

RF EXPOSURE EVALUATION REPORT

Product Name: IP Phone

Trade Mark: GRANDSTREAM

Model No. / HVIN: GRP2615

Add. Model No. / HVIN: N/A

Report Number: 190515026RFC-5

Test Standards: FCC 47 CFR Part 1 Subpart I

RSS-102 Issue 5

Report No.: 190515026RFC-5

FCC ID: YZZGRP2615

IC: 11964A-GRP2615

Test Result: PASS

Date of Issue: July 20, 2019

Prepared for:

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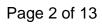
Reviewed by:

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Date:

July 20, 2019

Technical Director





Version

Version No.	Date	Description
V1.0	July 20, 2019	Original





CONTENTS

1.	GENI	ERAL INFORMATION	4
	1.1 1.2 1.3 1.4 1.5 1.6 1.7	CLIENT INFORMATION	4 4 6 8
2. 3.	EQUI MPE	PMENT LISTEVALUATION	9
	3.1 3.2 3.3 3.4	REFERENCE DOCUMENTS FOR EVALUATION MPE COMPLIANCE REQUIREMENT 3.2.1 LIMITS 3.2.2 TEST PROCEDURE MPE CALCULATION METHOD. MPE CALCULATION RESULTS 3.4.1 FOR WLAN 3.4.2 FOR BT 3.4.3 SIMULTANEOUS MULTI-BAND TRANSMISSION MPE ANALYSIS	10 10 10 10
AP AP	PENDI PENDI	X 1 PHOTOS OF TEST SETUPX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS	13

Page 4 of 13 Report No.: 190515026RFC-5

1. GENERAL INFORMATION 1.1 CLIENT INFORMATION

Applicant:	Grandstream Networks, Inc.	
Address of Applicant: 126 Brookline Ave., 3rd Floor, Boston, MA 02215, USA		
Manufacturer:	Grandstream Networks, Inc.	
Address of Manufacturer:	126 Brookline Ave., 3rd Floor, Boston, MA 02215, USA	

1.2 EUT INFORMATION

Product Name:	IP Phone			
Model No. / HVIN:	GRP2615			
Add. Model No. / HVIN:	N/A			
Trade Mark:	GRANDSTREAM			
DUT Stage:	Identical Prototype			
	2.4 GHz ISM Band:	IEEE 802.11b/g/n		
		Bluetooth V4.2		
EUT Supports Function:	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac	
Eo i Supports Function.		5 250 MHz to 5 350 MHz	IEEE 802.11a/n/ac	
		5 470 MHz to 5 725 MHz	IEEE 802.11a/n/ac	
		5 725 MHz to 5 850 MHz	IEEE 802.11a/n/ac	
Software Version:	0.4.24.21			
Hardware Version:	V1.1			

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

For BT_LE	
Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth LE
Type of Modulation:	GFSK
Number of Channels:	40
Channel Separation:	2 MHz
Antenna Type:	PCB Antenna
Antenna Gain:	3.5 dBi
Maximum Peak Power:	6.24 dBm

For BT_EDR	
Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth BR + EDR
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK, π/4DQPSK, 8DPSK
Number of Channels:	79
Channel Separation:	1 MHz
Antenna Type:	PCB Antenna
Antenna Gain:	3.5 dBi
Maximum Peak Power:	12.07 dBm

Page 5 of 13 Report No.: 190515026RFC-5

For 2.4 GHz ISM Band of W	For 2.4 GHz ISM Band of Wi-Fi		
Frequency Band:	2400 MHz to 2483.5 MHz		
Frequency Range:	2412 MHz to 2462 MHz		
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20		
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM(64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM(64-QAM, 16-QAM, QPSK, BPSK)		
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n-HT20: Up to MCS7		
Number of Channels:	IEEE 802.11b: 11 IEEE 802.11g: 11 IEEE 802.11n-HT20: 11		
Channel Separation:	5 MHz		
Antenna Type:	PCB Antenna		
Antenna Gain:	3.5 dBi		
Maximum Peak Power:	IEEE 802.11b: 17.77 dBm IEEE 802.11g: 23.69 dBm IEEE 802.11n-HT20: 23.66 dBm		

For 5 GHz U-NII Bands of Wi-Fi			
	5150 MHz to 5250 MHz (U-NII-1)		
F.,	5250 MHz to 5350 MHz (U-NII-2A)		
Frequency Bands:	5470 MHz to 5725 MHz (U-NII-2C)		
	5 725 MHz to 5 850 MHz (U-NII-3)		
	5180 MHz to 5240 MHz		
F	5260 MHz to 5320 MHz		
Frequency Ranges:	5500 MHz to 5700 MHz		
	5 745 MHz to 5 825 MHz		
Support Standards:	IEEE 802.11a/n/ac		
TPC Function:	Not Support		
DFS Operational mode:	Slave without radar Interference detection function		
	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK)		
Type of Modulation:	IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK)		
	IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)		
	IEEE 802.11a/n-HT20/ac-VHT20: 20 MHz		
Channel Spacing:	IEEE 802.11n-HT40/ac-VHT40: 40 MHz		
	IEEE 802.11ac-VHT80: 80 MHz		
	IEEE 802.11a: Up to 54 Mbps		
	IEEE 802.11n-HT20: Up to MCS7		
Data Rate:	IEEE 802.11n-HT40: Up to MCS7		
Data Nate.	IEEE 802.11ac-VHT20: Up to MCS8		
	IEEE 802.11ac-VHT40: Up to MCS9		
	IEEE 802.11ac-VHT80: Up to MCS9		
	5150 MHz to 5250 MHz:		
	4 for IEEE 802.11a/n-HT20/ac-VHT20		
Number of Channels:	2 for IEEE 802.11n-HT40)/ac-VHT40		
Humber of Chaimers.	1 for IEEE 802.11acVHT80		
	5250 MHz to 5350 MHz:		
	4 for IEEE 802.11a/n-HT20/ac-VHT20		



Page 6 of 13 Report No.: 190515026RFC-5

	2 for IEEE 90	2 11n UT40\/a	o \/UT40		
	2 for IEEE 802.11n-HT40)/ac-VHT40 1 for IEEE 802.11acVHT80				
	5470 MHz to 5725 MHz:				
	11 for IEEE 802.11a/n-HT20/ac-VHT20				
		2.11n-HT40/ac			
	2 for IEEE 802	2.11ac-VHT80			
	5725 MHz to 5850 MHz	z:			
		2.11a/n-HT20/a			
		2.11n-HT40/ac			
A		2.11ac-VHT80			
Antenna Type:	PCB Antenna	0.5 ID:			
	5150 MHz to 5250 MH				
Antenna Gain:	5250 MHz to 5350 MH:				
	5470 MHz to 5725 MH				
	5725 MHz to 5850 MH	z: 3.5 dBi	_		
	Chain 0	U-NII-1			
	IEEE 802.11a:		19.54		
	IEEE 802.11n-HT20:		19.03		
Maximum EIRP (dBm):	IEEE 802.11n-HT40:		17.16		
	IEEE 802.11ac-VHT20:		18.89		
	IEEE 802.11ac-VHT40	:	17.07		
	IEEE 802.11ac-VHT80	:	12.78		
		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	IEEE 802.11a:	16.04	16.11	14.93	14.15
	IEEE 802.11n-HT20:	15.53	15.79	14.66	14.57
Maximum conducted	IEEE 802.11n-HT40:	13.66	14.09	12.92	12.72
output power (dBm):	IEEE 802.11ac- VHT20	15.39	15.80	14.52	14.45
	IEEE 802.11ac- VHT40	13.57	13.89	12.85	12.73
	IEEE 802.11ac- VHT80:	9.28	11.26	10.11	13.87

1.40THER INFORMATION

Test channels for BT_LE					
Type of Modulation	Type of Modulation Tx/Rx Frequency Test RF Channel Lists				
		Lowest(L)	Middle(M)	Highest(H)	
GFSK	2402 MHz to 2480 MHz	Channel 0	Channel 19	Channel 39	
		2402 MHz	2440 MHz	2480 MHz	

Test channels for BT_EDR					
Mode	Tx/Rx Frequency	Test RF Channel Lists			
Wode		Lowest(L)	Middle(M)	Highest(H)	
GFSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78	
(DH1, DH3, DH5)		2402 MHz	2441 MHz	2480 MHz	
π/4DQPSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78	
(DH1, DH3, DH5)		2402 MHz	2441 MHz	2480 MHz	
8DPSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78	
(DH1, DH3, DH5)		2402 MHz	2441 MHz	2480 MHz	



Test channels for 2.4 GHz ISM Band of Wi-Fi					
Modo	Tx/Rx Frequency	Test RF Channel Lists			
Mode		Lowest(L)	Middle(M)	Highest(H)	
IEEE 802.11b	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11	
		2412 MHz	2437 MHz	2462 MHz	
IEEE 802.11g	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11	
		2412 MHz	2437 MHz	2462 MHz	
IEEE 802.11n-HT20	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11	
		2412 MHz	2437 MHz	2462 MHz	

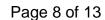
Test channels for 5 GH	z U-NII Bands of Wi-Fi			
Mode	Ty/Dy Eroguenov	1	Test RF Channel Lis	sts
Wode	Tx/Rx Frequency	Lowest(L)	Middle(M)	Highest(H)
	5150 MHz to 5250 MHz	Channel 36	Channel 44	Channel 48
	3130 MHZ 10 3230 MHZ	5180 MHz	5220 MHz	5240 MHz
	5250 MHz to 5350 MHz	Channel 52	Channel 60	Channel 64
IEEE 802.11a IEEE 802.11n-HT20	3230 MITZ 10 3330 MITZ	5260 MHz	5300 MHz	5320 MHz
IEEE 802.1111-H120	5470 MHz to 5725 MHz	Channel 100	Channel 116	Channel 140
		5500 MHz	5580 MHz	5700 MHz
	5725 MHz to 5850 MHz	Channel 149	Channel 157	Channel 165
	3723 WITZ 10 3030 WITZ	5745 MHz	5785 MHz	5825 MHz
	5150 MHz to 5250 MHz	Channel 38		Channel 46
	3130 WH12 to 3230 WH12	5190 MHz		5230 MHz
	5250 MHz to 5350 MHz	Channel 54		Channel 62
IEEE 802.11n-HT40	3230 MITZ 10 3330 MITZ	5270 MHz		5310 MHz
IEEE 802.11ac-VHT40	5470 MHz to 5725 MHz	Channel 102	Channel 110	Channel 134
	3470 MINZ 10 3723 MINZ	5510 MHz	5550 MHz	5670 MHz
	5725 MHz to 5850 MHz	Channel 151		Channel 159
	37 23 WILIZ 10 3030 WILIZ	5755 MHz		5795 MHz
	5150 MHz to 5250 MHz	-	Channel 42	
	3130 WH12 to 3230 WH12	1	5210 MHz	
	5250 MHz to 5350 MHz		Channel 58	
IEEE 802.11ac-VHT80	3230 WITZ 10 3330 WITZ	-	5290 MHz	
	5470 MHz to 5725 MHz	Channel 106		
	J470 MITIZ 10 3723 MITIZ	5530 MHz		
	5725 MHz to 5850 MHz		Channel 155	
	37 23 IVII 12 10 3030 IVII 12		5775 MHz	

1.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC 47 CFR Part 1 Subpart I RSS-102 Issue 5

All test items have been performed and recorded as per the above standards





1.6 DEVIATION FROM STANDARDS

None.

1.7 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.8 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

2. EQUIPMENT LIST

Please refer to the RF test report.



3. MPE EVALUATION

3.1 REFERENCE DOCUMENTS FOR EVALUATION

No.	Identity	Document Title			
1	FCC 47 CFR Part 1 Subpart I PROCEDURES IMPLEMENTING THE NATION ENVIRONMENTAL POLICY ACT OF 1969				
2	RSS-102 Issue 5 Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)				
3	KDB 447498 D01 General RF Exposure Guidance v06	RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES			

Report No.: 190515026RFC-5

3.2 MPE COMPLIANCE REQUIREMENT

3.2.1 Limits

3.2.1.1 FCC 47 CFR Part 1 Subpart I

According to §1.1307(b)(1), system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

Limits for Occupational / Controlled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Strength (E) Strength (H)		Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500	1	1	F/300	6
1500-100000	1	1	5	6

Limits for General Population / Uncontrolled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Times E ², H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500		1	F/1500	30
1500-100000			1	30

Note: f = frequency in MHz: * = Plane-wave equivalents power density.



Page 10 of 13 Report No.: 190515026RFC-5

3.2.1.2 RSS-102 Issue 5

According to RSS-102 Issue 5, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

According to RSS-102 Issue 5, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- below 20 MHz⁶ and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1.31 x $10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz:
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

3.2.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.3 MPE CALCULATION METHOD

FCC 47 CFR Part 1 Subpart I

 $S = PG/4\pi R^2 = EIRP/4\pi R^2$

S = power density (in appropriate units, e.g., mw/cm2)

P = power input to the antenna (in appropriate units, e.g., mw)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor is normally numeric gain.

R = distance to the center of radiation of the antenna (in appropriate units, e.g., cm)

3.4 MPE CALCULATION RESULTS

Note: For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

3.4.1 For WLAN

For Wi-Fi function, operating at 2412MHz to 2462 MHz for IEEE802.11b/g/n and operating at 5150 MHz to 5250 MHz for IEEE802.11a/n/ac and operating at 5250 MHz to 5350 MHz for IEEE802.11a/n/ac and operating at 5470 MHz to 5725 MHz for IEEE802.11a/n/ac and operating at 5725 MHz to 5850 MHz for IEEE802.11a/n/ac.

3.4.1.1 Antenna Type:

Chain 0: PCB Antenna

3.4.1.2 Antenna Gain:

Chain 0: 2412MHz to 2462 MHz: 3.5 dBi

Page 11 of 13 Report No.: 190515026RFC-5

5150 MHz to 5250 MHz: 3.5 dBi 5250 MHz to 5350 MHz: 3.5 dBi 5470 MHz to 5725 MHz: 3.5 dBi 5725 MHz to 5850 MHz: 3.5 dBi

3.4.1.3 Results for FCC 47 CFR Part 1 Subpart I

Operating Mode	Freq.	Declared maximum conducted average output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value
	(MHz)	(dBm)		(dBi)	(dBm)	(mW)	(mW	/cm²)
IEEE 802.11b	2412-2462	14	2	3.5	19.5	89.1251	1	0.0177
IEEE 802.11g	2412-2462	13	2	3.5	18.5	70.7946	1	0.0141
	5180-5240	15	2	3.5	20.5	112.2018	1	0.0223
IEEE 802.11a	5260-5320	15	2	3.5	20.5	112.2018	1	0.0223
IEEE 602.11a	5500-5700	15	2	3.5	20.5	112.2018	1	0.0223
	5745-5825	14	2	3.5	19.5	89.1251	1	0.0177
IEEE 802.11n- HT20	2412-2462	13	2	3.5	18.5	70.7946	1	0.0141
	5180-5240	15	2	3.5	20.5	112.2018	1	0.0223
IEEE 802.11n- HT20/ ac-	5260-5320	15	2	3.5	20.5	112.2018	1	0.0223
VHT20	5500-5700	14	2	3.5	19.5	89.1251	1	0.0177
	5745-5825	15	2	3.5	20.5	112.2018	1	0.0223
	5190-5230	13	2	3.5	18.5	70.7946	1	0.0141
IEEE 802.11n- HT40/ ac-	5270-5310	13	2	3.5	18.5	70.7946	1	0.0141
VHT40	5510-5670	13	2	3.5	18.5	70.7946	1	0.0141
	5755-5795	13	2	3.5	18.5	70.7946	1	0.0141
	5210	8	2	3.5	13.5	22.3872	1	0.0045
IEEE 802.11ac-	5290	10	2	3.5	15.5	35.4813	1	0.0071
VHT80	5530	10	2	3.5	15.5	35.4813	1	0.0071
	5775	15	2	3.5	20.5	112.2018	1	0.0223

3.4.1.4 Results for RSS-102 Issue 5

Operating Mode	Freq.	Declared maximum conducted average output power	Max. positive Tolerance according manufacturer	Directional Gain	Calculated maximum EIRP	Declared maximum EIRP	Limit
	(MHz)	(dB	Sm)	(dBi)	(dBm)	(W)	(W)
IEEE 802.11b	2412-2462	14	2	3.5	19.5	0.0891	2.6840
IEEE 802.11g	2412-2462	13	2	3.5	18.5	0.0708	2.6840
	5180-5240	15	2	3.5	20.5	0.1122	4.5253
IEEE 802.11a	5260-5320	15	2	3.5	20.5	0.1122	4.5729
IEEE 002.11a	5500-5700	15	2	3.5	20.5	0.1122	4.7145
	5745-5825	14	2	3.5	19.5	0.0891	4.8570
IEEE 802.11n- HT20	2412-2462	13	2	3.5	18.5	0.0708	2.6840
	5180-5240	15	2	3.5	20.5	0.1122	4.5253
IEEE 802.11n- HT20/ ac-	5260-5320	15	2	3.5	20.5	0.1122	4.5729
VHT20	5500-5700	14	2	3.5	19.5	0.0891	4.7145
	5745-5825	15	2	3.5	20.5	0.1122	4.8570
	5190-5230	13	2	3.5	18.5	0.0708	4.5312
IEEE 802.11n- HT40/ ac-	5270-5310	13	2	3.5	18.5	0.0708	4.5789
VHT40	5510-5670	13	2	3.5	18.5	0.0708	4.7204
	5755-5795	13	2	3.5	18.5	0.0708	4.8628
	5210	8	2	3.5	13.5	0.0224	4.5432
IEEE 802.11ac-	5290	10	2	3.5	15.5	0.0355	4.5907
VHT80	5530	10	2	3.5	15.5	0.0355	4.7321
	5775	15	2	3.5	20.5	0.1122	4.8743

Page 12 of 13 Report No.: 190515026RFC-5

3.4.2 For BT

For BT_LE function, operating at 2402MHz to 2480 MHz for GFSK and For BT_EDR function, operating at 2402MHz to 2480 MHz for GFSK, $\pi/4$ DQPSK, 8DPSK

3.4.2.1 Antenna Type:

Chain 0: PCB Antenna

3.4.2.2 Antenna Gain:

Chain 0: 2402MHz to 2480 MHz: 3.5 dBi

3.4.2.3 Results for FCC 47 CFR Part 1 Subpart I

Operating Mode	Freq.	Declared maximum conducted average output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(mW)	(mW/d	cm²)
LE	2402- 2480	2	1	3.5	6.5	4.4668	1	0.0009
EDR	2402- 2480	8	2	3.5	13.5	22.3872	1	0.0045

3.4.2.4 Results for RSS-102 Issue 5

Operating Mode	Freq.	Declared maximum conducted average output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	Limit
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(W)	(W)
LE	2402-2480	2	1	3.5	6.5	0.0045	2.6764
EDR	2402-2480	8	2	3.5	13.5	0.0224	2.6764

3.4.3 Simultaneous Multi-band Transmission MPE Analysis

3.4.4.1 List of Mode for Simultaneous Multi-band Transmission

No.	Configurations	Support/Not Support
1	2.4G _WLAN + BT	Not Support
2	5G_WLAN + BT	Not Support

3.4.4.2 Results for transmit simultaneously

Not applicable.



Page 13 of 13

APPENDIX 1 PHOTOS OF TEST SETUP

Not applicable

Report No.: 190515026RFC-5

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal Photos.

*** End of Report ***

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