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FCC Test Report

Report No.: AGC00737180515FE03

FCC ID	: 2AMH2BH099A
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	I : MINI WIRELESS EARBUD
BRAND NAME	: MPOW
MODEL NAME	: BH099A
CLIENT	- MPOW TECHNOLOGY CO., LIMITED
DATE OF ISSUE	: Jun. 05, 2018
STANDARD(S) TEST PROCEDURE(S)	: FCC Part 15 Subpart C Section 15.249
REPORT VERSION	: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Version Revise Time		Issued Date Valid Version		Notes		
V1.0 /		Jun. 05, 2018	Valid	Initial release		

Report Revise Record

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Applicant	MPOW TECHNOLOGY CO., LIMITED
Address	RM 603, 6/F, HANG PONT COMM BLDG 31 TONKIN ST, CHEUNG SHA WAN KL, HK, CHINA
Manufacturer	MPOW TECHNOLOGY CO., LIMITED
Address	RM 603, 6/F, HANG PONT COMM BLDG 31 TONKIN ST, CHEUNG SHA WAN KL, HK, CHINA
Product Designation	MINI WIRELESS EARBUD
Brand Name	MPOW
Test Model	ВН099А
Date of test	May 23, 2018 to May 31, 2018
Deviation	None
Condition of Test Sample	Normal CC CC CC
Report Template	AGCRT-US-BR/RF

1. VERIFICATION OF CONFORMITY

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Tested By

Jonhen Wang

Jonhen Wang(Wang Yonghuan) May 31, 2018

we chang

Reviewed By

Cool Cheng(Cheng Mengguo) Jun. 05, 2018

Forvesto en

Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

Jun. 05, 2018

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2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-1.52dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.1 • 5 2 4 6 6 6 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79
Hardware Version	4.1
Software Version	4.0
Antenna Designation	Ceramic Antenna
Antenna Gain	2.12dBi
Power Supply	DC 3.7V by battery
Note: The BT function of E	UT isn't work when charging.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency
NO S	0	2402MHz
The Barrense	· *****	2403MHz
C Standard Color	GC : CC	
	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
The transferrer @ The Transferrer Contractor	40 0	2442 MHz
of colored and a		
	77	2479 MHz
The Hannes	78	2480 MHz

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

NO. **TEST MODE DESCRIPTION** 1 Low channel GFSK 2 Middle channel GFSK 3 High channel GFSK 4 Low channel π /4-DQPSK Middle channel π /4-DQPSK 5 6 High channel π /4-DQPSK 7 Low channel 8DPSK 8 Middle channel 8DPSK 9 High channel 8DPSK 10 **BT** Link

4. DESCRIPTION OF TEST MODES

Note:

1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. The EUT used fully-charged battery when tested.

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	Software Setting	C The stor of Gold Cold
RF Control Kit vl.	0	
Interface © UART © USB	COM Port Info. COM Port: COM1 Baud Rate: 115200	
Back to Default RF Trim Channel: 0x 27	(00 ~ 4E) Hopping:	OFF 💌
Power: 0x 02 Poll Period : 0x 01	(00 ~ 03) Tx Modulation Packet type:	
Scenario type: 0x04 + 1	Crystal Trim:	0x 11 (00 ~ 1F)
TX	RX	Test Mode

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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)

			(Con		Jobal Col
EUT	Hatlon	Control box	0.0.	PC	

5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
1	MINI WIRELESS EARBUD	MPOW	BH099A	EUT
2	Battery	MEIMI	581013	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	ISSC	N/A	A.E
5	USB Cable	N/A	1m unshielded	A.E
6	IPOD	APPLE	A1367	A.E

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5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249(a) §15.209	Radiated Emission	Compliant
§15.249(d)	Band Edges	Compliant
§15.207	Conduction Emission	N/A
§15.215	Bandwidth	Compliant

Note: N/A means it's not applicable to this item.

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd			
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012			
NVLAP Lab Code	600153-0			
Designation Number	CN5028			
Test Firm Registration Number	682566			
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0			

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7. TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	МХТ	RS1	R006	June 6, 2017	June 5, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	station of Course C	Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2017	Jun.19, 2018

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9. RADIATED EMISSION

9.1. TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50 6 6	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency	Distance	Field Strengths Limit					
(MHz)	Meters	μ V/m	dB(µV)/m				
0.009 ~ 0.490	300	2400/F(kHz)					
0.490 ~ 1.705	30	24000/F(kHz)					
1.705 ~ 30	30	30	E England Con Call				
30 ~ 88	3	100	40.0				
88 ~ 216	3	150	43.5				
216 ~ 960	3	200	46.0				
960 ~ 1000	3	500	54.0				
Above 1000	3 South States	Other:74.0 dB(µV)/m (Average)	(Peak) 54.0 dB(µV)/m				

Remark: (1) Emission level dB μ V = 20 log Emission level μ V/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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9.2. MEASUREMENT PROCEDURE

- The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- 3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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Setting
9KHz~150KHz/RB 200Hz for QP
150KHz~30MHz/RB 9KHz for QP
30MHz~1000MHz/RB 120KHz for QP
Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average
Setting
9KHz~150KHz/RB 200Hz for QP
150KHz~30MHz/RB 9KHz for QP
30MHz~1000MHz/RB 120KHz for QP

The following table is the setting of spectrum analyzer and receiver.

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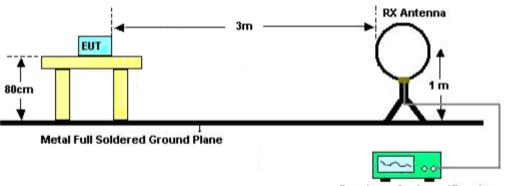


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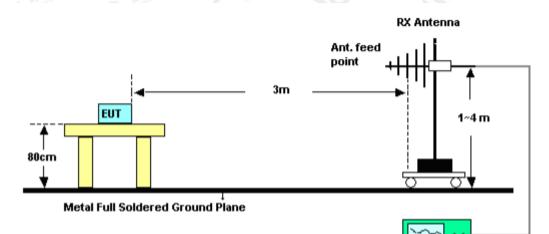
9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



Spectrum Analyzer / Receiver

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



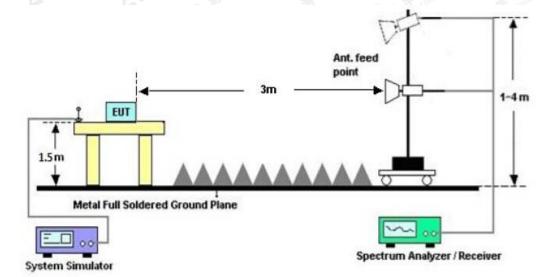
Spectrum Analyzer / Receiver

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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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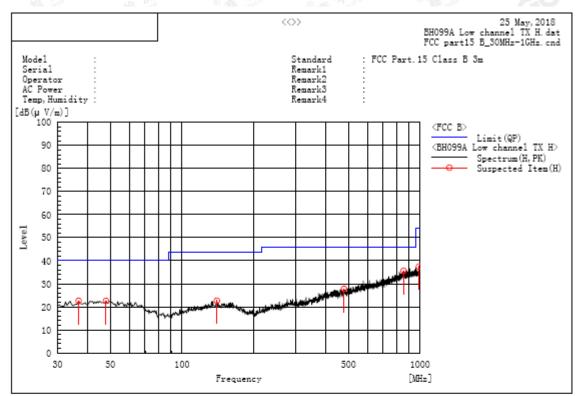
9.4. TEST RESULT

(Worst modulation: 8DPSK)

RADIATED EMISSION BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz. **RADIATED EMISSION BELOW 1GHz**

RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



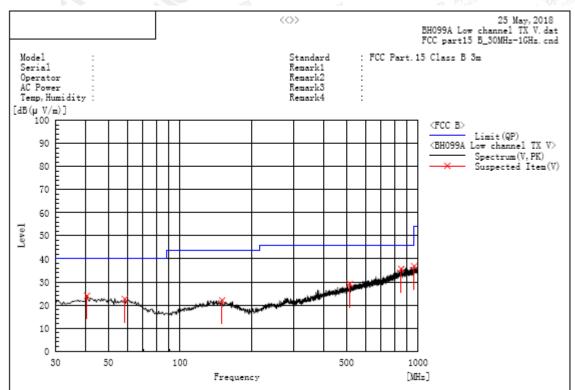
A. Suspected List:

J. G	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	36.790	Н	5.8	16.8	22.6	40.0	17.4	Pass	200.0	16.8
	47.945	н	5.4	17.2	22.6	40.0	17.4	Pass	100.0	287.9
	140.095	Н	6.1	16.6	22.7	43.5	20.8	Pass	100.0	176.6
	479.110	Н	5.2	22.6	27.8	46.0	18.2	Pass	150.0	214.3
	853.045	н	6.1	29.6	35.7	46.0	10.3	Pass	150.0	178.6
	988.360	Н	6.5	31.0	37.5	54.0	16.5	Pass	200.0	304.7

RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL

A. Suspected List:

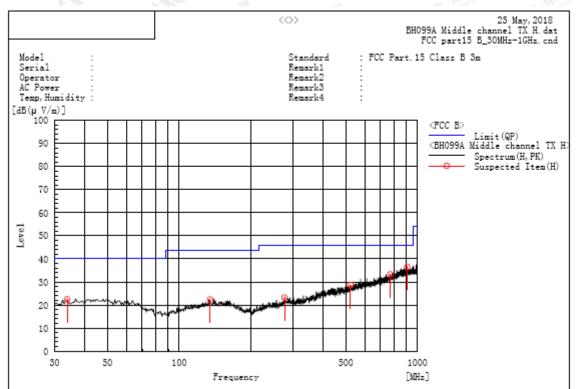
	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	40.670	v	6.7	17.4	24.1	40.0	15.9	Pass	100.0	344.7
	58.615	v	6.2	16.4	22.6	40.0	17.4	Pass	100.0	308.3
	150.280	v	5.4	16.6	22.0	43.5	21.5	Pass	100.0	269.1
	516.455	v	6.0	23.2	29.2	46.0	16.8	Pass	100.0	270.5
3	848.680	v	6.1	29.6	35.7	46.0	10.3	Pass	100.0	269.1
	962.655	v	6.0	30.8	36.8	54.0	17.2	Pass	150.0	215.7

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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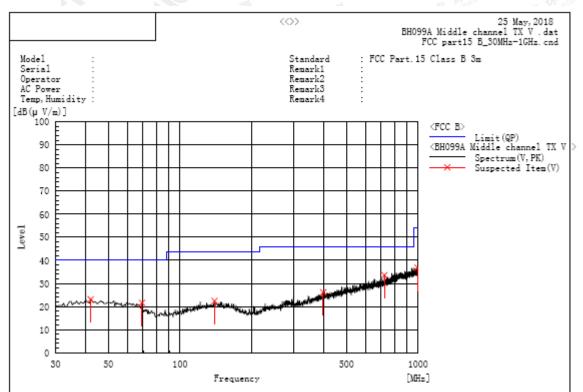
RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
33.880	н	6.5	16.0	22.5	40.0	17.5	Pass	150.0	287.8
134.760	Н	5.9	16.5	22.4	43.5	21.1	Pass	150.0	287.8
276.865	н	5.7	17.6	23.3	46.0	22.7	Pass	200.0	16.8
523.245	Н	5.4	23.3	28.7	46.0	17.3	Pass	100.0	287.9
769.625	Н	5.3	28.0	33.3	46.0	12.7	Pass	200.0	197.5
905.910	н	6.4	30.2	36.6	46.0	9.4	Pass	200.0	197.5

RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL -VERTICAL

A. Suspected List:

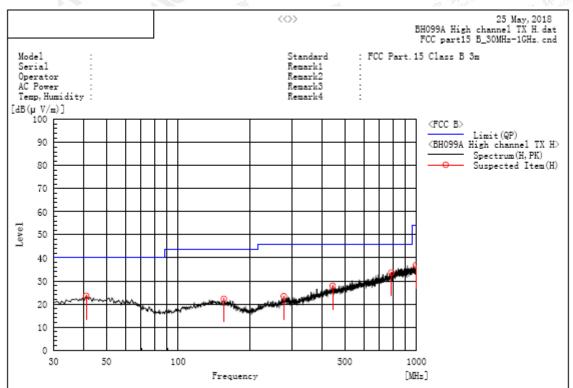
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
42.125	v	5.8	17.4	23.2	40.0	16.8	Pass	100.0	55.3
69.285	v	7.0	14.6	21.6	40.0	18.4	Pass	200.0	33.7
139.610	v	5.9	16.6	22.5	43.5	21.0	Pass	200.0	33.7
399.570	v	5.4	20.8	26.2	46.0	19.8	Pass	100.0	55.3
721.610	v	6.8	26.8	33.6	46.0	12.4	Pass	150.0	254.2
994.180	v	5.7	31.1	36.8	54.0	17.2	Pass	150.0	182.1

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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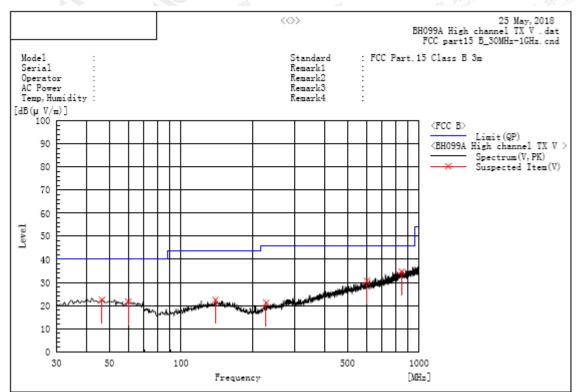
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg	.01
41.155	н	6.1	17.4	23.5	40.0	16.5	Pass	100.0	106.3	1
155.615	Н	5.7	16.6	22.3	43.5	21.2	Pass	150.0	4.9	
277.350	Н	5.8	17.6	23.4	46.0	22.6	Pass	150.0	4.9	1
445.160	Н	5.9	22.0	27.9	46.0	18.1	Pass	100.0	34.2	ľ
783.690	Н	5.3	28.4	33.7	46.0	12.3	Pass	150.0	112.1	
994.665	н	5.8	31.1	36.9	54.0	17.1	Pass	150.0	112.1	5

RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
46.490	v	5.3	17.2	22.5	40.0	17.5	Pass	150.0	73.6
60.070	v	5.5	16.2	21.7	40.0	18.3	Pass	150.0	110.0
139.610	v	5.9	16.6	22.5	43.5	21.0	Pass	200.0	33.7
227.880	v	5.8	15.5	21.3	46.0	24.7	Pass	150.0	37.8
603.755	v	5.7	25.0	30.7	46.0	15.3	Pass	200.0	287.8
844.800	v	5.2	29.5	34.7	46.0	11.3	Pass	150.0	37.8

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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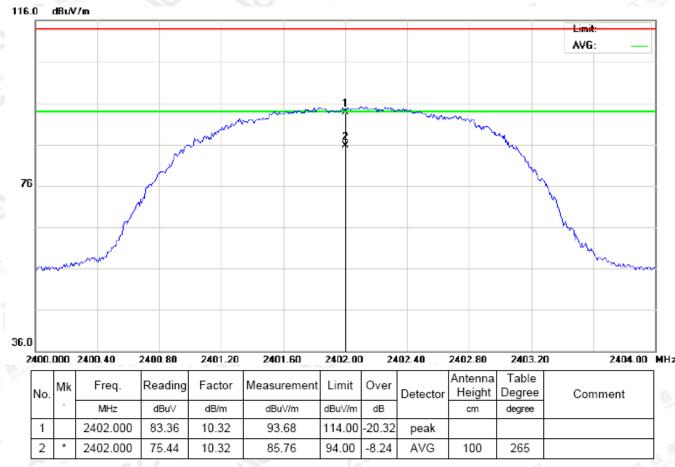
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: 8DPSK)

For Fundamental

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



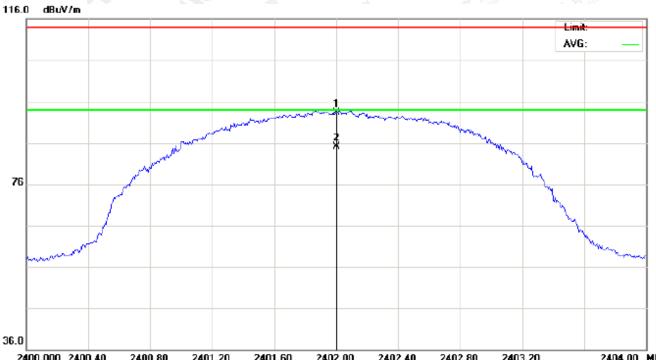
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

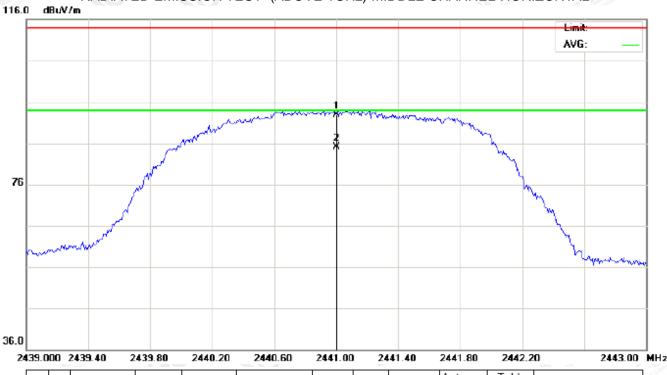
24	400.000 2400.40		2400.80 2401.2		2401.60 2402.00		24	02.40	2402.80 2403.20		0 2404.00	MHz	
No.		Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	00
Ľ		•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB			degree		
	1		2402.000	82.93	10.32	93.25	114.00	-20.75	peak]
	2	*	2402.000	74.88	10.32	85.20	94.00	-8.80	AVG	100	302]

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

		12525	-EX0*					100				3464		
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment		
		-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB				cm	degree	
	1		2441.000	82.62	10.36	92.98	114.00	-21.02	peak					
NK N	2	*	2441.000	74.70	10.36	85.06	94.00	-8.94	AVG	100	263			

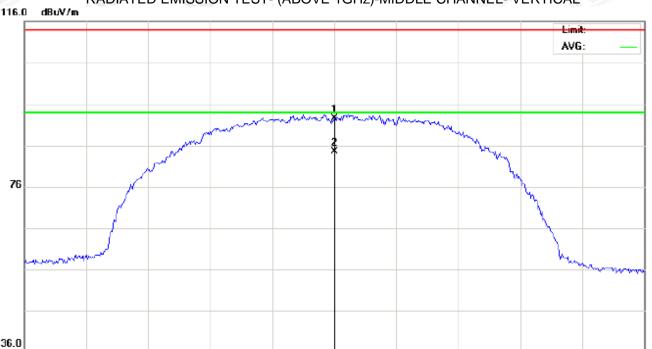
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL

36.0

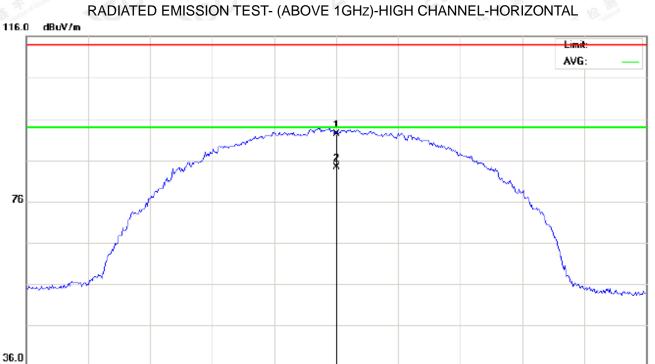
2	439.0	000	2439.40	2439.80	2440.20	2440.60	2441.00	24	41.40	2441.80	2442.20	0 2443.00	MHz
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment	Jalo
		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree		
	1		2441.000	82.12	10.36	92.48	114.00	-21.52	peak]
	2	*	2441.000	74.16	10.36	84.52	94.00	-9.48	AVG	100	132]

RESULT: PASS

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2	478.0	000	2478.40	2478.80	2479.20	2479.60	2480.00) 24	180.40	2480.80	2481.20	0 2482.00	MHz
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment	oalConn
		-	MHz	dBu∨	dB/m	dBu∨/m	dBuV/m	dB		cm	degree		
	1		2480.000	81.90	10.41	92.31	114.00	-21.69	peak				
	2	*	2480.000	73.91	10.41	84.32	94.00	-9.68	AVG	100	342		

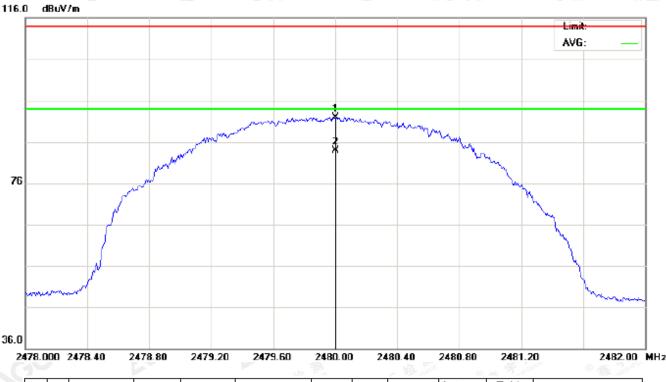
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL

	_					Salara	- 230		and the same	1941	LEL AV	254.5P
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
~		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
aŭ	1		2480.000	81.47	10.41	91.88	114.00	-22.12	peak			
	2	*	2480.000	73.49	10.41	83.90	94.00	-10.10	AVG	100		

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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Field strength of the fundamental signal

3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	83.36	10.32	93.68	114	-20.32	Horizontal	
2402	82.93	10.32	93.25	114	-20.75	Vertical	
2441	82.62	10.36	92.98	114 🐋	-21.02	Horizontal	
2441	82.12	10.36	92.48	114	-21.52	Vertical	
2480	81.90	10.41	92.31	114	-21.69	Horizontal	
2480	81.47	10.41	91.88	114	-22.12	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	75.44	10.32	85.76	94	-8.24	Horizontal
2402	74.88	10.32	85.20	94	-8.80	Vertical
2441	74.70	10.36	85.06	94	-8.94	Horizontal
2441	74.16	10.36	84.52	94	-9.48	Vertical
2480	73.91	10.41	84.32	94	-9.68	Horizontal
2480	73.49	10.41	83.90	94	-10.10	Vertical

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1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	82.89	10.32	93.21	114	-20.79	Horizontal	
2402	82.47	10.32	92.79	114	-21.21	Vertical	
2441	82.17	10.36	92.53	114	-21.47	Horizontal	
2441	81.73	10.36	92.09	114	-21.91 ,	Vertical	
2480	81.51	10.41	91.92	114	-22.08	Horizontal	
2480	80.94	10.41	91.35	114	-22.65	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	75.03	10.32	85.35	94	-8.65	Horizontal
2402	74.59	10.32	84.91	94	-9.09	Vertical
2441	74.22	10.36	84.58	94	-9.42	Horizontal
2441	73.69	10.36	84.05	94	-9.95	Vertical
2480	73.53	10.41	83.94	94	-10.06	Horizontal
2480	73.05	10.41	83.46	94	-10.54	Vertical

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2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	82.40	10.32	92.72	114	-21.28	Horizontal	
2402	82.12	10.32	92.44	114	-21.56	Vertical	
2441	81.81	10.36	92.17	114	-21.83	Horizontal	
2441	81.35	10.36	91.71	114	-22.29	Vertical	
2480	81.12	10.41	91.53	114	-22.47	Horizontal	
2480	80.53	10.41	90.94	114	-23.06	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	74.62	10.32	84.94	94	-9.06	Horizontal
2402	74.21	10.32	84.53	94	-9.47	Vertical
2441	73.83	10.36	84.19	94	-9.81	Horizontal
2441	73.33	10.36	83.69	94	-10.31	Vertical
2480	73.07	10.41	83.48	94	-10.52	Horizontal
2480	72.61	10.41	83.02	94	-10.98	Vertical

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(Worst modulation: 8DPSK)

For Harmonics

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



1	No.		•						Detector	Height	Degree	Comment
		-	MHz	dBu∨	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
	1		1875.000	34.43	8.57	43.00	74.00	-31.00	peak			
	2		3375.000	32.82	11.99	44.81	74.00	-29.19	peak			
4	3	*	4804.000	42.71	7.69	50.40	74.00	-23.60	peak			

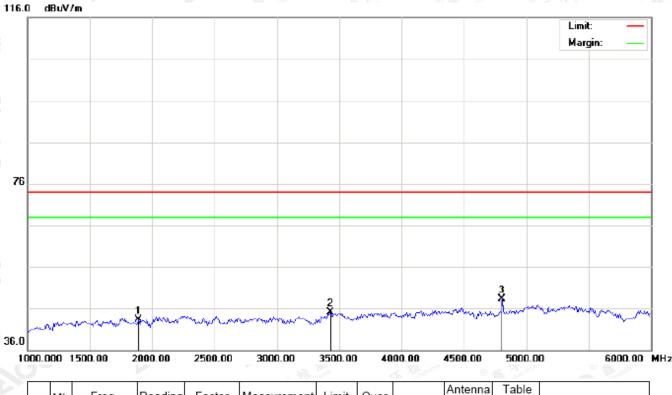
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
ं 1		1891.667	34.51	8.74	43.25	74.00	-30.75	peak			
2		3433.333	33.04	12.05	45.09	74.00	-28.91	peak			
3	*	4804.000	40.55	7.69	48.24	74.00	-25.76	peak			

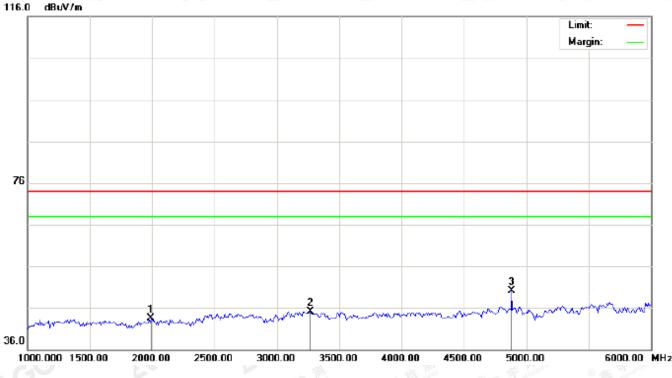
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

No	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		1991.667	33.70	9.79	43.49	74.00	-30.51	peak			
2		3266.667	33.19	11.89	45.08	74.00	-28.92	peak			
3	*	4882.000	42.16	7.89	50.05	74.00	-23.95	peak			

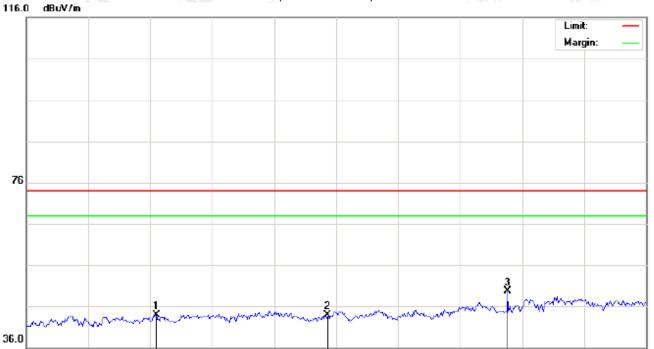
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL

6000.00 MHz 1000.000 1500.00 2000.00 2500.00 3000.00 3500.00 4000.00 4500.00 5000.00 Antenna Table Freq. Reading Measurement Over Mk Factor Limit Height Degree No. Detector Comment MHz dBu∀ dB/m dBuV/m dBuV/m dB cm degree 2050.000 33.94 74.00 -30.13 1 9.93 43.87 peak 2 3433.333 31.78 12.05 43.83 74.00 -30.17 peak 3 4882.000 41.89 7.89 49.78 74.00 24.22 peak

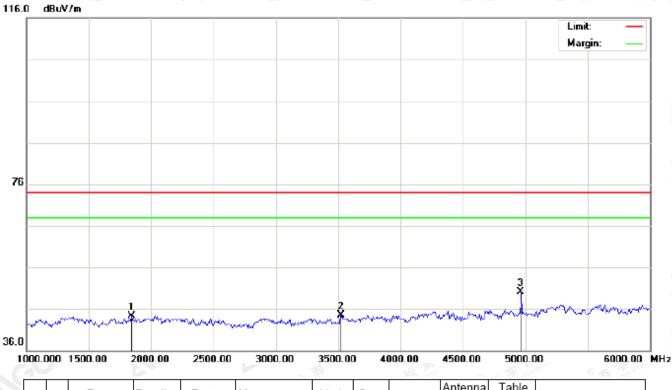
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL

No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		1841.667	36.07	8.21	44.28	74.00	-29.72	peak			
2		3525.000	32.29	12.26	44.55	74.00	-29.45	peak			
3	*	4960.000	42.10	8.09	50.19	74.00	-23.81	peak			

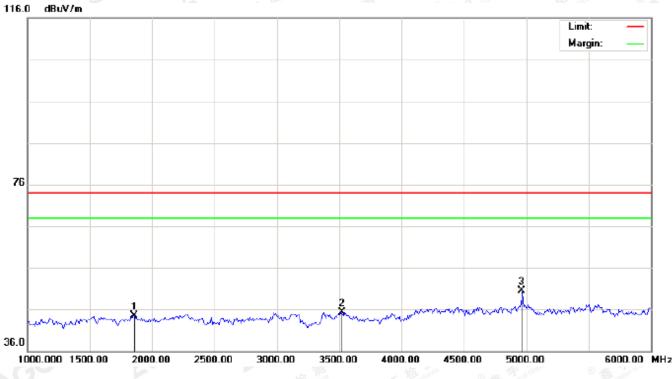
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL

1.1				F		25774.5	200		PE. P .NO	11.2 - 3	PSPERIME TO AN I	
	۷o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
3	1		1858.333	36.07	8.39	44.46	74.00	-29.54	peak			
Γ	2		3525.000	33.02	12.26	45.28	74.00	-28.72	peak			
	3	*	4960.000	42.41	8.09	50.50	74.00	-23.50	peak			

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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10. BAND EDGE EMISSION

10.1. MEASUREMENT PROCEDURE

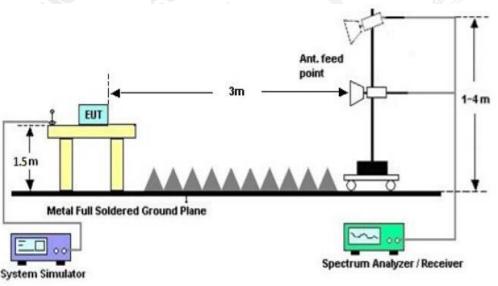
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

Start frequency	y(MHz)	Stop frequency(MHz)			
2200	· 电···································	nce C Stratter	2405	SC -	
2478	C Austano of Gou	GO	2500		
Aller Aller					

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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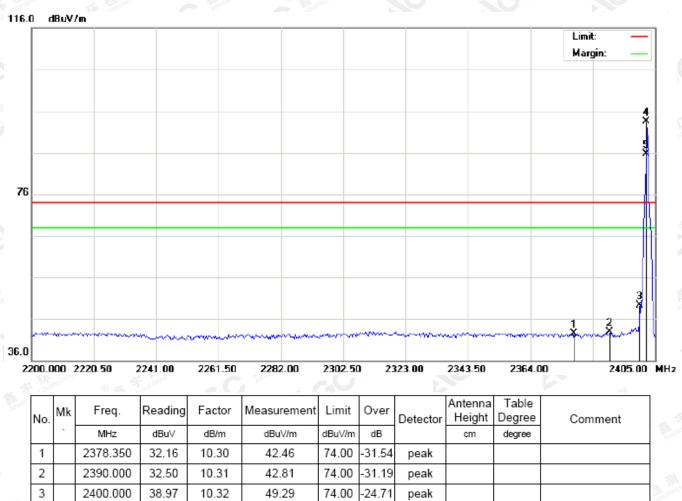


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10.3 RADIATED TEST RESULT

(Worst modulation: 8DPSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



74.00

74.00

19.55

11.64

peak

AVG

100

247

10.32

10.32

83.23

75.32

93.55

85.64

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2402.000

2402.000

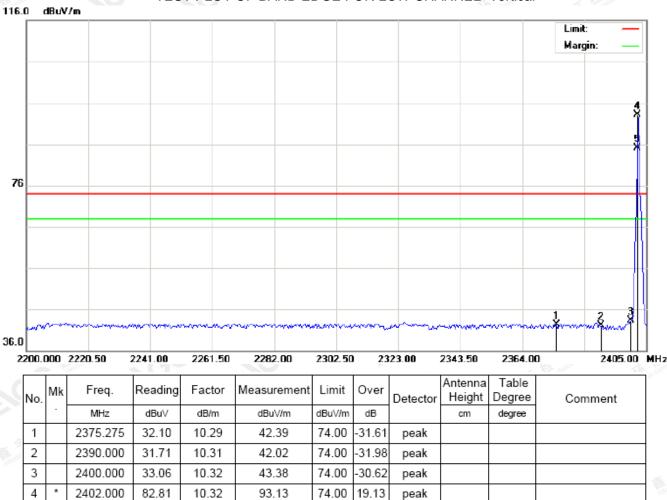
4

5

Х



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74.00

11.09

AVG

100

157

85.09

10.32

74.77

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

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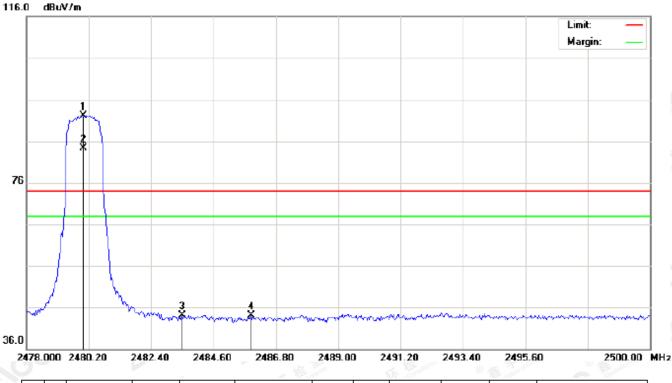
Х

5

2402.000



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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

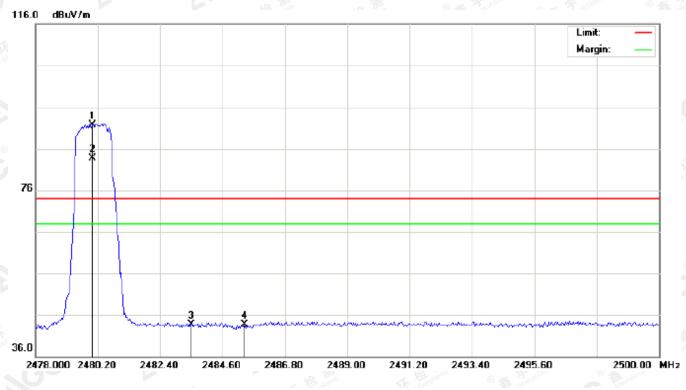
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ą.		•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
sti	1	*	2480.000	81.79	10.41	92.20	74.00	18.20	peak			
	2	Х	2480.000	73.80	10.41	84.21	74.00	10.21	AVG	100	261	
	3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
	4		2485.920	33.60	10.41	44.01	74.00	-29.99	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1	*	2480.000	81.34	10.41	91.75	74.00	17.75	peak			
2	Х	2480.000	73.38	10.41	83.79	74.00	9.79	AVG	100	134	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2485.370	33.39	10.41	43.80	74.00	-30.20	peak			

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

Hopping on mode and Hopping off mode have been tested, but only worst case reported.

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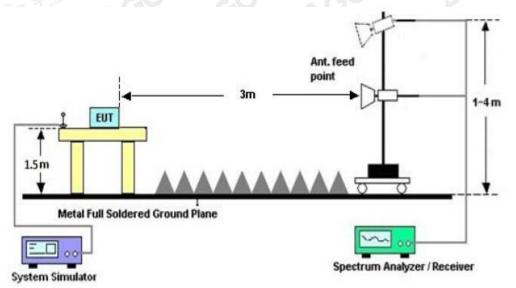
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11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel
- RBW \geq 1% of the 20 dB bandwidth, VBW \geq 3RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

11.2. TEST SET-UP

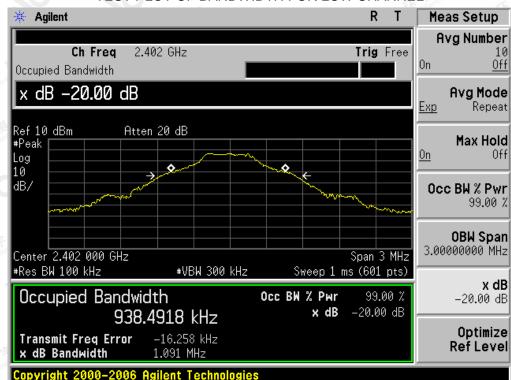


11.3. LIMITS AND MEASUREMENT RESULTS

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT							
	ement Result						
Applicable Limits		Desult					
		99%OBW (MHz)	-20dB BW(MHz)	Result			
Har The Sound Constants	Low Channel	0.938	1.091	PASS			
N/A	Middle Channel	0.907	1.064	PASS			
	High Channel	0.921	1.078	PASS			

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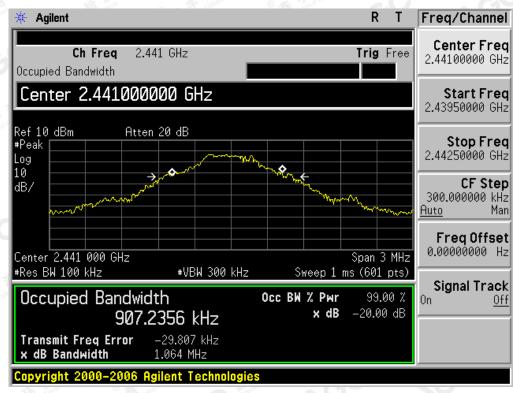


TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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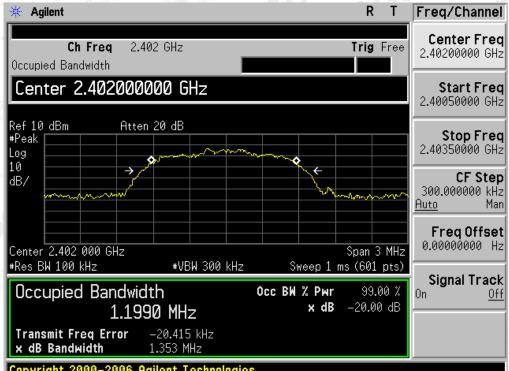
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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BLUET	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT				
	Measurement Result						
Applicable Limits		Decult					
		99%OBW (MHz)	-20dB BW(MHz)	Result			
· The Barrense	Low Channel	1.199	1.353	PASS			
N/A	Middle Channel	1.211	1.357	PASS			
	High Channel	1.200	1.350	PASS			

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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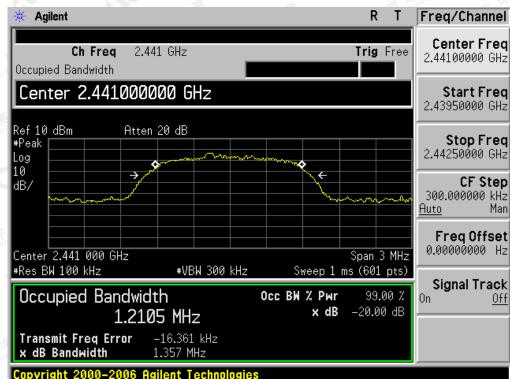
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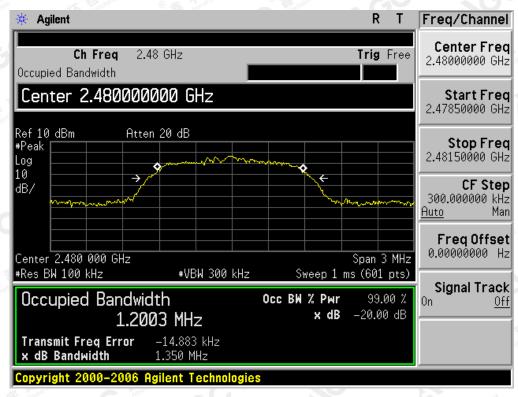
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

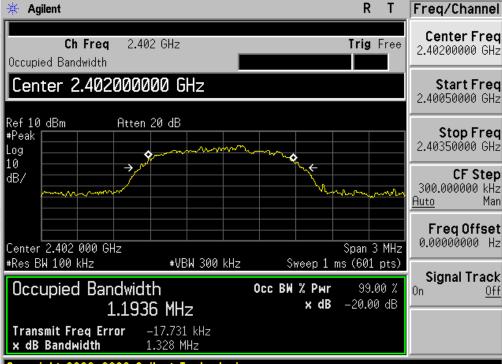
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUET	OOTH 3MBPS LIN	MITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits		D K						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
The the man of the man	Low Channel	1.194	1.328	PASS				
N/A	Middle Channel	1.238	1.374	PASS				
	High Channel	1.229	1.360	PASS				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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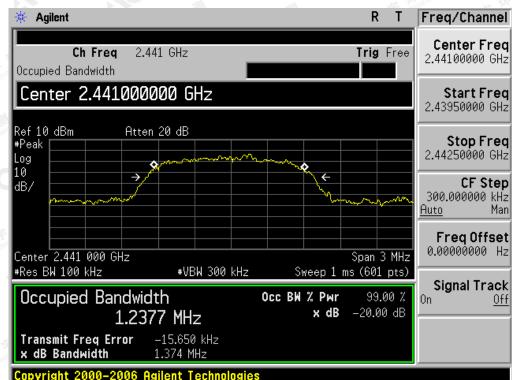
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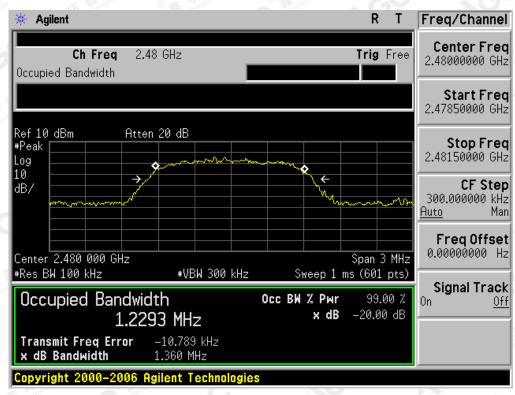
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

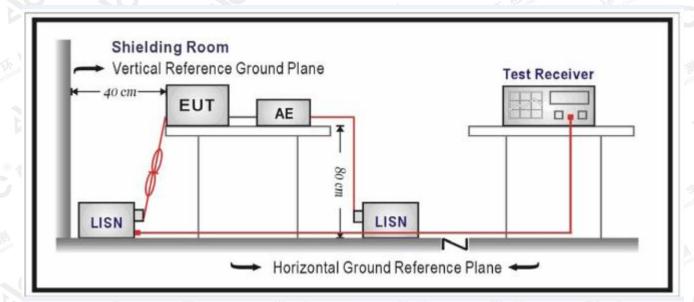
Francisco	Maximum RF Line Voltage					
Frequency	Q.P.(dBuV)	Average(dBuV)				
150kHz~500kHz	66-56	56-46				
500kHz~5MHz	© 56 56 °	46				
5MHz~30MHz	60	50				

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter or PC which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The BT function of EUT isn't work when charging.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP



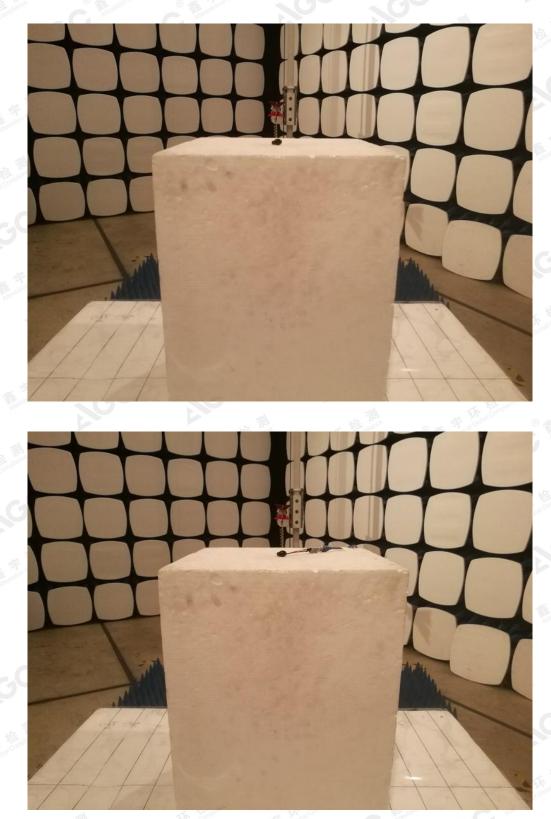


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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT 09 0 5 40 30 20 09 09 01 01 08 50 07 09 01

FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



VIEW OF EUT (PORT)



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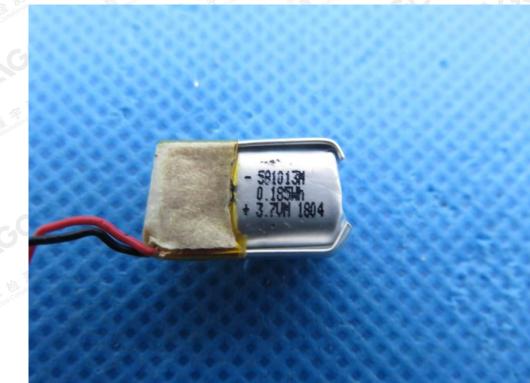




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OPEN VIEW OF EUT

VIEW OF BATTERY



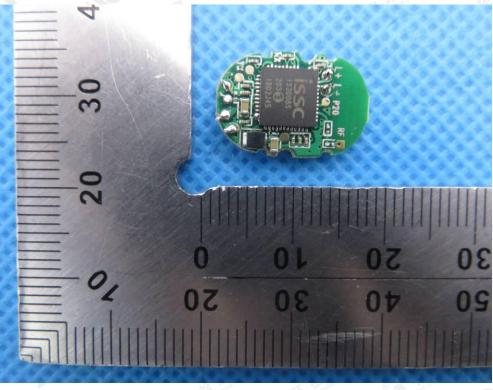
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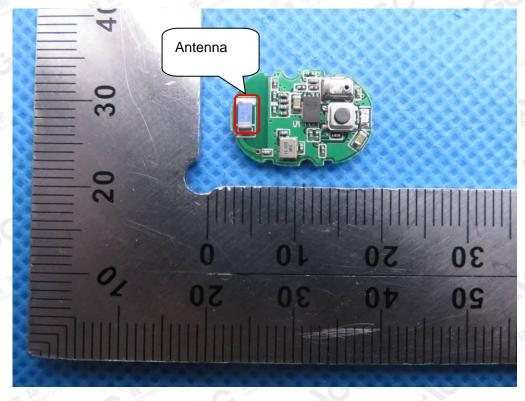


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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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INTERNAL VIEW OF EUT-3



CHARGING BASE VIEW OF EUT (PORT)



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