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

Test Report

Report No. :

Applicant:

CQASZ20190300005EX-01 MAYFLASH LIMITED

Address of Applicants

Address of Applicant:3/F, Buiding No.1, TingWei Industrial Park, LiuFang Rd, No.67, BaoAn,
Shenzhen, ChinaManufacturer:MAYFLASH LIMITED

Address of Manufacturer: MAYFLASH LIMITED 3/F, Buiding No.1, TingWei Industrial Park, LiuFang Rd, No.67, BaoAn, Shenzhen, China

Equipment Under Test (EUT): Product: MAGIC PACK Model No.: MAGIC PACK **Brand Name:** N/A FCC ID: 2ASVQ-MPACK Standards: 47 CFR Part 15, Subpart C Date of Test: 2019-03-22 to 2019-03-27 Date of Issue: 2019-03-27 **Test Result :** PASS*

Tested By:

(Daisy Qin)

Reviewed By:

MU Aaron Ma)

(Jack Ai)

Approved By:

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

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

PROV



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20190300005EX-01	Rev.01	Initial report	2019-03-27



2 Test Summary

Test Item	Test Requirement	Test method	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	PASS
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	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	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 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



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4 General Information

4.1 Client Information

Applicant:	MAYFLASH LIMITED
Address of Applicant:	3/F, Buiding No.1, TingWei Industrial Park, LiuFang Rd, No.67, BaoAn, Shenzhen, China
Manufacturer:	MAYFLASH LIMITED
Address of Manufacturer:	3/F, Buiding No.1, TingWei Industrial Park, LiuFang Rd, No.67, BaoAn, Shenzhen, China

4.2 General Description of EUT

Product Name:	MAGIC PACK
Model No.:	MAGIC PACK
Trade Mark:	N/A
Hardware Version:	V1.0
Software Version:	V1.15
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.0/BLE
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	Mobile Portable Fix Location
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
EUT Power Supply:	DC 5V



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



4.3 Test Environment

Operating Environment	Operating Environment:			
Temperature:	25.0 °C			
Humidity:	53 % RH			
Atmospheric Pressure:	1010mbar			
Test Mode:	Use test software 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%.			

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
PC	Lenovo	ThinkPad E450c	Provide by lab	FCC ID
AC/DC Adapter	Lenovo	ADLX65NLC3A	Provide by lab	FCC DOC



4.5 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 Huaxia Testing Technology 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.

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	±5.12dB	(1)
2	Radiated Emission (Above 1GHz)	±4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	±3.34dB	(1)
4	Radio Frequency	3×10 ⁻⁸	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8°C	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	time	0.6 %.	(1)
14	Frequency Error	5.5 Hz	(1)

Hereafter the best measurement capability for CQA laboratory is reported:

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



4.6 Test Location

Shenzhen Huaxia Testing Technology Co., Ltd,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.7 Test Facility

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen 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.:522263

4.8 Deviation from Standards

None.

4.9 Other Information Requested by the Customer

None.



4.10 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2018/09/26	2019/09/25
Spectrum analyzer	R&S	FSU26	CQA-038	2018/10/28	2019/10/27
Preamplifier	MITEQ	AFS4-00010300-18-10P- 4	CQA-035	2018/09/26	2019/09/25
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2018/11/02	2019/11/01
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2018/10/28	2020/10/27
Bilog Antenna	R&S	HL562	CQA-011	2018/09/26	2020/09/25
Horn Antenna	R&S	HF906	CQA-012	2018/09/26	2020/09/25
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2018/09/26	2020/09/25
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2018/09/26	2019/09/25
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2018/09/26	2019/09/25
Spectrum analyzer	Agilent	E4440A	CQA-103	2018/10/28	2018/10/27
Antenna Connector	CQA	RFC-01	CQA-080	2018/09/26	2019/09/25
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2018/09/26	2019/9/25
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2018/09/26	2019/09/25
EMI Test Receiver	R&S	ESPI3	CQA-013	2018/09/26	2019/09/25
LISN	R&S	ENV216	CQA-003	2018/11/05	2019/11/04
Coaxial cable	CQA	N/A	CQA-C009	2018/09/26	2019/09/25

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.



5 Test results and Measurement Data

5.1 Antenna Requirement

 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the u 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. 	Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the u 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. 	-	· · · · · · · · · · · · · · · · · · ·
	An intentional radiator shall be responsible party shall be use antenna that uses a unique of so that a broken antenna car electrical connector is prohibit 15.247(b) (4) requirement: The conducted output power antennas with directional gain section, if transmitting antenn power from the intentional radius (b)(2), and (b)(3) of this section	ed with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit in be replaced by the user, but the use of a standard antenna jack or ited. Imit specified in paragraph (b) of this section is based on the use of ns that do not exceed 6 dBi. Except as shown in paragraph (c) of this has of directional gain greater than 6 dBi are used, the conducted output diator shall be reduced below the stated values in paragraphs (b)(1),
EUT Antenna: PCB ANTENNA		
The antenna isPCB antenna. The best case gain of the antenna is 0dBi.	The antenna isPCB antenna	The best case gain of the antenna is 0dBi.

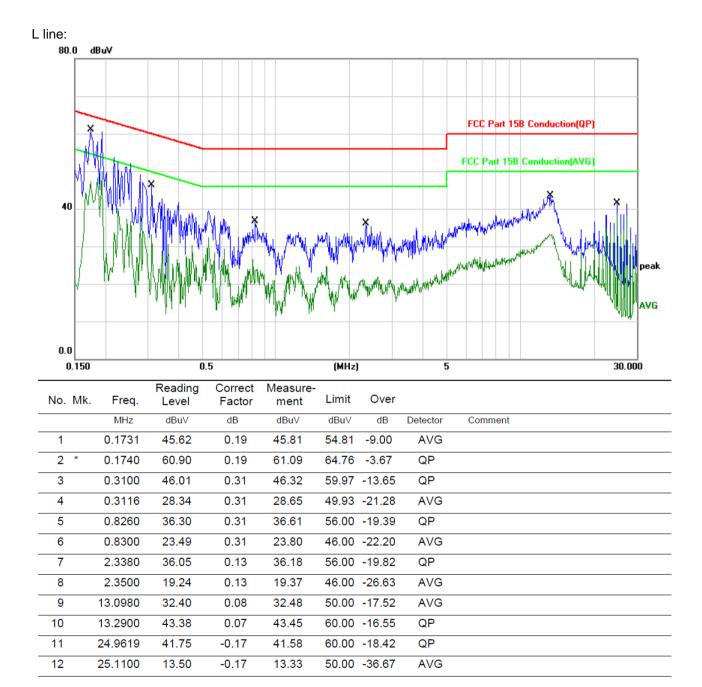


5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10: 2013	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz						
Limit:		Limit (o	dBuV)				
	Frequency range (MHz)	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 logarithn	n of the frequency.	1				
Test Procedure:	 The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 						
Test Setup:	and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.						
Test Mode:	Transmitting with GFSK modu	lation		-			
	-						
Test Results:	Pass						



Measurement Data



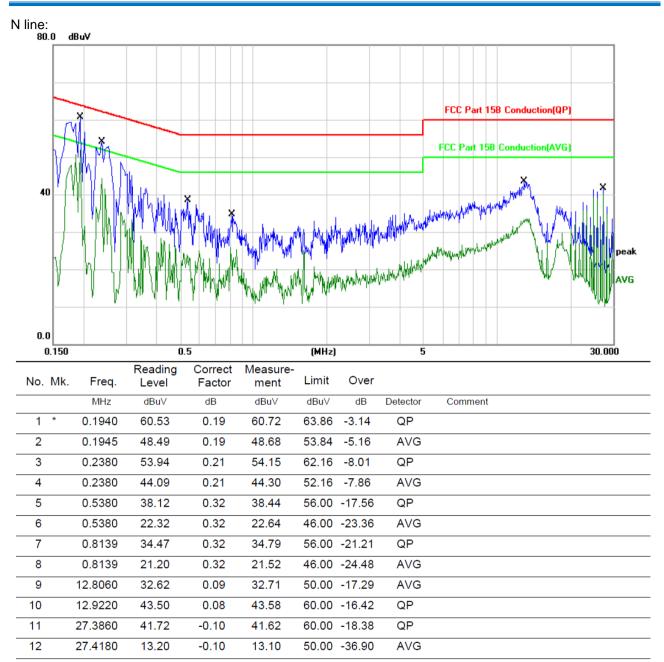
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

3. If the Peak value under Average limit, the Average value is not recorded in the report.



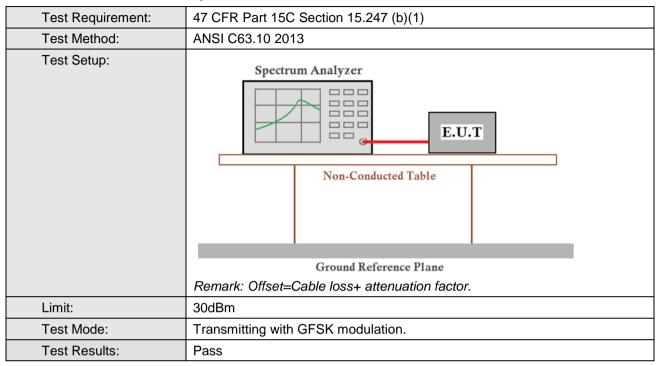


Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



5.3 Conducted Peak Output Power

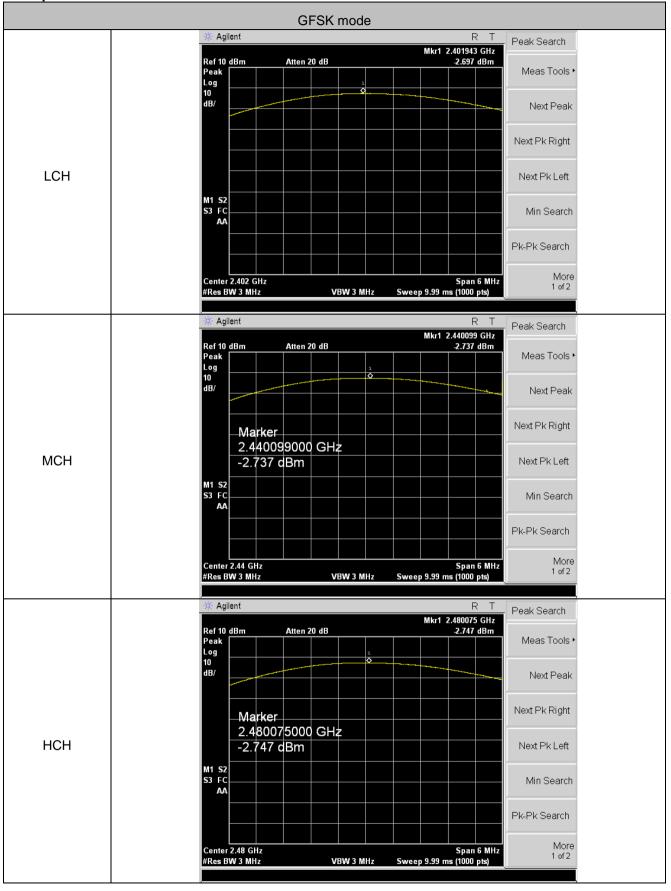


Measurement Data

GFSK mode (1Mbps)							
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	-2.697	30.00	Pass				
Middle	-2.737	30.00	Pass				
Highest	-2.747	30.00	Pass				

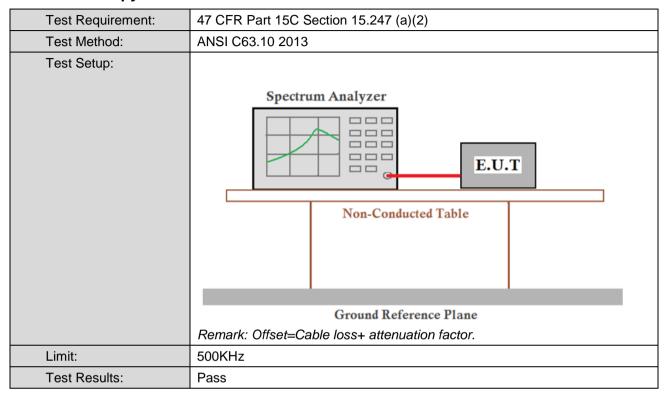


Test plot as follows:





5.4 6dB Occupy Bandwidth



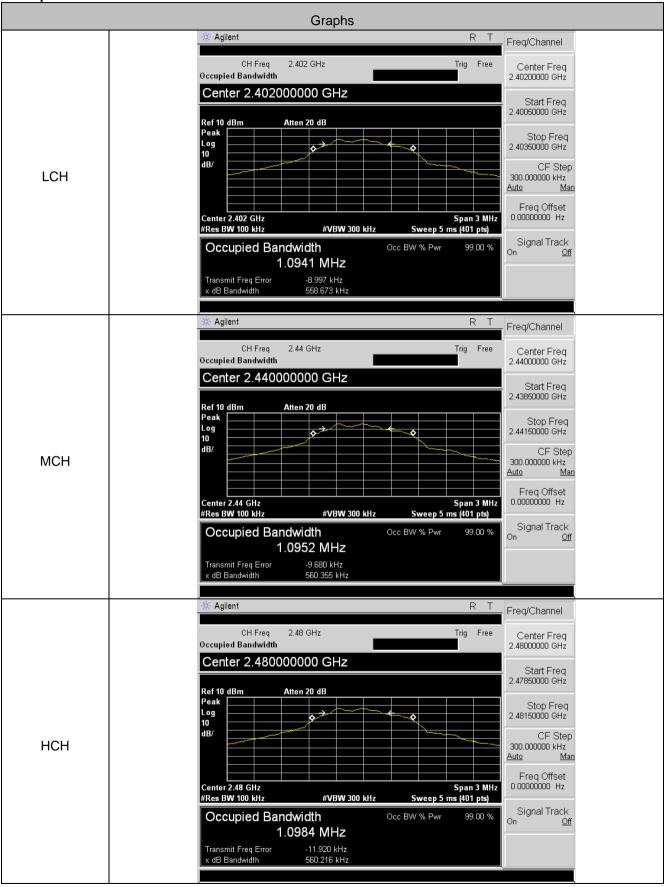
Measurement Data

GFSK mode							
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	0.558673	>500	Pass				
Middle	0.560355	>500	Pass				
Highest	0.560216	>500	Pass				



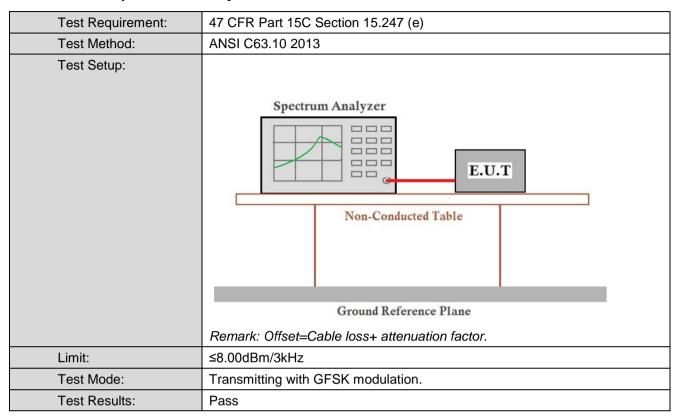
Report No.: CQASZ20190300005EX-01

Test plot as follows:





5.5 Power Spectral Density

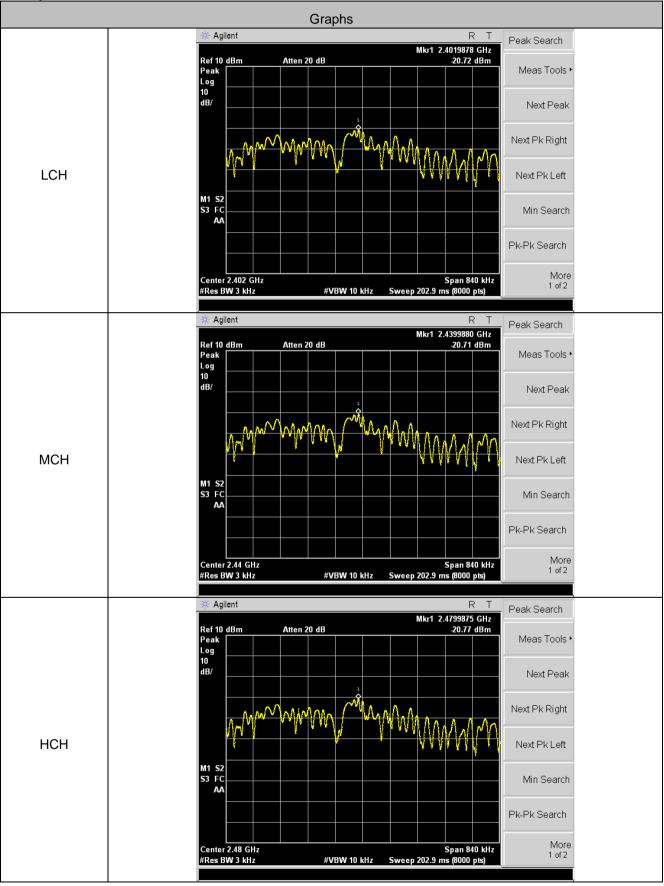


Measurement Data

GFSK mode							
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result				
Lowest	-20.72	≤8.00	Pass				
Middle	-20.71	≤8.00	Pass				
Highest	-20.77	≤8.00	Pass				

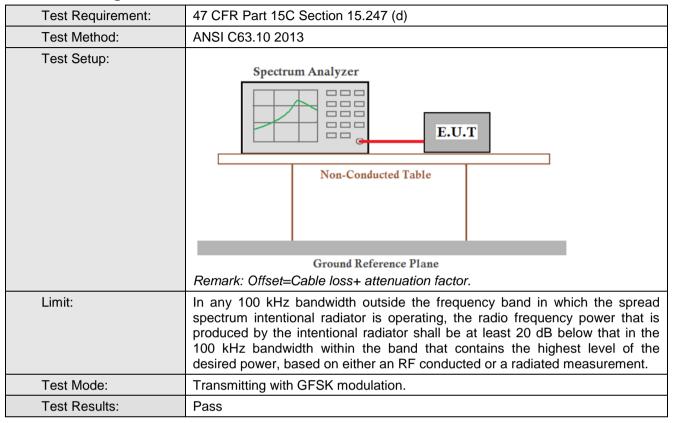


Test plot as follows:





5.6 Band-edge for RF Conducted Emissions



left band-edge							
Frequency(MHz)	Emission Level(dBm)	Limit(dBm)	Result				
2390	-60.59	-23.2	Pass				
2400	-52.38	-23.2	Pass				

right band-edge			
Frequency(MHz)	Emission Level(dBm)	Limit(dBm)	Result
2483.5	-58.28	-23.3	Pass
2500	-60.38	-23.3	Pass

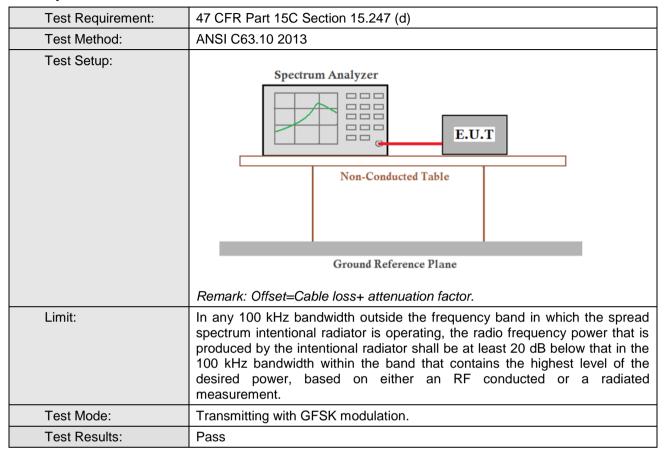


Test plot as follows:





5.7 Spurious RF Conducted Emissions



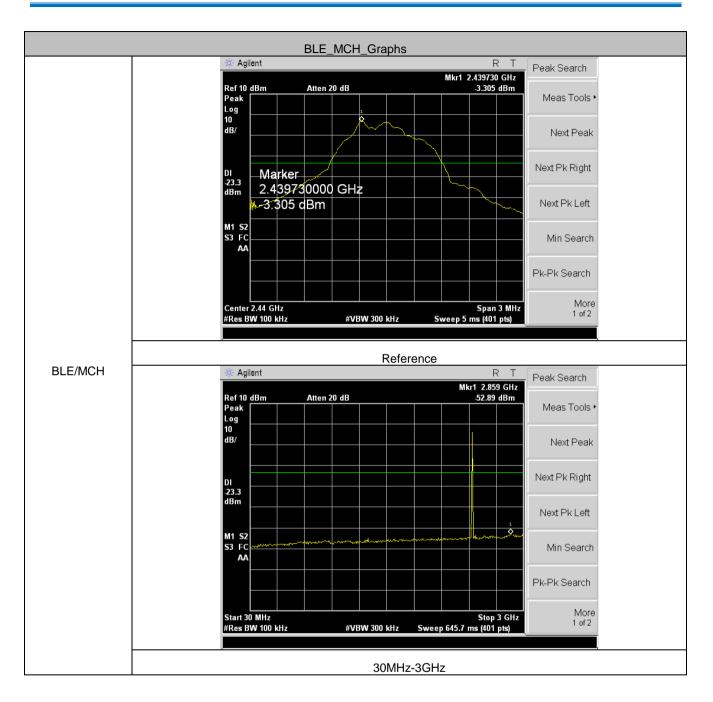
Test plot as follows:

BLE_LCH_Graphs						
	· Agilent	R T Mkr1 2.401730 GHz	Peak Search			
	Ref 10 dBm Atten 20 dB Peak	-3.328 dBm	Meas Tools •			
	10 dB/		Next Peak			
	DI Marker 23.3		Next Pk Right			
BLE/LCH	^{23.3} dBm 2.401730000 GHz -3.328 dBm		Next Pk Left			
M S: C	M1 52 S3 FC AA		Min Search			
			Pk-Pk Search			
	Center 2.402 GHz #Res BW 100 kHz #VBW 300 kH	Span 3 MHz z Sweep 5 ms (401 pts)	More 1 of 2			
	Re	ference				

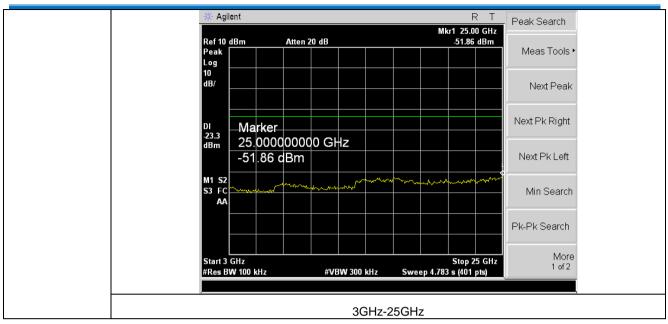


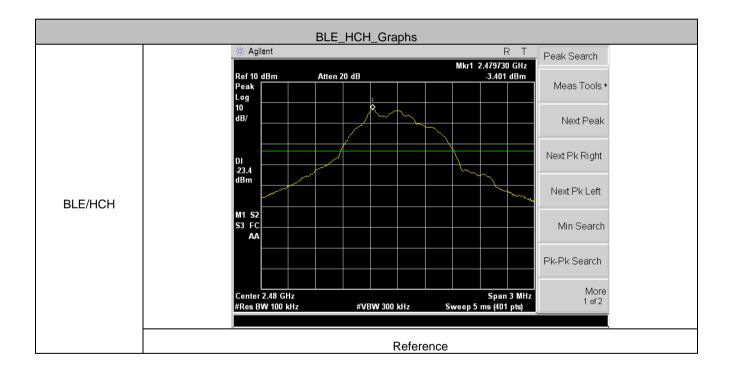














Report No.: CQASZ20190300005EX-01



Remark:

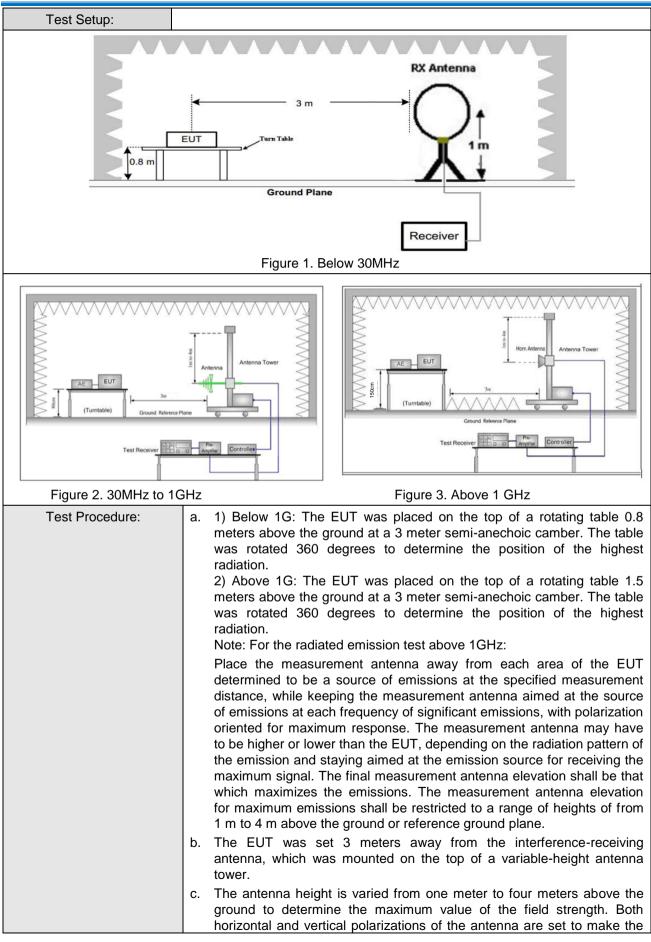
Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported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



5.8 Radiated Spurious Emission & Restricted bands

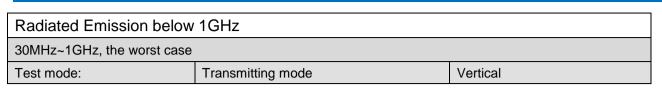
5.8.1 Spurious Emissions									
Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205					
Test Method:	ANSI C63.10 2013	ANSI C63.10 2013							
Test Site:	Measurement Distance	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark			
	0.009MHz-0.090MH	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			
	Above 1GHz		Peak	1MHz	: 3MHz	Peak			
	Above IGH2		Peak	1MHz	: 10Hz	Average			
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measureme distance (m			
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300			
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	-	30			
	1.705MHz-30MHz		30	-	-	30			
	30MHz-88MHz		100	40.0	Quasi-peak	3			
	88MHz-216MHz		150	43.5	Quasi-peak	3			
	216MHz-960MHz		200	46.0	Quasi-peak	3			
	960MHz-1GHz		500	54.0	Quasi-peak	3			
	Above 1GHz 500		500	54.0	Average	3			
	Note: 15.35(b), Unless otherwise specified, the limit on peak frequency emissions is 20dB above the maximum permitted average er limit applicable to the equipment under test. This peak limit applies to the peak emission level radiated by the device.						n		

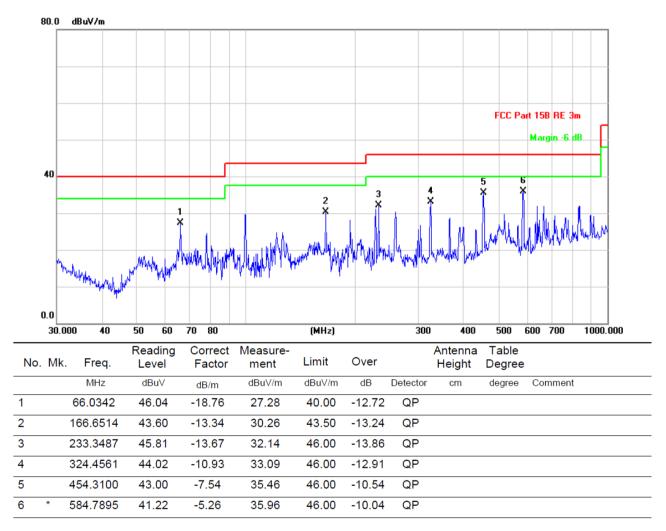




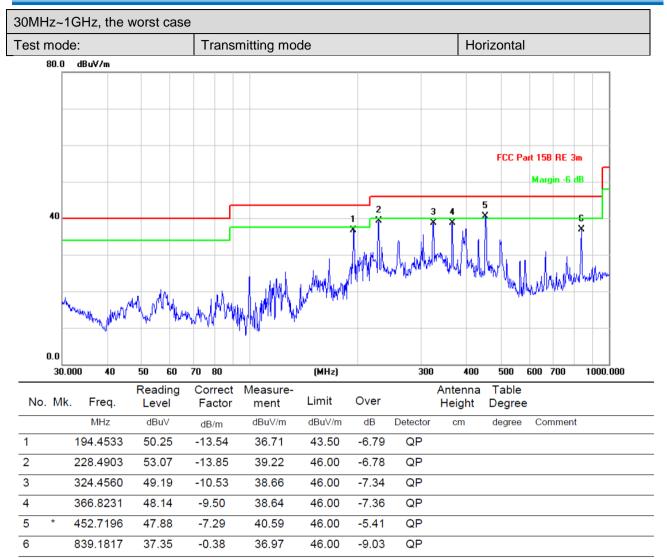
	measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	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.
	 g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
	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.
	i. Repeat above procedures until all frequencies measured was complete.
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.
	For below 1GHz part, through pre-scan, the worst case is the lowest channel.
	Only the worst case is recorded in the report.
Test Results:	Pass













Transmitter Emission above 1GHz

Worse case m	se mode: GFSK Test channel:		GFSK		Lowest		
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2390	55.11	-9.2	45.91	74	-28.09	Peak	н
2400	57.15	-9.39	47.76	74	-26.24	Peak	н
4804	51.52	-4.33	47.19	74	-26.81	Peak	Н
7206	49.31	1.01	50.32	74	-23.68	Peak	н
2390	53.94	-9.2	44.74	74	-29.26	Peak	v
2400	50.84	-9.39	41.45	74	-32.55	Peak	V
4804	54.40	-4.33	50.07	74	-23.93	Peak	V
7206	50.08	1.01	51.09	74	-22.91	Peak	V

Worse case m	Worse case mode:		GFSK Test channe		el:	Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4880	50.36	-4.11	46.25	74	-27.75	Peak	Н
7320	50.69	1.51	52.20	74	-21.80	Peak	н
4880	54.19	-4.11	50.08	74	-23.92	Peak	V
7320	49.19	1.51	50.70	74	-23.30	Peak	V

Worse case m	ode:	GFSK		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2483.5	54.95	-9.29	45.66	74	-28.34	Peak	н
4960	51.08	-4.04	47.04	74	-26.96	Peak	н
7440	51.19	1.57	52.76	74	-21.24	Peak	н
2483.5	55.56	-9.29	46.27	74	-27.73	Peak	v
4960	50.52	-4.04	46.48	74	-27.52	Peak	V
7440	49.27	1.57	50.84	74	-23.16	Peak	V

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

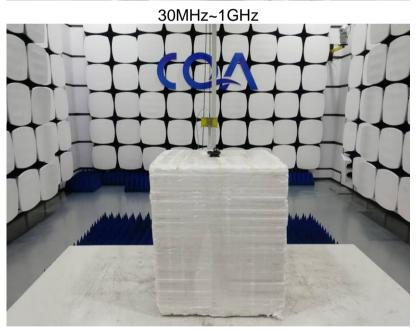
2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



6 Photographs - EUT Test Setup

6.1 Radiated Spurious Emission



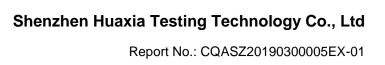


Above 1GHz



6.2 Conducted Emission







7 Photographs - EUT Constructional Details

External photos







10 11 12 13

9

8

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5 6 7

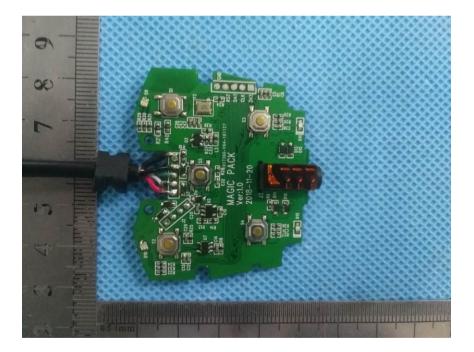




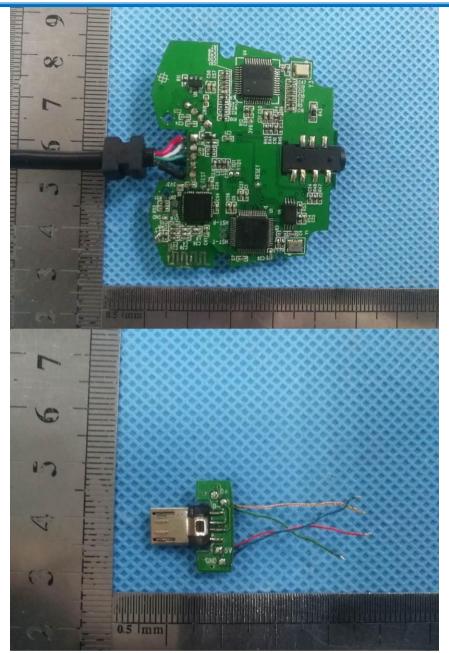


Internal photos



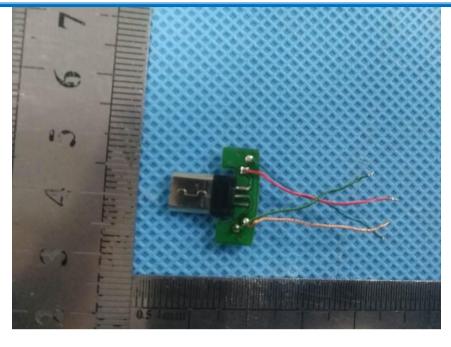


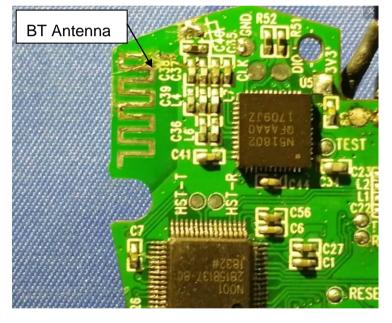






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The End