

FCC PART 15C TEST REPORT FOR CERTIFICATION  
On Behalf of

Hunan Greatwall Computer System Co.,Ltd

10.1" Android Tablet

Model Number: 100011886

FCC ID: 2APUQW1027

Prepared for:	Hunan Greatwall Computer System Co.,Ltd
	Hu'nan Greatwall Industrial Park,Xiangyun Middle Rd.,
	Tianyuan Dist.,Zhuzhou, Hu'nan
Prepared By:	EST Technology Co., Ltd.
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Report Number:	ESTE-R2004042
Date of Test:	Apr. 15~May. 14, 2020
Date of Report:	May. 15, 2020



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# EST Technology Co., Ltd.

<b>Applicant:</b>	Hunan Greatwall Computer System Co.,Ltd		
<b>Address:</b>	Hu'nan Greatwall Industrial Park,Xiangyun Middle Rd., Tianyuan Dist.,Zhuzhou, Hu'nan		
<b>Manufacturer:</b>	Hunan Greatwall Computer System Co.,Ltd		
<b>Address:</b>	Hu'nan Greatwall Industrial Park,Xiangyun Middle Rd., Tianyuan Dist.,Zhuzhou, Hu'nan		
<b>E.U.T:</b>	10.1" Android Tablet		
<b>Model Number:</b>	100011886		
<b>Power Supply:</b>	DC 5V From Adapter Input AC 100-240V~50/60Hz DC 3.8V From Battery		
<b>Trade Name:</b>	conn.	<b>Serial No.:</b>	-----
<b>Date of Receipt:</b>	Apr. 15, 2020	<b>Date of Test:</b>	Apr. 15~May. 14, 2020
<b>Test Specification:</b>	FCC Part 15 Subpart C (15.247) ANSI C63.10:2013 FCC KDB 558074 D01 15.247 Meas Guidance v05r02		
<b>Test Result:</b>	The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.		
This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.			
Date: May 15, 2020			
Prepared by:	Reviewed by:	Approved by:	
			
Ring / Assistant	Seven / Engineer	Iceman Hu / Manager	
<b>Other Aspects:</b>	None.		
<i>Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested</i>			
<i>This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.</i>			

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

Product Name	:	10.1" Android Tablet
Model Number	:	100011886
Software Version	:	F732.Q0.V2.3.1.RC-V01_100011886
Hardware Version	:	F732U2.0
Operation frequency	:	2402MHz~2480MHz
Number of channel	:	79
Max Output Power (PEAK)	:	3.58dBm
Modulation Type	:	BT BDR(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8-DPSK
Sample Type	:	Prototype production

Note:

For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

### 1.2. Difference between Model Numbers

Model Number	main board	DDR	EMMC
100011886	A	RS512M32LZ4D2ANP_75BT 2G/4die 3733Mbps 10*14.5mm FBGA200 RS	MEMA032G 32GB 1.8V/HS400/EMMC5.1 200MHz 153-FBGA ISOCOM
	2	MDXC1016G-M2 2GB(512*32) 3200Mbps 10*14.5mm FBGA200 FORESEE	LTMZ0007HF-DAB1-SM Leahkinn
	3	RS512M32LM4D2BDS-53BT 2GB(512*32) 3200Mbps 10*14.5mm FBGA200 RS	EMMC32G-TA28 32GB 1.8V 200MHz 153-FBGA Kingston

Note: Default is A mainboard, reported to the DDR and EMMC combination for 2 and 3

### 1.3. Antenna Information

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	2.2

## 2. SUMMARY OF TEST

### 2.1. Summary of test result

Report Section	Description of Test Item	FCC Standard Section	Results
3	Maximum Peak Output Power	15.247(a)(1)	PASS
4	20dB Bandwidth	15.247(a)(1)	PASS
5	Carrier Frequency Separation	15.247(a)(1)	PASS
6	Number Of Hopping Channel	15.247(a)(1)(iii)	PASS
7	Dwell Time	15.247(a)(1)(iii)	PASS
8	Conducted Band Edge	15.247(d)	PASS
9	Conducted Spurious Emissions	15.247(d)	PASS
10	Radiated Spurious Emissions and Band Edge	15.205 15.209 15.247(d)	PASS
11	AC Power Line Conducted Emissions	15.207	PASS
12	Antenna Requirement	15.203	PASS

Note:

- (1) "N/A" denotes test is not applicable in this test report

## 2.2. Test Facilities

EMC Lab	: Certificated by CNAS, CHINA Registration No.: L5288 Date of registration: November 13, 2017
	Certificated by FCC, USA Designation Number: CN1215 Test Firm Registration Number: 722932 Date of registration: November 21, 2017
	Certificated by A2LA, USA Registration No.: 4366.01 Date of registration: November 07, 2017
	Certificated by Industry Canada CAB identifier No.: CN0035 Date of registration: January 04, 2019
	Certificated by VCCI, Japan Registration No.: R-13663; C-14103 Date of registration: July 25, 2017 This Certificate is valid until: July 24, 2020
	Certificated by TUV Rheinland, Germany Registration No.: UA 50413872 0001 Date of registration: July 31, 2018
	Certificated by TUV/PS, Shenzhen Registration No.: SCN1017 Date of registration: January 27, 2011
	Certificated by Intertek ETL SEMKO Registration No.: 2011-RTL-L2-64 Date of registration: April 28, 2011
	Certificated by Nemko, Hong Kong Registration No.: 175193 Date of registration: May 4, 2011
Name of Firm	: EST Technology Co., Ltd.
Site Location	: Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China

## 2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	$\pm 3.48\text{dB}$
Uncertainty for spurious emissions test (30MHz-1GHz)	$\pm 4.60 \text{ dB}(\text{Polarize: H})$
	$\pm 4.68 \text{ dB}(\text{Polarize: V})$
Uncertainty for spurious emissions test (1GHz to 25GHz)	$\pm 4.96\text{dB}$
Uncertainty for radio frequency	$7 \times 10^{-8}$
Uncertainty for conducted RF Power	0.20dB
Uncertainty for Power density test	0.26dB

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

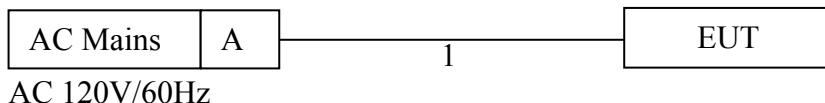
## 2.4. Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
A	Adapter	onn.	BSY01J3050200U U	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.0m	DC Cable

## 2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground. EUT was beset into Bluetooth test mode by software before test.



(EUT: 10.1"Android Tablet)

## 2.6. Test mode

Combining all the rates, modulations, and packet types, the Pre-scans had been carried out. The worst case test mode was selected for the final test as listed below.

Test Item	Modulation Type	Operating Mode	Packet Type	Test Channel
Maximum Peak Output Power	GFSK&8-DPSK	Non Hopping	DH5	Low/Middle/High
20dB Bandwidth	GFSK&8-DPSK	Non Hopping	DH5	Low/Middle/High
Carrier Frequency Separation	GFSK&8-DPSK	Hopping	DH5	Low/Middle/High
Number Of Hopping Channel	GFSK&8-DPSK	Hopping	DH5	All Channel Hopping
Dwell Time	GFSK&8-DPSK	Hopping	DH1/DH3/DH5	Middle( All Channel Hopping)
Conducted Band Edge	GFSK&8-DPSK	Non Hopping	DH5	Low/ High& All Channel Hopping
Conducted Spurious Emissions	GFSK&8-DPSK	Non Hopping	DH5	Low/Middle/High
Radiated Spurious Emissions(Below 1GHz)	GFSK&8-DPSK	Non Hopping	DH5	Low/Middle/High
Radiated Spurious Emissions(Above 1GHz)	GFSK&8-DPSK	Non Hopping	DH5	Low/Middle/High
Radiated Band Edge	GFSK&8-DPSK	Non Hopping	DH5	Low/High
AC Power Line Conducted Emissions	GFSK&8-DPSK	Non Hopping	DH5	Low/Middle/High

Note:

1. In radiated measurement, the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.

## 2.7. Channel List

Channel No.	Frequency (MHz)						
0	2402	1	2403	2	2404	3	2405
4	2406	5	2407	6	2408	7	2409
8	2410	9	2411	10	2412	11	2413
12	2414	13	2415	14	2416	15	2417
16	2418	17	2419	18	2420	19	2421
20	2422	21	2423	22	2424	23	2425
24	2426	25	2427	26	2428	27	2429
28	2430	29	2431	30	2432	31	2433
32	2434	33	2435	34	2436	35	2437
36	2438	37	2439	38	2440	39	2441
40	2442	41	2443	42	2444	43	2445
44	2446	45	2447	46	2448	47	2449
48	2450	49	2451	50	2452	51	2453
52	2454	53	2455	54	2456	55	2457
56	2458	57	2459	58	2460	59	2461
60	2462	61	2463	62	2464	63	2465
64	2466	65	2467	66	2468	67	2469
68	2470	69	2471	70	2472	71	2473
72	2474	73	2475	74	2476	75	2477
76	2478	77	2479	78	2480	-	-

## 2.8. Power Setting of Test Software

Software Name	N/A		
Frequency(MHz)	2402	2441	2480
GFSK(1Mbps) Setting	Default	Default	Default
8-DPSK(3Mbps) Setting	Default	Default	Default

## 2.9. Test Equipment

For conducted emission test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	LISAI	June 14,19	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	LISAI	June 14,19	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 14,19	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

For radiated emission test(9 kHz-30MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 14,19	1 Year
Active Loop Antenna	SCHWAREB ECK	FMZB 1519B	EST-E054	LISAI	June 14,19	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

For radiated emissions test (30-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 14,19	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 14,19	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

For radiated emission test(Above 1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZB ECK	BBHA9120D	EST-E031	LISAI	June 14,19	1 Year
Signal Amplifier	SCHWARZB ECK	BBV9718	EST-E032	LISAI	June 14,19	1 Year
Spectrum Analyzer	Rohde &Schwarz	FSV40	EST-E069	LISAI	June 14,19	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
Above 1GHz Cable	N/A	EST-003	N/A	N/A	N/A	N/A

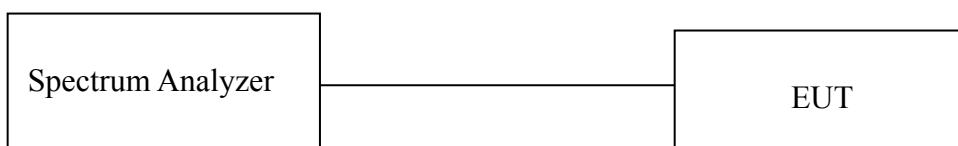
For connect EUT antenna terminal test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Spectrum Analyzer	Rohde &Schwarz	FSV40	EST-E069	LISAI	June 14,19	1 Year

### 3. MAXIMUM PEAK OUTPUT POWER

#### 3.1. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

#### 3.2. Test Setup



#### 3.3. Spectrum Analyzer Setting

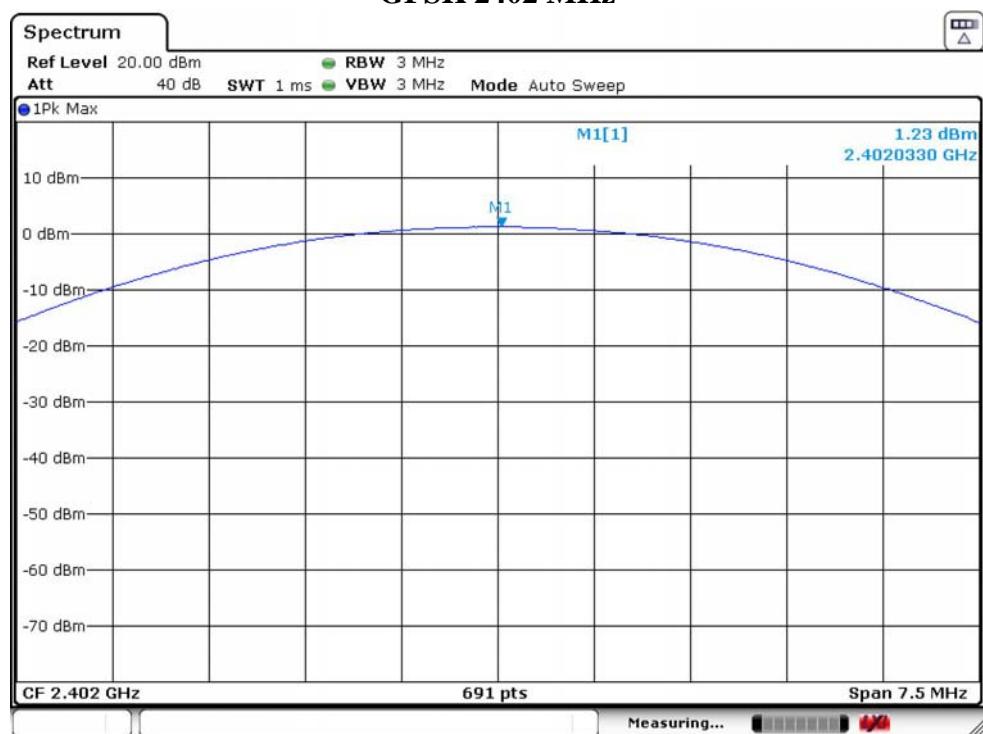
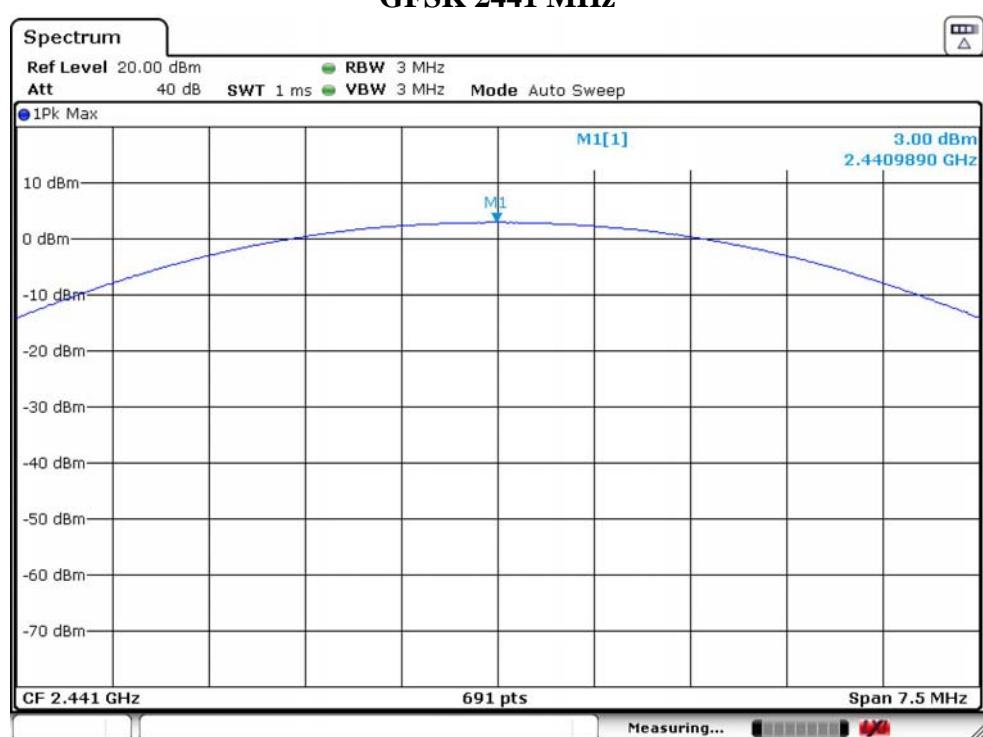
Spectrum Parameters	Setting
RBW	3MHz
VBW	3MHz
Span	7.5MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

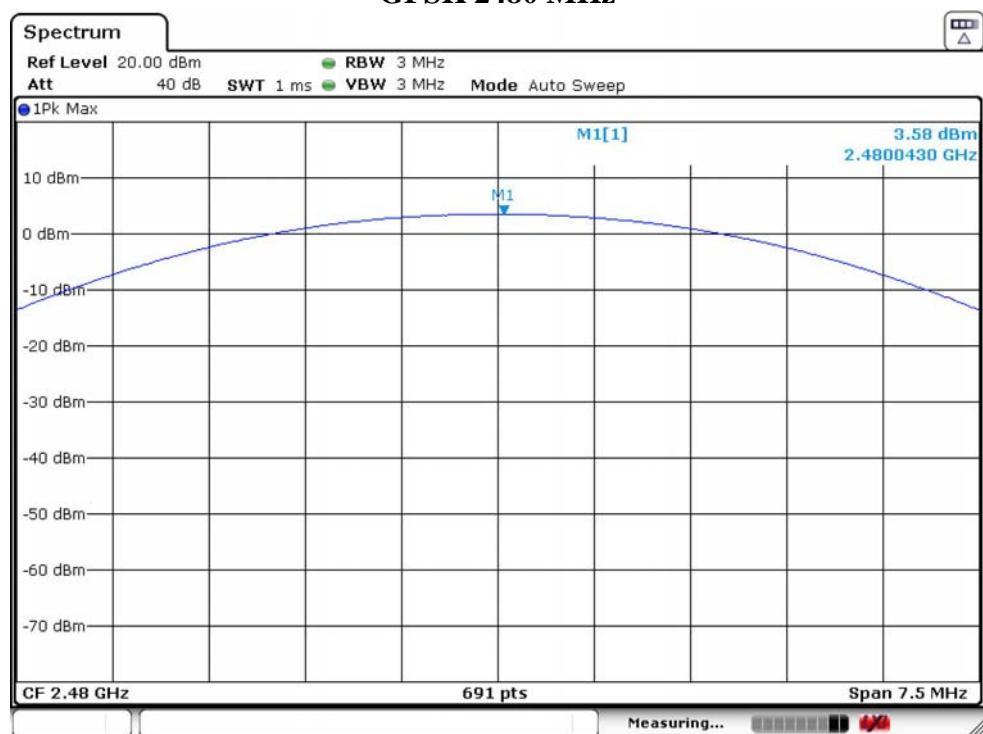
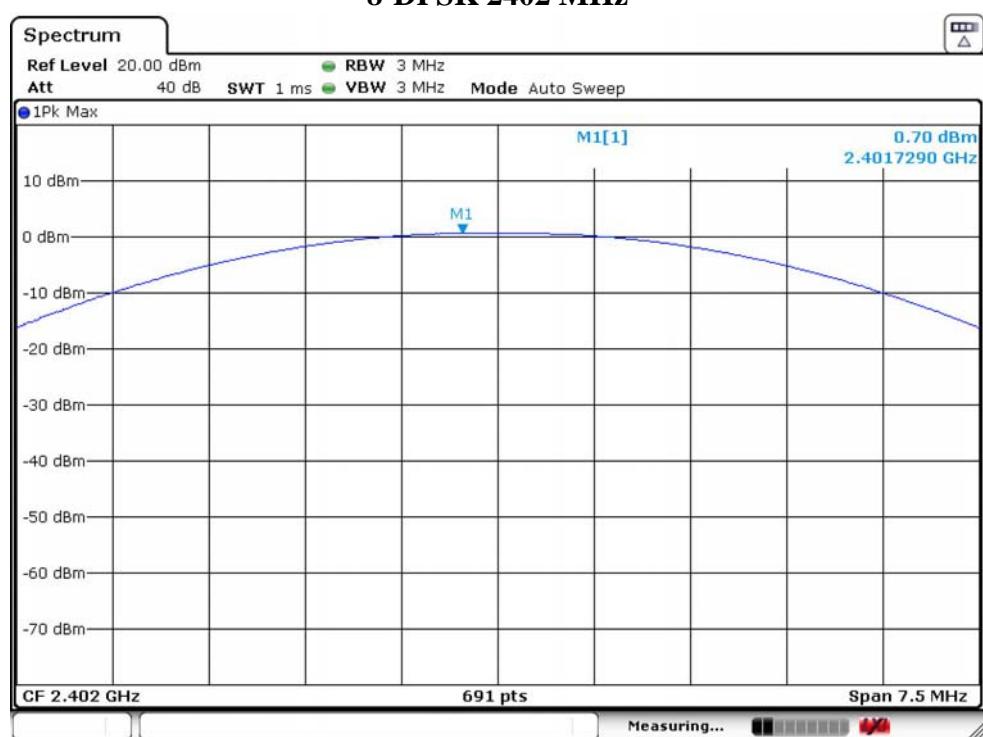
#### 3.4. Test Procedure

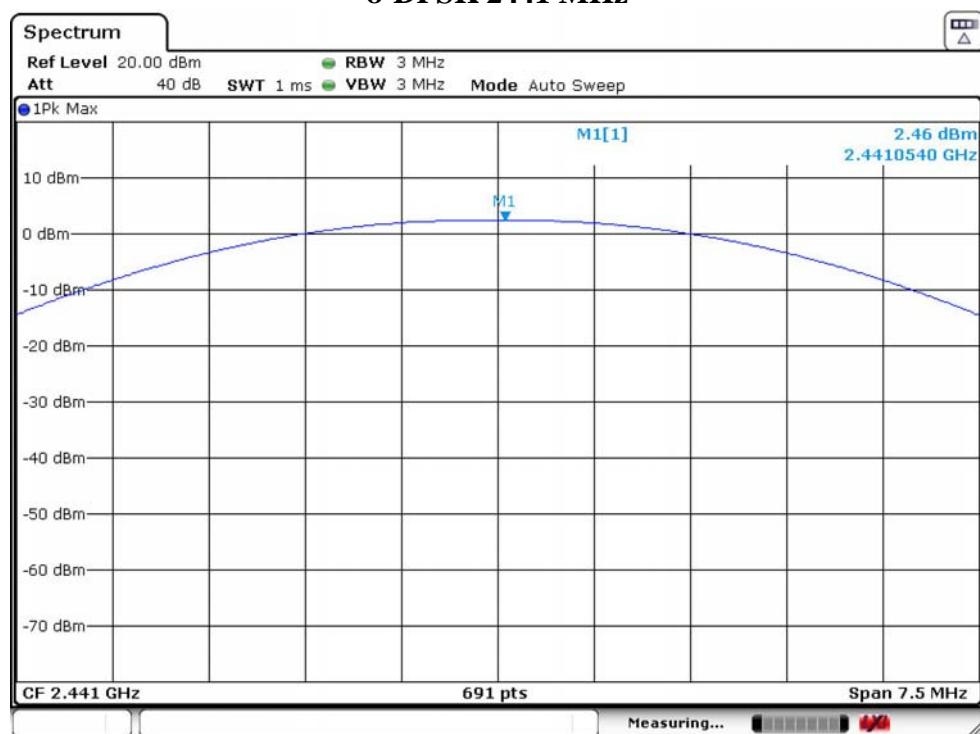
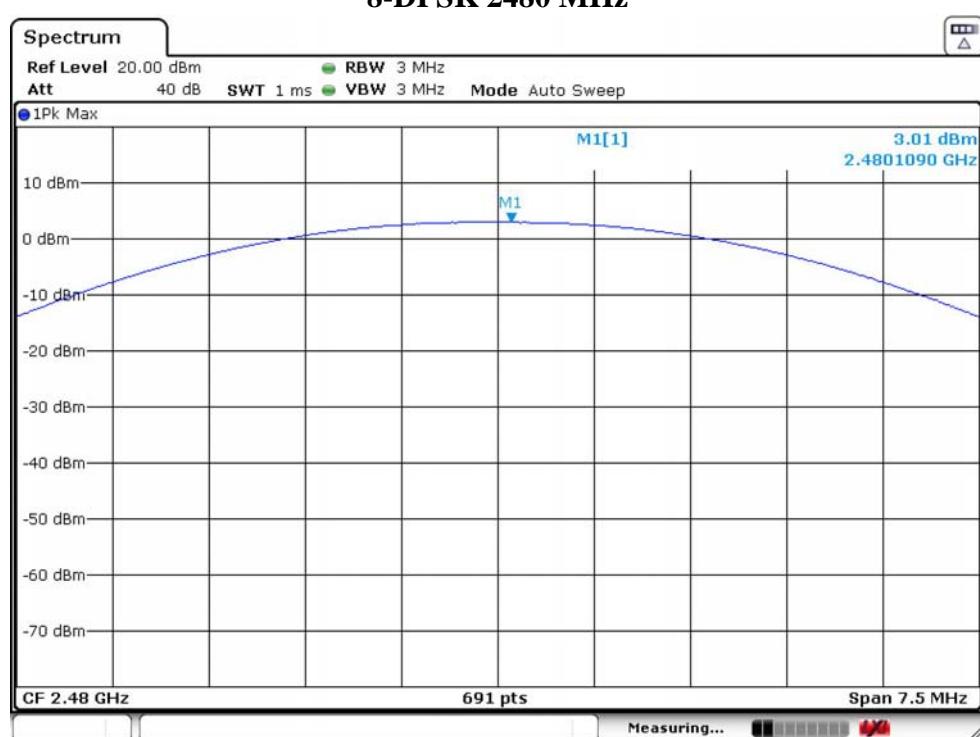
- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Set the EUT transmit continuously with maximum output power over fixed single hopping channel.
- Allow trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

### 3.5. Test Result

Temperature	27°C	Relative Humidity	54%	Test Voltage		120V/60Hz
Mode	Freq (MHz)	Peak Output Power		Limit		Result
		dBm	W	dBm	W	
GFSK	2402	1.23	0.0013	20.97	0.1250	PASS
	2441	3.00	0.0020	20.97	0.1250	PASS
	2480	3.58	0.0023	20.97	0.1250	PASS
8-DPSK	2402	0.70	0.0012	20.97	0.1250	PASS
	2441	2.46	0.0018	20.97	0.1250	PASS
	2480	3.01	0.0020	20.97	0.1250	PASS

**GFSK 2402 MHz****GFSK 2441 MHz**

**GFSK 2480 MHz****8-DPSK 2402 MHz**

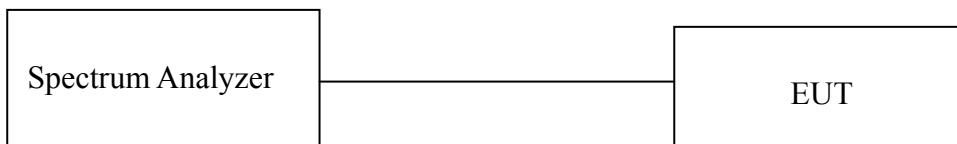
**8-DPSK 2441 MHz****8-DPSK 2480 MHz**

## 4. 20 DB BANDWIDTH

### 4.1. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

### 4.2. Test Setup



### 4.3. Spectrum Analyzer Setting

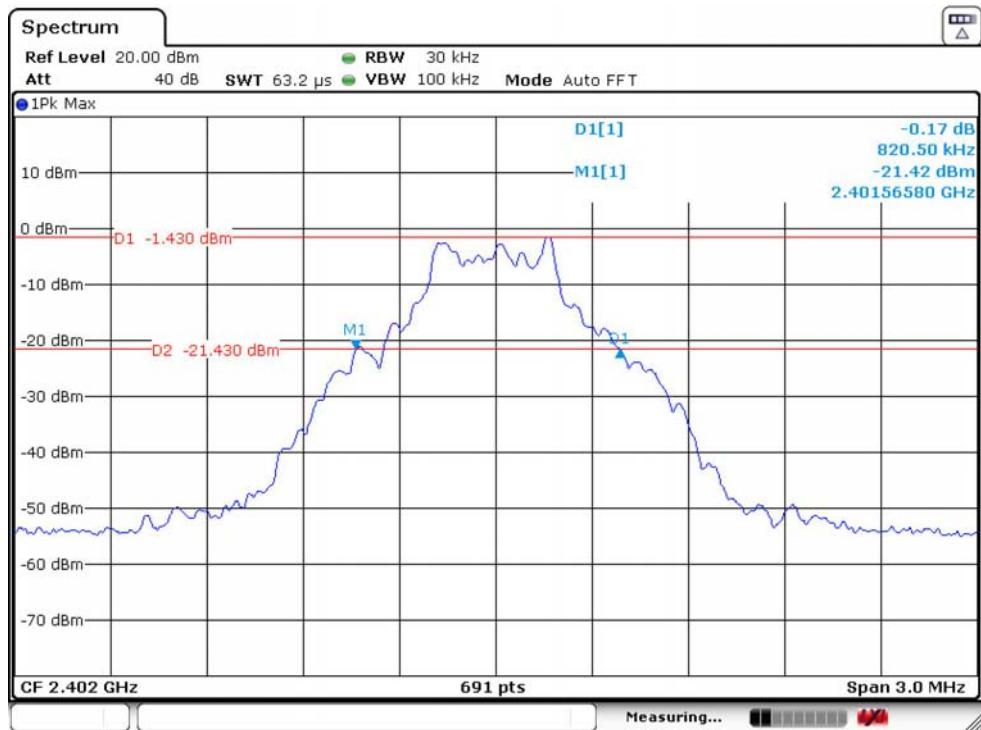
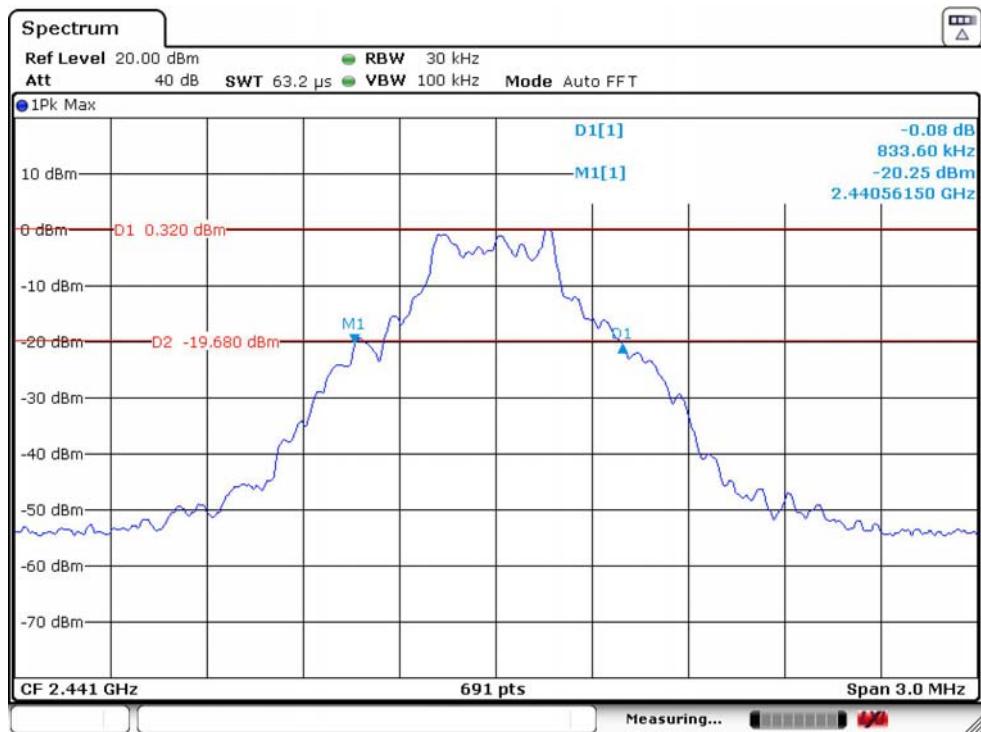
Spectrum Parameters	Setting
RBW	30KHz
VBW	100KHz
Span	3MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

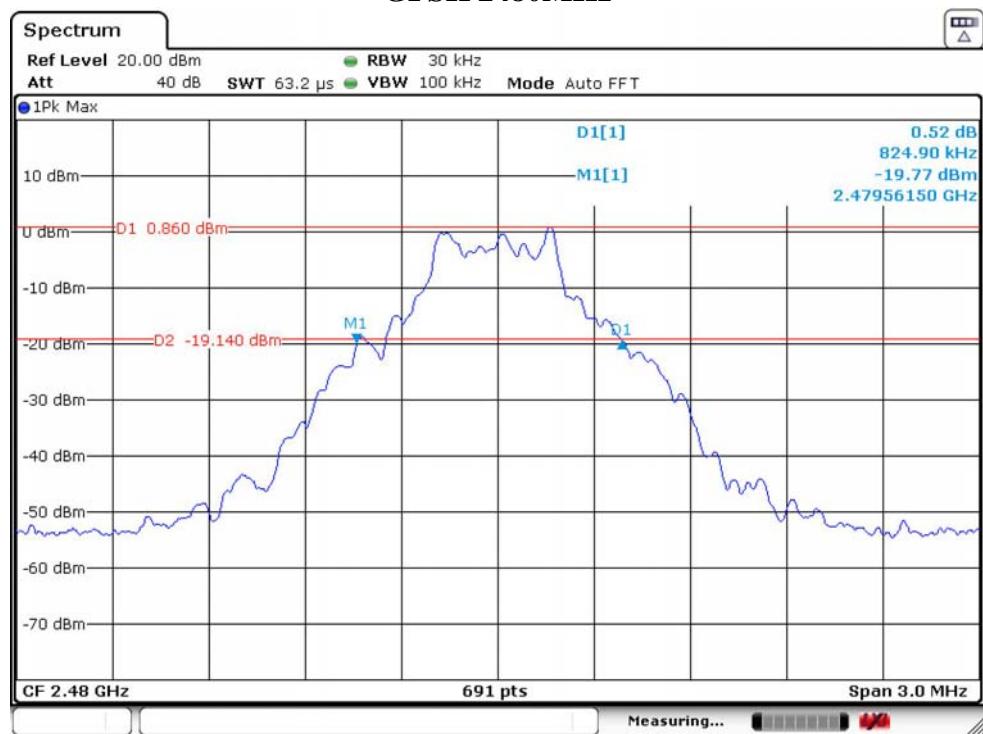
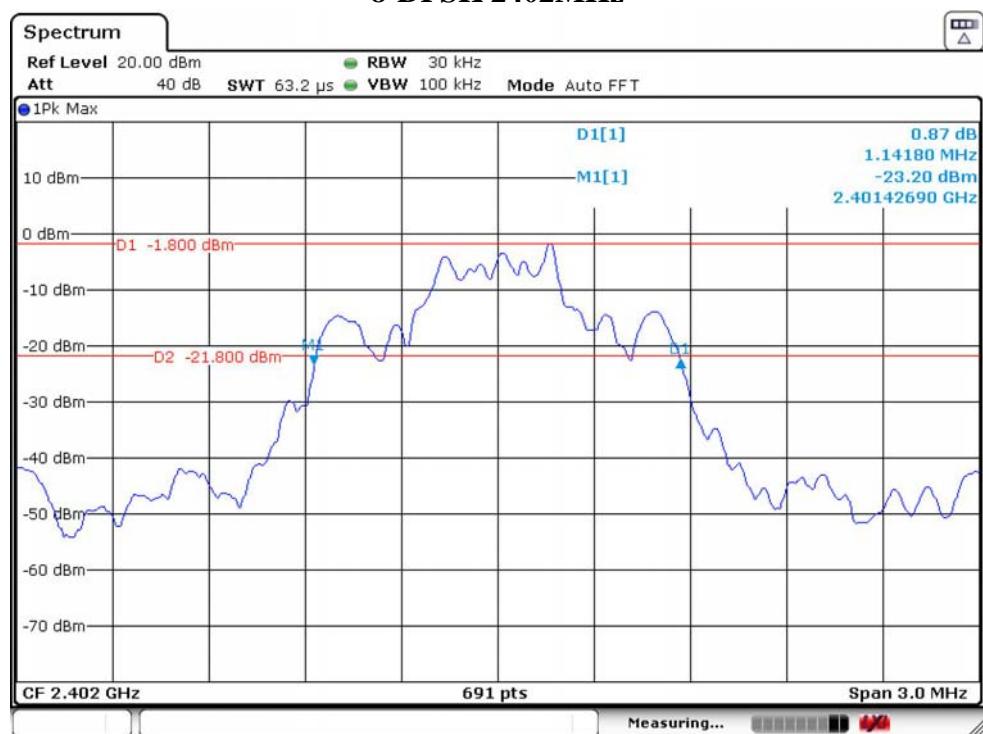
### 4.4. Test Procedure

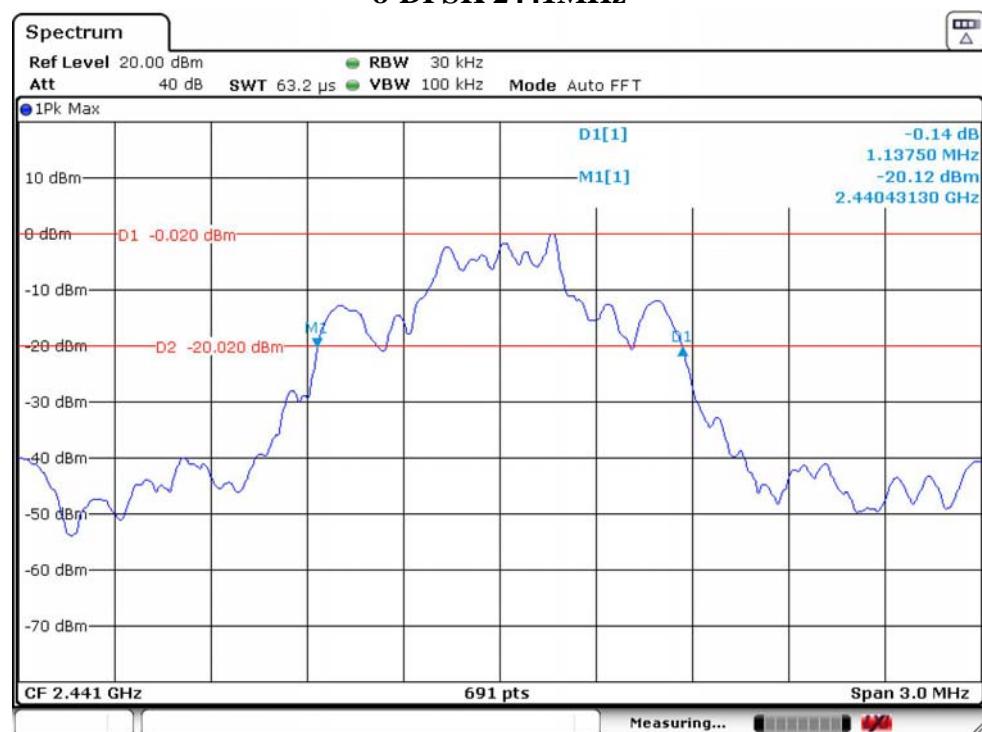
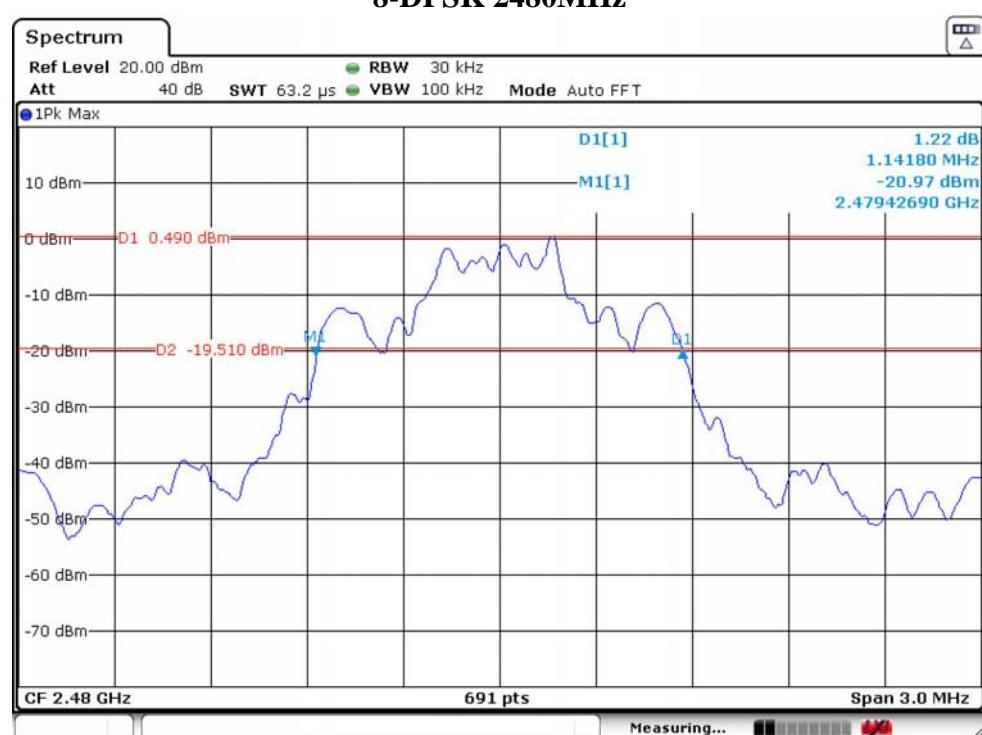
- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 4.3.
- Set the EUT transmit continuously with maximum output power over fixed single hopping channel.
- Allow trace to stabilize, use the ndB down function to measure 20dB Bandwidth.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

## 4.5. Test Result

Temperature	27°C	Relative Humidity	54%	
Test Voltage	120V/60Hz			
Mode	Freq (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Result
GFSK	2402	0.8205	/	PASS
	2441	0.8336	/	PASS
	2480	0.8249	/	PASS
8-DPSK	2402	1.1418	/	PASS
	2441	1.1375	/	PASS
	2480	1.1418	/	PASS

**GFSK 2402MHz****GFSK 2441MHz**

**GFSK 2480MHz****8-DPSK 2402MHz**

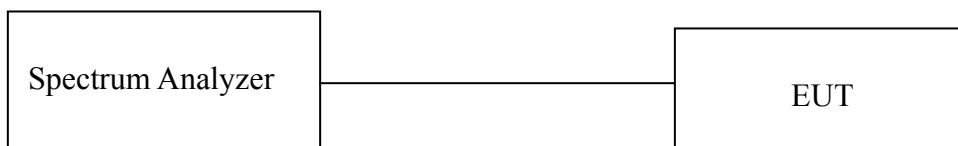
**8-DPSK 2441MHz****8-DPSK 2480MHz**

## 5. CARRIER FREQUENCY SEPARATION

### 5.1. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

### 5.2. Test Setup



### 5.3. Spectrum Analyzer Setting

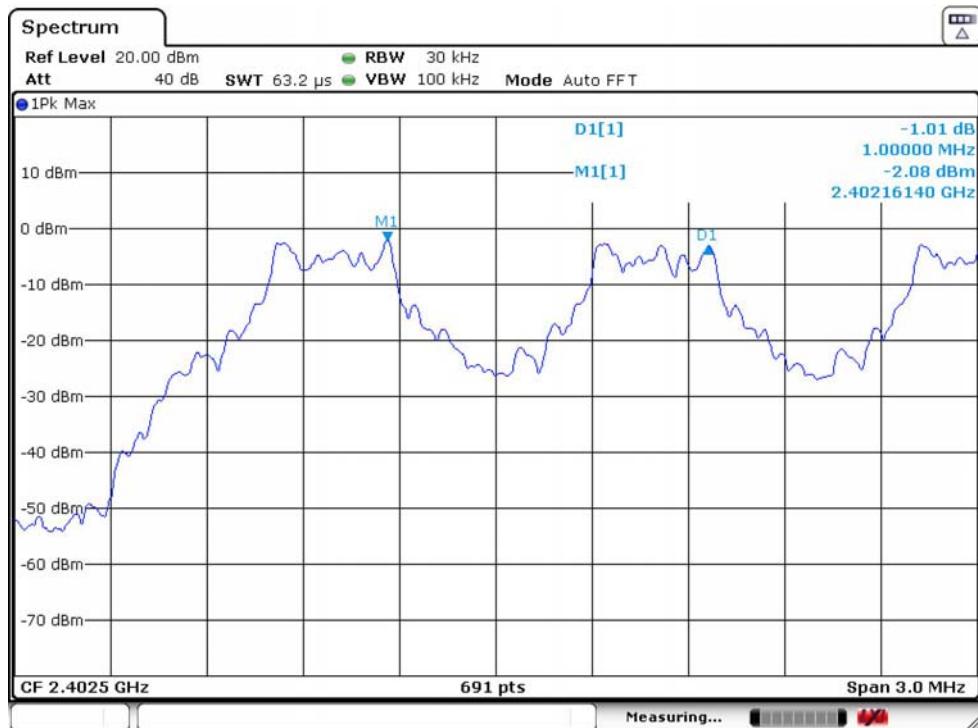
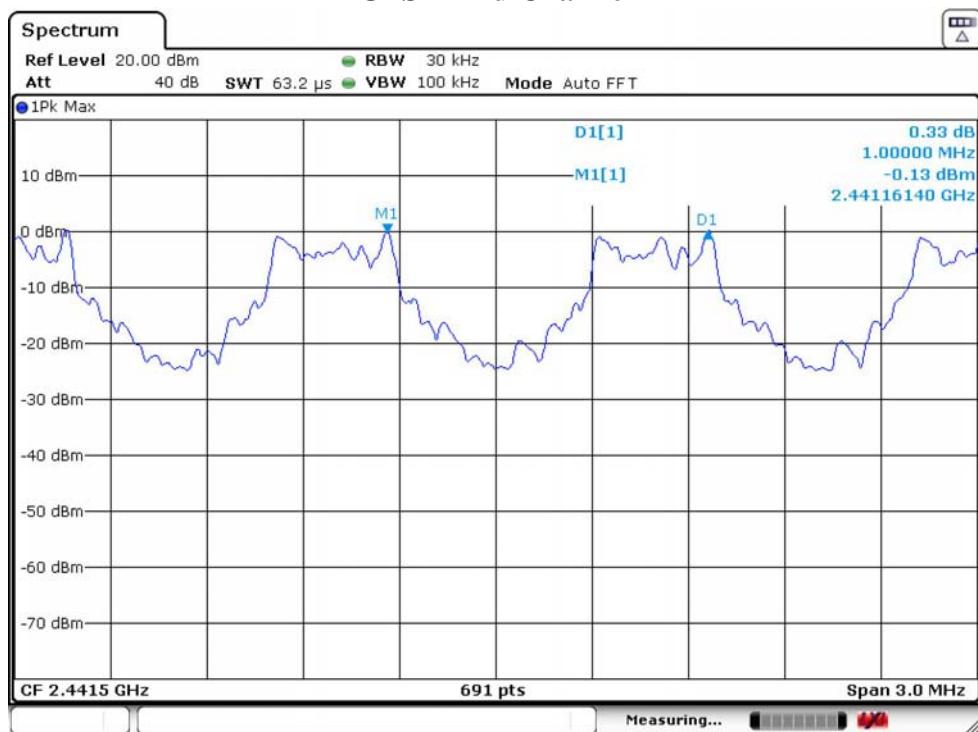
Spectrum Parameters	Setting
RBW	30KHz
VBW	100KHz
Span	3MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

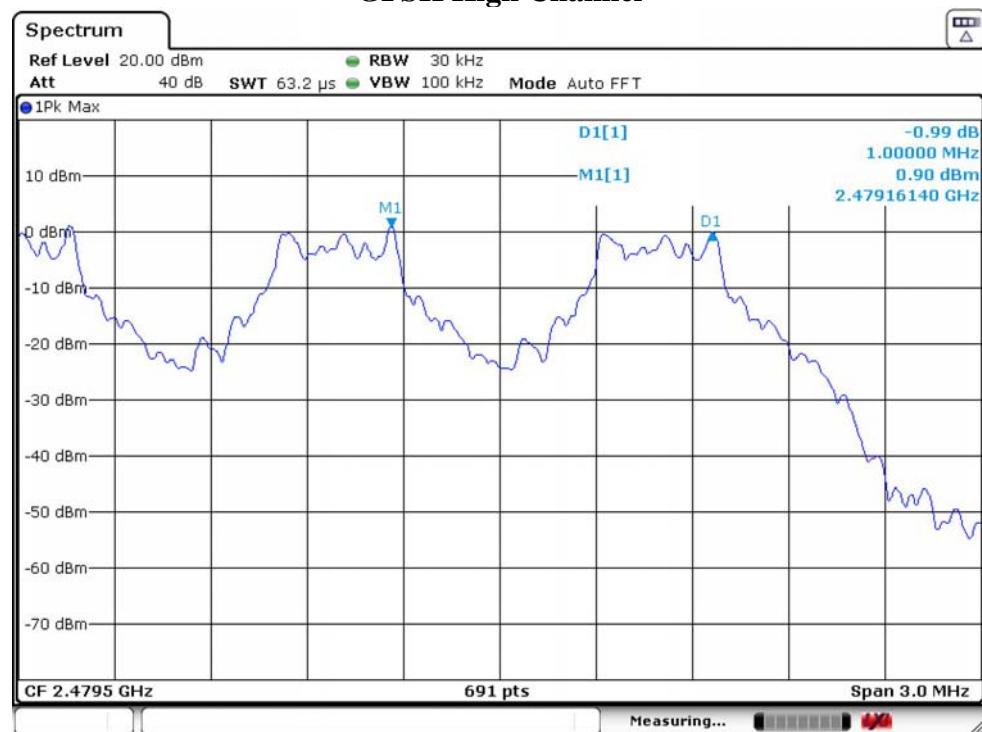
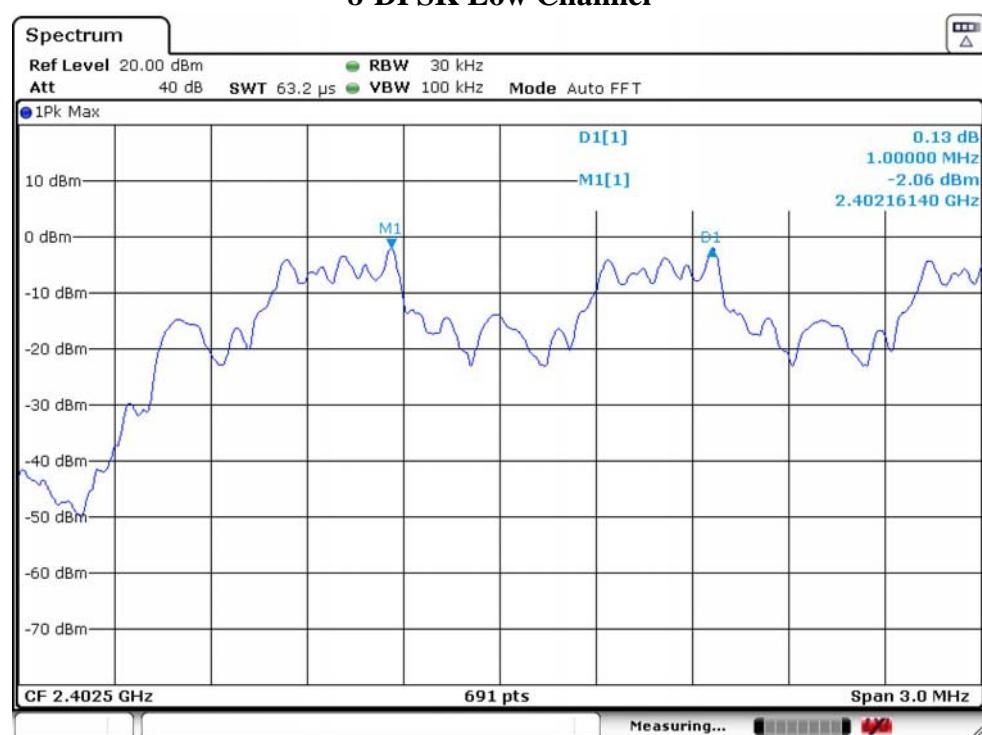
### 5.4. Test Procedure

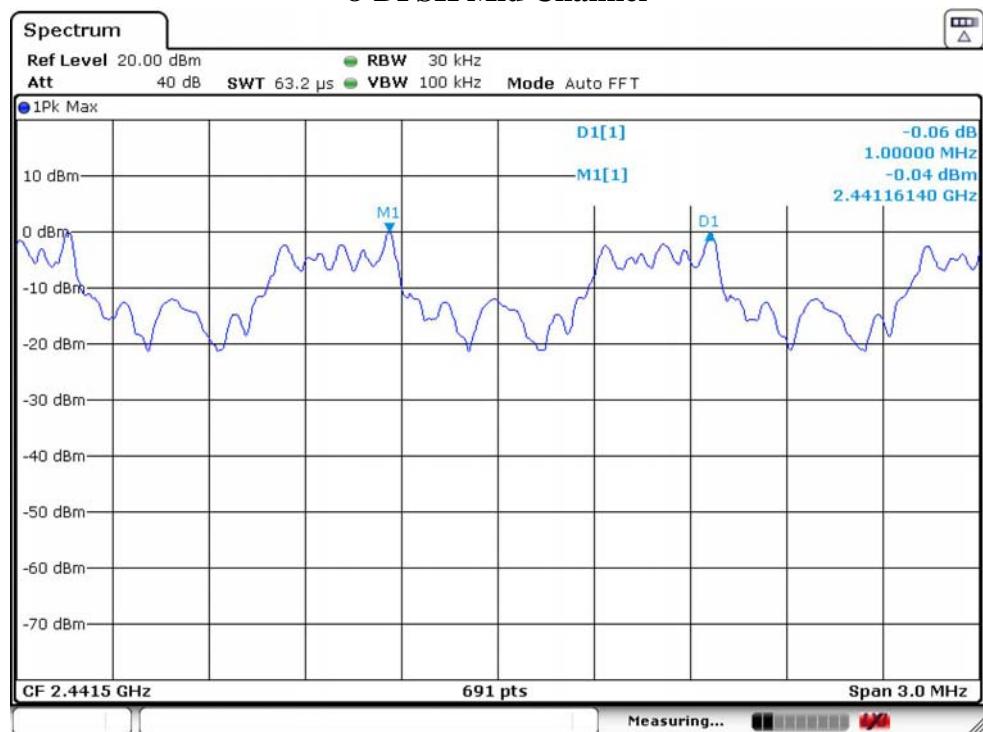
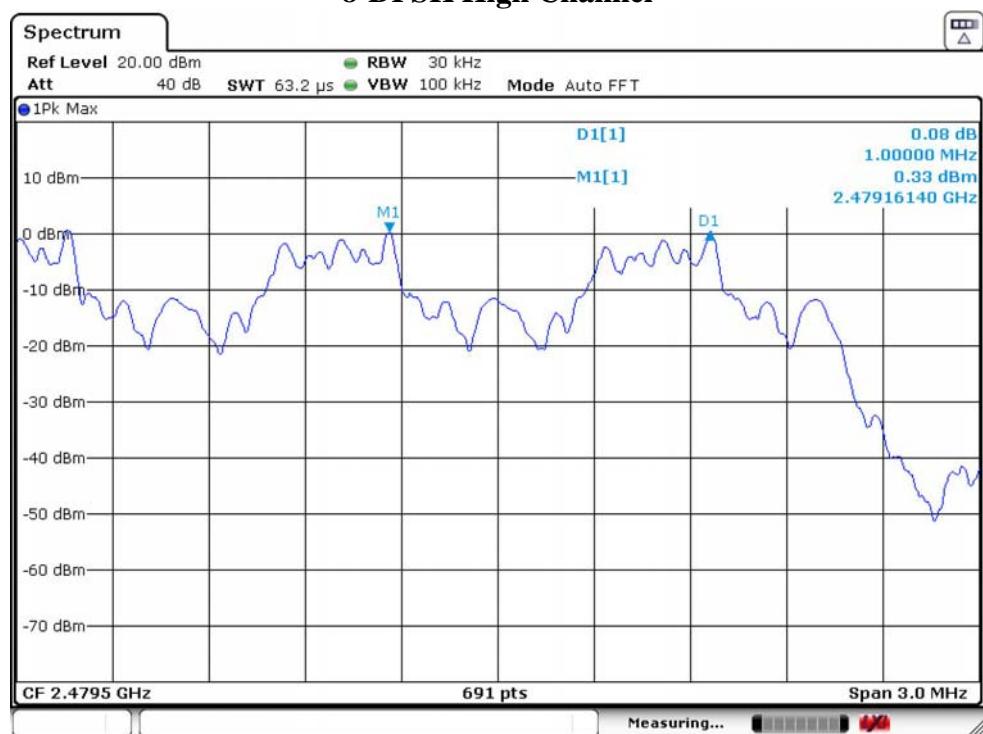
- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 5.3.
- Set the EUT transmit continuously with maximum output power in all channel hopping mode.
- Allow trace to stabilize, use the marker-delta function to measure channel separation between two adjacent channels.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

## 5.5. Test Result

Temperature	27°C	Relative Humidity	54%	Test Voltage	120V/60Hz
Mode	Channel	Channel Separation (MHz)	2/3 of 20dB Bandwidth Limit (MHz)		Result
GFSK	Low CH	1.0000	0.5470		PASS
	Mid CH	1.0000	0.5557		PASS
	High CH	1.0000	0.5499		PASS
8-DPSK	Low CH	1.0000	0.7612		PASS
	Mid CH	1.0000	0.7583		PASS
	High CH	1.0000	0.7612		PASS

**GFSK Low Channel****GFSK Mid Channel**

**GFSK High Channel****8-DPSK Low Channel**

**8-DPSK Mid Channel****8-DPSK High Channel**

## 6. NUMBER OF HOPPING CHANNEL

### 6.1. Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

### 6.2. Test Setup



### 6.3. Spectrum Analyzer Setting

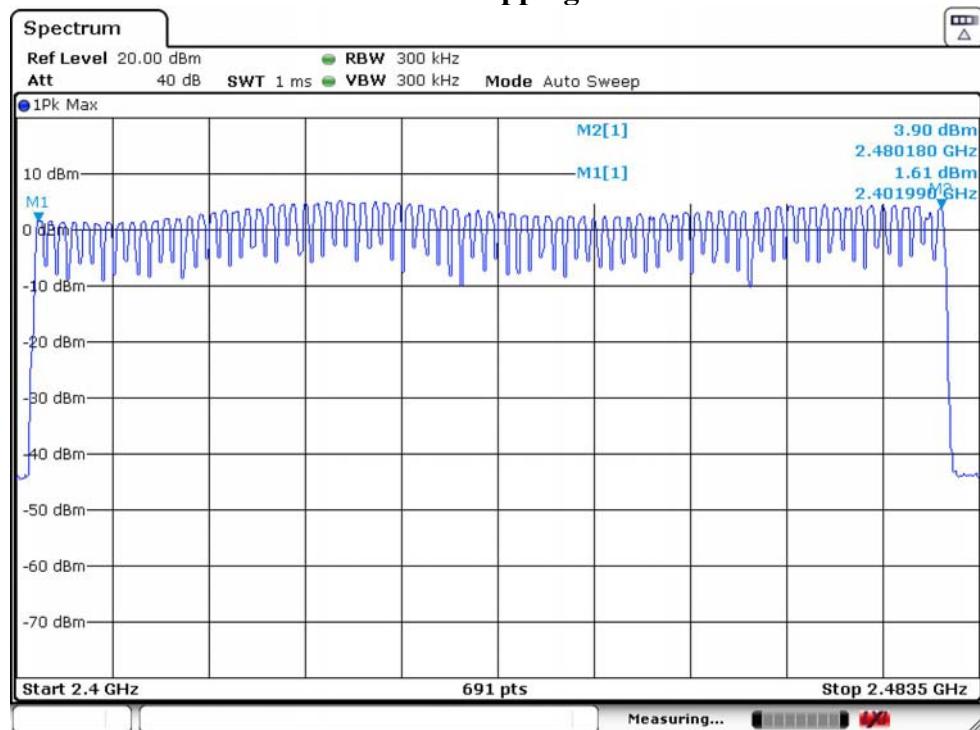
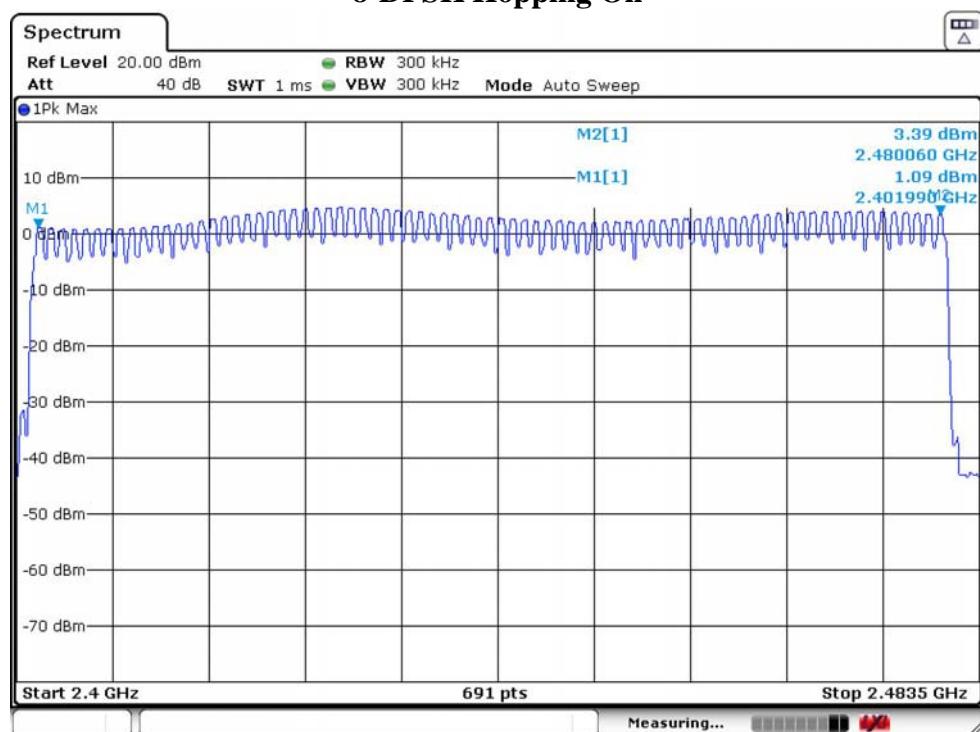
Spectrum Parameters	Setting
RBW	300KHz
VBW	300KHz
Start frequency	2400MHz
Stop frequency	2483.5MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

### 6.4. Test Procedure

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 6.3.
- c. Set the EUT transmit continuously with maximum output power in all channel hopping mode.
- d. Allow trace to stabilize, use the marker-peak function to mark the first and last frequency hopping channel.
- e. Repeat above procedures until all test modes were measured.
- f. Record the results in the test report.

## 6.5. Test Result

Temperature	27°C	Relative Humidity	54%	Test Voltage	120V/60Hz
Mode	Number of Hopping Channel		Limit	Result	
GFSK	79		≥15	PASS	
8-DPSK	79		≥15	PASS	

**GFSK Hopping On****8-DPSK Hopping On**

## 7. DWELL TIME

### 7.1. Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

### 7.2. Test Setup



### 7.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1MHz
VBW	1MHz
Span	Zero
Detector	Peak
Sweep Time	2.5ms(DH1)/10ms(DH3)/20ms(DH5)
Sweep Mode	Single Sweep

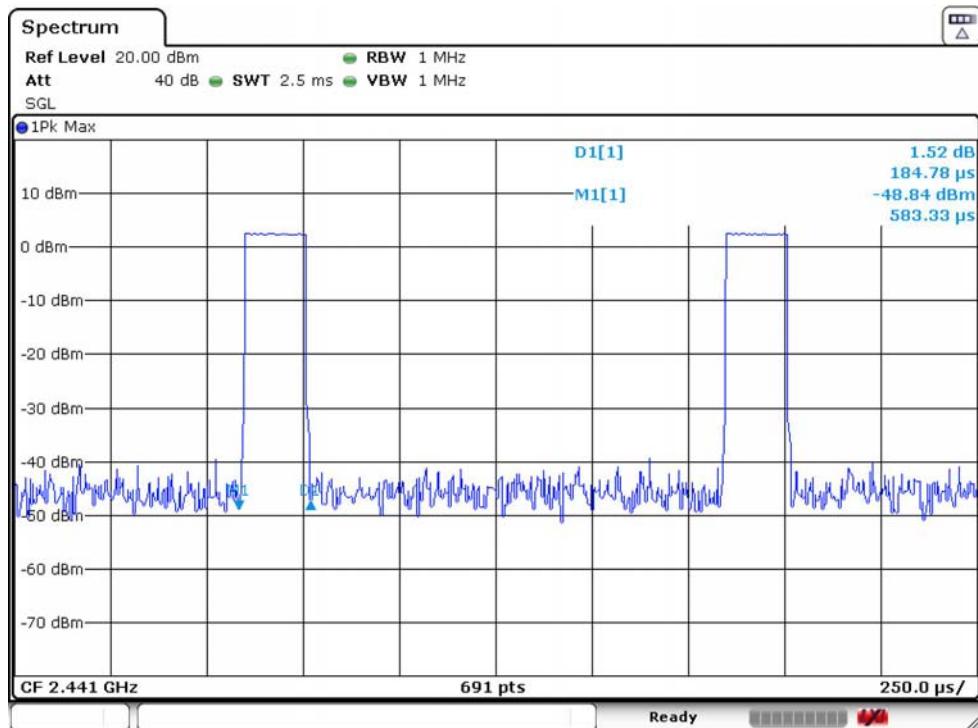
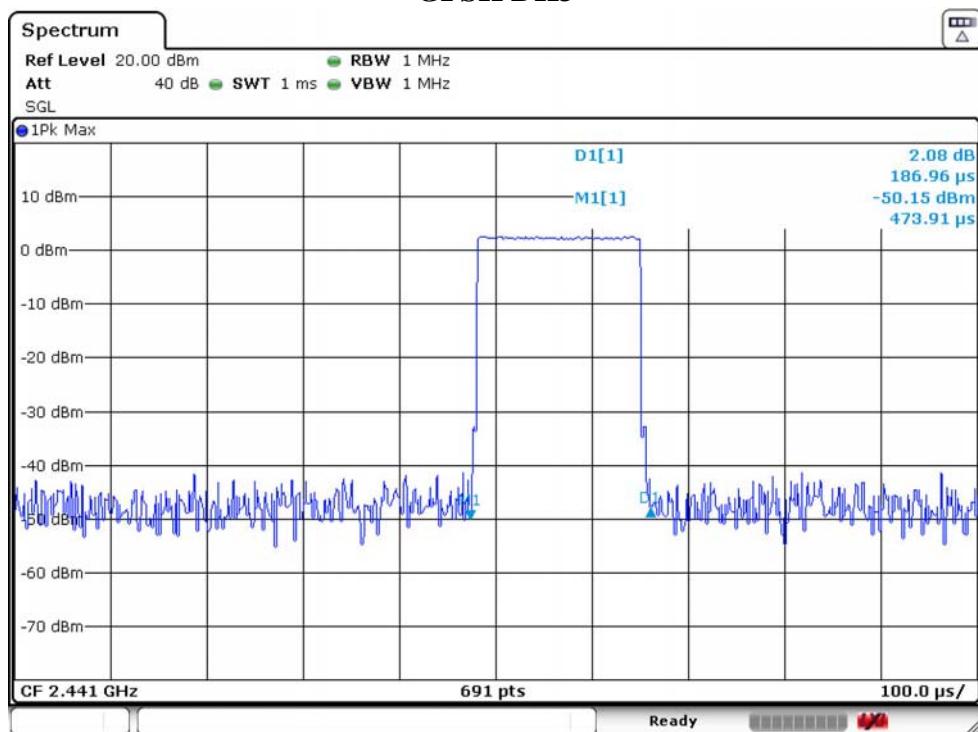
### 7.4. Test Procedure

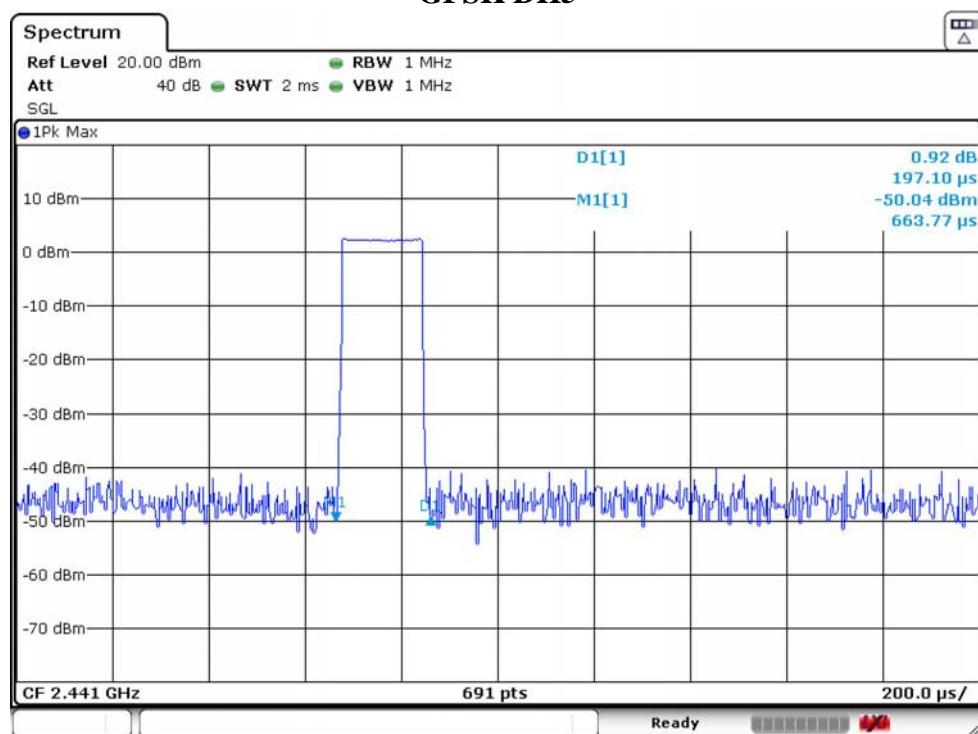
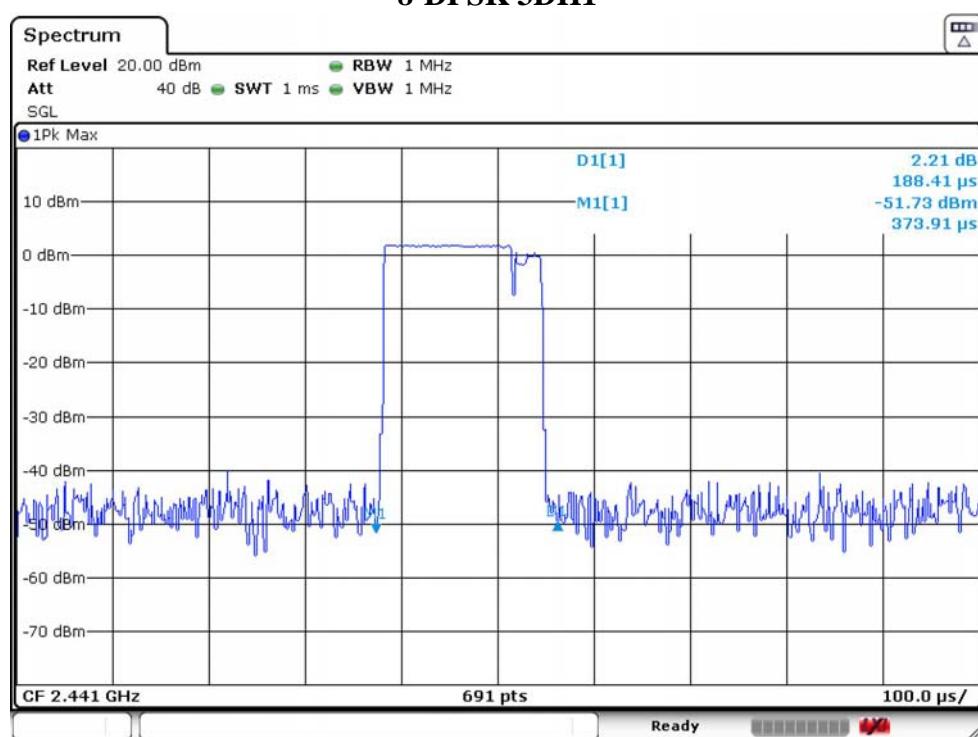
- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 7.3.
- Set the EUT transmit continuously with maximum output power in all channel hopping mode.
- Allow trace to stabilize, use the marker-delta function to measure single pulse duration.
- Repeat above procedures until all test modes were measured.
- Record the results in the test report.

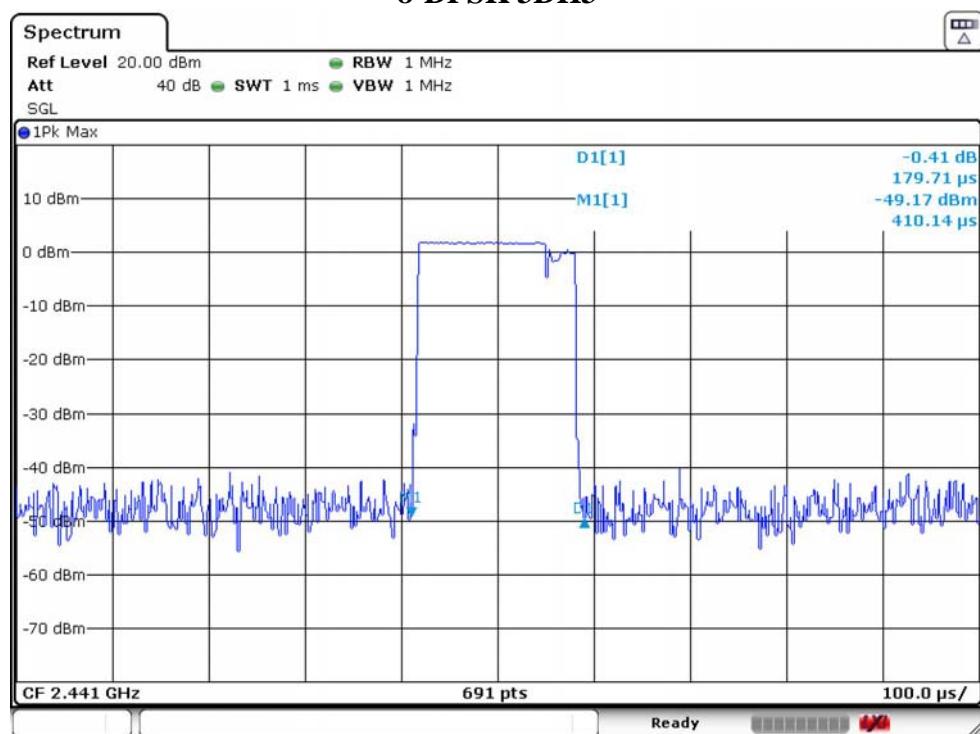
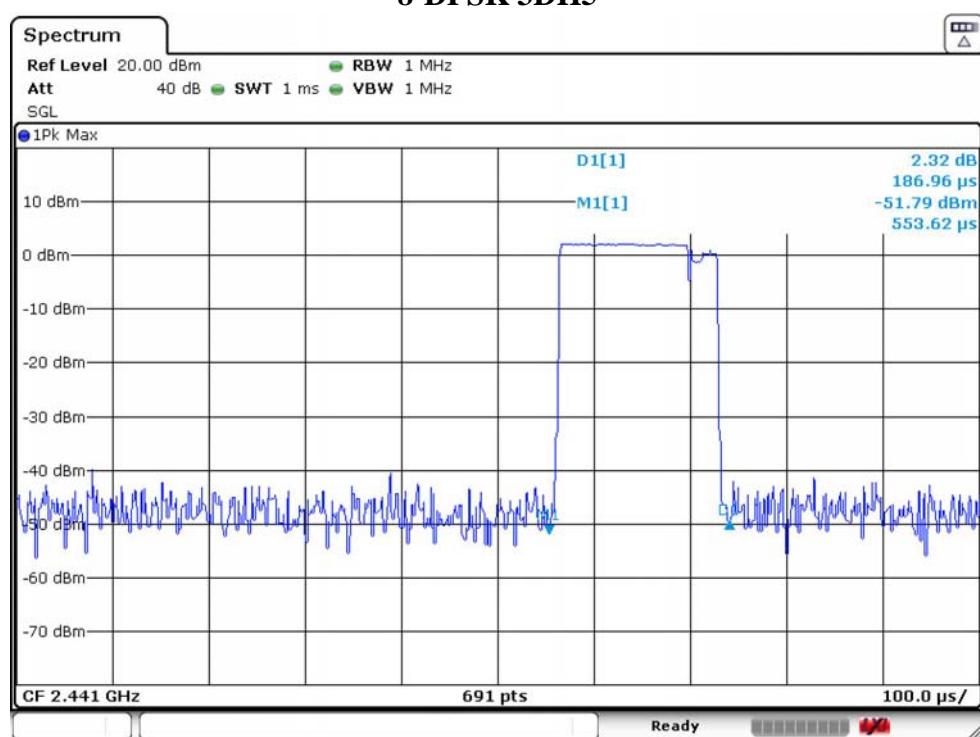
## 7.5. Test Result

Temperature	27°C	Relative Humidity		54%	Test Voltage	120V/60Hz
Mode	Freq (MHz)	Hops in Observation Period(hops)	Pulse Duration (ms)	Dwell time (ms)	Limit	Result
GFSK DH1	2441	320	0.1848	59.13	<400ms	PASS
GFSK DH3	2441	160	0.1870	29.91	<400ms	PASS
GFSK DH5	2441	106.67	0.1971	21.02	<400ms	PASS
8-DPSK 3DH1	2441	320	0.1884	60.29	<400ms	PASS
8-DPSK 3DH3	2441	160	0.1797	28.75	<400ms	PASS
8-DPSK 3DH5	2441	106.67	0.1870	19.94	<400ms	PASS

1. DH1 Packet permit maximum 1600 hops/s with 2 timeslot in 79 channels (1 timeslot TX, 1 timeslot RX), So the hops in Observation Period( $0.4s \times 79$  channel) =  $(1600/79/2)$  hops/s  $\times 0.4s \times 79 = 320$  hops.  
 2. DH3 Packet permit maximum 1600 hops/s with 4 timeslot in 79 channels (3 timeslot TX, 1 timeslot RX), So the hops in Observation Period( $0.4s \times 79$  channel) =  $(1600/79/4)$  hops/s  $\times 0.4s \times 79 = 160$  hops.  
 3. DH5 Packet permit maximum 1600 hops/s with 6 timeslot in 79 channels (5 timeslot TX, 1 timeslot RX), So the hops in Observation Period( $0.4s \times 79$  channel) =  $(1600/79/5)$  hops/s  $\times 0.4s \times 79 = 106.67$  hops.  
 4. Dwell Time = Hops in Observation Period  $\times$  Pulse Duration.

**GFSK DH1****GFSK DH3**

**GFSK DH5****8-DPSK 3DH1**

**8-DPSK 3DH3****8-DPSK 3DH5**

## 8. CONDUCTED BAND EDGE

### 8.1. Limit

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 8.2. Test Setup



### 8.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Span	100MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

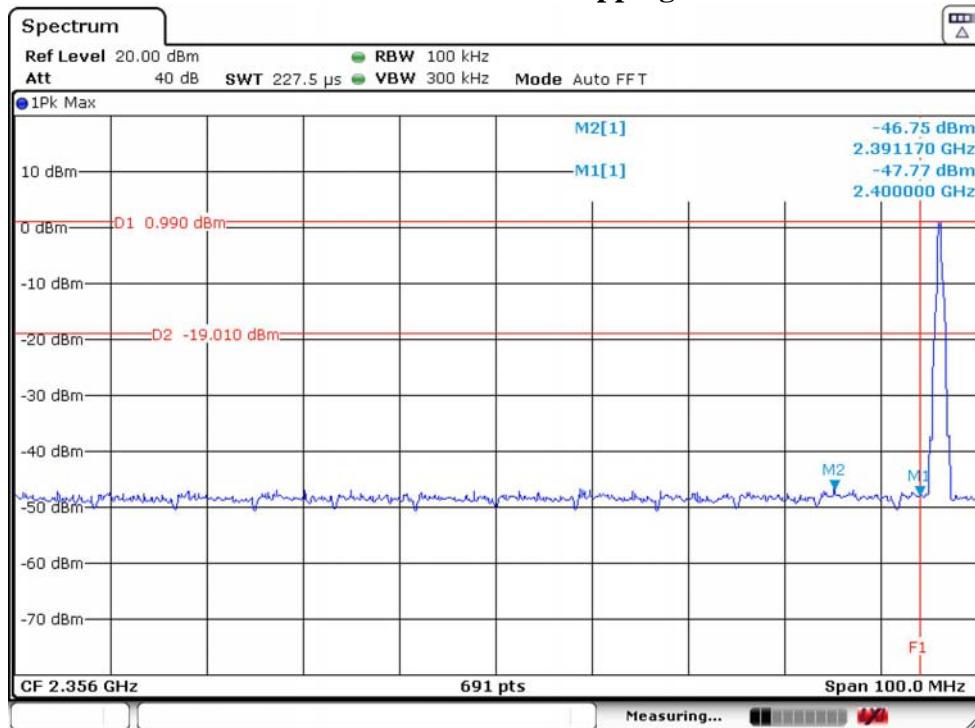
### 8.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 8.3.
- Set the EUT transmit continuously with maximum output power over fixed single hopping channel.
- Allow trace to stabilize, use the marker function to mark the highest emission level outside the authorized band.
- Repeat above procedures until all channels and test modes were measured(including frequency hopping off and frequency hopping on).
- Record the results in the test report.

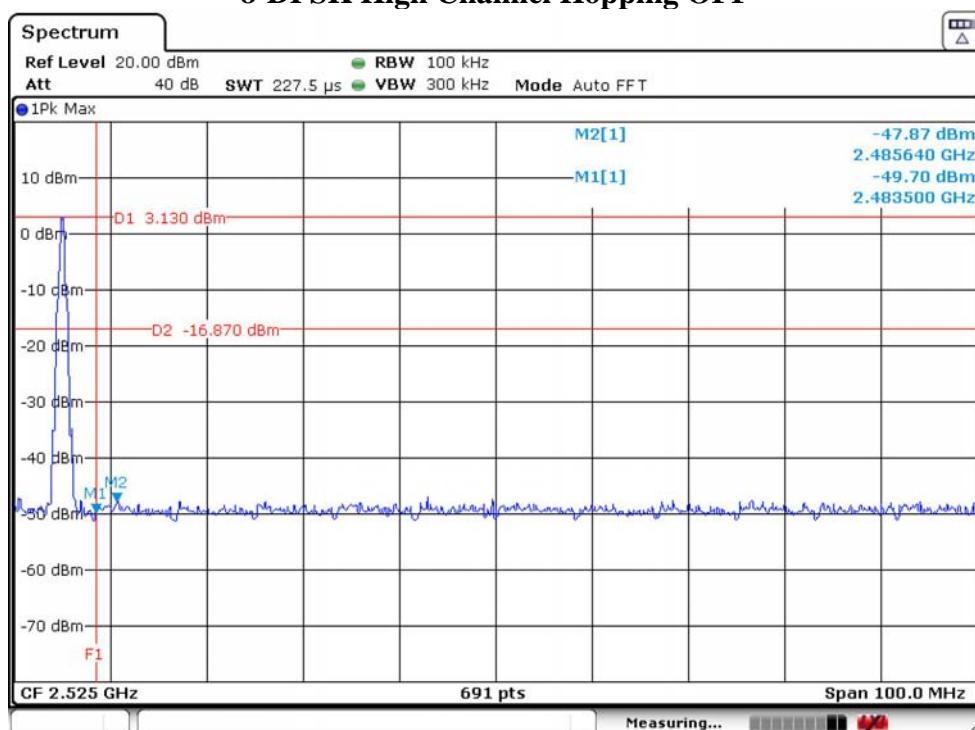
## 8.5. Test Result

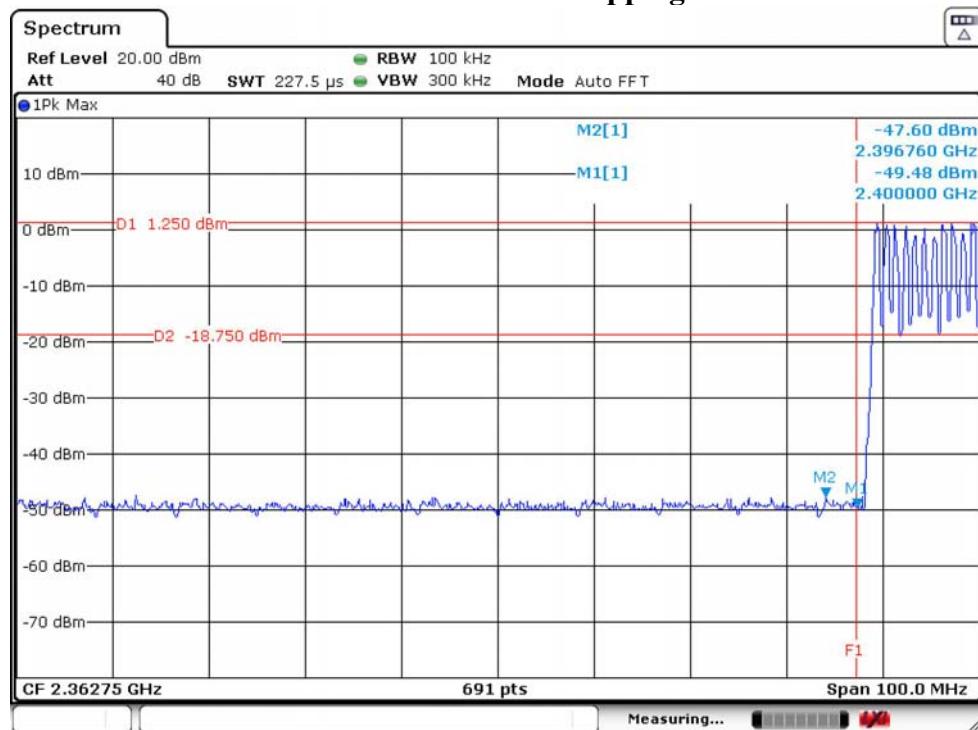
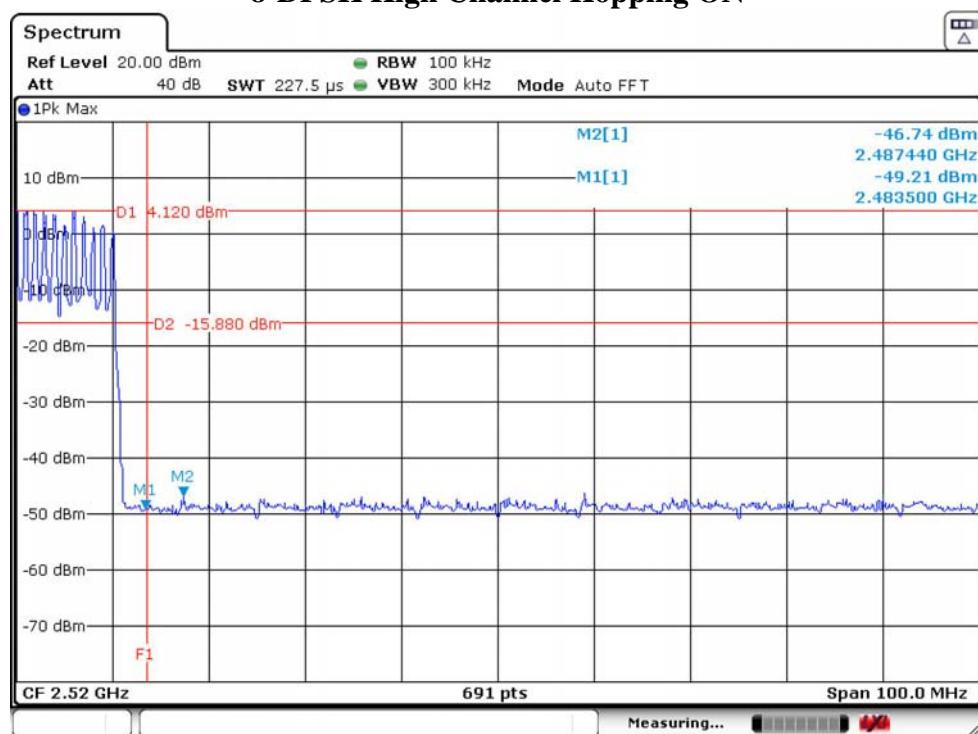
Temperature	27°C	Relative Humidity	54%	Test Voltage	120V/60Hz
Result	PASS				

### 8-DPSK Low Channel Hopping OFF



### 8-DPSK High Channel Hopping OFF



**8-DPSK Low Channel Hopping ON****8-DPSK High Channel Hopping ON**

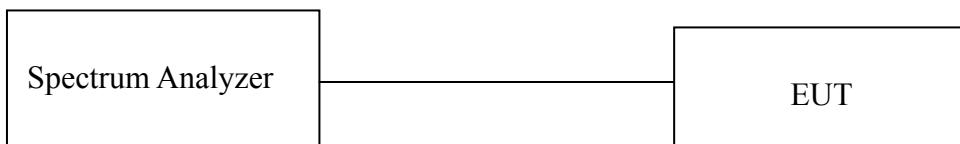
All modulations are all tested ,only worse case is reported

## 9. CONDUCTED SPURIOUS EMISSIONS

### 9.1. Limit

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 9.2. Test Setup



### 9.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	25GHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

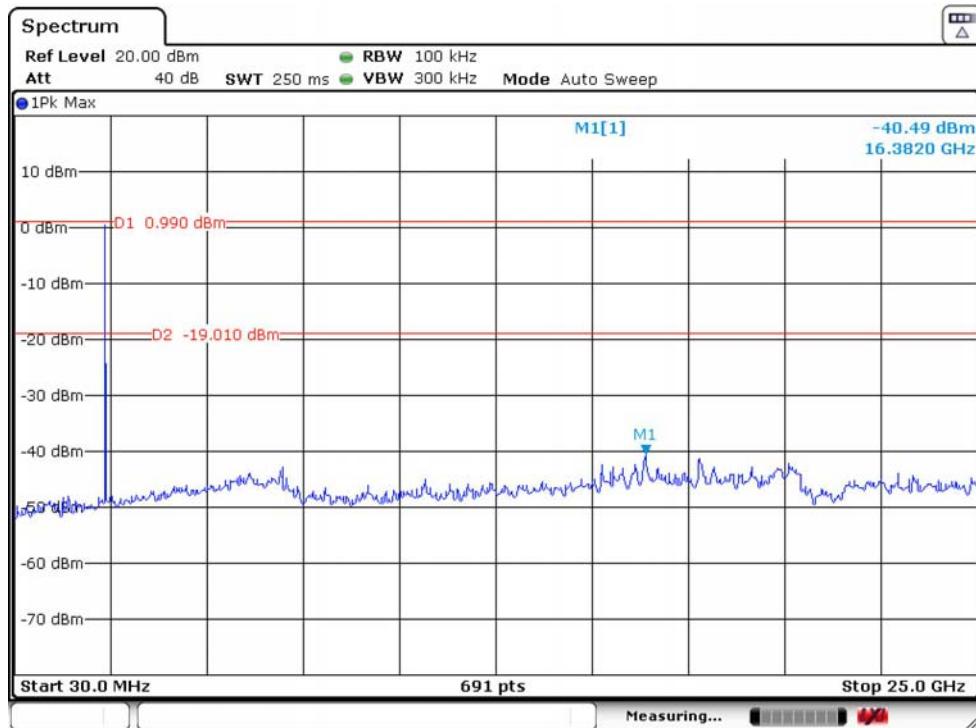
### 9.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 9.3.
- Set the EUT transmit continuously with maximum output power over fixed single hopping channel.
- Allow trace to stabilize, use the marker function to mark the highest emission level outside the authorized band.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

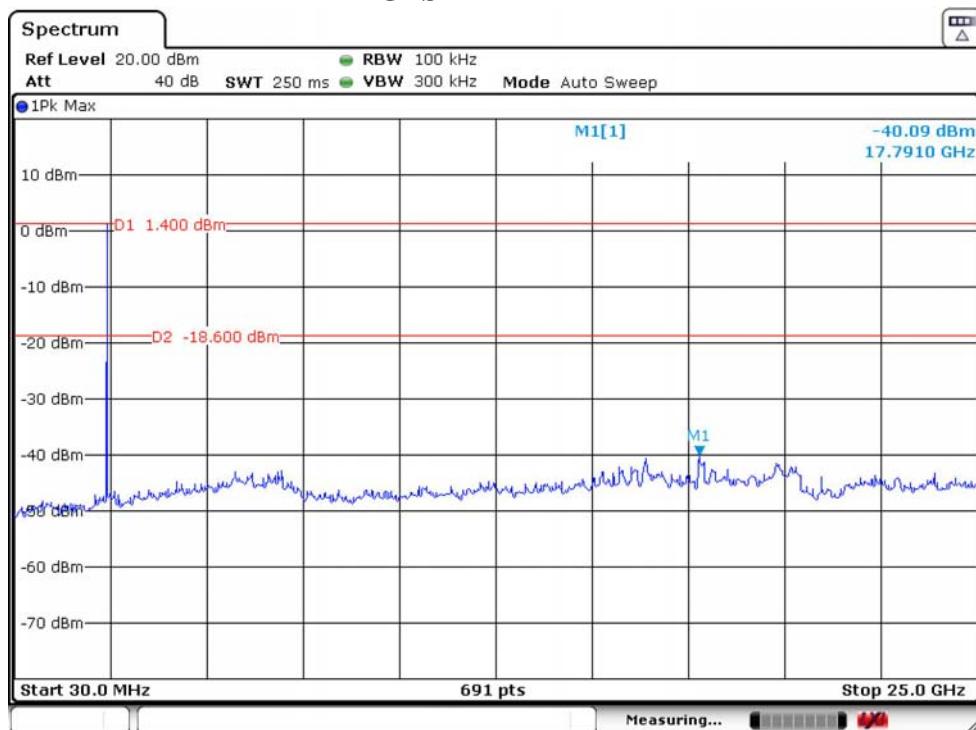
## 9.5. Test Result

Temperature	27°C	Relative Humidity	54%	Test Voltage	120V/60Hz
Result	PASS				

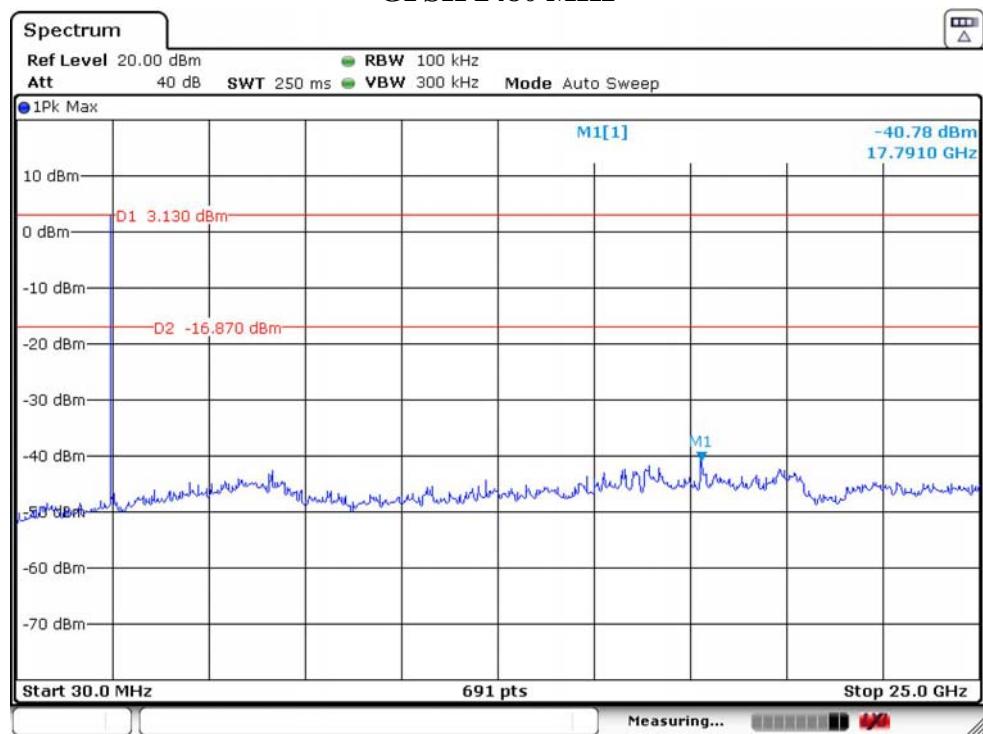
### GFSK 2402 MHz



### GFSK 2441 MHz



## GFSK 2480 MHz



All modulations are all tested ,only worse case is reported

## 10. RADIATED SPURIOUS EMISSIONS AND BAND EDGE

### 10.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

#### 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )

#### 15.209 Limit

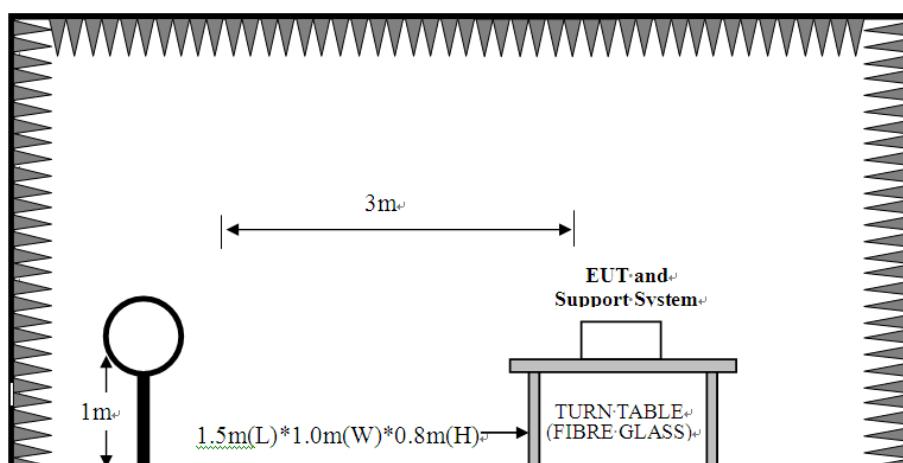
Frequency (MHz)	Field Strength( $\mu$ V/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

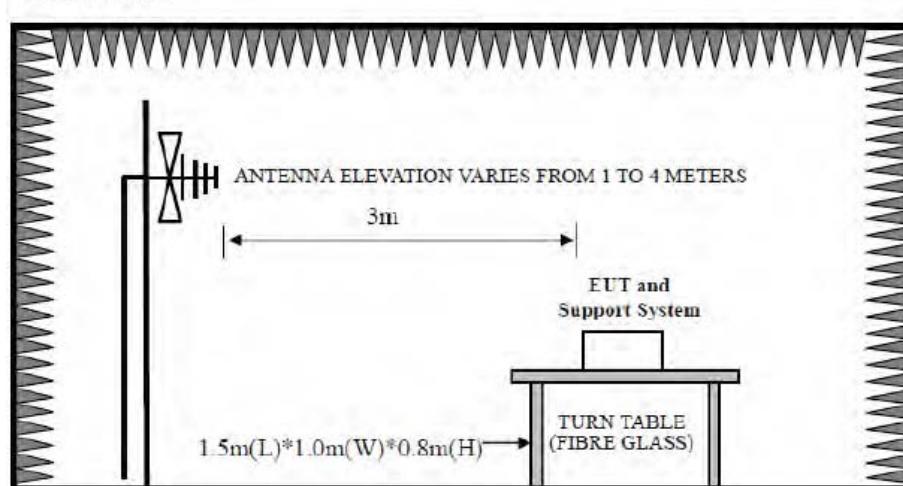
- (1) Emission level dB $\mu$ V = 20 log Emission level  $\mu$ V/m.
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

## 10.2. Test Setup

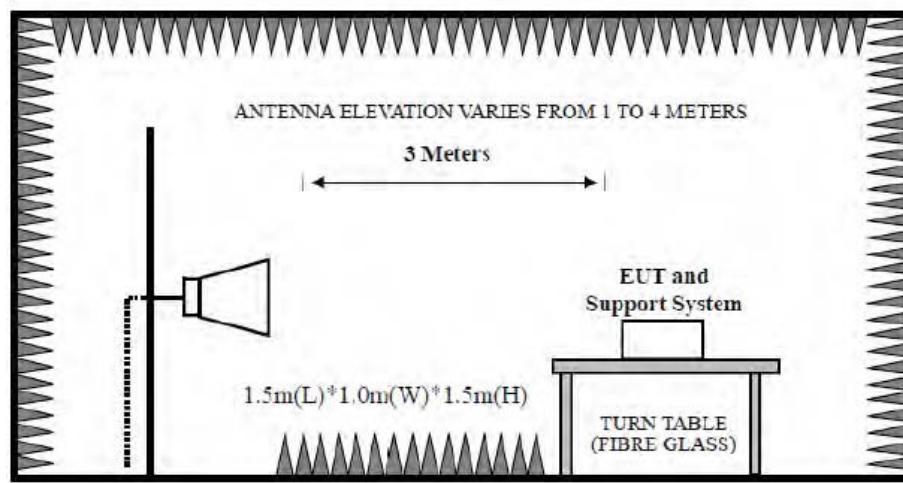
9kHz~30MHz



30~1000MHz



Above 1GHz



### 10.3. Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

For 150KHz-30MHz

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle $\geqslant$ 98%, VBW=10Hz Duty cycle<98%, VBW $\geqslant$ 1/T
Start frequency	1GHz	
Stop frequency	25GHz	
Sweep Time	Auto	
Detector	PEAK	
Trace Mode	Max Hold	

#### 10.4. Test Procedure

- a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- f. Spectrum analyzer setting parameters in accordance with section 10.3.
- g. Repeat above procedures until all channels and test modes were measured.
- h. Record the results in the test report.

Note:

1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
2. The frequency 2402MHz ,2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

## 10.5. Test Result

## Radiated Emissions Below 1GHz

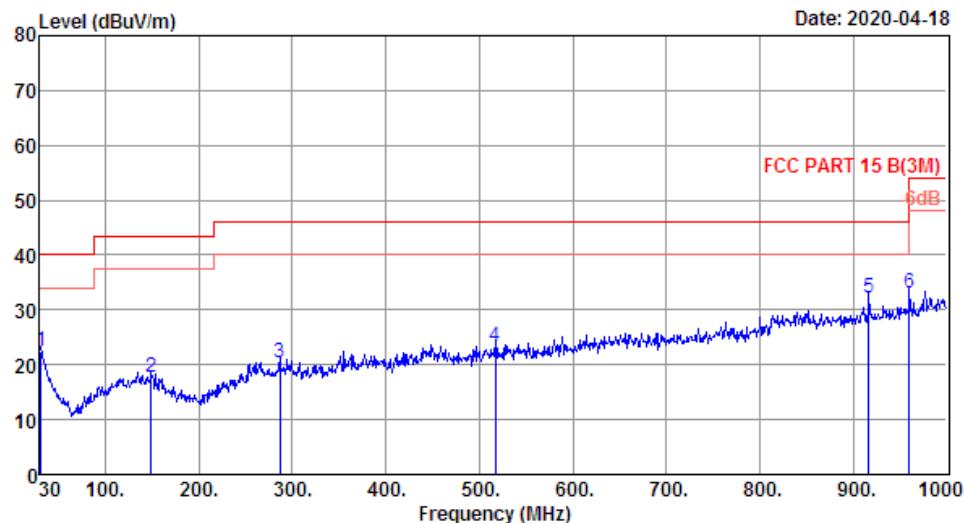
EST Technology

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Data: 77

File: \\Emc-966-1\\test data\\2020\\RF\\C\\CHANGCHENG\\100011886.EM6 (78)

Date: 2020-04-18



Site no. : 1# 966 Chamber Data no. : 77  
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Rumi:56%;Press:101.52kPa  
 Engineer : Frank  
 EUT : 10.1"Android Tablet  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : 100011886  
 Test Mode : TX Mode

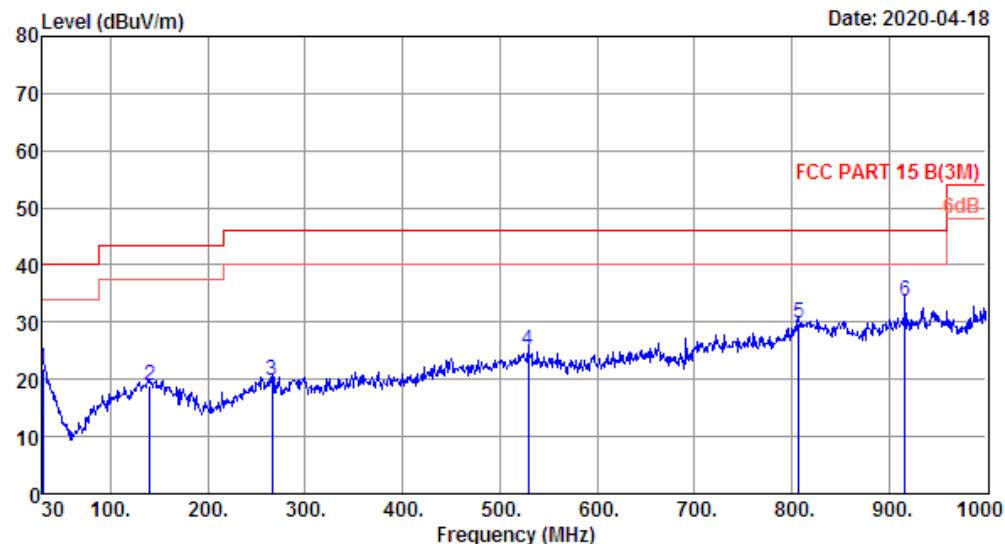
Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
30.97	17.60	0.14	4.61	22.35	40.00	17.65	QP
149.31	11.62	1.09	4.87	17.58	43.50	25.92	QP
287.05	13.20	1.82	5.24	20.26	46.00	25.74	QP
516.94	18.43	2.72	2.22	23.37	46.00	22.63	QP
916.58	24.00	3.99	4.14	32.13	46.00	13.87	QP
960.23	24.70	4.61	3.64	32.95	54.00	21.05	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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 Houjie, Dongguan, Guangdong, China  
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 Fax: +86-769-83081878

Data: 78 File: \Emc-966-1\test data\2020\RF\CHANGCHENG\100011886.EM6 (78)



Site no. : 1# 966 Chamber Data no. : 78  
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B (3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Frank  
 EUT : 10.1"Android Tablet  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : 100011886  
 Test Mode : TX Mode

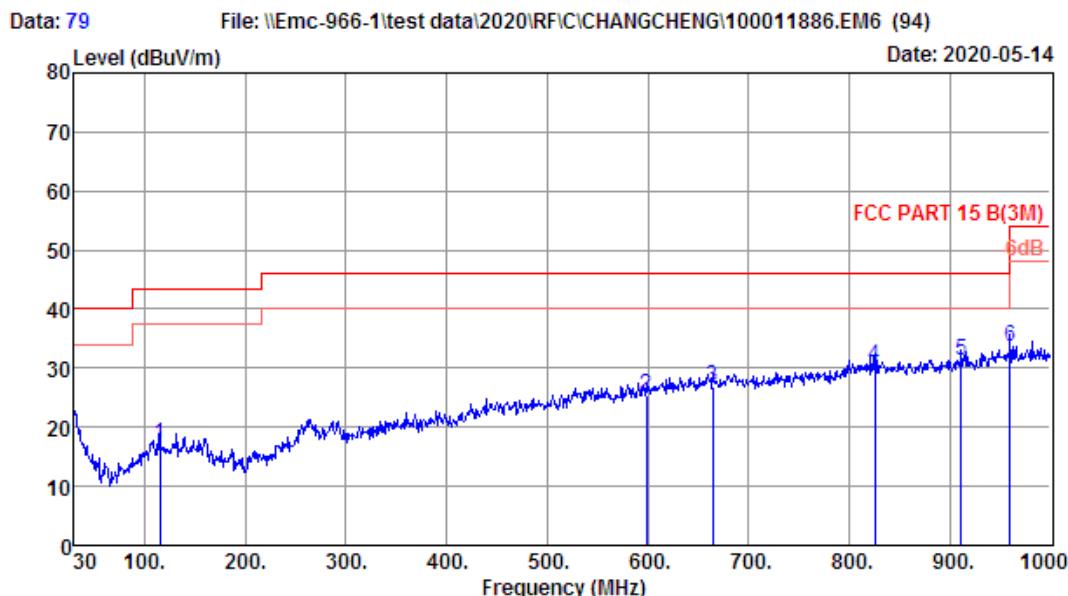
Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Emission				Remark
			Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
30.00	18.40	0.14	3.40	21.94	40.00	18.06	QP
140.58	12.37	1.04	5.62	19.03	43.50	24.47	QP
265.71	13.40	1.72	4.70	19.82	46.00	26.18	QP
529.55	18.80	2.78	3.39	24.97	46.00	21.03	QP
806.97	23.11	3.64	3.10	29.85	46.00	16.15	QP
916.58	24.00	3.99	5.60	33.59	46.00	12.41	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

Mainboard Model No.: MDXC1016G-M2 2GB &amp; LTMZ0007HF-DAB1-SM

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 Fax: +86-769-83081878



Site no. : 1# 966 Chamber      Data no. : 79  
 Dis. / Ant. : 3m 37062      Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Frank  
 EUT : 10.1"Android Tablet  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : 100011886  
 Test Mode : TX Mode  
 MDXC1016G-M2 2GB  
 LTMZ0007HF-DAB1-SM

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Emission				Remark
			Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 115.3600	11.20	0.93	5.05	17.18	43.50	26.32	QP
2 598.4200	20.38	2.96	2.17	25.51	46.00	20.49	QP
3 664.3800	21.65	3.22	2.13	27.00	46.00	19.00	QP
4 825.4000	23.35	3.71	3.45	30.51	46.00	15.49	QP
5 911.7300	24.00	3.93	3.25	31.18	46.00	14.82	QP
6 960.2300	24.70	4.61	4.30	33.61	54.00	20.39	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

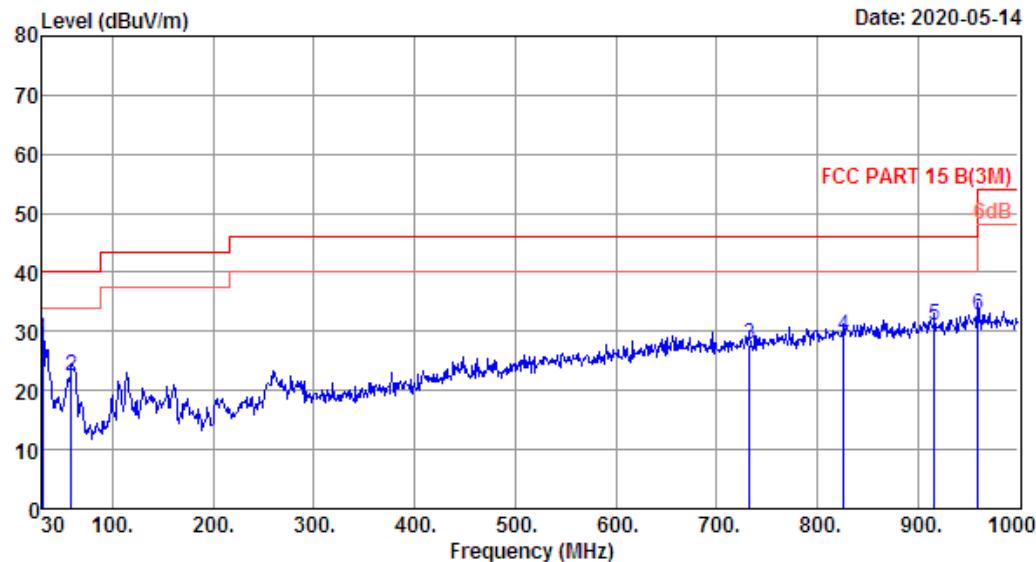
EST Technology

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 Houjie, Dongguan, Guangdong, China  
 Tel: +86-769-83081888  
 Fax: +86-769-83081878

Data: 80

File: \\Emc-966-1\\test data\\2020\\RF\\C\\CHANGCHENG\\100011886.EM6 (94)

Date: 2020-05-14



Site no. : 1# 966 Chamber Data no. : 80  
 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Frank  
 EUT : 10.1"Android Tablet  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : 100011886  
 Test Mode : TX Mode  
     MDXC1016G-M2 2GB  
     LTM20007HF-DAB1-SM

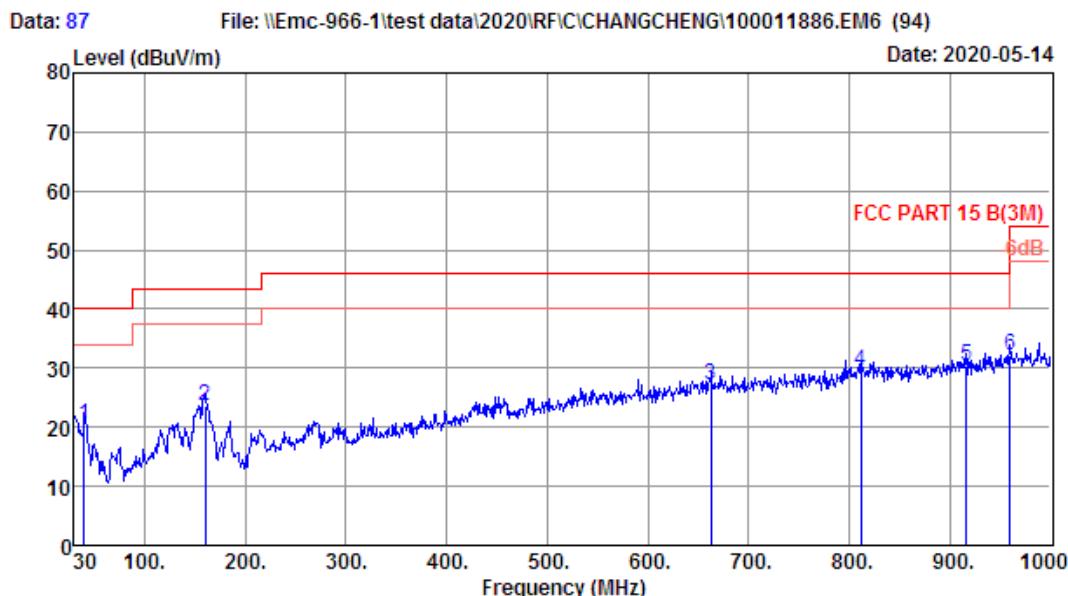
Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Emission				Remark
			Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 30.0000	18.40	0.14	10.15	28.69	40.00	11.31	QP
2 59.1000	5.25	0.42	16.90	22.57	40.00	17.43	QP
3 733.2500	21.73	3.52	2.54	27.79	46.00	18.21	QP
4 826.3700	23.36	3.71	2.10	29.17	46.00	16.83	QP
5 916.5800	24.00	3.99	3.04	31.03	46.00	14.97	QP
6 960.2300	24.70	4.61	3.56	32.87	54.00	21.13	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

Mainboard Model No.: RS512M32LM4D2BDS-53BT 2GB &amp; EMMC32G-TA28 32GB

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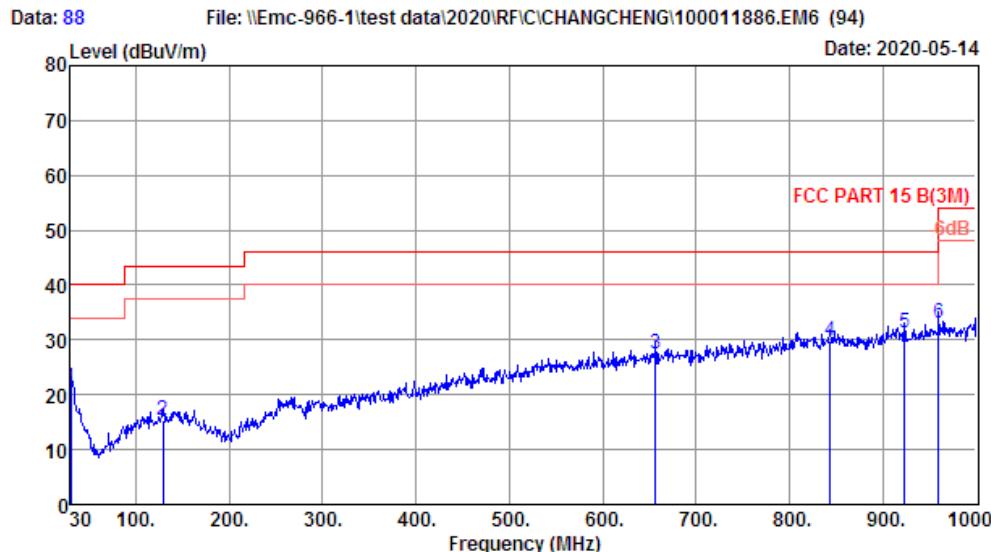
Site no. : 1# 966 Chamber      Data no. : 87  
 Dis. / Ant. : 3m 37062      Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Frank  
 EUT : 10.1"Android Tablet  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : 100011886  
 Test Mode : TX Mode  
 RS512M32LM4D2BDS-53BT 2GB  
 EMMC32G-TA28 32GB

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Emission				Remark
			Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 39.7000	12.20	0.22	7.95	20.37	40.00	19.63	QP
2 159.9800	11.30	1.14	11.18	23.62	43.50	19.88	QP
3 662.4400	21.63	3.23	2.42	27.28	46.00	18.72	QP
4 811.8200	23.22	3.66	2.51	29.39	46.00	16.61	QP
5 916.5800	24.00	3.99	2.55	30.54	46.00	15.46	QP
6 960.2300	24.70	4.61	2.74	32.05	54.00	21.95	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber      Data no. : 88  
 Dis. / Ant. : 3m 37062      Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Frank  
 EUT : 10.1"Android Tablet  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : 100011886  
 Test Mode : TX Mode  
 RS512M32LM4D2BDS-53BT 2GB  
 EMMC32G-TA28 32GB

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1 30.0000	18.40	0.14	2.65	21.19	40.00	18.81	QP
2 128.9400	11.66	0.97	2.77	15.40	43.50	28.10	QP
3 656.6200	21.54	3.23	2.61	27.38	46.00	18.62	QP
4 843.8300	23.34	3.70	2.89	29.93	46.00	16.07	QP
5 923.3701	24.03	4.06	3.09	31.18	46.00	14.82	QP
6 960.2300	24.70	4.61	3.74	33.05	54.00	20.95	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

## Note:

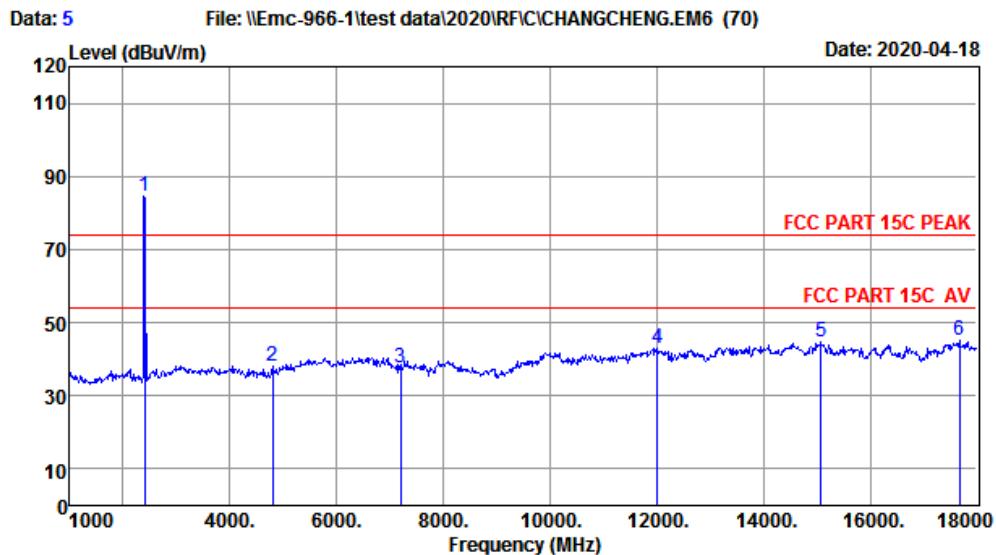
1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All test mode had been pre-test, only the worst case was reported.



**Radiated Emissions Above 1G**

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Site no. : 1# 966 Chamber Data no. : 5  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:29';Humi:54%;Press:101.52kPa  
 Engineer : Pablo  
 EUT : 10.1" Andriod Tablet  
 Power : DC5V From Adapter Input AC120V/60Hz  
 M/N : 100011886  
 Test Mode : GFSK 2402Mhz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2402.00	27.26	1.45	34.64	90.37	84.44	74.00	-10.44	Peak	
2 4804.00	31.12	3.25	34.66	38.55	38.26	74.00	35.74	Peak	
3 7206.00	36.21	5.19	34.82	30.90	37.48	74.00	36.52	Peak	
4 12016.00	39.89	5.91	34.79	31.96	42.97	74.00	31.03	Peak	
5 15076.00	40.82	6.76	34.57	31.54	44.55	74.00	29.45	Peak	
6 17677.00	46.32	8.03	34.33	25.28	45.30	74.00	28.70	Peak	

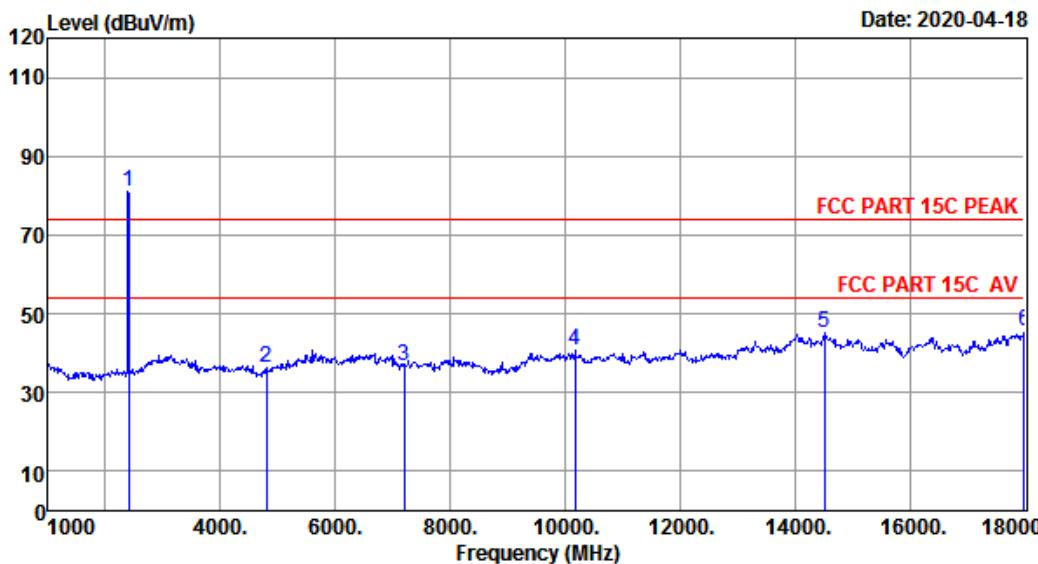
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 6 File: \Emc-966-1\test data\2020\RF\CHANGCHENG.EM6 (70)

Date: 2020-04-18



Site no. : 1# 966 Chamber Data no. : 6  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:29';Humi:54%;Press:101.52kPa  
 Engineer : Pablo  
 EUT : 10.1" Andriod Tablet  
 Power : DC5V From Adapter Input AC120V/60Hz  
 M/N : 100011886  
 Test Mode : GFSK 2402Mhz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2402.00	27.26	1.45	34.64	86.99	81.06	74.00	-7.06	Peak
2 4804.00	31.12	3.25	34.66	36.80	36.51	74.00	37.49	Peak
3 7206.00	36.21	5.19	34.82	30.30	36.88	74.00	37.12	Peak
4 10180.00	39.09	5.94	34.26	29.82	40.59	74.00	33.41	Peak
5 14515.00	41.00	6.90	34.45	31.68	45.13	74.00	28.87	Peak
6 18000.00	48.90	8.24	34.30	22.96	45.80	74.00	28.20	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

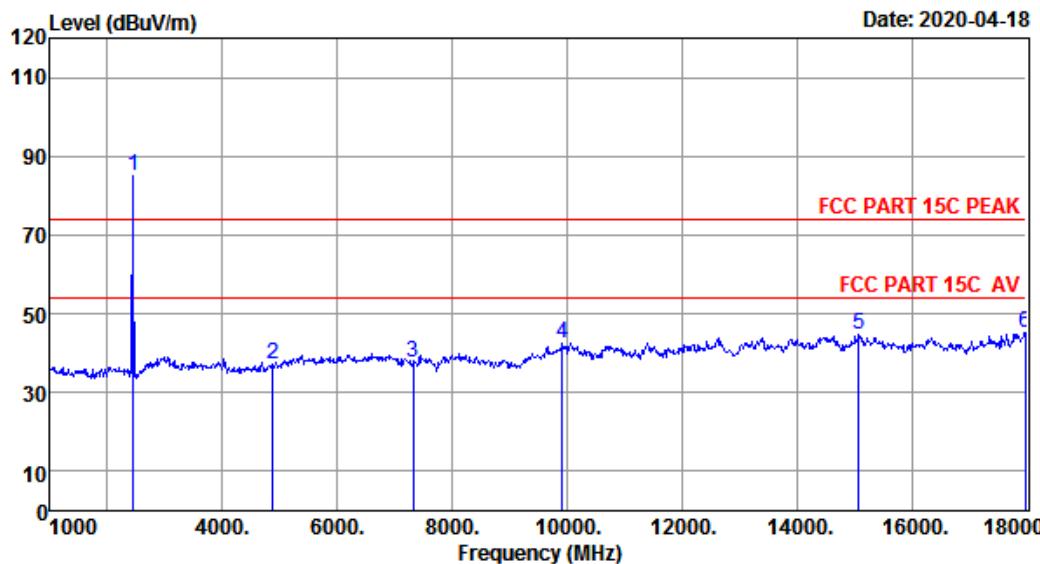


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Data: 7 File: \Emc-966-1\test data\2020\RF\1\CHANGCHENG.EM6 (70)

Date: 2020-04-18



Site no. : 1# 966 Chamber Data no. : 7  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:29';Humi:54%;Press:101.52kPa  
 Engineer : Pablo  
 EUT : 10.1" Andriod Tablet  
 Power : DC5V From Adapter Input AC120V/60Hz  
 M/N : 100011886  
 Test Mode : GFSK 2441Mhz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2441.00	27.33	1.47	34.62	90.77	84.95	74.00	-10.95	Peak
2 4882.00	31.37	3.31	34.68	37.16	37.16	74.00	36.84	Peak
3 7323.00	36.46	5.22	34.83	31.00	37.85	74.00	36.15	Peak
4 9925.00	38.76	5.84	34.21	32.10	42.49	74.00	31.51	Peak
5 15076.00	40.82	6.76	34.57	31.54	44.55	74.00	29.45	Peak
6 17983.00	48.76	8.23	34.30	22.56	45.25	74.00	28.75	Peak

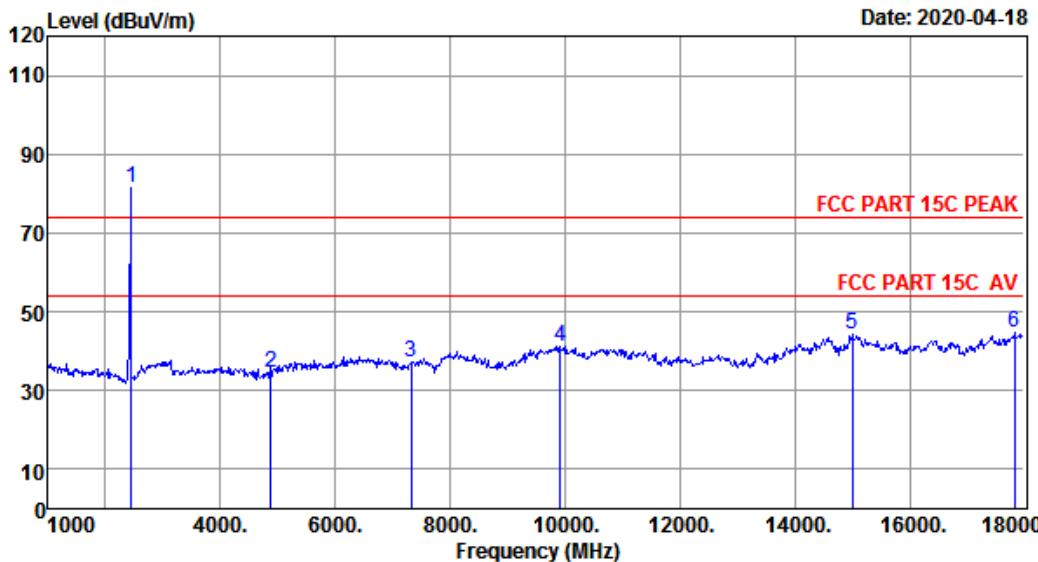
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 8 File: \Emc-966-1\test data\2020\RF\CHANGCHENG.EM6 (70)

Date: 2020-04-18



Site no. : 1# 966 Chamber Data no. : 8  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:29';Humi:54%;Press:101.52kPa  
 Engineer : Pablo  
 EUT : 10.1" Andriod Tablet  
 Power : DC5V From Adapter Input AC120V/60Hz  
 M/N : 100011886  
 Test Mode : GFSK 2441Mhz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2441.00	27.33	1.47	34.62	87.24	81.42	74.00	-7.42	Peak
2 4882.00	31.37	3.31	34.68	34.64	34.64	74.00	39.36	Peak
3 7323.00	36.46	5.22	34.83	30.17	37.02	74.00	36.98	Peak
4 9925.00	38.76	5.84	34.21	30.98	41.37	74.00	32.63	Peak
5 15008.00	40.90	6.81	34.60	31.20	44.31	74.00	29.69	Peak
6 17830.00	47.54	8.13	34.32	23.29	44.64	74.00	29.36	Peak

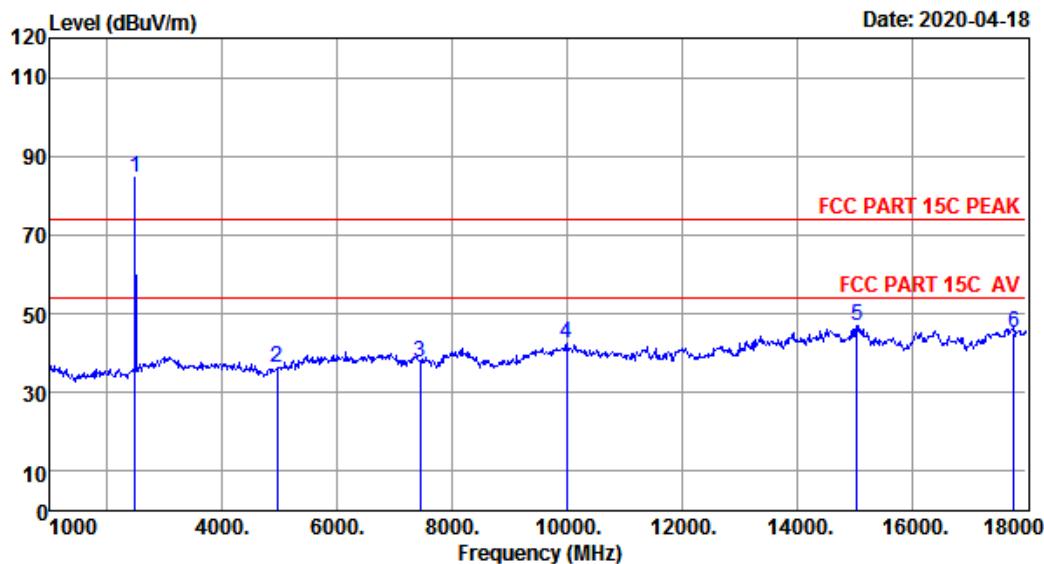
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 9 File: \Emc-966-1\test data\2020\RF\CHANGCHENG.EM6 (70)

Date: 2020-04-18



Site no. : 1# 966 Chamber Data no. : 9  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:29';Humi:54%;Press:101.52kPa  
 Engineer : Pablo  
 EUT : 10.1" Andriod Tablet  
 Power : DC5V From Adapter Input AC120V/60Hz  
 M/N : 100011886  
 Test Mode : GFSK 2480Mhz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2480.00	27.38	1.48	34.61	90.33	84.58	74.00	-10.58	Peak
2 4960.00	31.68	3.38	34.69	35.99	36.36	74.00	37.64	Peak
3 7440.00	36.70	5.26	34.84	30.68	37.80	74.00	36.20	Peak
4 9993.00	38.90	5.89	34.20	31.96	42.55	74.00	31.45	Peak
5 15042.00	40.86	6.78	34.59	33.81	46.86	74.00	27.14	Peak
6 17779.00	47.14	8.10	34.32	24.46	45.38	74.00	28.62	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

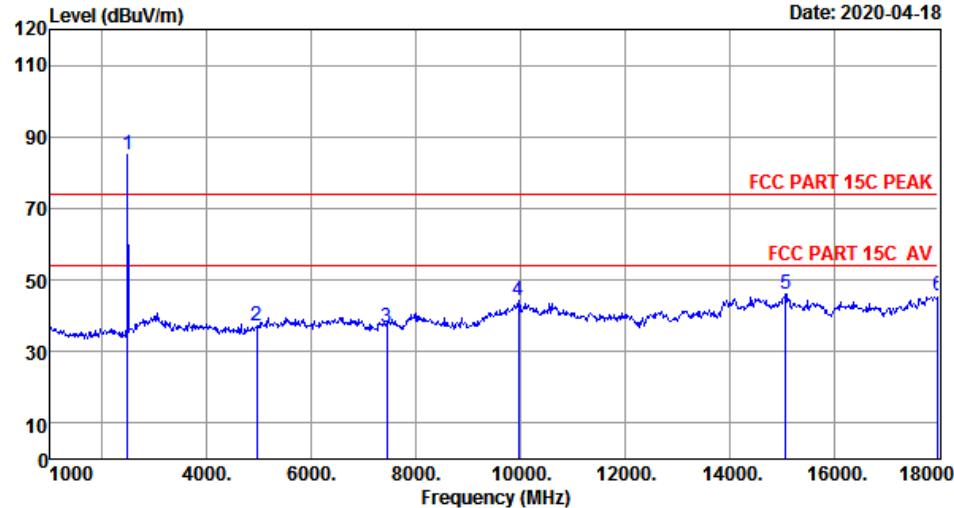


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Data: 10 File: \\Emc-966-1\\test data\\2020\\RF\\C\\CHANGCHENG.EM6 (70)

Date: 2020-04-18



Site no. : 1# 966 Chamber Data no. : 10  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:29';Humi:54%;Press:101.52kPa  
 Engineer : Pablo  
 EUT : 10.1" Andriod Tablet  
 Power : DCSV From Adapter Input AC120V/60Hz  
 M/N : 100011886  
 Test Mode : GFSK 2480Mhz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.38	1.48	34.61	90.67	84.92	74.00	-10.92	Peak
2	4960.00	31.68	3.38	34.69	36.93	37.30	74.00	36.70	Peak
3	7440.00	36.70	5.26	34.84	29.66	36.78	74.00	37.22	Peak
4	9959.00	38.83	5.86	34.21	33.65	44.13	74.00	29.87	Peak
5	15076.00	40.82	6.76	34.57	33.06	46.07	74.00	27.93	Peak
6	18000.00	48.90	8.24	34.30	22.61	45.45	74.00	28.55	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

## Note:

1. The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All test mode had been pre-test, only Low/Middle/High Channel of the worst case modulation mode was reported.



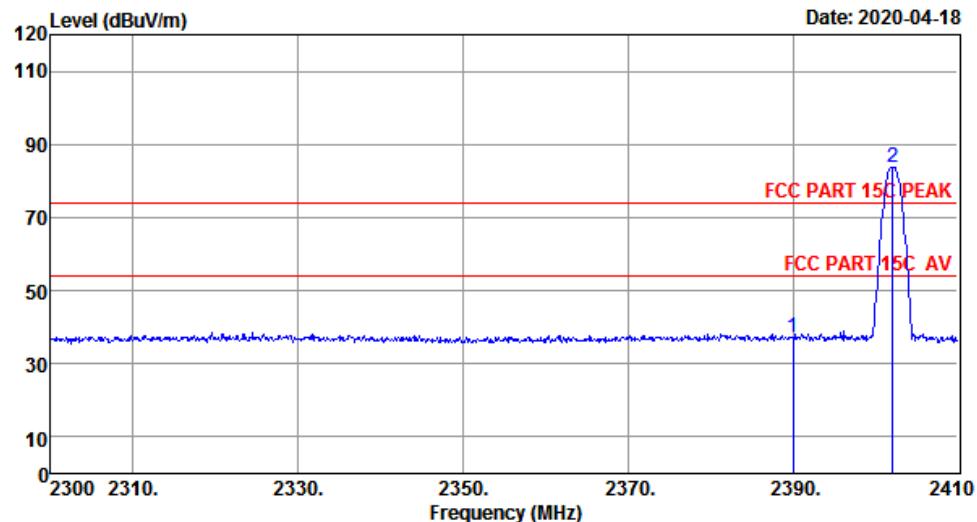
**Radiated Band Edge****EST Technology**

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**Data: 1**

File: \Emc-966-1\test data\2020\RF\CHANGCHENG.EM6 (70)

Date: 2020-04-18



Site no. : 1# 966 Chamber Data no. : 1  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:29';Humi:54%;Press:101.52kPa  
 Engineer : Pablo  
 EUT : 10.1" Andriod Tablet  
 Power : DC5V From Adapter Input AC120V/60Hz  
 M/N : 100011886  
 Test Mode : GFSK 2402Mhz

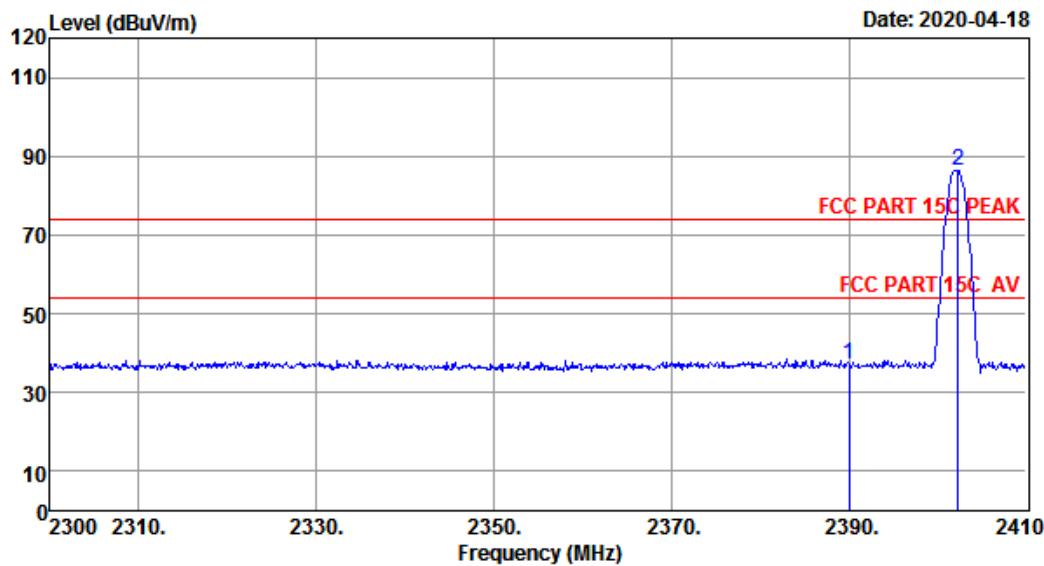
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2390.00	27.26	1.45	34.64	43.13	37.20	74.00	36.80	Peak	
2 2402.08	27.26	1.45	34.64	89.73	83.80	74.00	-9.80	Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 2 File: \\Emc-966-1\\test data\\2020\\RF\\C\\CHANGCHENG.EM6 (70)



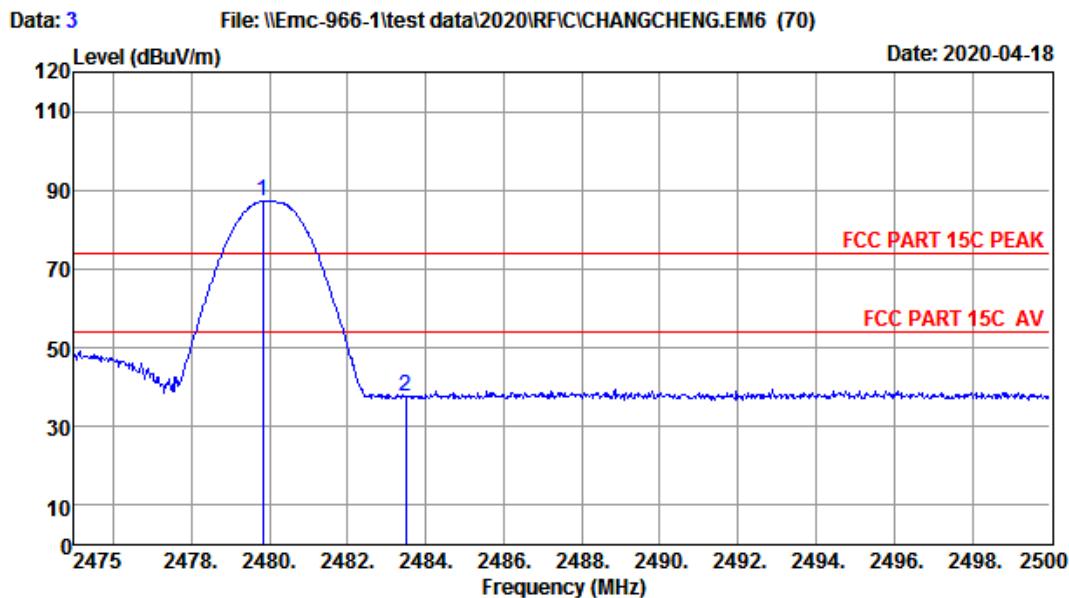
Site no. : 1# 966 Chamber Data no. : 2  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:29';Humi:54%;Press:101.52kPa  
 Engineer : Pablo  
 EUT : 10.1" Andriod Tablet  
 Power : DC5V From Adapter Input AC120V/60Hz  
 M/N : 100011886  
 Test Mode : GFSK 2402Mhz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2390.00	27.26	1.45	34.64	43.14	37.21	74.00	36.79		Peak
2 2402.30	27.26	1.45	34.64	92.30	86.37	74.00	-12.37		Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber      Data no. : 3  
 Dis. / Ant. : 3m ANT9120D 1-18G      Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:29';Humi:54%;Press:101.52kPa  
 Engineer : Pablo  
 EUT : 10.1" Andriod Tablet  
 Power : DC5V From Adapter Input AC120V/60Hz  
 M/N : 100011886  
 Test Mode : GFSK 2480Mhz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.83	27.38	1.48	34.61	92.86	87.11	74.00	-13.11	Peak
2	2483.50	27.38	1.48	34.61	43.30	37.55	74.00	36.45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

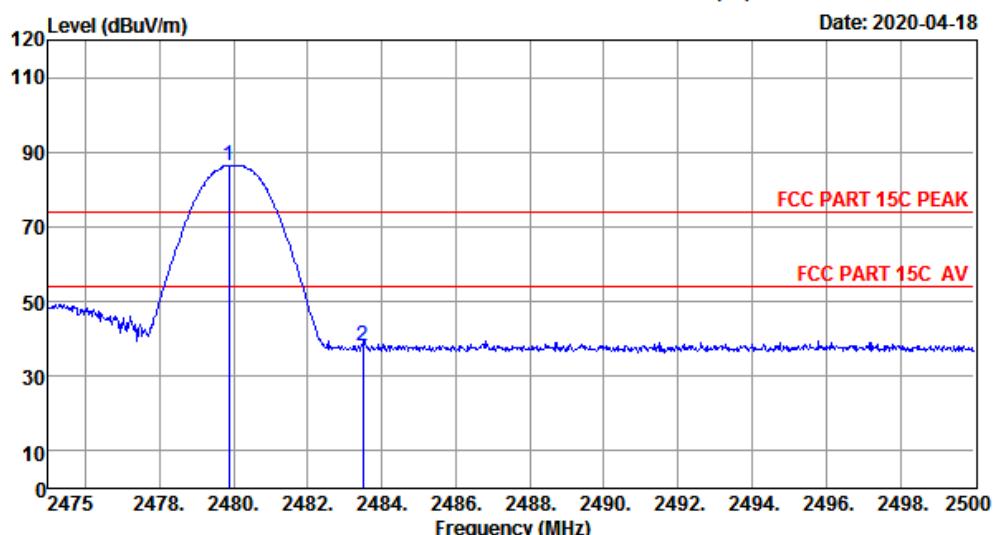
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Data: 4

File: \Emc-966-1\test data\2020\RF\CHANGCHENG.EM6 (70)

Date: 2020-04-18



Site no. : 1# 966 Chamber Data no. : 4  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:29';Humi:54%;Press:101.52kPa  
 Engineer : Pablo  
 EUT : 10.1" Andriod Tablet  
 Power : DC5V From Adapter Input AC120V/60Hz  
 M/N : 100011886  
 Test Mode : GFSK 2480Mhz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.88	27.38	1.48	34.61	92.09	86.34	74.00	-12.34	Peak
2	2483.50	27.38	1.48	34.61	43.75	38.00	74.00	36.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. All test mode had been pre-test, only Low/High Channel of the worst case modulation mode was reported.



## 11. AC POWER LINE CONDUCTED EMISSIONS

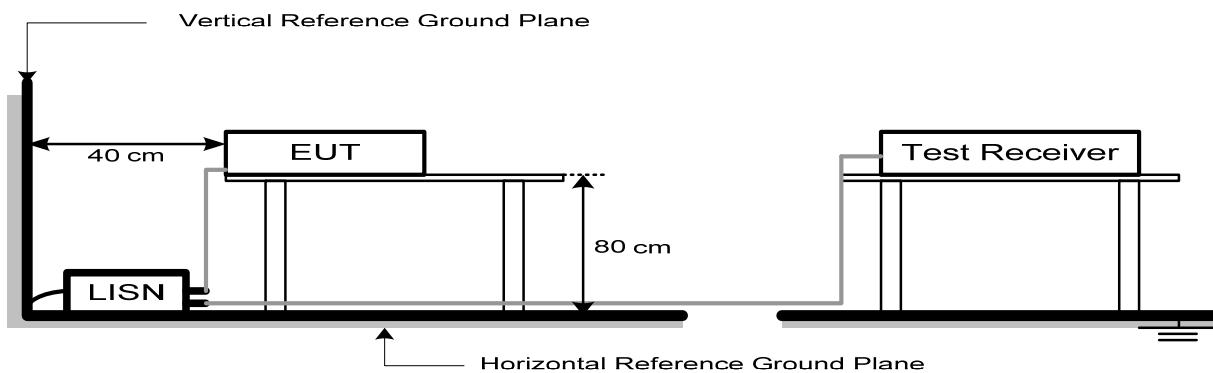
### 11.1. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note:

1. \* Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

### 11.2. Test Setup



### 11.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

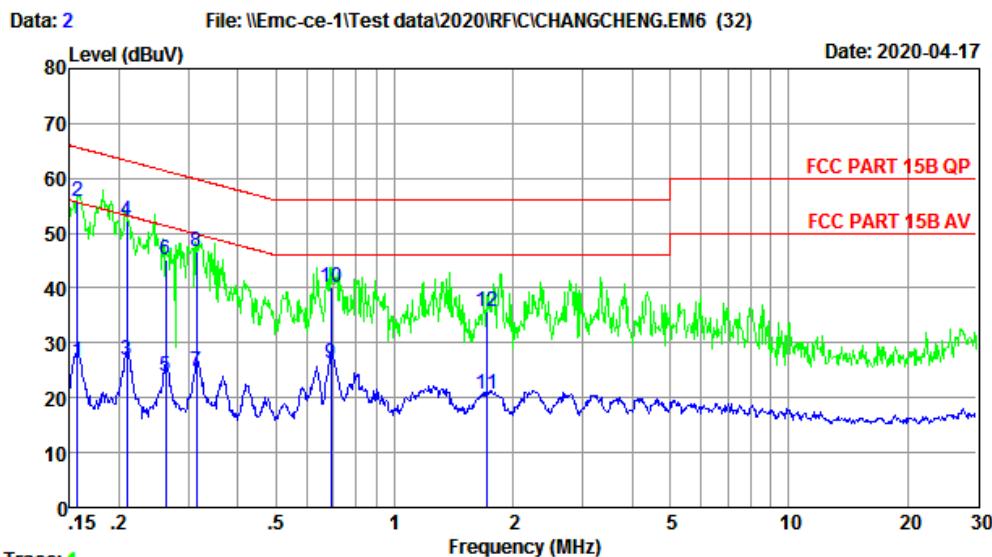
### 11.4. Test Procedure

- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 11.3.
- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.

## 11.5. Test Result

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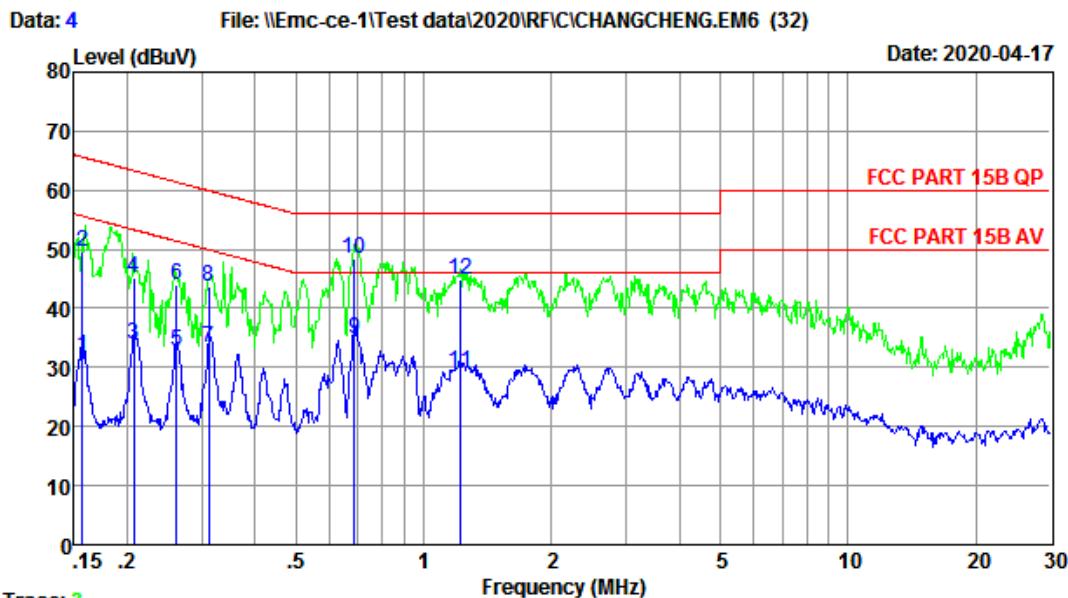


	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	9.62	9.69	7.33	26.64	55.65	29.01	Average
2	0.16	9.62	9.69	36.42	55.73	65.65	9.92	QP
3	0.21	9.70	9.84	7.42	26.96	53.23	26.27	Average
4	0.21	9.70	9.84	32.67	52.21	63.23	11.02	QP
5	0.26	9.71	9.92	4.40	24.03	51.34	27.31	Average
6	0.26	9.71	9.92	25.41	45.04	61.34	16.30	QP
7	0.31	9.73	9.92	5.01	24.66	49.84	25.18	Average
8	0.31	9.73	9.92	27.11	46.76	59.84	13.08	QP
9	0.69	9.75	9.93	6.65	26.33	46.00	19.67	Average
10	0.69	9.75	9.93	20.42	40.10	56.00	15.90	QP
11	1.71	9.68	9.95	1.11	20.74	46.00	25.26	Average
12	1.71	9.68	9.95	16.12	35.75	56.00	20.25	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin=Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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Trace: 3

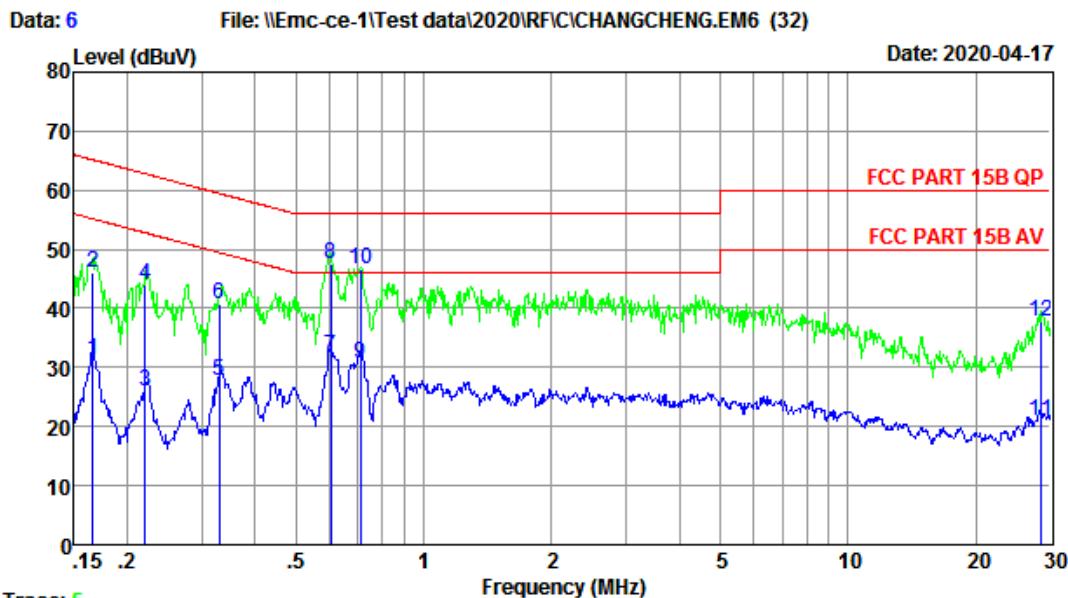
Site no : 844 Shield Room Data no. : 4  
 Env. / Ins. : Temp:23.5°C Humi:58% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : Zero  
 EUT : 10.1"Android Tablet  
 Power : DC 5V From Adapter Input AC 240V/60Hz  
 M/N : 100011886  
 Test Mode : TX Mode

Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	9.79	9.69	12.39	31.87	55.65	Average
2	0.16	9.79	9.69	30.12	49.60	65.65	QP
3	0.21	9.75	9.84	14.37	33.96	53.32	Average
4	0.21	9.75	9.84	25.55	45.14	63.32	QP
5	0.26	9.70	9.92	13.15	32.77	51.38	Average
6	0.26	9.70	9.92	24.22	43.84	61.38	QP
7	0.31	9.60	9.92	13.72	33.24	49.93	Average
8	0.31	9.60	9.92	24.15	43.67	59.93	QP
9	0.69	9.80	9.93	14.96	34.69	46.00	Average
10	0.69	9.80	9.93	28.62	48.35	56.00	QP
11	1.22	9.79	9.94	9.49	29.22	46.00	Average
12	1.22	9.79	9.94	25.15	44.88	56.00	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin=Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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Trace: 5

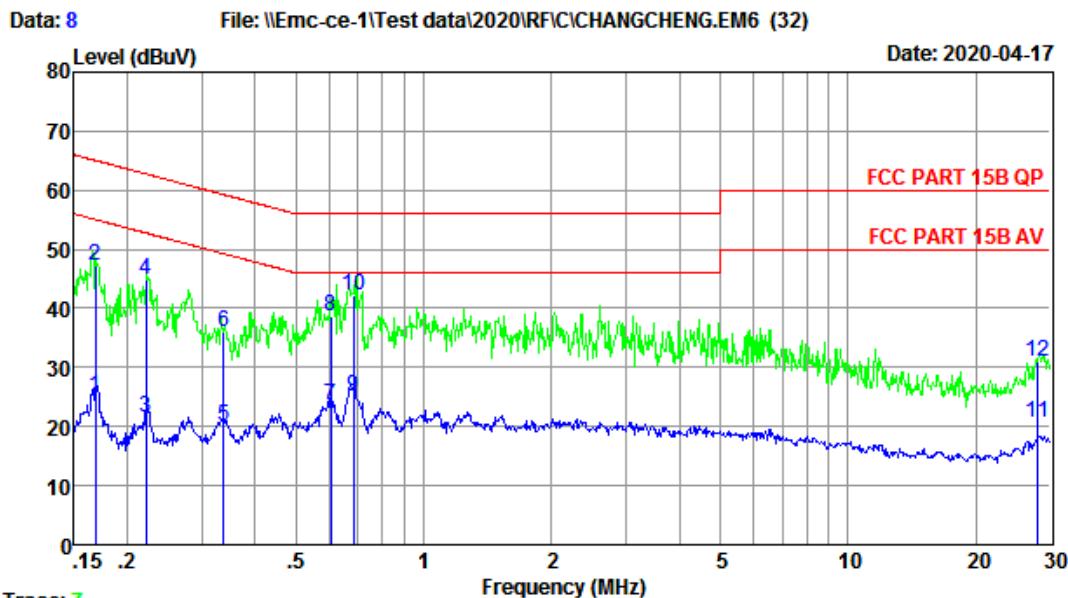
Site no : 844 Shield Room Data no. : 6  
 Env. / Ins. : Temp:23.5°C Humi:58% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : Zero  
 EUT : 10.1"Android Tablet  
 Power : DC 5V From Adapter Input AC 120V/60Hz  
 M/N : 100011886  
 Test Mode : TX Mode

Freq. (MHz)	LISN Factor	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
	(dB)	(dB)		(dBuV)			
1	0.17	9.79	9.69	11.72	31.20	55.16	23.96 Average
2	0.17	9.79	9.69	26.71	46.19	65.16	18.97 QP
3	0.22	9.75	9.84	6.36	25.95	52.79	26.84 Average
4	0.22	9.75	9.84	24.42	44.01	62.79	18.78 QP
5	0.33	9.68	9.92	8.11	27.71	49.44	21.73 Average
6	0.33	9.68	9.92	21.13	40.73	59.44	18.71 QP
7	0.60	9.86	9.92	11.98	31.76	46.00	14.24 Average
8	0.60	9.86	9.92	27.65	47.43	56.00	8.57 QP
9	0.71	9.80	9.93	10.89	30.62	46.00	15.38 Average
10	0.71	9.80	9.93	26.91	46.64	56.00	9.36 QP
11	28.60	9.92	10.15	0.85	20.92	50.00	29.08 Average
12	28.60	9.92	10.15	17.79	37.86	60.00	22.14 QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin=Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	9.62	9.69	5.84	25.15	55.03	Average
2	0.17	9.62	9.69	27.99	47.30	65.03	QP
3	0.22	9.70	9.84	2.14	21.68	52.74	Average
4	0.22	9.70	9.84	25.23	44.77	62.74	QP
5	0.34	9.74	9.92	0.27	19.93	49.27	Average
6	0.34	9.74	9.92	16.23	35.89	59.27	QP
7	0.60	9.76	9.92	3.88	23.56	46.00	Average
8	0.60	9.76	9.92	18.91	38.59	56.00	QP
9	0.68	9.75	9.92	5.47	25.14	46.00	Average
10	0.68	9.75	9.92	22.56	42.23	56.00	QP
11	28.00	9.74	10.15	0.65	20.54	50.00	Average
12	28.00	9.74	10.15	11.11	31.00	60.00	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. Margin=Limit - Emission Level.  
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

## 12. ANTENNA REQUIREMENTS

### 12.1. Limit

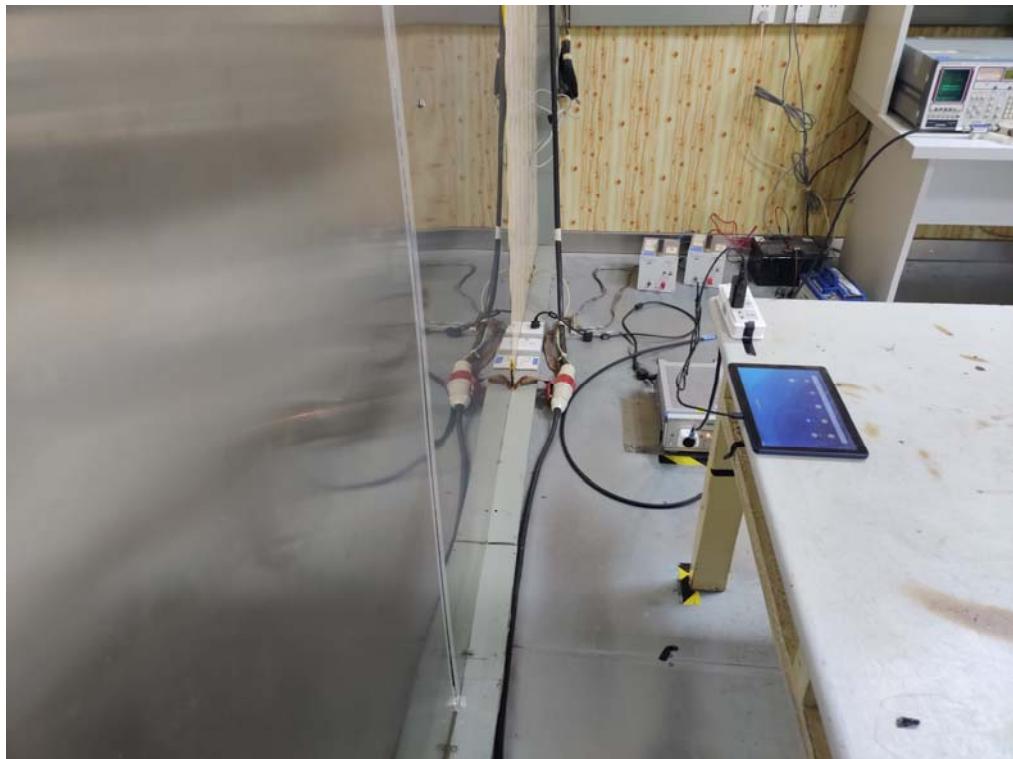
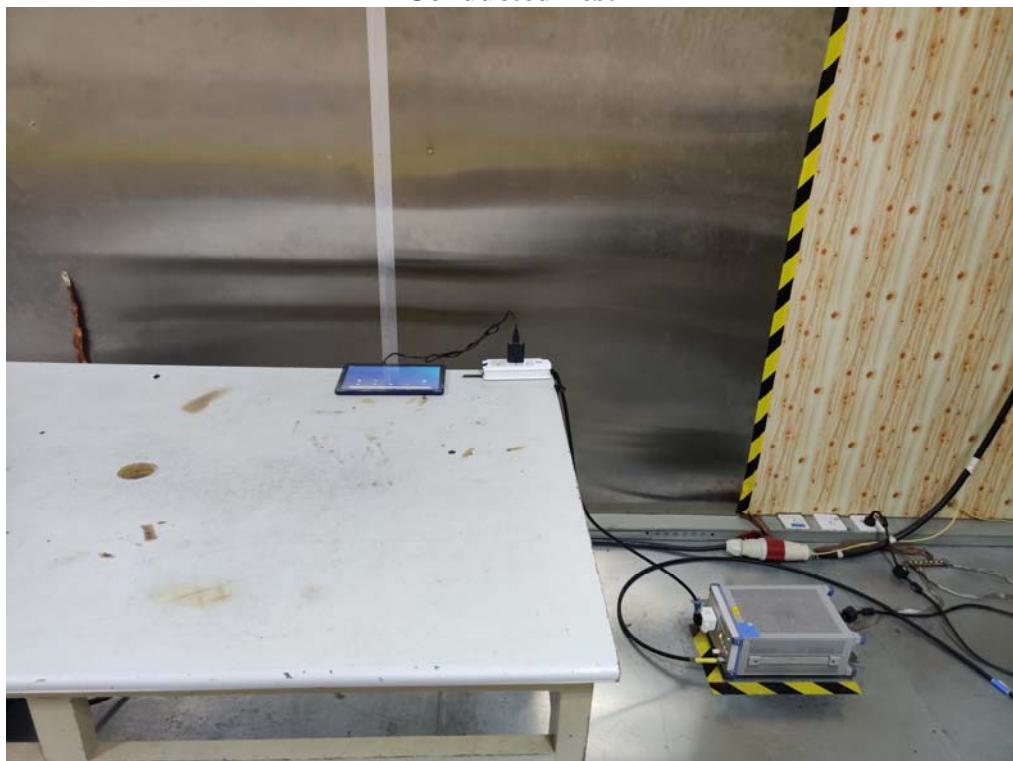
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply 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 use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### 12.2. Test Result

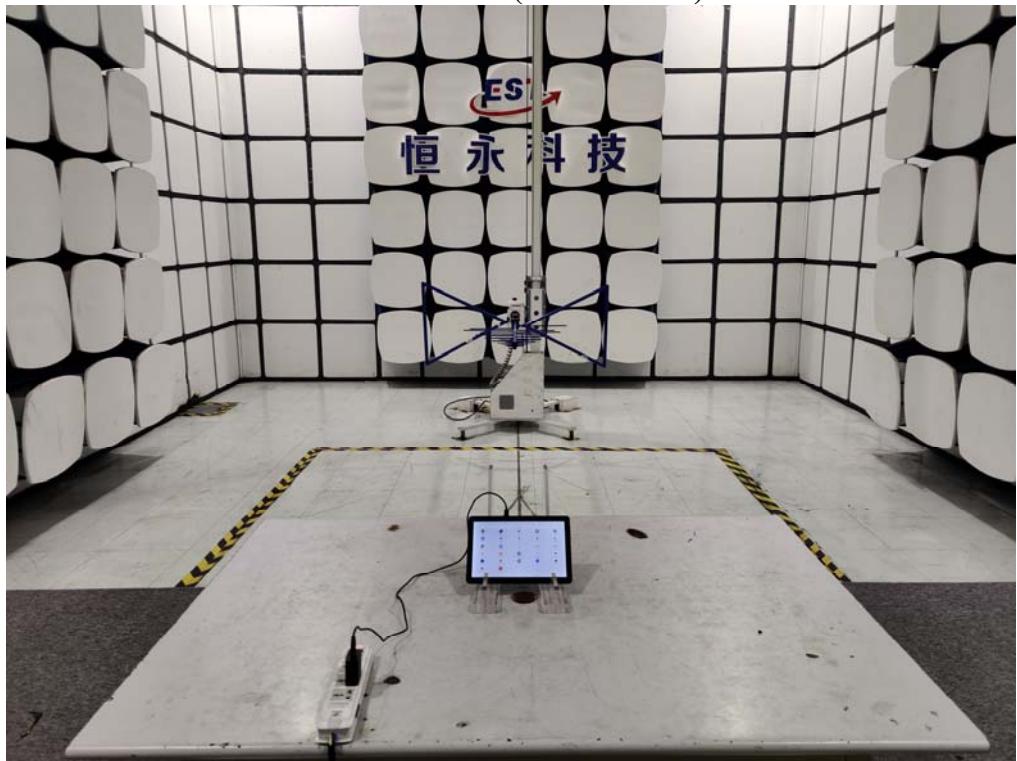
The antennas used for this product is internal antenna ,so compliance with antenna requirements.  
( Please refer to the EUT photo for details)

## 13. TEST SETUP PHOTO

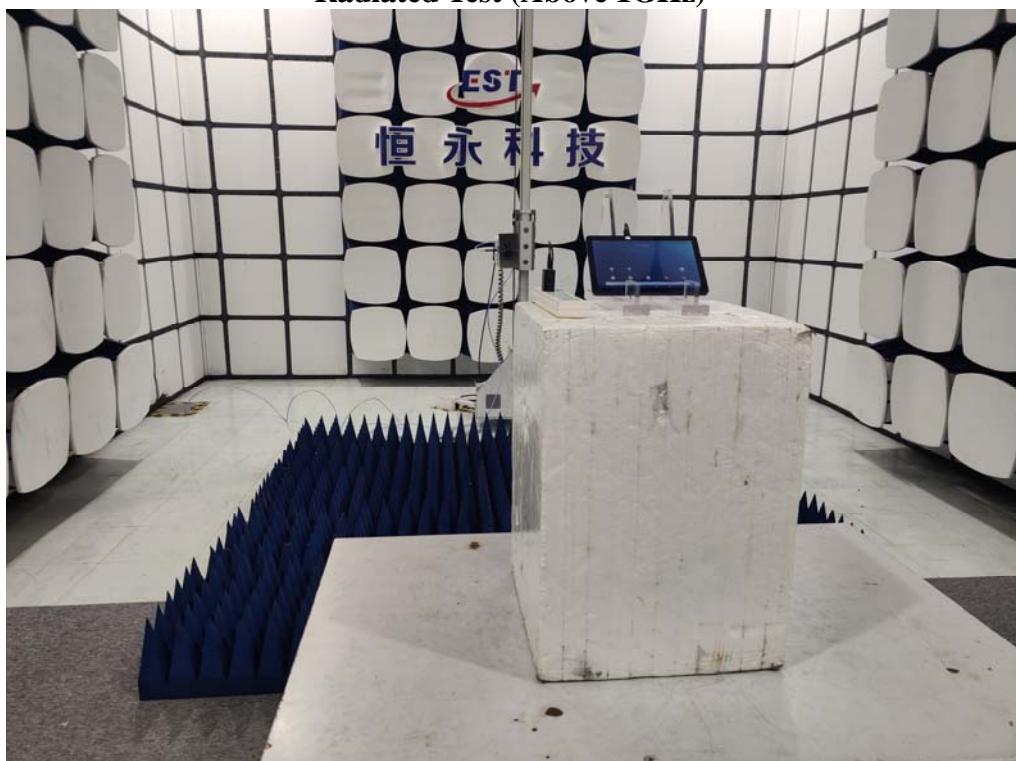
Conducted Test



**Radiated Test (Below 1GHz)**



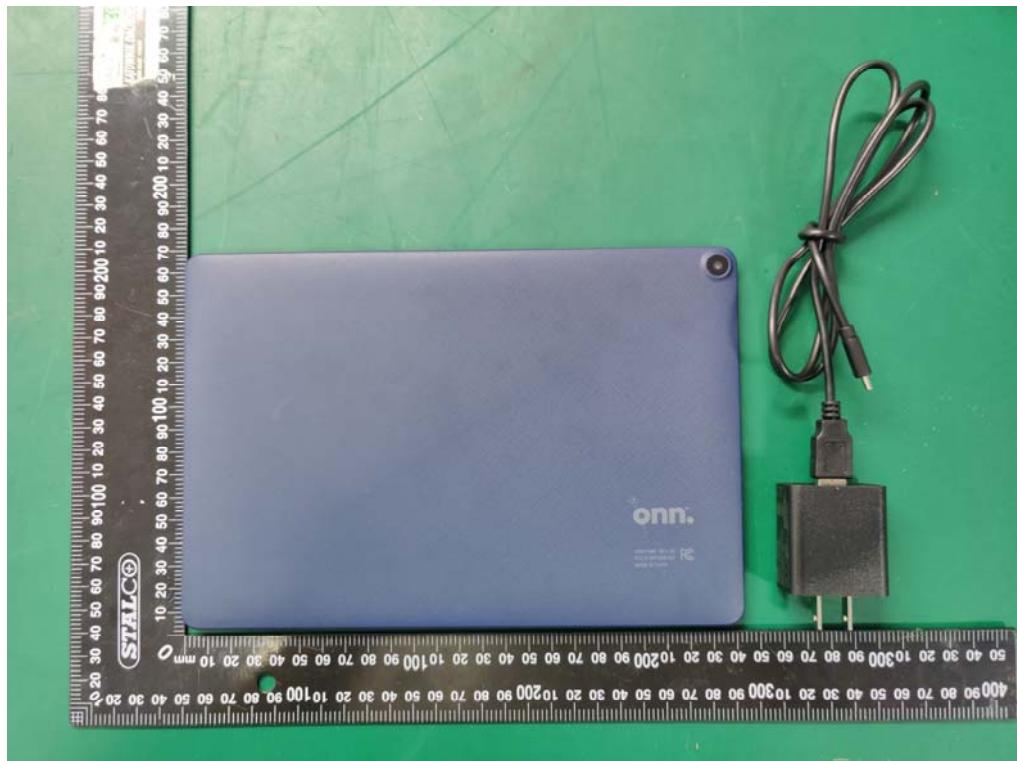
**Radiated Test (Above 1GHz)**



## 14. EUT PHOTO

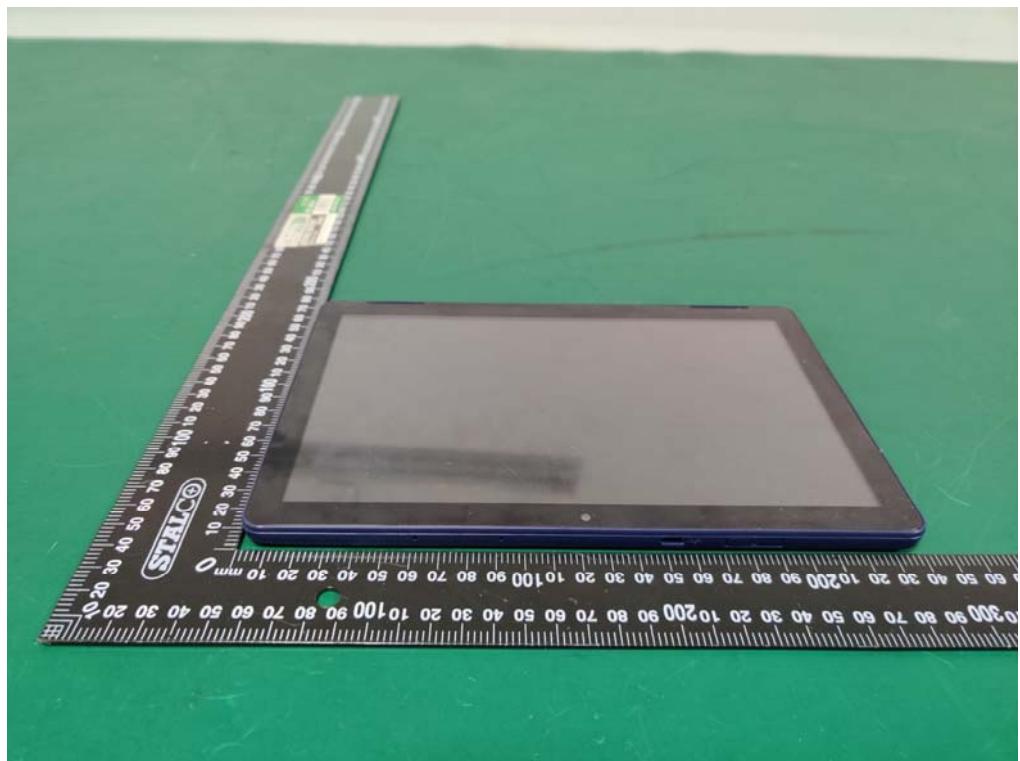
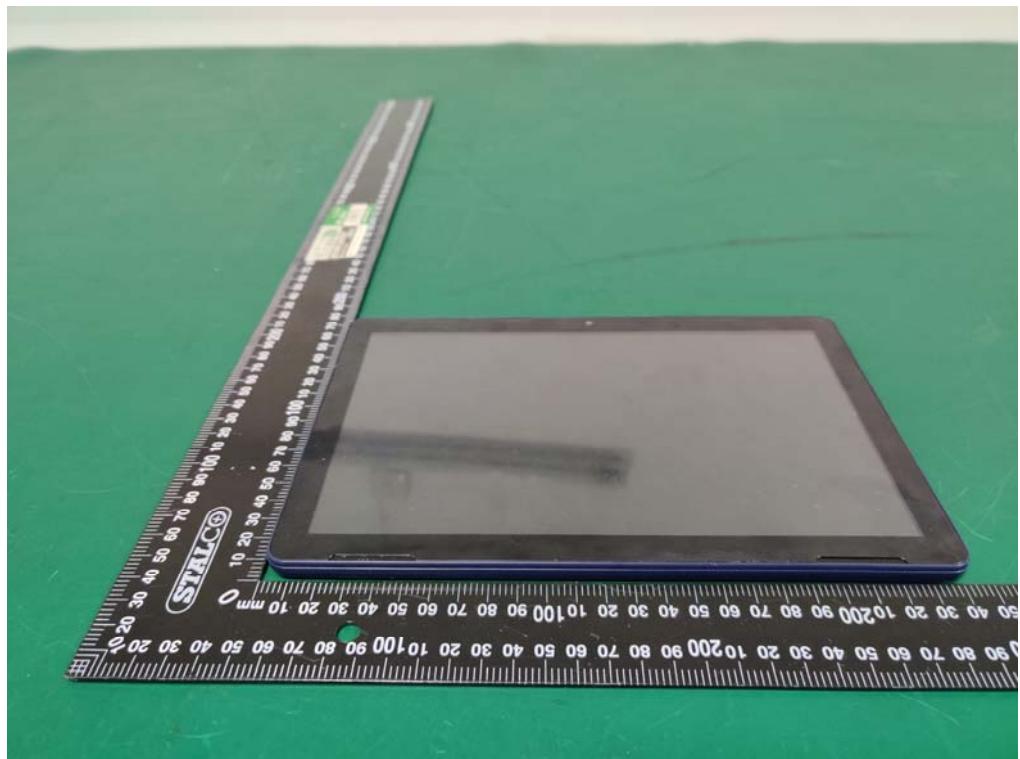
### External Photos

M/N: 100011886



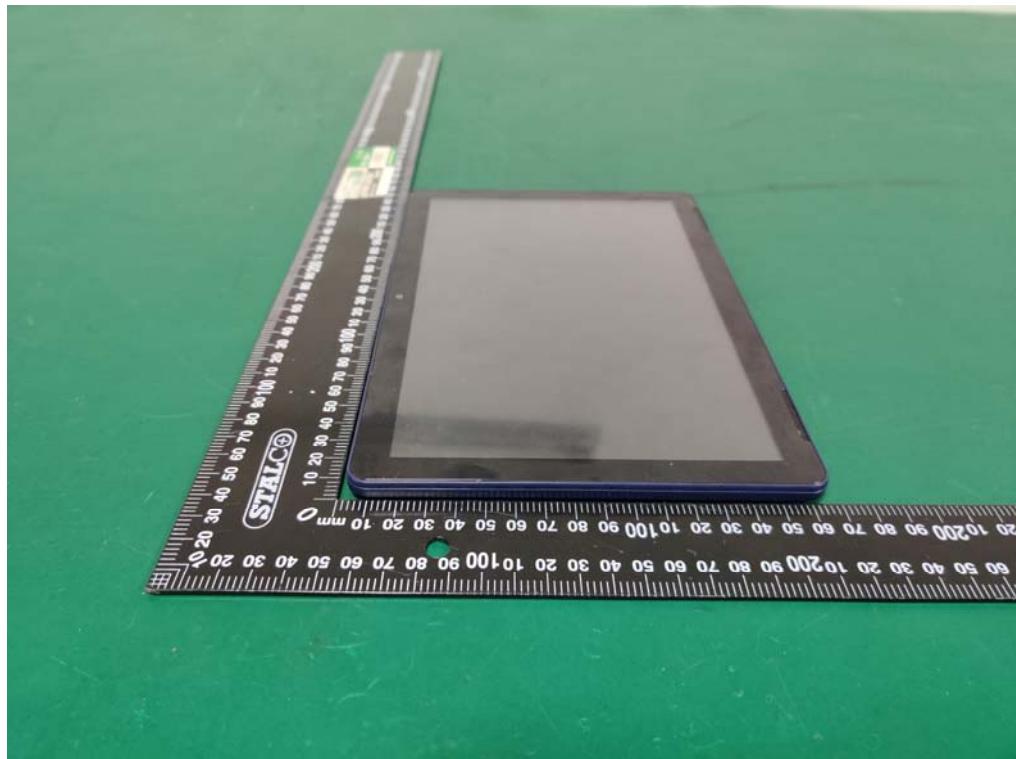
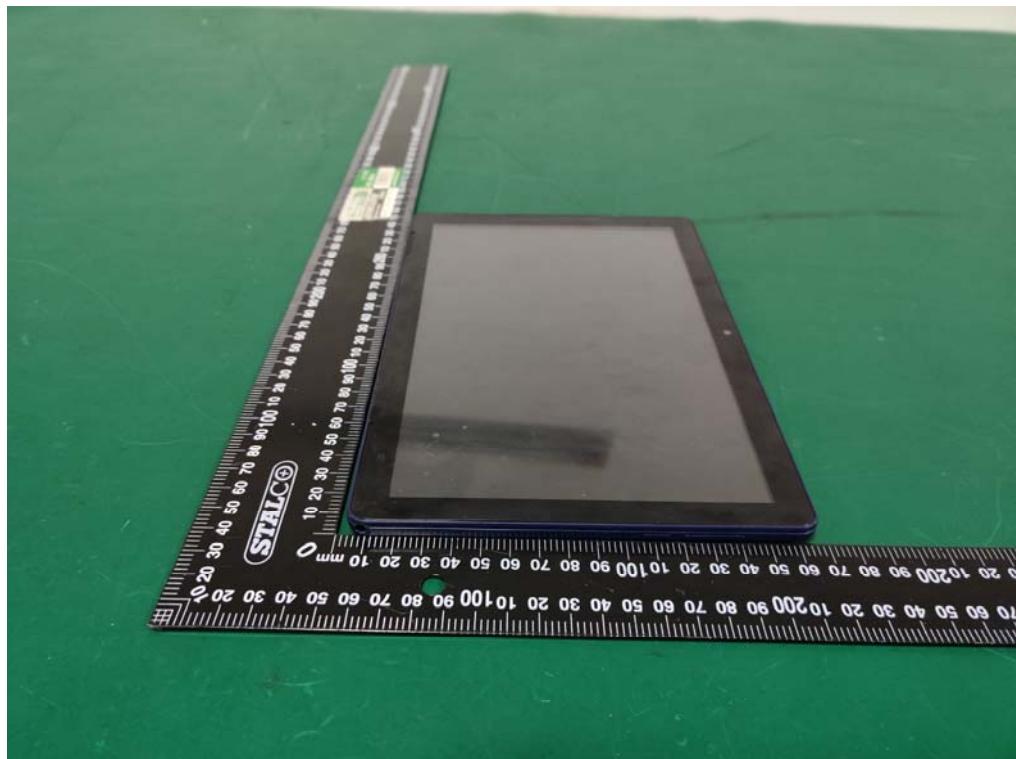
**External Photos**

M/N: 100011886

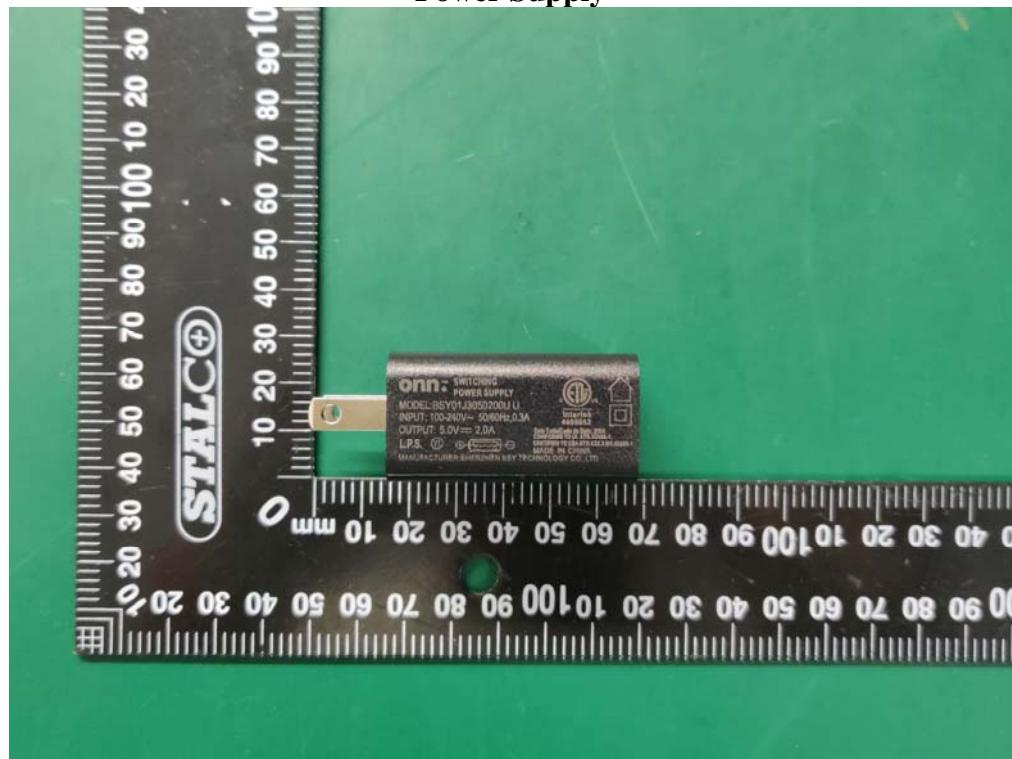


**External Photos**

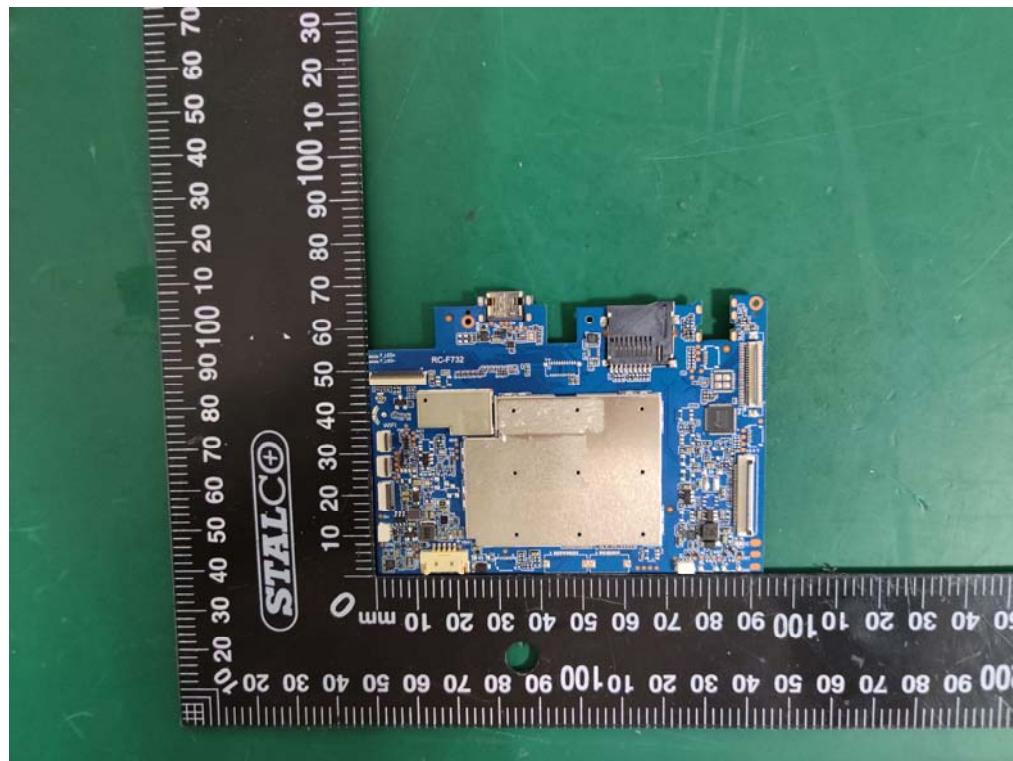
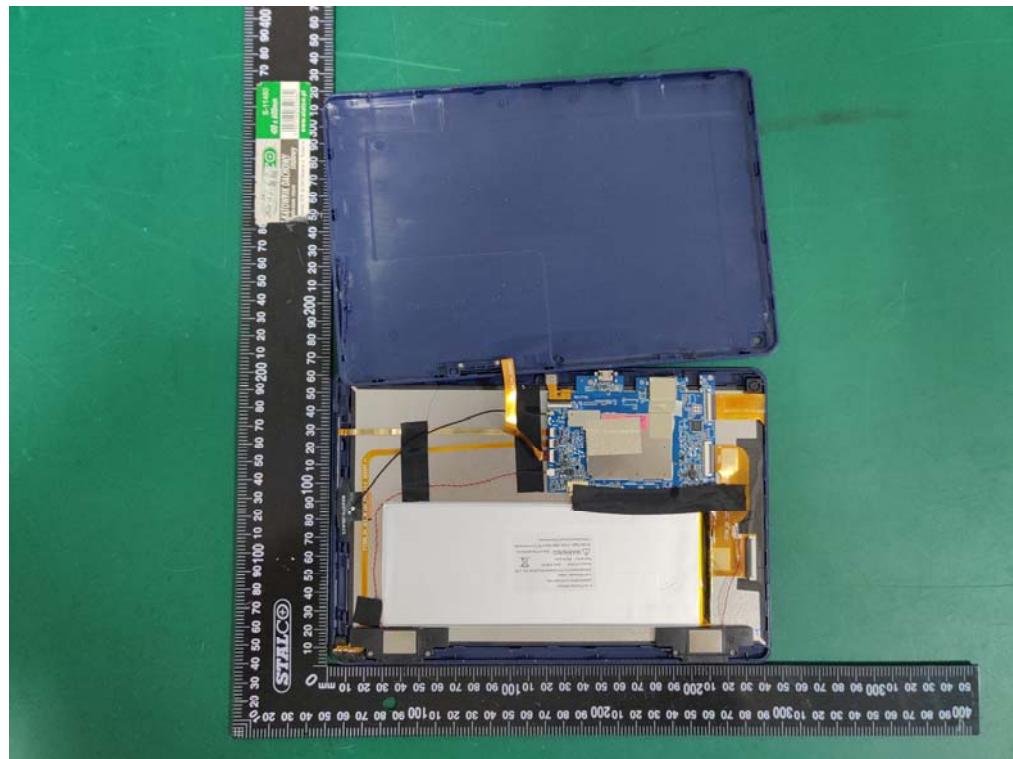
M/N: 100011886



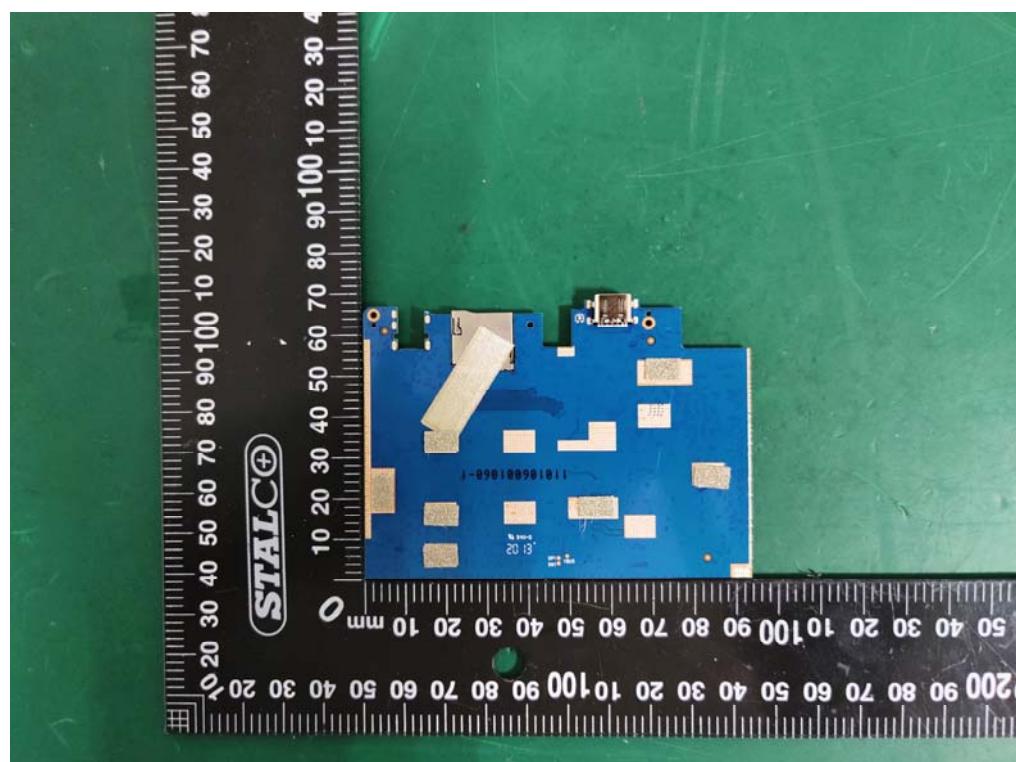
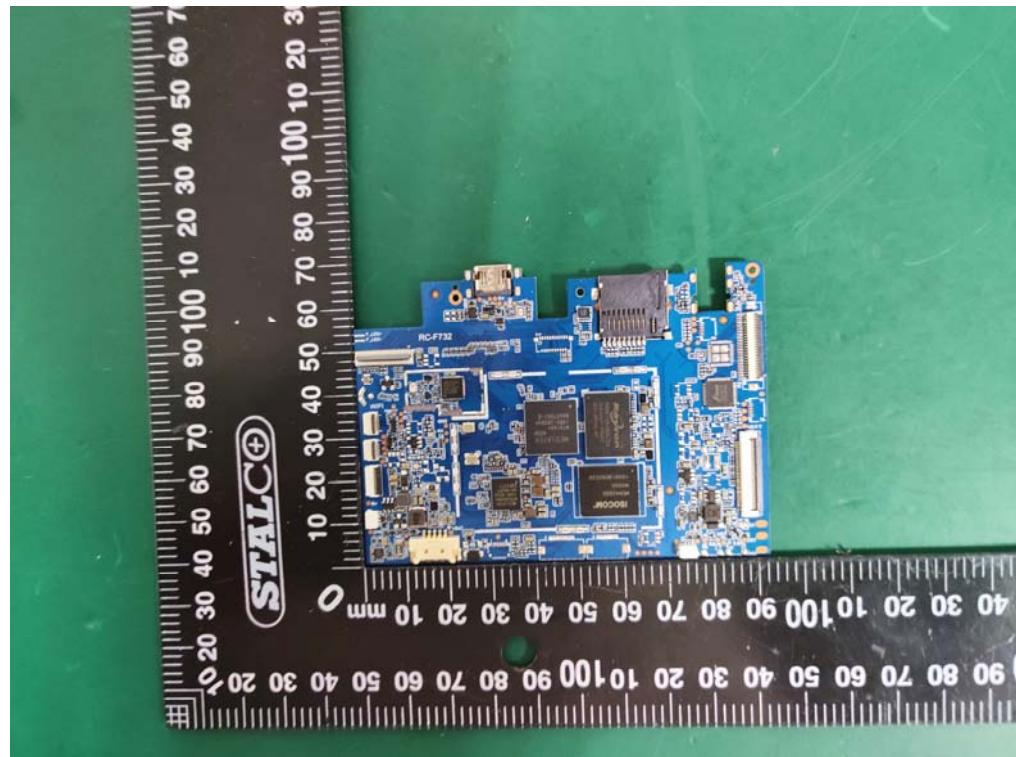
**Power Supply**



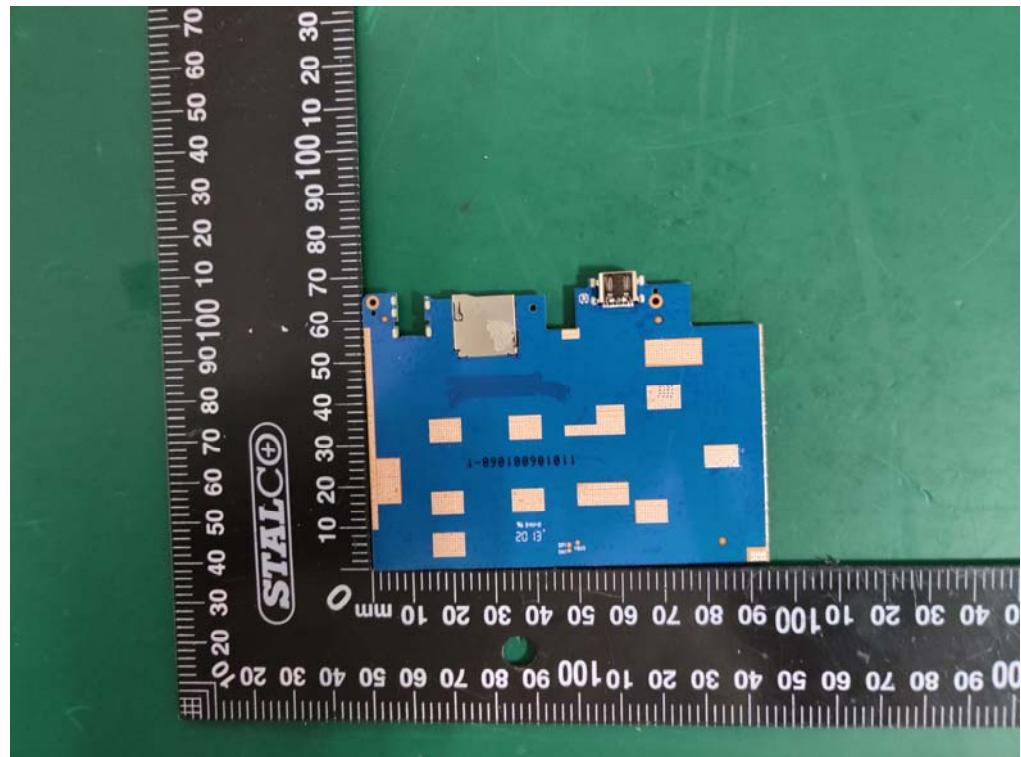
**Internal Photos**  
M/N: 100011886



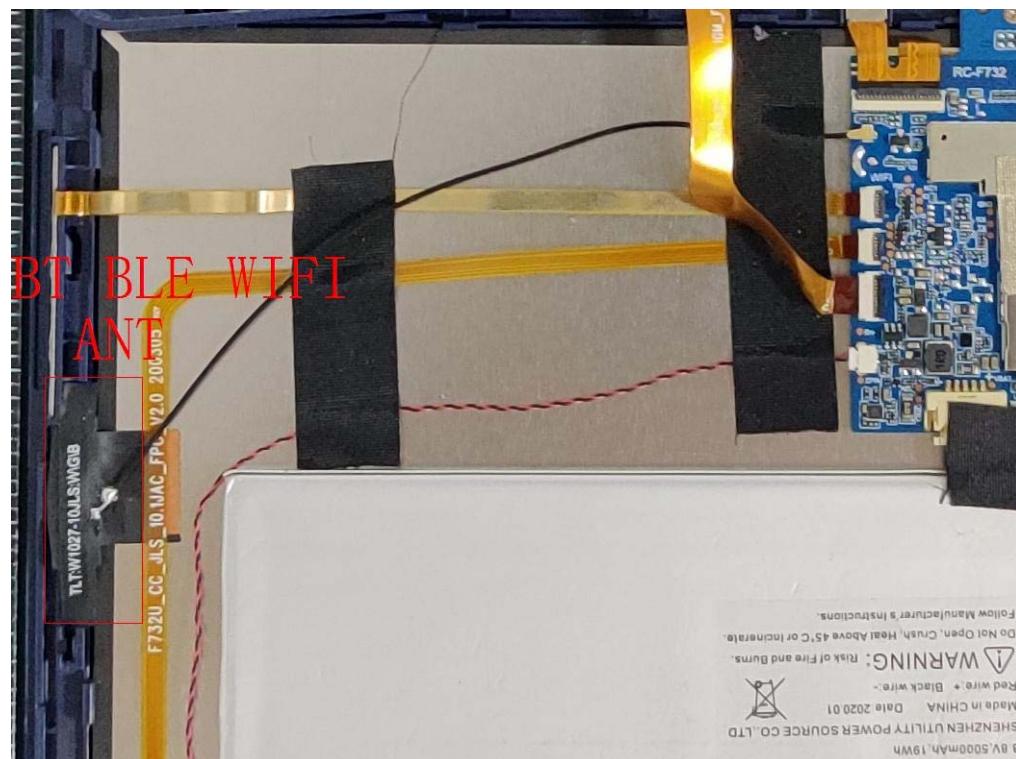
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M/N: 100011886



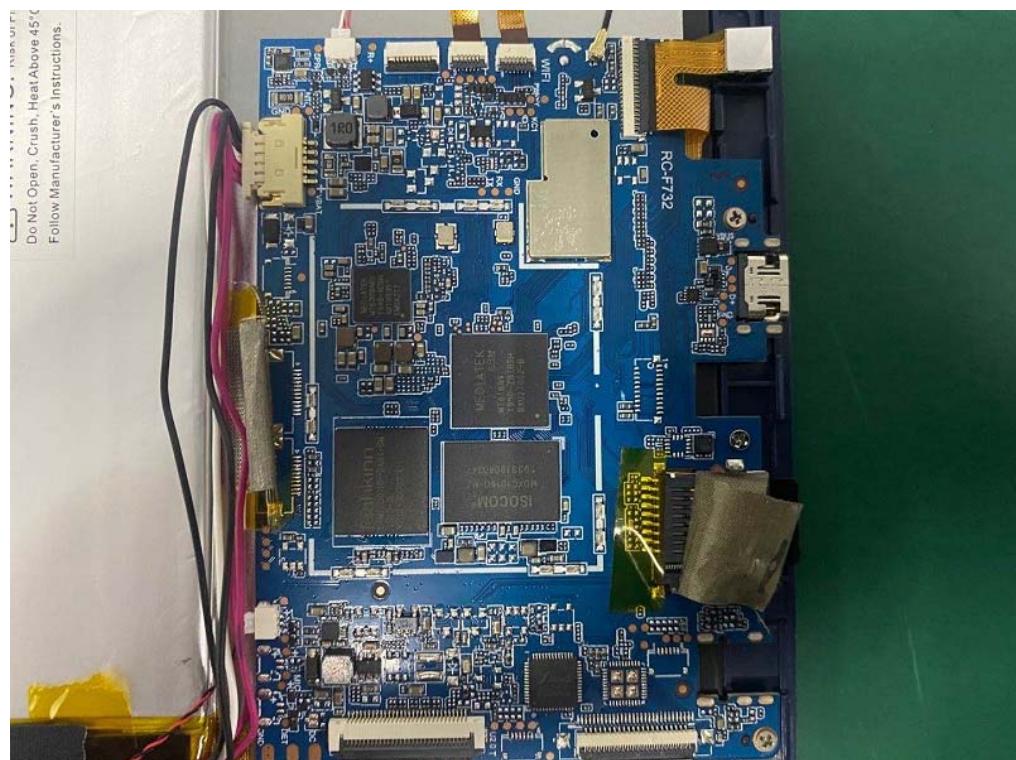
**Internal Photos**  
M/N: 100011886



**Internal Photos**  
M/N: 100011886



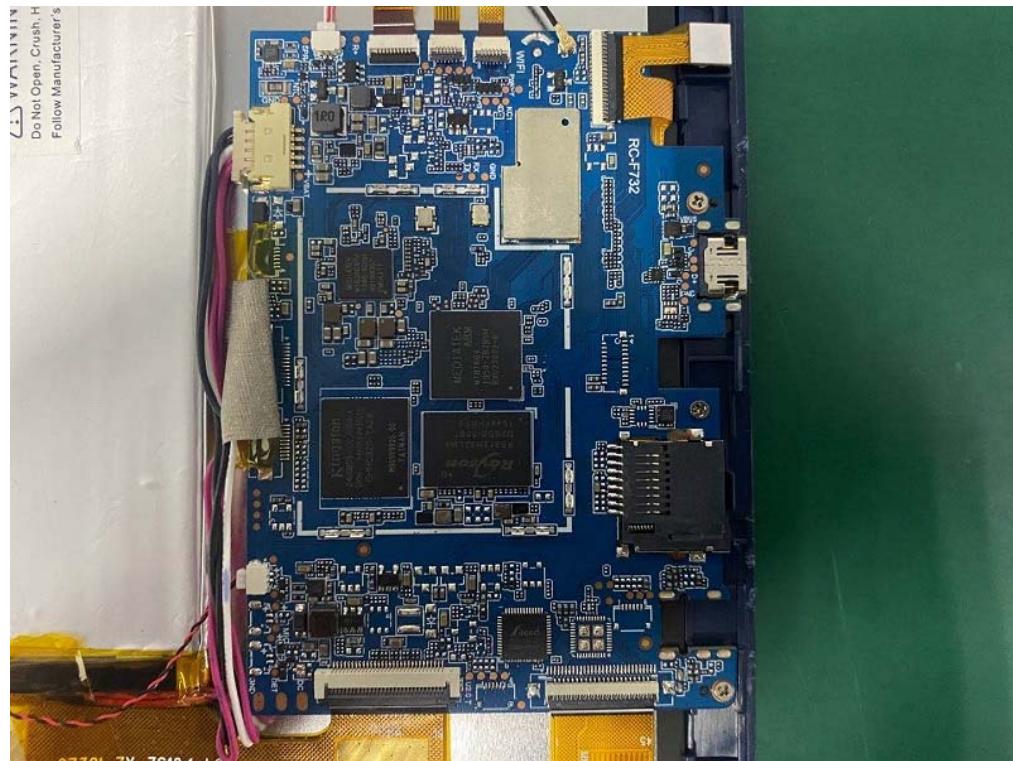
**Internal Photos**  
M/N: 100011886



Mainboard Model No.: MDXC1016G-M2 2GB & LTMZ0007HF-DAB1-SM

### Internal Photos

M/N: 100011886



Mainboard Model No.: RS512M32LM4D2BDS-53BT 2GB & EMMC32G-TA28 32GB

**End of Test Report**