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Report Template Version: V03 Revision Issue Date: Mar.1st,2017

# **RF Test Report**

Applicant:	Tinylogics Ltd
Address of Applicant:	St John's Innovation Centre, Cowley Road, Cambridge, United Kingdom CB4 0WS
Manufacturer:	Tinylogics Ltd
Address of Manufacturer:	St John's Innovation Centre, Cowley Road, Cambridge, United Kingdom CB4 0WS
Factory:	Tinylogics Ltd
Address of Factory:	St John's Innovation Centre, Cowley Road, Cambridge, United Kingdom CB4 0WS
Equipment Under Test (E	UT):
Product:	Memo Box Mini, Memo Box Mini 7, Memo Box 7-Day
Model No.:	M1603, M1604
Test Model No.:	M1603
Brand Name:	Memo Box
FCC ID:	2AH3P-M1603
Standards:	47 CFR Part 15, Subpart C
Date of Test:	2017-03-25 to 2017-04-17
Date of Issue:	2017-04-17
Report No.:	CQASZ170301346E-01
Test Result :	PASS*

Jaron Ma (Aaron Ma) Tested By:

Jack Ai)

Then the **Reviewed By:** (Owen Zhou)

Approved By:



\* In the configuration tested, the EUT complied with the standards specified above.



## **Revision History Of Report**

Report No.	Version	Description	Issue Date
CQASZ170301346E-01	Rev.01	Initial report	2017-04-17



# 3 Test Summary

Test Item	est Item Test Requirement		Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	N/A
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	ity 47 CFR Part 15, Subpart C Section ANSI C63.10 201		PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section ANSI C63.10 2013 15.205/15.209		PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS

N/A: Not Applicable, When charging, BLE will not work.



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# **5** General Information

## 5.1 Client Information

Applicant:	Tinylogics Ltd
Address of Applicant:	St John's Innovation Centre, Cowley Road, Cambridge, United Kingdom CB4 0WS
Manufacturer:	Tinylogics Ltd
Address of Manufacturer:	St John's Innovation Centre, Cowley Road, Cambridge, United Kingdom CB4 0WS
Factory:	Tinylogics Ltd
Address of Factory:	St John's Innovation Centre, Cowley Road, Cambridge, United Kingdom CB4 0WS

## 5.2 General Description of EUT

Product Name:	Memo Box Mini, Memo Box Mini 7, Memo Box 7-Day
Model No.:	M1603, M1604
Test Model No.:	M1603
Trade Mark:	Memo Box
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.0 BLE
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	Portable production
Test Software of EUT:	RF Test (manufacturer declare)
Antenna Type:	Ceramic antenna
Antenna Gain:	0dBi
Power Supply:	Rechargeable li-ion battery: DC3.7V Charging by USB: DC5V



### Model differences list

Product picture	Product name	Product model
	Memo Box Mini	M1603
	Memo Box Mini 7	M1604
	Memo Box 7-Day	M1603

Note: Only the model M1603(Memo Box Mini) was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being appearance, product name and model name.



Operation F	Operation Frequency each of channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz



## 5.3 Test Environment

Operating Environment	Operating Environment:			
Temperature:	25.0 °C			
Humidity:	53 % RH			
Atmospheric Pressure:	1010mbar			
Test Mode:	Use test software (RF test) to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT. Note: In the process of transmitting of EUT, the duty cycle >98%.			

## 5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
PC	Lenovo	Lenovo ideapad 100-14IBY	Provide by lab	DOC

### 5.5 Test Location

All tests were performed at:

Shenzhen Tongce Testing Lab,

1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

### 5.6 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 Tongce Testing Lab**. 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.

Test	Range	Uncertainty	Notes
Radiated Emission	Below 1GHz	±3.92dB	(1)
Radiated Emission	Above 1GHz	±4.28dB	(1)
Conducted Disturbance	0.15~30MHz	±2.56dB	(1)

Hereafter the best measurement capability for TCT laboratory is reported:

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



## 5.7 Test Facility

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

### FCC – Registration No.: 572331

**Shenzhen Tongce Testing Lab** 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 572331

### 5.8 Deviation from Standards

None.

### 5.9 Abnormalities from Standard Conditions

None.

### **5.10Other Information Requested by the Customer**

None.





## 5.11 Equipment List

					Calibration
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Due Date
1	ESPI Test Receiver	R&S	ESVD	100008	2017/08/11
2	Spectrum Analyzer	R&S	FSEM	848597/001	2017/08/11
3	Spectrum Analyzer	Agilent	N9020A	MY49100060	2017/08/12
		EM Electronics			
		Corporation			
4	Pre-amplifier	CO.,LTD	EM30265	07032613	2017/08/11
5	Pre-amplifier	HP	8447D	2727A05017	2017/08/11
6	Loop antenna	ZHINAN	ZN30900A	12024	2017/08/13
7	Broadband Antenna	R&S	VULB9163	340	2017/08/13
8	Horn Antenna	R&S	BBHA 9120D	631	2017/08/13
9	Horn Antenna	R&S	BBHA 9170	373	2017/08/13
10	Antenna Mast	CCS	CC-A-4M	N/A	N/A
	Coax cable				
11	(9KHz~40GHz)	тст	RE-low-01	N/A	2017/08/11
	Coax cable				
12	(9KHz~40GHz)	тст	RE-high-02	N/A	2017/08/11
	Coax cable				
13	(9KHz~40GHz)	тст	RE-low-02	N/A	2017/08/11
	Coax cable				
14	(9KHz~40GHz)	тст	RE-high-04	N/A	2017/08/11
15	Spectrum Analyzer	R&S	FSU	200054	2017/08/11
16	Antenna Connector	тст	RFC-01	N/A	2017/08/12
17	RF cable(9KHz~40GHz)	тст	RE-06	N/A	2017/08/12

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



## 6 Test results and Measurement Data

## 6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

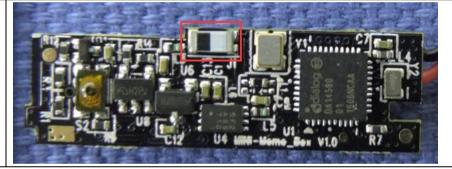
#### 15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### EUT Antenna:



The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.



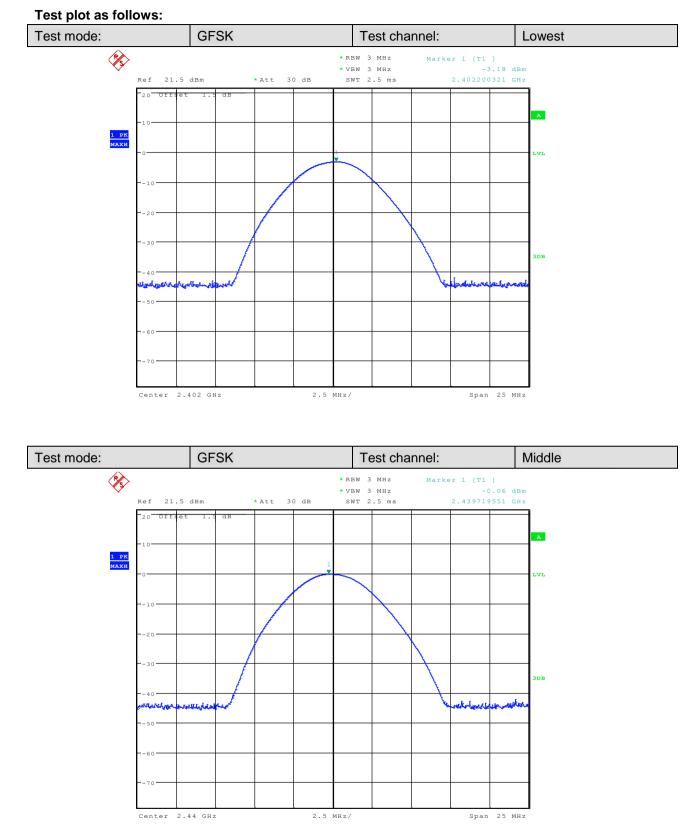
# 6.2 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)		
Test Method:	ANSI C63.10 2013		
Test Setup:	ANSI C63.10 2013		
	Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.		
Limit:	30dBm		
Test Mode:	Transmitting with GFSK modulation.		
Instruments Used:	Refer to section 5.10 for details.		
Test Results:	Pass		

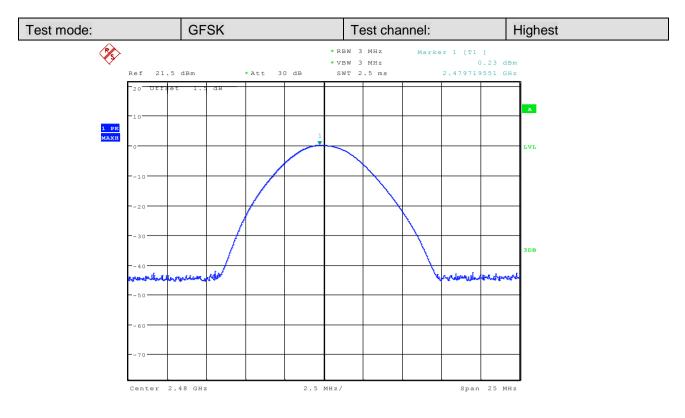
#### **Measurement Data**

	GFSK mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	-3.18	30.00	Pass		
Middle	-0.06	30.00	Pass		
Highest	0.23	30.00	Pass		











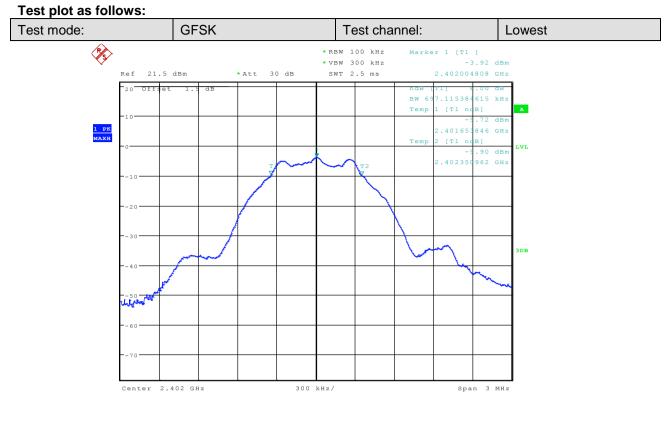
# 6.3 6dB Occupy Bandwidth

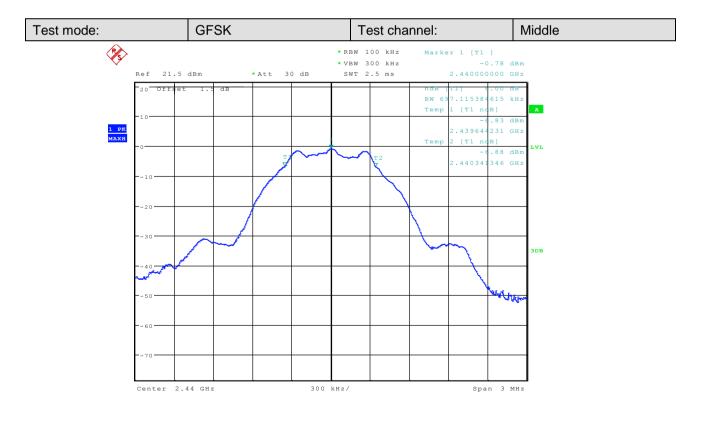
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)	
Test Method:	ANSI C63.10 2013	
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Limit: ≥ 500 kHz		
Test Mode:	Transmitting with GFSK modulation.	
Instruments Used:	Refer to section 5.10 for details.	
Test Results:	Pass	

#### **Measurement Data**

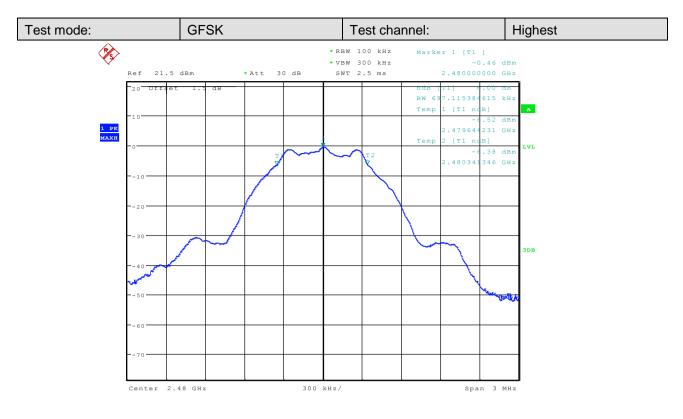
	GFSK mode					
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	0.697	≥500	Pass			
Middle	0.697	≥500	Pass			
Highest	0.697	≥500	Pass			





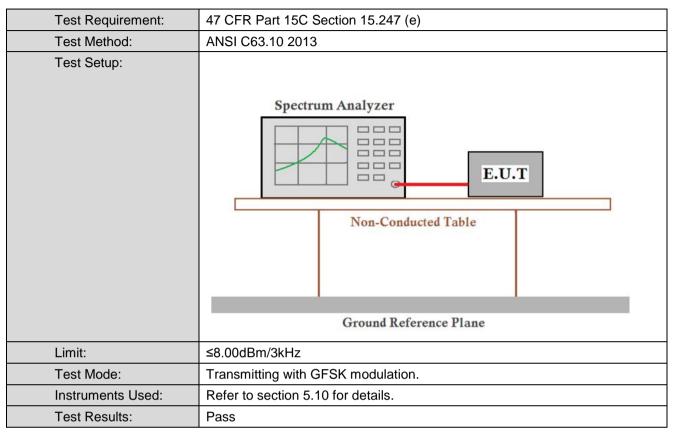








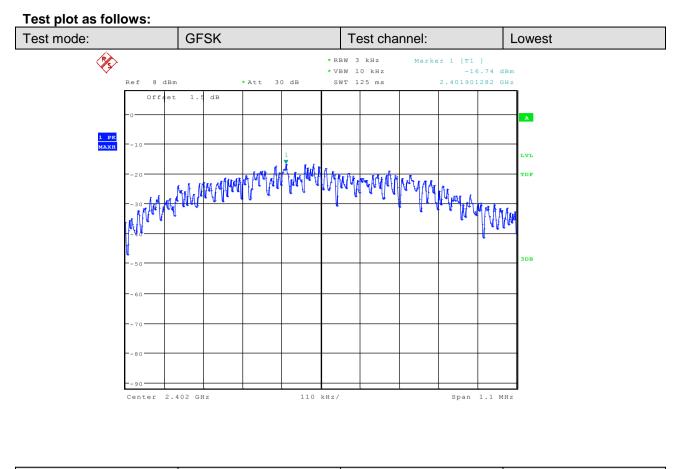
## 6.4 Power Spectral Density

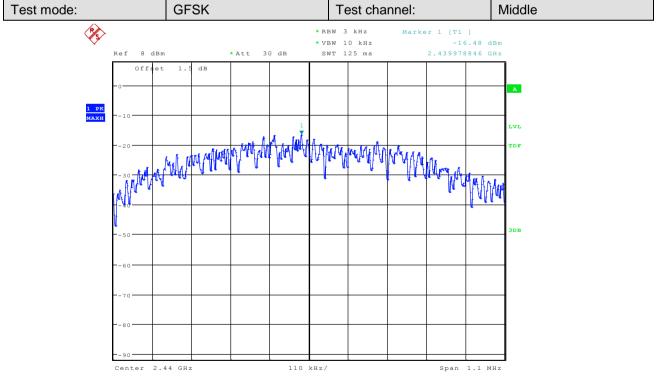


#### **Measurement Data**

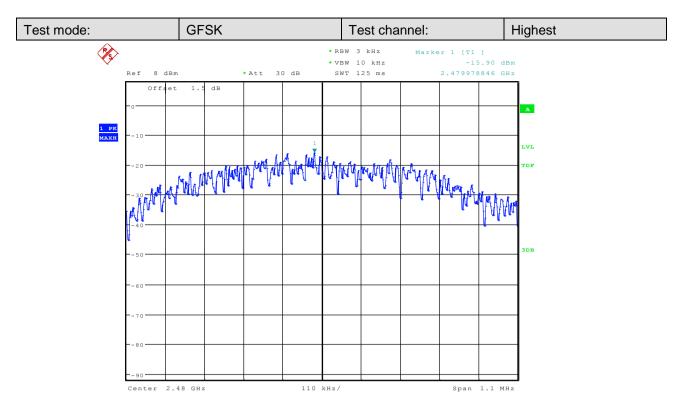
	GFSK mode					
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result			
Lowest	-16.74	≤8.00	Pass			
Middle	-16.48	≤8.00	Pass			
Highest	-15.90	≤8.00	Pass			











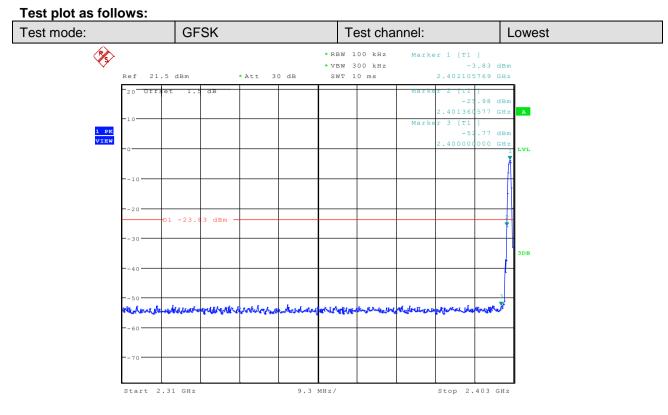


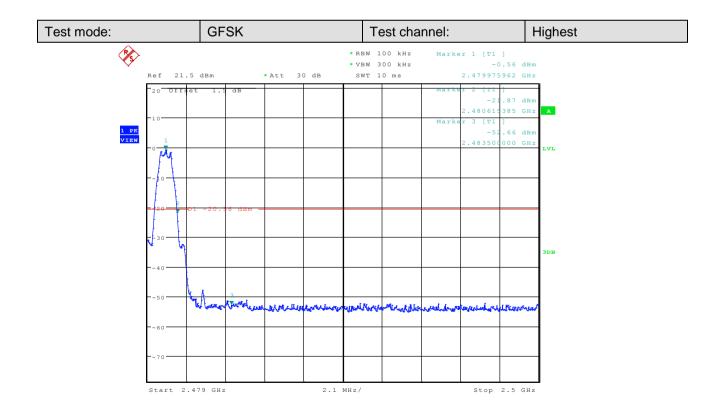
# 6.5 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)		
Test Method:	ANSI C63.10 2013		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.		
Test Mode:	Transmitting with GFSK modulation.		
Instruments Used:	Refer to section 5.10 for details.		
Test Results:	Pass		

GFSK mode				
Test				
channel	Frequency(MHz)	Emission Level(dBm)	Limit(dBm)	Result
Lowest	2400	-52.77	-23.83	Pass
Highest	2483.5	-52.66	-20.56	Pass





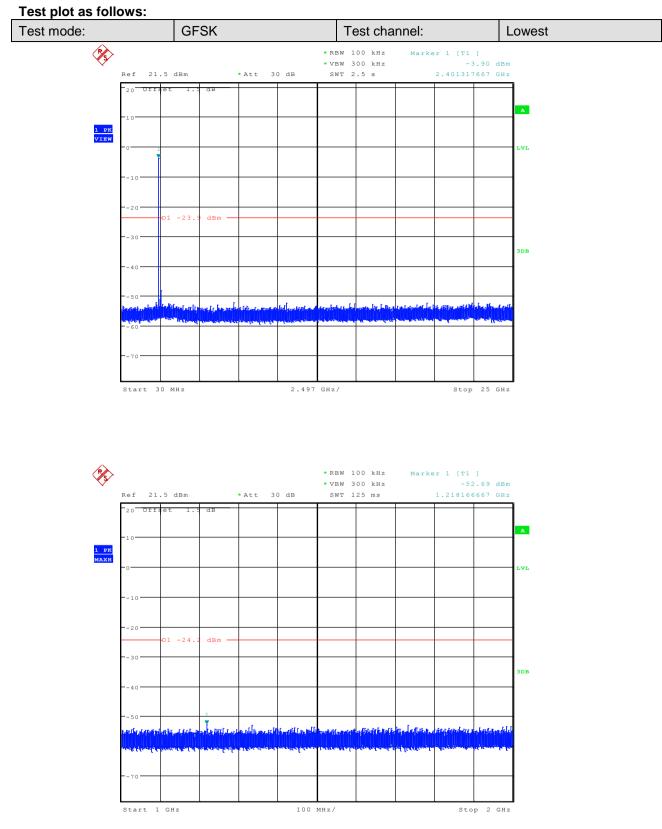




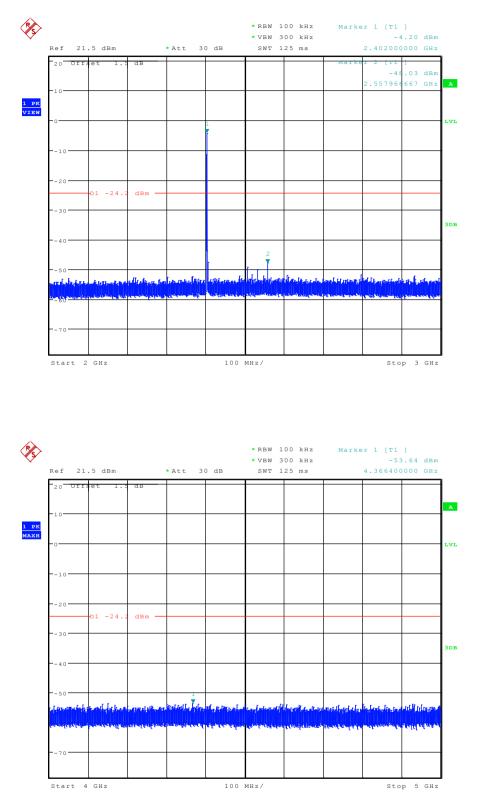
# 6.6 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10 2013			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark:			
l inside	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.			
Test Mode:	Transmitting with GFSK modulation.			
Instruments Used:	Refer to section 5.10 for details.			
Test Results:	Pass			

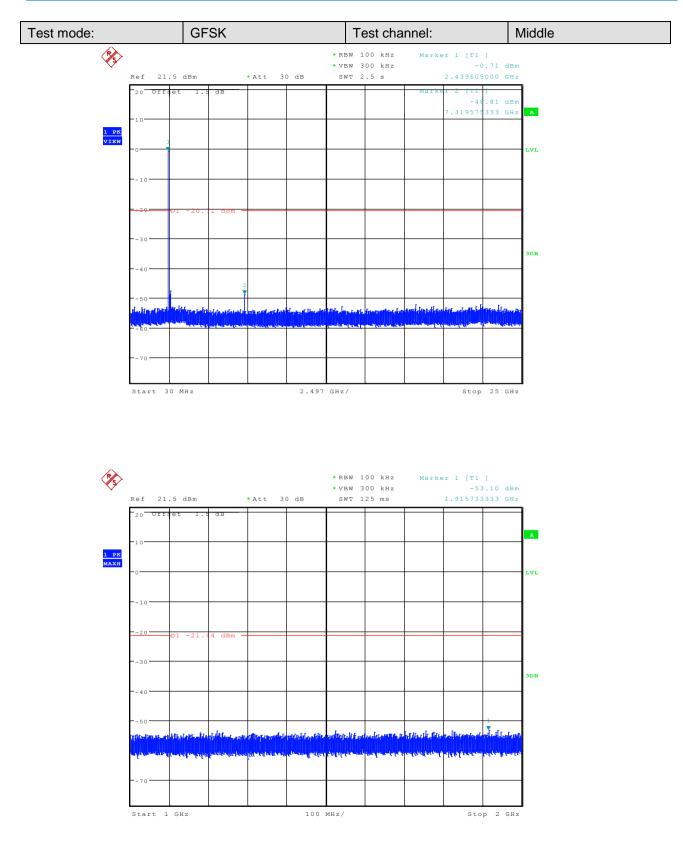


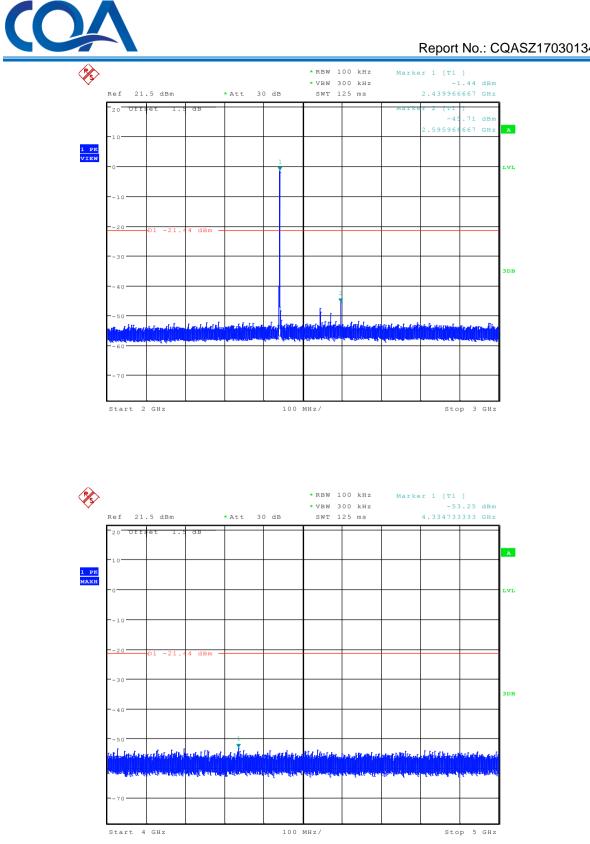




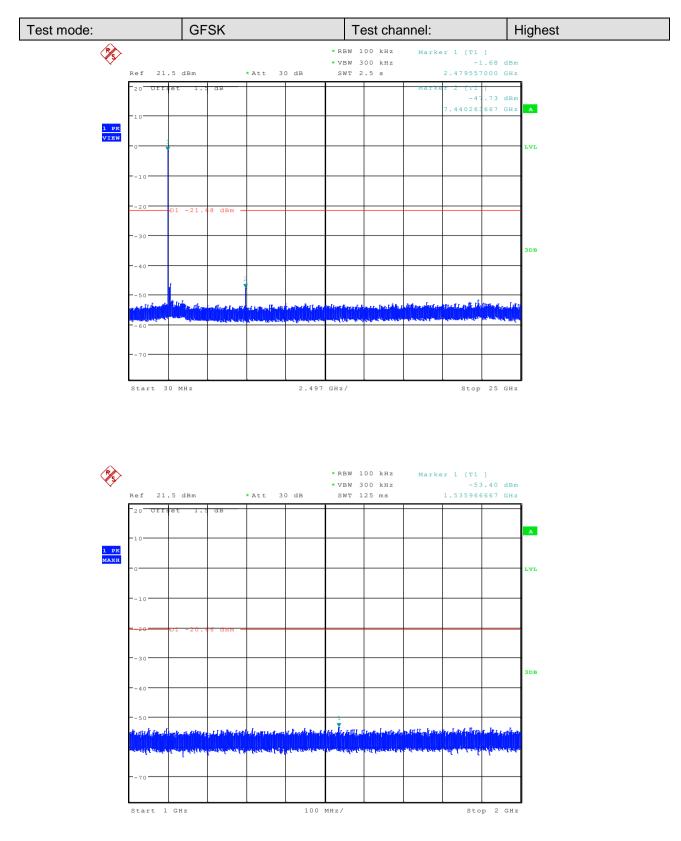






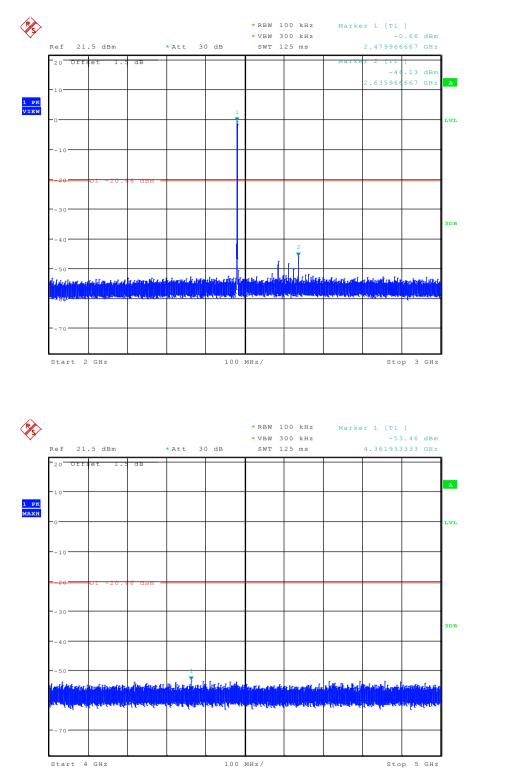












### Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

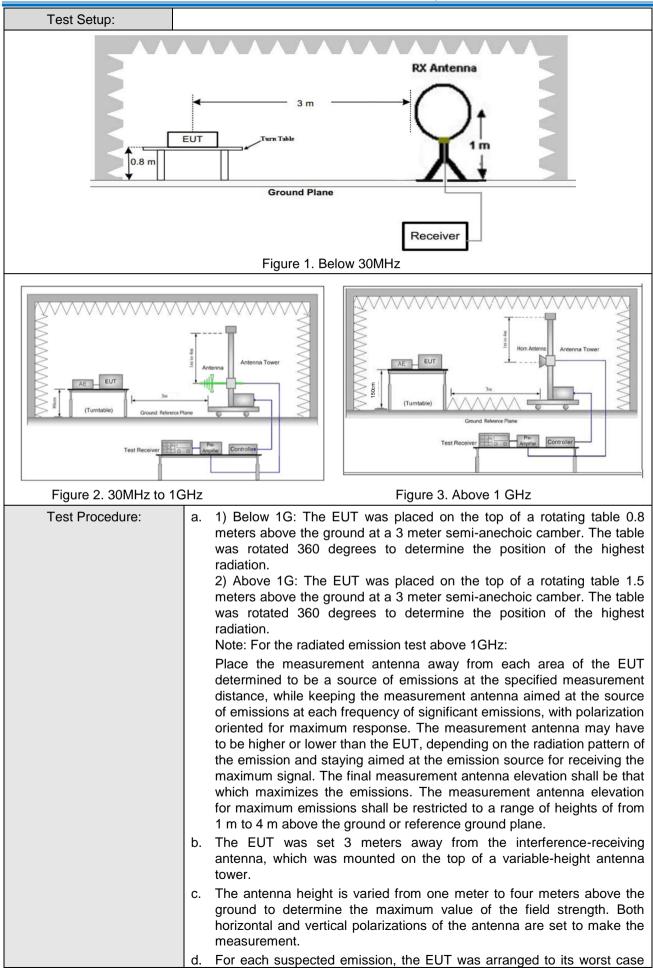


# 6.7 Radiated Spurious Emission

## 6.7.1 Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance	: 3m	n (Semi-Anecł	noic Cham	ber)			
Receiver Setup:	Frequency		Detector	RBW		VBW	Remark	]
	0.009MHz-0.090MH	z	Peak	10kHz	z	30kHz	Peak	
	0.009MHz-0.090MH	z	Average	10kHz	z	30kHz	Average	
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	z	30kHz	Quasi-peak	
	0.110MHz-0.490MH	z	Peak	10kHz	z	30kHz	Peak	
	0.110MHz-0.490MH	Z	Average	10kHz	Z	30kHz	Average	
	0.490MHz -30MHz		Quasi-peak	10kHz	z	30kHz	Quasi-peak	
	30MHz-1GHz		Quasi-peak	100 kH	lz :	300kHz	Quasi-peak	
			Peak	1MHz	2	3MHz	Peak	
	Above 1GHz		Peak	1MHz	2	10Hz	Average	
Limit:	Frequency Field strength (microvolt/meter)		Limit (dBuV/m)	R	lemark	Measureme distance (n		
	0.009MHz-0.490MHz 2400/F(kHz)		-		-	300		
	0.490MHz-1.705MHz 24000/F(kHz)		-		-	30		
	1.705MHz-30MHz		30	-		-	30	
	30MHz-88MHz		100	40.0	Qua	asi-peak	3	
	88MHz-216MHz		150	43.5	Qua	asi-peak	3	
	216MHz-960MHz 200		46.0	Qua	asi-peak	3		
	960MHz-1GHz 500		54.0	Qua	asi-peak	3		
	Above 1GHz 500		54.0	A	verage	3		
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the tota peak emission level radiated by the device.				n			







	<ul> <li>and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> <li>g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)</li> <li>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</li> <li>i. Repeat above procedures until all frequencies measured was complete.</li> </ul>
Exploratory Test Mode:	Transmitting with GFSK modulation. Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Transmitting mode, found Transmitting mode which it is worse case. For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

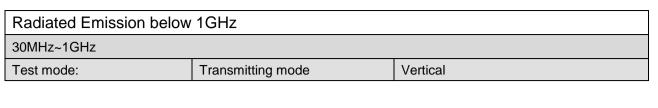


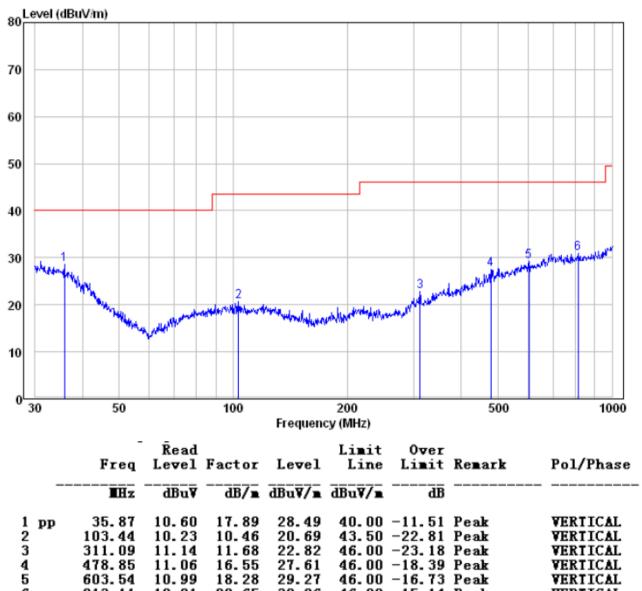
6

813.11

10.21

20.65





30.86

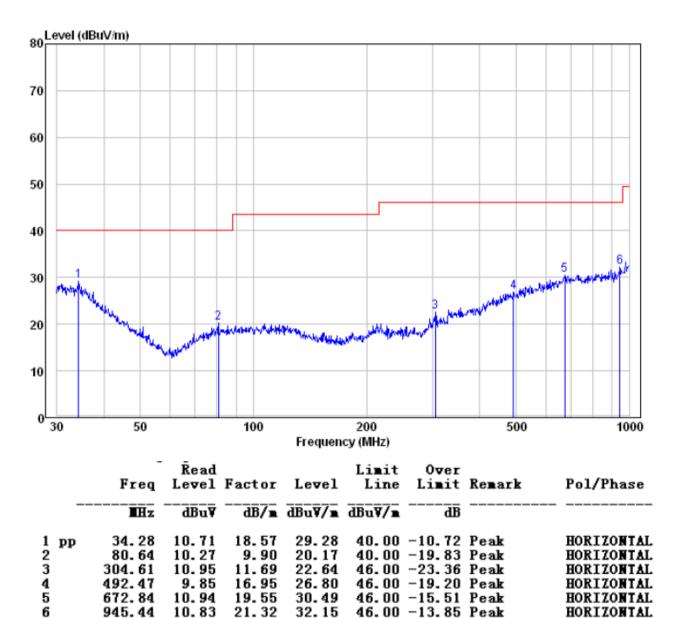
46.00 -15.14 Peak

VERTICAL



Report No.: CQASZ170301346E-01

Test mode:	Transmitting mode	Horizontal



Н

Н

Н

V

V

V V



4804

7206

7206

4804

4804

7206

7206

### Transmitter Emission above 1GHz

36.54

49.49

36.18

49.62

<u>37.</u>21

48.65

35.33

-5.18

-6.45

-6.45

-5.18

-5.18

-6.45

-6.45

Worse case mode: GFS		GFSK	Test cha	annel:	Lowest			
Frequency	Meter Reading	g Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m	1) (dB)	Туре	H/V	
4804	48.70	-5.18	43.52	74	-30.48	peak	Н	

31.36

43.04

29.73

44.44

32.03

42.20

28.88

Worse case mode:	GFSK

Test channel: Middle

54

74

54

74

54

74

54

-22.64

-30.96

-24.27

-29.56

-21.97

-31.80

-25.12

AVG

peak

AVG

peak

AVG

peak

AVG

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4880	49.06	-5.19	43.87	74	-30.13	peak	Н
4880	37.72	-5.19	32.53	54	-21.47	AVG	Н
7320	49.59	-6.47	43.12	74	-30.88	peak	Н
7320	35.09	-6.47	28.62	54	-25.38	AVG	Н
4880	49.61	-5.19	44.42	74	-29.58	peak	V
4880	36.27	-5.19	31.08	54	-22.92	AVG	V
7320	48.96	-6.47	42.49	74	-31.51	peak	V
7320	35.27	-6.47	28.80	54	-25.20	AVG	V



Worse case mode:

GFSK

	Meter		Emission				
Frequency	Reading	Factor	Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4960	51.18	-5.2	45.98	74	-28.02	peak	н
4960	37.20	-5.2	32.00	54	-22.00	AVG	н
7440	49.31	-6.47	42.84	74	-31.16	peak	н
7440	36.75	-6.47	30.28	54	-23.72	AVG	Н
4960	50.25	-5.2	45.05	74	-28.95	peak	V
4960	38.08	-5.2	32.88	54	-21.12	AVG	V
7440	50.13	-6.47	43.66	74	-30.34	peak	V
7440	37.82	-6.47	31.35	54	-22.65	AVG	V

Test channel:

Highest

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 25GHz, the disturbance above 8GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



## 6.8 Restricted bands around fundamental frequency

	as around fundame	intal in equency					
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10 2013						
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Limit:	Frequency	Limit (dBuV/m @3m)	Remark				
	30MHz-88MHz	40.0	Quasi-peak Value				
	88MHz-216MHz	43.5	Quasi-peak Value				
	216MHz-960MHz	46.0	Quasi-peak Value				
	960MHz-1GHz	54.0	Quasi-peak Value				
	Above 1GHz	54.0	Average Value				
		74.0	Peak Value				
Test Cature							
Test Setup:							
Figure 1. 30MH Test Procedure:	Ground Reference Plane						



	<ul> <li>and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>d. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>e. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> <li>f. Test the EUT in the lowest channel , the Highest channel</li> <li>g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</li> <li>h. Repeat above procedures until all frequencies measured was complete.</li> </ul>				
Exploratory Test Mode:	Transmitting with GFSK modulation. Transmitting mode.				
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Transmitting mode, found the Transmitting mode which it is worse case. Only the worst case is recorded in the report.				
Instruments Used:	Refer to section 5.10 for details.				
Test Results:	Pass				

Worse case m	mode: GFSK		Test channel: Lo		Lowest		
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2390	45.53	-4.36	41.17	74	-32.83	peak	Н
2390	35.08	-4.36	30.72	54	-23.28	AVG	Н
2390	44.59	-4.36	40.23	74	-33.77	peak	V
2390	34.96	-4.36	30.60	54	-23.40	AVG	V

Worse case m	ode:	GFSK		Test channel:		Highest				
Frequency	-	/leter eading			Emission Level	Limits	Over		ver Detector	Ant. Pol.
(MHz)	(c	lBμV)	(dB	)	(dBµV/m)	(dBµV/m)	(dB)		Туре	H/V
2483.5	6	60.77	-4.2	2	54.47	74	-19.	53	peak	Н
2483.5	4	6.92	-4.2	2	43.00	54	-11.	00	AVG	Н
2483.5	6	60.78	-4.2	2	49.33	74	-24.	67	peak	V
2483.5	4	6.47	-4.2	2	39.23	54	-14.	77	AVG	V

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor



## 7 Photographs - EUT Test Setup

## 7.1 Radiated Emission

9<u>KHz~30MHz:</u>



30MHz~1GHz:



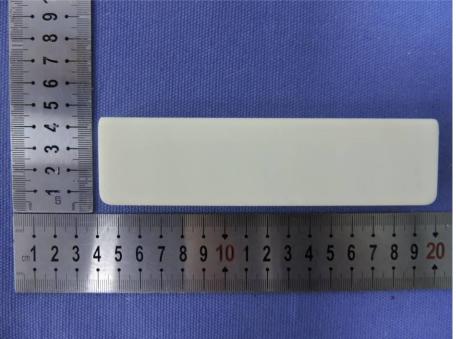






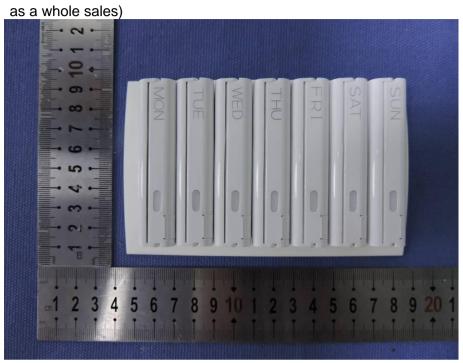
## 8 Photographs - EUT Constructional Details

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Memo Box Mini 7: M1604
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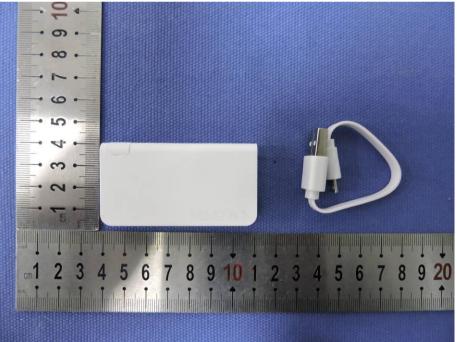




Memo Box 7-Day: M1603 (Note: It actually was seven Memo Box Mini, it



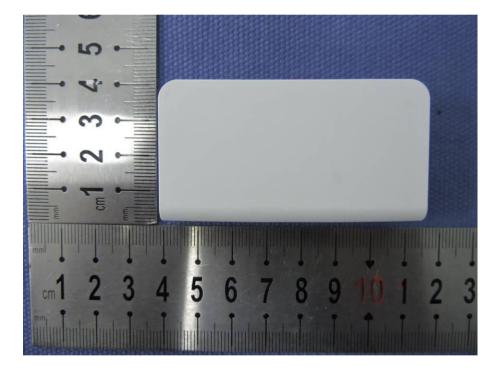
Memo Box Mini: M1603





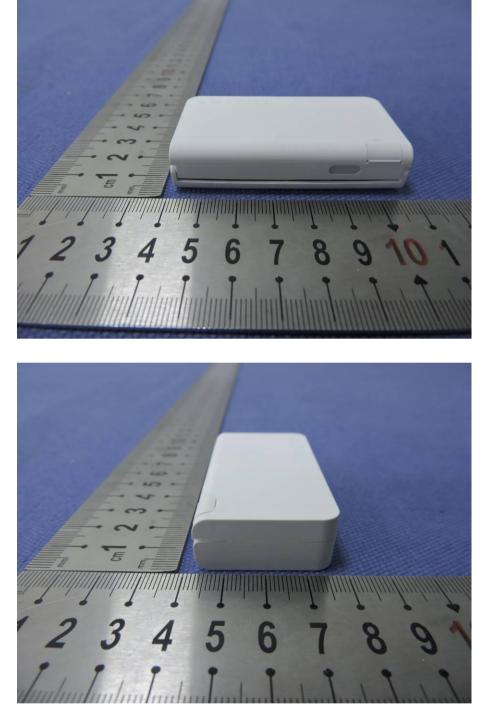
Report No.: CQASZ170301346E-01



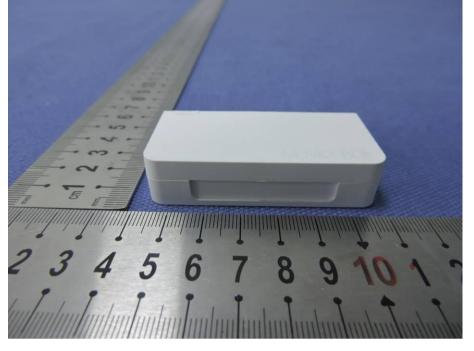


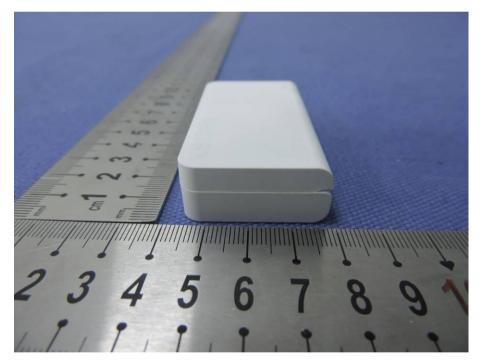








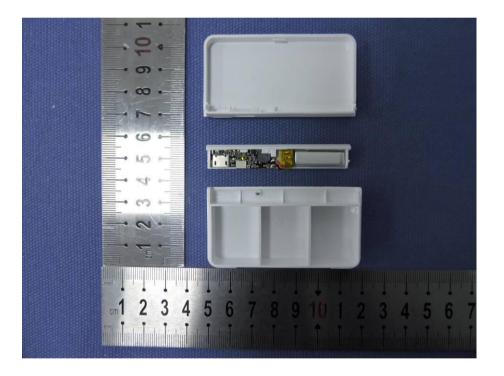






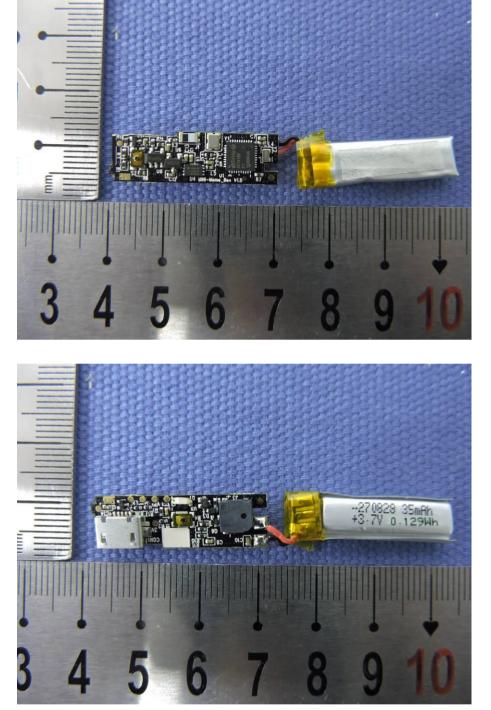
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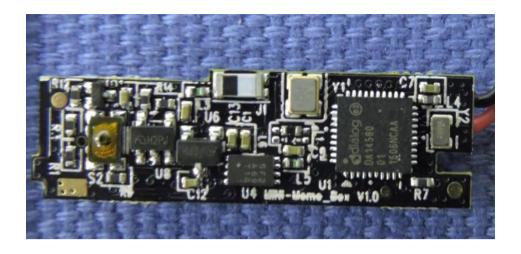




Report No.: CQASZ170301346E-01







END OF THE REPORT