# RF TEST REPORT



Report No.: 17070339-FCC-R3 V2

Supersede Report No.: N/A

Applicant	Draper, Inc.			
Product Name	Handheld Remote			
Model No.	RFR			
Serial No.	N/A			
Test Standard	FCC Part 1	5.247: 2016, ANSI C63.10: 2	2013	
Test Date	May 05 to May 17, 2017			
Issue Date	June 01, 2017			
Test Result	Pass Fail			
Equipment compl	Equipment complied with the specification			
Equipment did not comply with the specification				
Loven	Luo	David Huang		
Loren Luo Test Engineer		David Huang Checked By		

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Test result presented in this test report is applicable to the tested sample only

#### Issued by:

#### SIEMIC (SHENZHEN-CHINA) LABORATORIES

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### **Laboratories Introduction**

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### **Accreditations for Conformity Assessment**

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety



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# 1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070399-FCC-R3	NONE	Original	May 18, 2017
17070339-FCC-R3 V1	V1	Changed the Applicant adress	May 31, 2017
17070339-FCC-R3 V2	V2	Changed the Applicant Name	June 01, 2017

# 2. Customer information

Applicant Name	Draper, Inc.
Applicant Add	411 S. Pearl St.PO Box 425, Spiceland, Indiana, United States
Manufacturer	Harda (Xiamen) Plastic Co.,Ltd
Manufacturer Add	Building 37#, Huli Zone, TongAn Industrial Area, Xiamen

# 3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China	
	518108	
FCC Test Site No.	718246	
IC Test Site No.	4842E-1	
Test Software of	Radiated Emission Program-To Shenzhen v2.0	
Radiated Emission		
Test Software of	EZ-EMC(ver.lcp-03A1)	
Conducted Emission		



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# ation

4. Equipment under T	est (EUT) Inform
Description of EUT:	Handheld Remote
Main Model:	RFR
Serial Model:	N/A
Date EUT received:	May 04, 2017
Test Date(s):	May 05 to May 17, 2017
Equipment Category :	DTS
Antenna Gain:	1.5 dBi
Antenna Type:	Fixed antenna
Type of Modulation:	GFSK
RF Operating Frequency (ies):	2402-2480 MHz
Max. Output Power:	2.946dBm
Number of Channels:	40CH
Port:	N/A
Trade Name :	N/A
Input Power:	DC 3V
FCC ID:	2ALWORFR



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# 5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result	
§15.203	Antenna Requirement	Compliance	
§15.247 (a)(2)	DTS (6 dB) CHANNEL BANDWIDTH	Compliance	
§15.247(b)(3)	Conducted Maximum Output Power	Compliance	
§15.247(e)	Power Spectral Density	Compliance	
§15.247(d)	Band-Edge & Unwanted Emissions into Restricted	Compliance	
310.217(0)	Frequency Bands		
§15.207 (a),	AC Power Line Conducted Emissions		
§15.205, §15.209,	05, §15.209, Radiated Emissions & Unwanted Emissions		
§15.247(d)	into Restricted Frequency Bands	Compliance	



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# **Measurement Uncertainty**

Parameter	Uncertainty	
AC Power Line Conducted Emissions	±3.11dB	
(150kHz~30MHz)	±3.110b	
Radiated Emission(30MHz~1GHz)	±5.12dB	
Radiated Emission(1GHz~6GHz)	±5.34dB	



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### 6. Measurements, Examination And Derived Results

### 6.1 Antenna Requirement

#### **Applicable Standard**

According to § 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

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

#### **Antenna Connector Construction**

The EUT has 1 antenna:

A permanently attached Fixed antenna for BLE, the gain is 1.5dBi for BLE.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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# 6.2 DTS (6 dB) Channel Bandwidth

Temperature	23 °C	
Relative Humidity	52%	
Atmospheric Pressure	1010mbar	
Test date :	May 10, 2017	
Tested By :	Loren Luo	

Spec	Item	em Requirement Applica			
§ 15.247(a)(2)	a)	a) 6dB BW≥ 500kHz;			
RSS Gen(4.6.1)	b)	99% BW: For FCC reference only; required by IC.	V		
Test Setup	Spectrum Analyzer EUT				
Test Procedure	Spectrum Analyzer  558074 D01 DTS MEAS Guidance v03r03, 8.1 DTS bandwidth  6dB Emission bandwidth measurement procedure  - Set RBW = 100 kHz.  - Set the video bandwidth (VBW) ≥ 3 RBW.  - Detector = Peak.  - Trace mode = max hold.  - Sweep = auto couple.  - Allow the trace to stabilize.  Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.				
Remark					
Result	Pas	ss Fail			

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



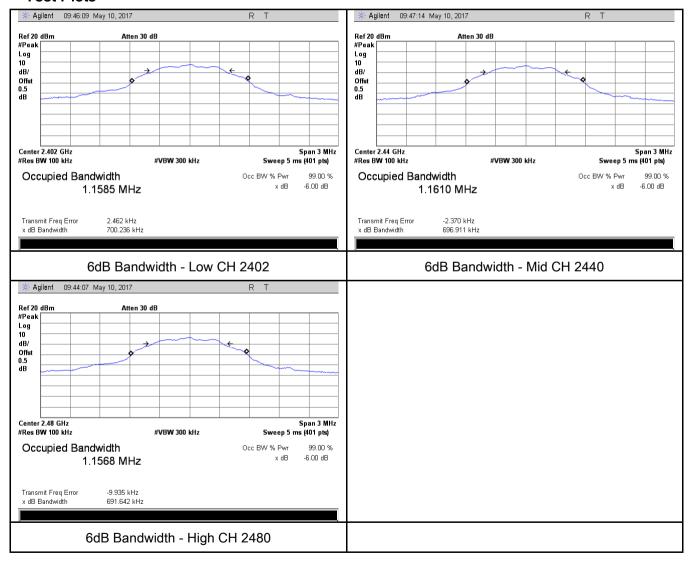
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#### 6dB Bandwidth measurement result

#### **Test Data**

СН	Frequency (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)
Low	2402	700.236	1.1585
Mid	2440	696.911	1.1610
High	2480	691.642	1.1568

#### **Test Plots**





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# 6.3 Maximum Output Power

Temperature	23 °C
Relative Humidity	52%
Atmospheric Pressure	1010mbar
Test date :	May 10, 2017
Tested By:	Loren Luo

### Requirement(s):

Spec	Item	Requirement	Applicable				
	a)	FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt					
	b)	FHSS in 5725-5850MHz: ≤ 1 Watt					
§15.247(b) (3),RSS210	c)	For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125 Watt.					
(A8.4)	d)	FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt					
(* 10. 1)	e)	FHSS in 902-928MHz with ≥ 25 & <50 channels: ≤ 0.25 Watt					
	f)	DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt	V				
Test Setup		Spectrum Analyzer EUT					
	558074	558074 D01 DTS MEAS Guidance v03r03, 9.1.2 Integrated band power method					
		m output power measurement procedure					
	<b>'</b>	a) Set the RBW ≥ DTS bandwidth.					
Test	<b>,</b>	b) Set VBW ≥ 3 × RBW.					
Procedure		c) Set span ≥ 3 x RBW d) Sweep time = auto couple.					
Procedure	e) Detector = peak. f) Trace mode = max hold.						
	g) Allow trace to fully stabilize.						
	h) Use peak marker function to determine the peak amplitude level.						
Remark							
Result	Pas	s Fail					



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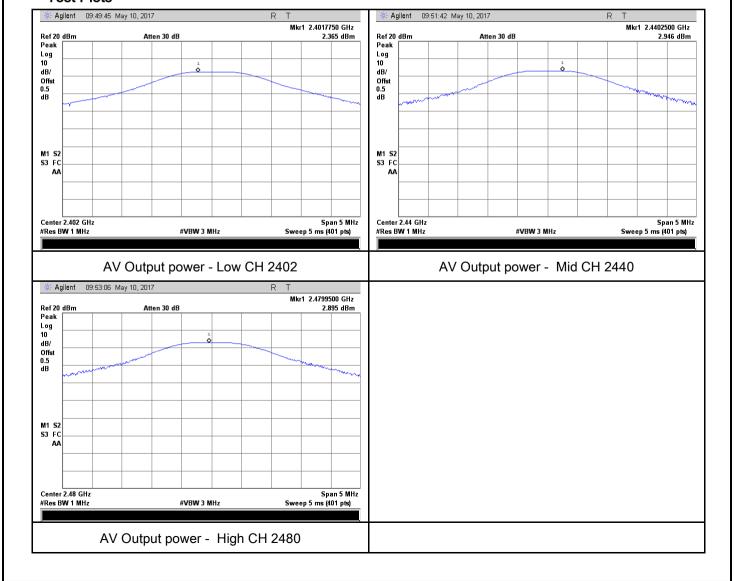
Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>

#### Output Power measurement result

#### **Test Data**

Туре	СН	Frequency (MHz)	· · · ·   R		Result
Output	Low	2402	2.365	30	Pass
Output	Mid	2440	2.946	30	Pass
power	High	2480	2.895	30	Pass

#### **Test Plots**





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# 6.4 Power Spectral Density

Temperature	23 °C
Relative Humidity	52%
Atmospheric Pressure	1010mbar
Test date :	May 10, 2017
Tested By :	Loren Luo

Spec	Item	Requirement	Applicable			
§15.247(e)	a)	The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.	V			
Test Setup	Spectrum Analyzer EUT					
Test Procedure		558074 D01 DTS MEAS Guidance v03r03, 10.2 power spectral density method power spectral density measurement procedure  - a) Set analyzer center frequency to DTS channel center frequency.  - b) Set the span to 1.5 times the DTS bandwidth.  - c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.  - d) Set the VBW ≥ 3 × RBW.				
Remark						
Result	Pas	ss Fail				

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



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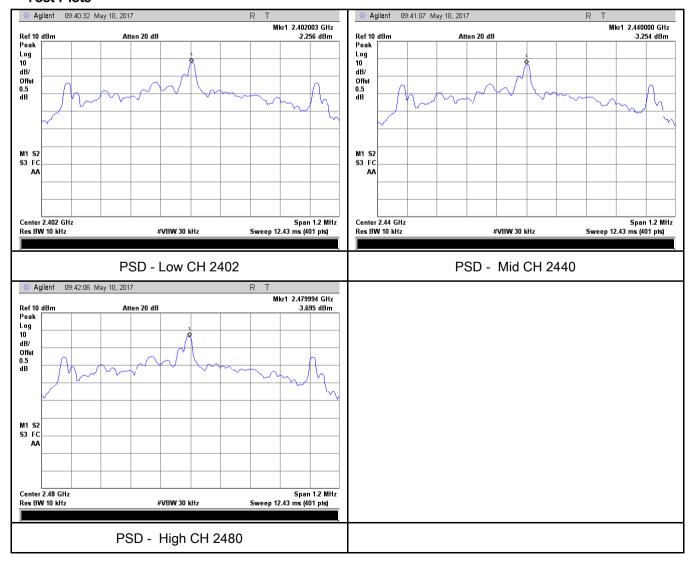
#### Power Spectral Density measurement result

#### **Test Data**

Туре	СН	Freq (MHz)	Reading (dBm)	Factor (dB)	Result (dBm)	Limit (dBm)	Result
	Low	2402	-2.256	-5.23	-7.486	8	Pass
PSD	Mid	2440	-3.254	-5.23	-8.484	8	Pass
	High	2480	-3.695	-5.23	-8.925	8	Pass

Note: factor=10log(3/10)=-5.23

#### **Test Plots**





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# 6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

Temperature	23 °C	
Relative Humidity	52%	
Atmospheric Pressure	1010mbar	
Test date :	May 10, 2017	
Tested By :	Loren Luo	

### Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(d)	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.		<b>\</b>
Test Setup		Ant. Tower  Support Units  Turn Table  Ground Plane  Test Receiver	e
Test Procedure	Radiated Method Only     1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.     2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.		



Yes (See below)

Test Plot

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	- 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a
	convenient frequency span including 100kHz bandwidth from band edge, check
	the emission of EUT, if pass then set Spectrum Analyzer as below:
	a. The resolution bandwidth and video bandwidth of test receiver/spectrum
	analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.
	b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video
	bandwidth is 3MHz with Peak detection for Peak measurement at frequency above
	1GHz.
	c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the
	video bandwidth is 10Hz with Peak detection for Average Measurement as below
	at frequency above 1GHz.
	- 4. Measure the highest amplitude appearing on spectral display and set it as a
	reference level. Plot the graph with marking the highest point and edge frequency.
	- 5. Repeat above procedures until all measured frequencies were complete.
Remark	
Result	Pass Fail
Test Data	res N/A



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# Test Plots Band Edge measurement result



Note: Both Horizontal and vertical polarities were investigated



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### 6.6 AC Power Line Conducted Emissions

Temperature	
Relative Humidity	
Atmospheric Pressure	
Test date :	
Tested By:	

### Requirement(s):

Spec	Item	Requirement			Applicable
		For Low-power radio-fr	equency devices that is	s designed to be	
		connected to the public	utility (AC) power line,	the radio frequency	
		voltage that is conducte	ed back onto the AC po	ower line on any	
47055045		frequency or frequencie	es, within the band 150	kHz to 30 MHz, shall	
47CFR§15.		not exceed the limits in	the following table, as	measured using a 50	
207,	a)	[mu] H/50 ohms line im	pedance stabilization r	network (LISN). The	
RSS210	a)	lower limit applies at th	e boundary between th	e frequencies ranges.	
(A8.1)		Frequency ranges	Limit (	dBμV)	
		(MHz)	QP	Average	
		0.15 ~ 0.5	66 – 56	56 – 46	
		0.5 ~ 5	56	46	
		5 ~ 30	60	50	
Vertical Ground Reference Plane Test Receiver					
		EUT			
		40cm	<del></del> _		
Test Setup		LISN	80cm		
				N	
	Horizontal Ground Reference Plane				
	Note: 1.Support units were connected to second LISN.				
	2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.				
	The EUT and supporting equipment were set up in accordance with the requirements of				
	the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.				
Procedure	2. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to				
	filtered mains.  3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss				
	3. The	e KF OUT of the EUT LIS	SN was connected to the	ne EMI test receiver via	a low-loss



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	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power)
	over the required frequency range using an EMI test receiver.
	7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the
	selected frequencies and the necessary measurements made with a receiver bandwidth
	setting of 10 kHz.
	8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
Remark	The EUT is powered by battery , so there is not necessary to test AC power.
Result	Pass Fail N/A

Test Data	Yes	✓ <sub>N/A</sub>
Test Plot	Yes (See below)	✓ <sub>N/A</sub>



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# 6.7 Radiated Emissions & Restricted Band

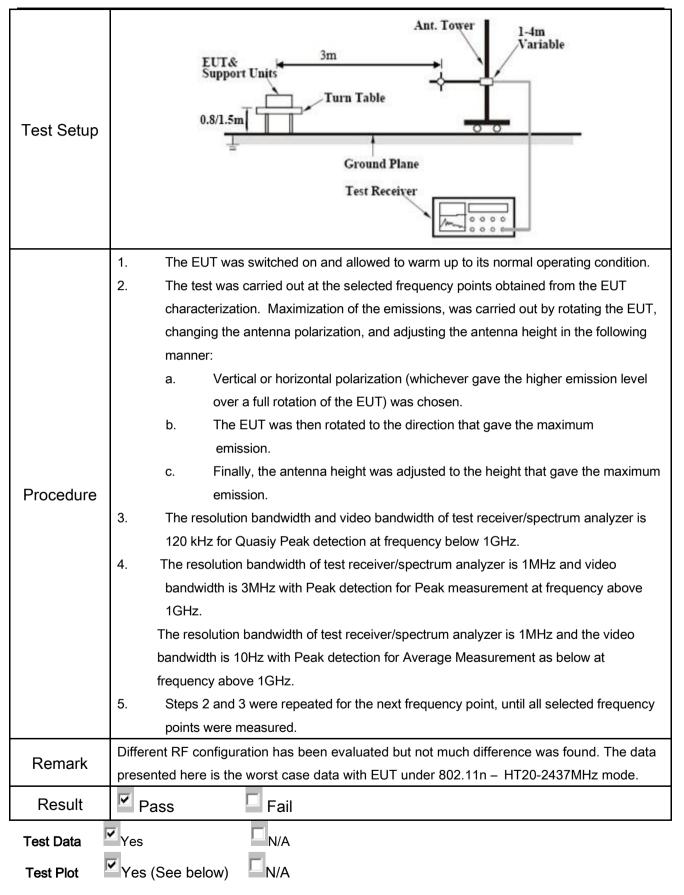
Temperature	23 °C
Relative Humidity	52%
Atmospheric Pressure	1010mbar
Test date :	May 10, 2017
Tested By :	Loren Luo

### Requirement(s):

Spec	Item	Requirement	Applicable	
	a)	Except higher limit as specified else emissions from the low-power radio exceed the field strength levels specified the level of any unwanted emission the fundamental emission. The tight edges  Frequency range (MHz)  30 - 88  88 - 216	po-frequency devices shall not excified in the following table and as shall not exceed the level of other limit applies at the band  Field Strength (µV/m)  100  150	<b>&gt;</b>
47CFR§15.		216 - 960 Above 960	200 500	
247(d), RSS210 (A8.5)	b)	For non-restricted band, In any 100 frequency band in which the spread modulated intentional radiator is oppower that is produced by the intentional radiator is oppower that is produced by the intentional radiator is oppower that is produced by the intention delay that in the 10 band that contains the highest lever determined by the measurement mused. Attenuation below the general is not required  20 dB down  30	d spectrum or digitally perating, the radio frequency ational radiator shall be at least 0 kHz bandwidth within the 1 of the desired power, bethod on output power to be	>
	c)	or restricted band, emission must a emission limits specified in 15.209	llso comply with the radiated	<b>V</b>



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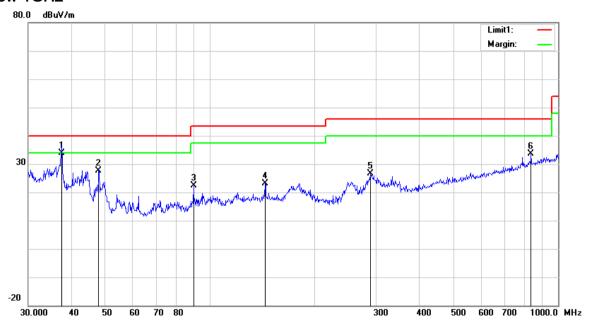




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Test Mode: Operating Mode

#### Below 1GHz



Test Data

### Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr ee
		(MHz)	(dBuV/m)	OI .	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	( )
1	V	37.4165	39.50	QP	15.79	22.26	0.77	33.80	40.00	-6.20	200	191
2	٧	47.8260	39.75	peak	9.36	22.34	0.78	27.55	40.00	-12.45	100	173
3	٧	89.5900	35.85	peak	7.98	22.32	0.96	22.47	43.50	-21.03	100	45
4	V	143.8295	31.60	peak	12.60	22.38	1.30	23.12	43.50	-20.38	100	111
5	V	289.0021	33.91	peak	13.12	22.29	1.77	26.51	46.00	-19.49	100	266
6	٧	836.2443	29.93	peak	21.80	21.05	2.89	33.57	46.00	-12.43	100	310



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### Below 1GHz



#### Test Data

### Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr ee
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	( )
1	Н	37.4165	40.30	QP	15.79	22.26	0.77	34.60	40.00	-5.40	100	185
2	Н	47.9940	40.20	peak	9.28	22.34	0.78	27.92	40.00	-12.08	100	169
3	Н	192.4186	36.92	peak	11.68	22.33	1.54	27.81	43.50	-15.69	100	291
4	П	254.7284	46.14	peak	11.61	22.29	1.71	37.17	46.00	-8.83	100	310
5	Н	289.0021	45.90	QP	13.12	22.29	1.77	38.50	46.00	-7.50	100	60
6	Н	473.8347	35.61	peak	17.18	21.86	2.27	33.20	46.00	-12.80	100	143



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### Above 1GHz

Test Mode: Transmitting Mode

### Low Channel (2402 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4804	39.02	AV	V	33.83	6.86	31.72	47.99	54	-6.01
4804	38.26	AV	Н	33.83	6.86	31.72	47.23	54	-6.77
4804	47.85	PK	V	33.83	6.86	31.72	56.82	74	-17.18
4804	47.21	PK	Н	33.83	6.86	31.72	56.18	74	-17.82
17796	24.73	AV	V	45.03	11.21	32.38	48.59	54	-5.41
17796	24.27	AV	Н	45.03	11.21	32.38	48.13	54	-5.87
17796	40.84	PK	V	45.03	11.21	32.38	64.7	74	-9.3
17796	40.19	PK	Н	45.03	11.21	32.38	64.05	74	-9.95

#### Middle Channel (2440 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4880	38.53	AV	V	33.86	6.82	31.82	47.39	54	-6.61
4880	38.44	AV	Н	33.86	6.82	31.82	47.3	54	-6.7
4880	48.58	PK	V	33.86	6.82	31.82	57.44	74	-16.56
4880	47.47	PK	Н	33.86	6.82	31.82	56.33	74	-17.67
17809	24.32	AV	V	45.15	11.18	32.41	48.24	54	-5.76
17809	24.28	AV	Н	45.15	11.18	32.41	48.2	54	-5.8
17809	40.92	PK	V	45.15	11.18	32.41	64.84	74	-9.16
17809	40.61	PK	Н	45.15	11.18	32.41	64.53	74	-9.47



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#### High Channel (2480 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4960	38.64	AV	V	33.9	6.76	31.92	47.38	54	-6.62
4960	38.42	AV	Н	33.9	6.76	31.92	47.16	54	-6.84
4960	48.51	PK	V	33.9	6.76	31.92	57.25	74	-16.75
4960	47.83	PK	Н	33.9	6.76	31.92	56.57	74	-17.43
17799	25.12	AV	V	45.22	11.35	32.38	49.31	54	-4.69
17799	24.44	AV	Н	45.22	11.35	32.38	48.63	54	-5.37
17799	41.45	PK	V	45.22	11.35	32.38	65.64	74	-8.36
17799	40.47	PK	Н	45.22	11.35	32.38	64.66	74	-9.34

#### Note:

- 1, The testing has been conformed to 10\*2480MHz=24,800MHz 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



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# Annex A. TEST INSTRUMENT

Instrument	Model	Serial#	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/16/2016	09/15/2017	~
Line Impedance	LI-125A	191106	09/24/2016	09/23/2017	~
Line Impedance	LI-125A	191107	09/24/2016	09/23/2017	<b>V</b>
LISN	ISN T800	34373	09/24/2016	09/23/2017	~
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	V
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	✓
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/16/2016	09/15/2017	~
Power Splitter	1#	1#	08/31/2016	08/30/2017	~
DC Power Supply	E3640A	MY40004013	09/16/2016	09/15/2017	~
Radiated Emissions				,	
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	~
Positioning Controller	UC3000	MF780208282	11/18/2016	11/17/2017	~
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	V
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	V
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	V
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	V
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	V



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### Annex B. EUT And Test Setup Photographs

#### Annex B.i. Photograph: EUT External Photo



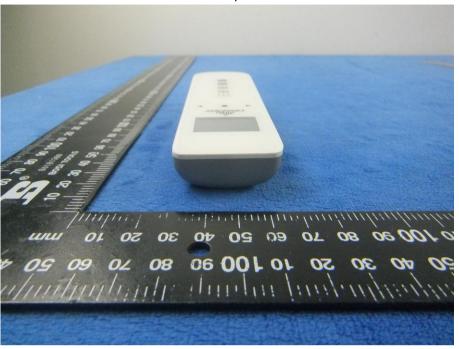
EUT - Rear View

Out 02 02 04 02 03 04 02 04 02 05 04 02



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EUT - Top View



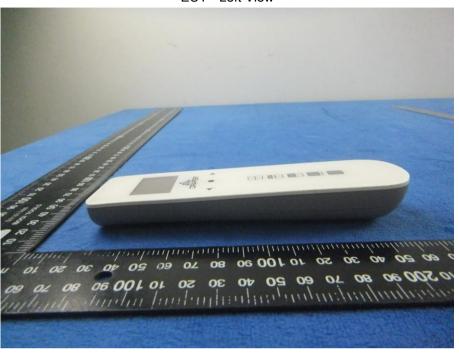
**EUT - Bottom View** 





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EUT - Left View



**EUT - Right View** 





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### Annex B.ii. Photograph: EUT Internal Photo

Cover Off - Top View 1



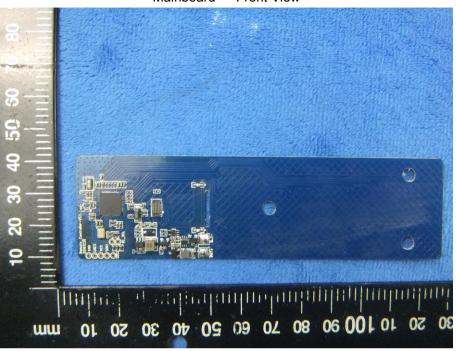
Cover Off - Top View 2



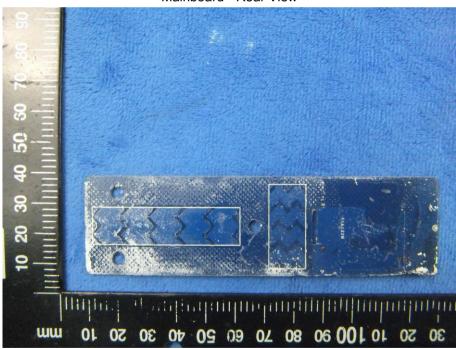


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#### Mainboard - Front View



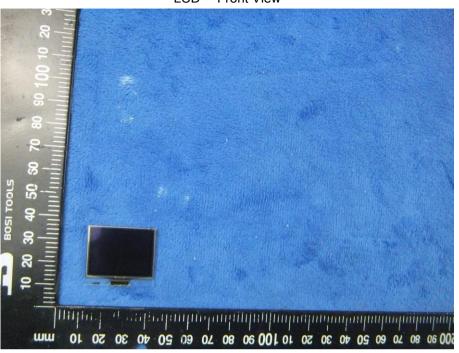
Mainboard - Rear View



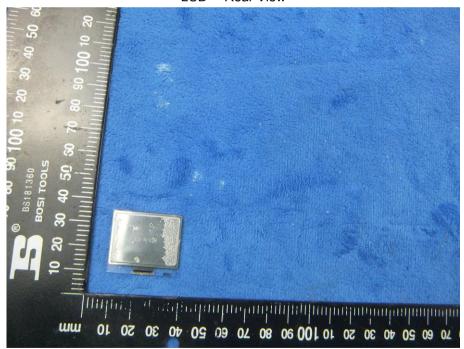


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LCD - Front View



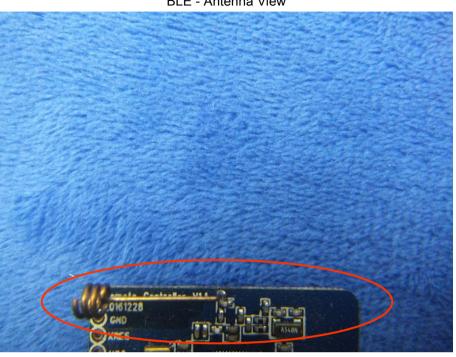
LCD - Rear View





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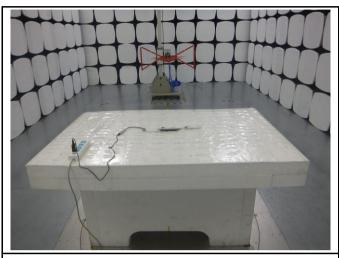
BLE - Antenna View



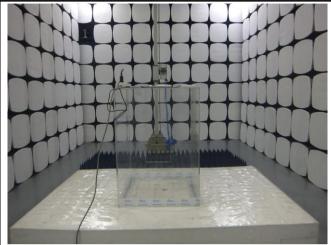


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### Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

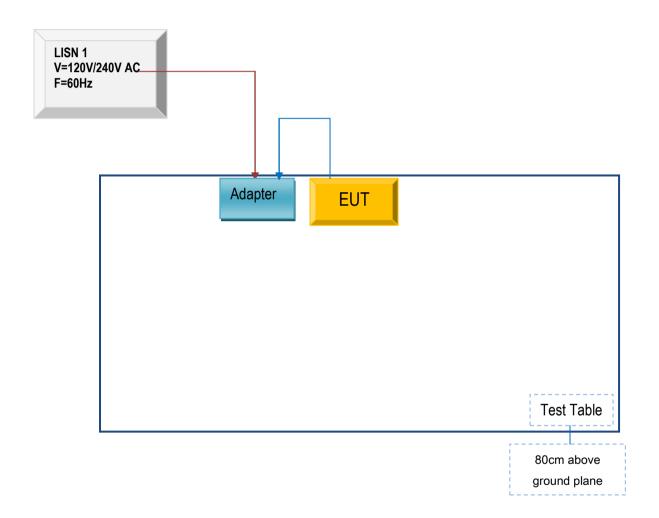


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### Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### Annex C.ii. TEST SET UP BLOCK

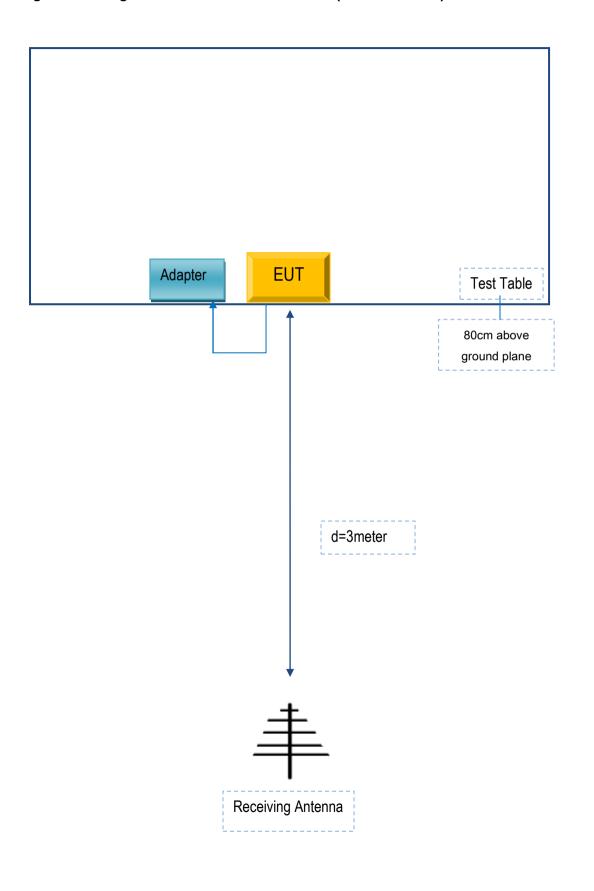
Block Configuration Diagram for AC Line Conducted Emissions





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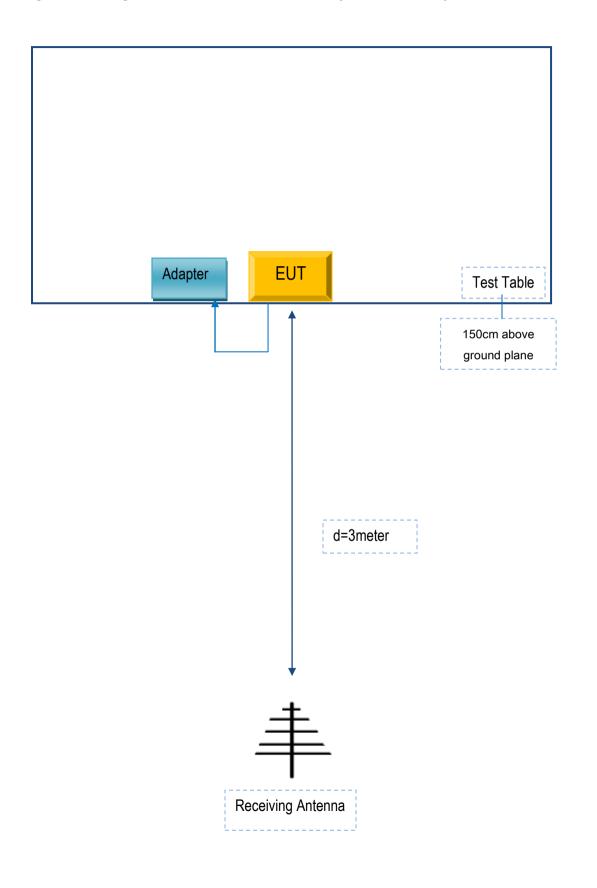
### Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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### Block Configuration Diagram for Radiated Emissions ( Above 1GHz ) .





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### Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

### Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Draper, Inc.	Adapter	P6200	SP052

### Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	SP052



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# Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see the attachment



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### Annex E. DECLARATION OF SIMILARITY

N/A