-18GHz	-2		<u>-</u>						
1.0E+2	2-									
90	0-		M1							
80	0-		My Market							
7(0-		1							
				'h						
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30										
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30 20 10	0-			2497.5						3500
30 20 10	0-			2483.5 Free	quency (MHz)					2500
20 10	0-	Results	Factor		ouency (MHz) Over Limit	Detector	Table	Height	ANT	2500 Verdict
30 20 10	0-2470	Results (dBuV/m)	Factor (dB)	Fred		Detector	Table (o)	Height (cm)	ANT	ı
20 10	Prequency			Limit	Over Limit	Detector Peak		_	ANT Vertical	ı

Date: 2022-12-09



Page 42 of 45

11.0 Antenna Requirement

11.1 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 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

FPC antenna with gain 3.03dBi Max (Get from the antenna specification)

Report No.: TW2211112-02E Page 43 of 45

Date: 2022-12-09



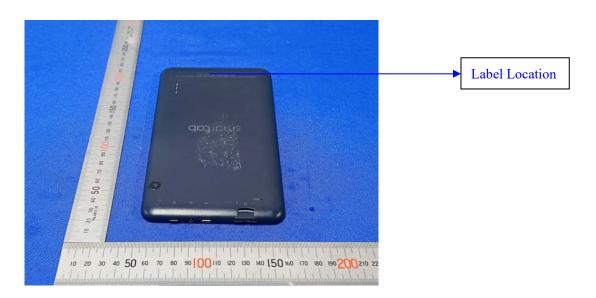
12.0 FCC ID Label

FCC ID: 2A9CI-M-TA7

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



Page 44 of 45

Report No.: TW2211112-02E

Date: 2022-12-09



13.0 **Photo of testing**

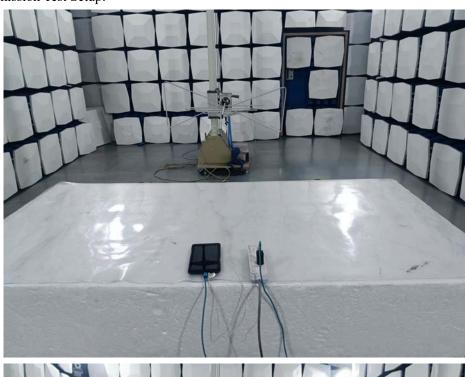
Conducted Emission Test Setup:



Date: 2022-12-09



Radiated Emission Test Setup:





Photographs - EUT

Please refer test report TW2211112-01E

End of the report

The report refers only to the sample tested and does not apply to the bulk.

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