
FCC Test Report

Report No.: AGC00119150104FE03

FCC ID : BRCPC1021
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : tablet pc
BRAND NAME : Kinwei, Titan
MODEL NAME : PC1021ME
CLIENT : Kintech Co., Ltd.
DATE OF ISSUE : 24 Mar. 2015
STANDARD(S) : FCC Part 15 Rules
TEST PROCEDURE(S) : DA 00-705
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	24 Mar. 2015	Valid	Original Report

TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	5
2. GENERAL INFORMATION	6
2.1. PRODUCT DESCRIPTION	6
2.2. TABLE OF CARRIER FREQUENCIES	6
2.3. RECEIVER INPUT BANDWIDTH.....	7
2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE	7
2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR.....	7
2.6. RELATED SUBMITTAL(S) / GRANT (S)	8
2.7. TEST METHODOLOGY.....	8
2.8. SPECIAL ACCESSORIES	8
2.9. EQUIPMENT MODIFICATIONS.....	8
3. MEASUREMENT UNCERTAINTY.....	9
4. DESCRIPTION OF TEST MODES.....	9
5. SYSTEM TEST CONFIGURATION	10
5.1. CONFIGURATION OF EUT SYSTEM.....	10
5.2. EQUIPMENT USED IN EUT SYSTEM.....	10
5.3. SUMMARY OF TEST RESULTS.....	10
6. TEST FACILITY	11
7. PEAK OUTPUT POWER	12
7.1. MEASUREMENT PROCEDURE.....	12
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	12
7.3. LIMITS AND MEASUREMENT RESULT	13
8. 20DB BANDWIDTH.....	17
8.1. MEASUREMENT PROCEDURE.....	17
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	17
8.3. LIMITS AND MEASUREMENT RESULTS.....	17
9. CONDUCTED SPURIOUS EMISSION	18
9.1. MEASUREMENT PROCEDURE.....	21
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	21
9.3. MEASUREMENT EQUIPMENT USED.....	21
9.4. LIMITS AND MEASUREMENT RESULT	21
10. RADIATED EMISSION	40
10.1. MEASUREMENT PROCEDURE.....	40
10.2. TEST SETUP	42

10.3. TEST RESULT 43

11. BAND EDGE EMISSION 45

11.1. MEASUREMENT PROCEDURE 46

11.2. TEST SET-UP 46

11.3. Radiated TEST RESULT 47

11.4 Conducted TEST RESULT 49

12. NUMBER OF HOPPING FREQUENCY..... 53

12.1. MEASUREMENT PROCEDURE..... 53

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION) 53

12.3. MEASUREMENT EQUIPMENT USED..... 53

12.4. LIMITS AND MEASUREMENT RESULT 53

13. TIME OF OCCUPANCY (DWELL TIME) 54

13.1. MEASUREMENT PROCEDURE..... 54

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION) 54

13.3. MEASUREMENT EQUIPMENT USED..... 54

13.4. LIMITS AND MEASUREMENT RESULT 54

14. FREQUENCY SEPARATION 56

14.1. MEASUREMENT PROCEDURE..... 56

14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION) 56

14.3. MEASUREMENT EQUIPMENT USED..... 56

14.4. LIMITS AND MEASUREMENT RESULT 56

15. FCC LINE CONDUCTED EMISSION TEST 57

15.1. LIMITS OF LINE CONDUCTED EMISSION TEST 57

15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST 57

15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST 58

15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST 58

15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST 59

APPENDIX A: PHOTOGRAPHS OF TEST SETUP 61

APPENDIX B: PHOTOGRAPHS OF EUT 63

1. VERIFICATION OF CONFORMITY

Applicant	Kintech Co., Ltd.
Address	1F-5F, Bldg 22, Chen Tian Industrial Zone, Xi Xiang, Bao An District, Shenzhen, Guang Dong, China
Manufacturer	Kintech Co., Ltd.
Address	1F-5F, Bldg 22, Chen Tian Industrial Zone, Xi Xiang, Bao An District, Shenzhen, Guang Dong, China
Product Designation	tablet pc
Brand Name	Kinwei, Titan
Test Model	PC1021ME, PC1021Y, PCXXXX(XXXX represents 0000~9999), PCXXXXME(XXXX represents 0000~9999), PCXXXXY(XXXX represents 0000~9999; Y represents A~Z), KW-PC1021I, KW-PC1021, KW-PC1021J, KW-PCXXXXI(XXXX represents 0000~9999), KW-PCXXXX(XXXX represents 0000~9999), KW-PCXXXXJ(XXXX represents 0000~9999)
Difference description	All the same except for the model name.
Date of test	17 Mar. 2015 ~ 23 Mar. 2015
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Shenzhen STS Test Services Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Prepared By

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24 Mar. 2015

Checked By

Kidd Yang

Kidd Yang

24 Mar. 2015

Authorized By

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Solger Zhang

24 Mar. 2015

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is “tablet pc” designed as a “Communication Device”. It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	4.34dBm(Max)
Bluetooth Version	V 3.0
Modulation	GFSK, $\pi/4$ -DQPSK, 8DPSK
Number of channels	79
Hardware Version	P102A-MB-V1.0.0
Software Version	P102_VJC031_20150124
Antenna Designation	Integrated Antenna
Antenna Gain	0dBi
Power Supply	DC3.7V by Battery

2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2403MHZ
	:	:
	38	2440 MHZ
	39	2441 MHZ
	40	2442 MHZ
	:	:
	77	2479 MHZ
	78	2480 MHZ

2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHz. In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection (e.g. single or multislotted packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be sent on the same frequency, it is sent on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCE IN DATA MODE

Example of a 79 hopping sequence in data mode:

40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67
56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59
72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75
09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06
01, 51, 03, 55, 05, 04

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

1. LAP/UAP of the master of the connection.
2. Internal master clock

The LAP (lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP (upper address part) are the 24 MSB's of the 48 BD_ADDRESS.

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For synchronization with other units only offset are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5µs. The clock has a cycle of about one day (23h30). In most cases it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire LAP (24 bits), 4 LSB's (4 bits) (Input 1) and the 27 MSB's of the clock (Input 2) are used. With these input values different mathematical procedures (permutations, additions, XOR-operations) are performed to generate the Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behavior:

The first connection between the two devices is established, a hopping sequence was generated. For transmitting the wanted data the complete hopping sequence was not used. The connection ended.

The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmissions is longer (and it cannot be shorter) than the minimum resolution of the clock (312.5µs). The hopping sequence will always differ from the first one.

2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: BRCPC1021** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in FCC DA 00-705. Radiated testing was performed at an antenna to EUT distance 3 meters.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 2.75dB

Radiated measurement: +/- 3.2dB

4. DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78
Mode 4	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78
Mode 4	Link Mode

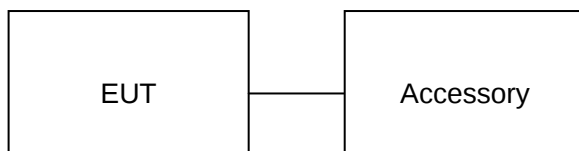
Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configuration:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	tablet pc	PC1021ME	BRCPC1021	EUT
2	Battery	N/A	N/A	Accessory
3	Laptop	Dell	INSPIRON	A.E
4	USB Cable	N/A	N/A	Accessory

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Peak Output Power	Compliant
§15.247	20 dB Bandwidth	Compliant
§15.247	Spurious Emission	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.247	Number of Hopping Frequency	Compliant
§15.247	Time of Occupancy	Compliant
§15.247	Frequency Separation	Compliant

6. TEST FACILITY

Site	Shenzhen STS Test Services Co., Ltd.
Location	1/F, Building 2, Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District, Shenzhen, China.
Description	FCC Registration No.: 842334; IC Registration No.: 12108A-1

ALL TEST EQUIPMENT LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Spectrum Analyzer	Agilent	E4407B	MY50140340	2014.10.25	2015.10.24
Test Receiver	R&S	ESCI	101427	2014.10.25	2015.10.24
Bilog Antenna	TESEQ	CBL6111D	34678	2014.10.27	2015.10.26
50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2014.06.06	2015.06.05
Horn Antenna	R&S	9120D	152265	2014.10.27	2015.10.26
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05
Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21
Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07
Power Meter	Anritsu	ML2495A	1204003	2014.10.25	2015.10.24
Power Sensor	Anritsu	MA2411B	100309	2014.10.25	2015.10.24
Low frequency cable	MURATA	R-03	130627	2014.10.25	2015.10.24
High frequency cable	HARBOUR	R-02	FL0000175	2014.10.25	2015.10.24

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	102086	102086	2014.10.25	2015.10.24
LISN	R&S	ENV216	101242	2014.10.25	2015.10.24
LISN	EMCO	3810/2NM	000-23625	2014.10.25	2015.10.24
50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2014.06.06	2015.06.05
Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.06	2015.06.05
Absorbing clamp	R&S	MDS-21	100668	2014.10.27	2015.10.26
Conduction Cable	EM	C01	N/A	2014.10.25	2015.10.24

7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

For peak power test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
3. RBW > the 20 dB bandwidth of the emission being measured, VBW $\geq$ RBW.
4. Record the maximum power from the Spectrum Analyzer.

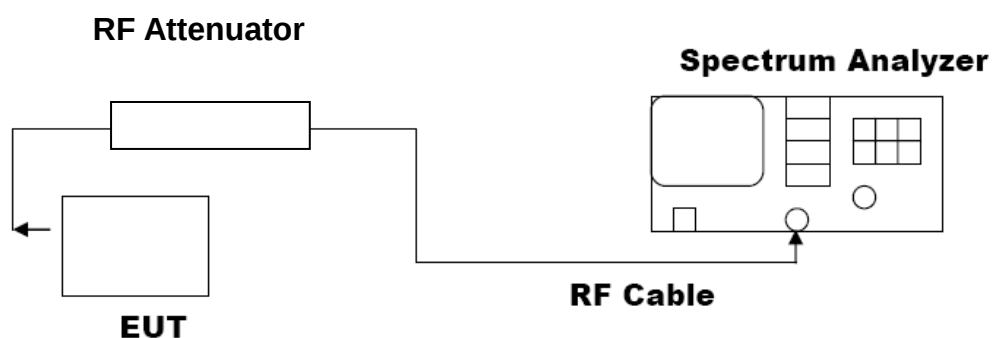
For average power test:

1. Connect EUT RF output port to power probe through an RF attenuator.
2. Connect the power probe to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.
5. The maximum peak power shall be less 125mW (21dBm).

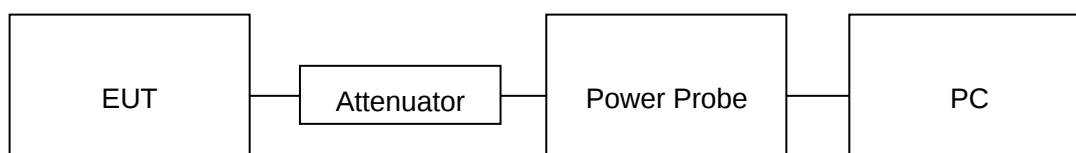
Note : The EUT was tested according to DA000705 for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP



AVERAGE POWER SETUP



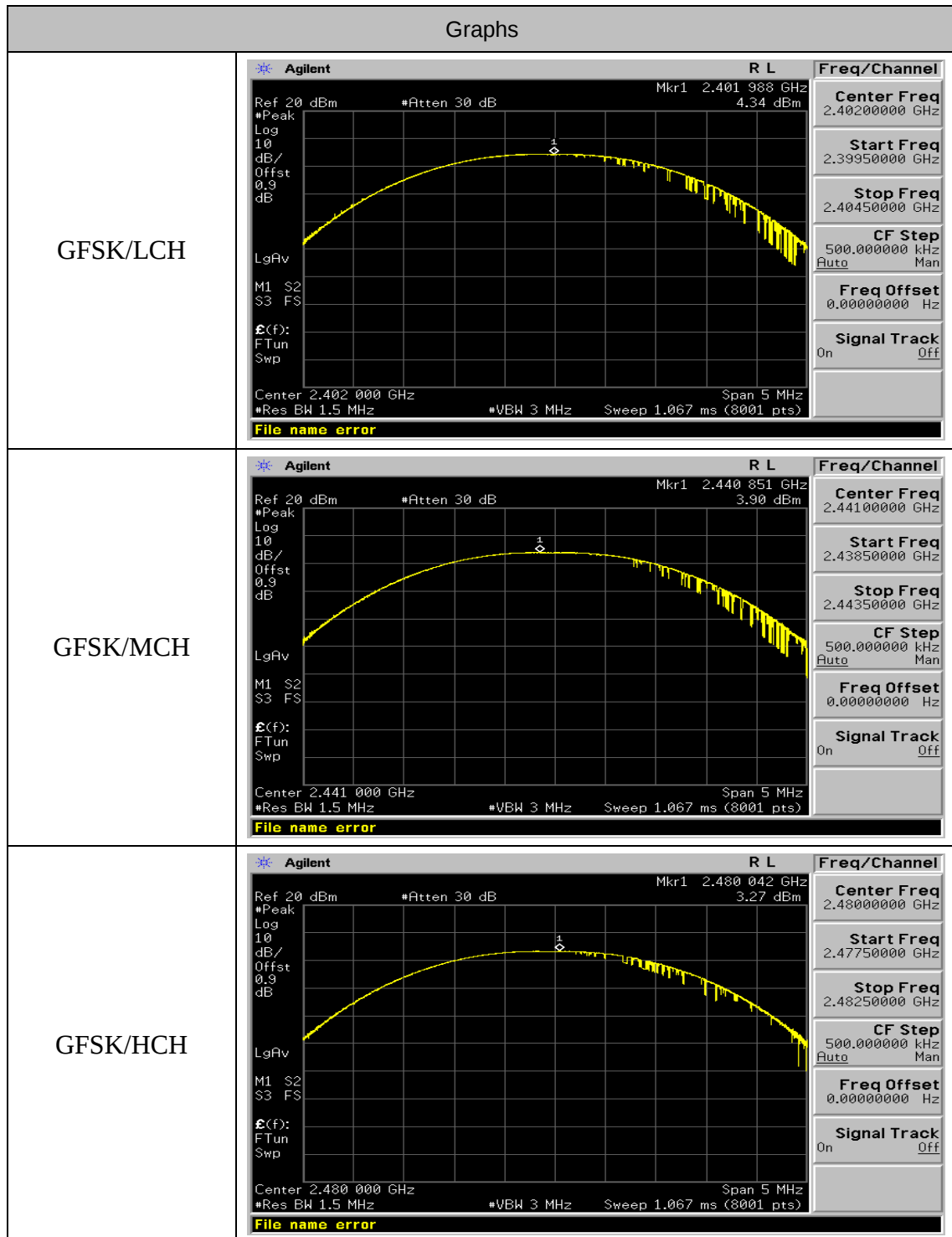
7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MODULATION				
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	2.33	4.34	21	Pass
2.441	1.89	3.9	21	Pass
2.480	1.26	3.27	21	Pass

PEAK OUTPUT POWER MEASUREMENT RESULT FOR II /4-DQPSK MODULATION				
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	1.73	3.74	21	Pass
2.441	1.34	3.35	21	Pass
2.480	0.58	2.59	21	Pass

PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION				
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	1.74	3.75	21	Pass
2.441	1.33	3.34	21	Pass
2.480	0.6	2.61	21	Pass

Test Graph



π /4DQPSK/LCH	Agilent R T Ref 20 dBm *Atten 30 dB Mkr1 2.401 996 GHz 3.74 dBm Peak Log 10 dB/ Offst 0.9 dB LgAv M1 S2 S3 FS $\mathcal{E}(f)$: FTun Swp Center 2.402 000 GHz Span 5 MHz #Res BW 1.5 MHz #VBW 3 MHz Sweep 1.067 ms (8001 pts) File name error Freq/Channel Center Freq 2.40200000 GHz Start Freq 2.39950000 GHz Stop Freq 2.40450000 GHz CF Step 500.000000 kHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
π /4DQPSK/MCH	Agilent R L Ref 20 dBm *Atten 30 dB Mkr1 2.440 956 GHz 3.35 dBm Peak Log 10 dB/ Offst 0.9 dB LgAv M1 S2 S3 FS $\mathcal{E}(f)$: FTun Swp Center 2.441 000 GHz Span 5 MHz #Res BW 1.5 MHz #VBW 3 MHz Sweep 1.067 ms (8001 pts) File name error Freq/Channel Center Freq 2.44100000 GHz Start Freq 2.43850000 GHz Stop Freq 2.44350000 GHz CF Step 500.000000 kHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
π /4DQPSK/HCH	Agilent R L Ref 20 dBm *Atten 30 dB Mkr1 2.479 926 GHz 2.59 dBm Peak Log 10 dB/ Offst 0.9 dB LgAv M1 S2 S3 FS $\mathcal{E}(f)$: FTun Swp Center 2.480 000 GHz Span 5 MHz #Res BW 1.5 MHz #VBW 3 MHz Sweep 1.067 ms (8001 pts) File name error Freq/Channel Center Freq 2.48000000 GHz Start Freq 2.47750000 GHz Stop Freq 2.48250000 GHz CF Step 500.000000 kHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

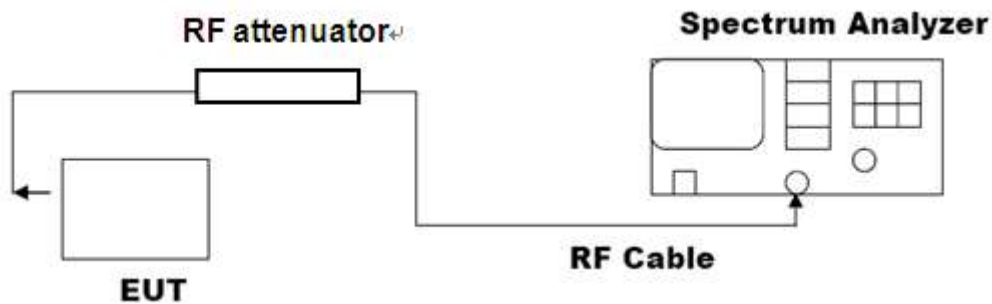
8DPSK/LCH	Agilent Ref 20 dBm *Atten 30 dB Mkr1 2.401 863 GHz 3.75 dBm Peak Log 10 dB/Offst 0.9 dB LgAv M1 S2 S3 FS $\mathcal{E}(f)$: FTun Swp Center 2.402 000 GHz Res BW 1.5 MHz Span 5 MHz VBW 3 MHz Sweep 1.067 ms (8001 pts) File name error Freq/Channel Center Freq 2.40200000 GHz Start Freq 2.39950000 GHz Stop Freq 2.40450000 GHz CF Step 500.000000 kHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
8DPSK/MCH	Agilent Ref 20 dBm *Atten 30 dB Mkr1 2.440 806 GHz 3.34 dBm Peak Log 10 dB/Offst 0.9 dB LgAv M1 S2 S3 FS $\mathcal{E}(f)$: FTun Swp Center 2.441 000 GHz Res BW 1.5 MHz Span 5 MHz VBW 3 MHz Sweep 1.067 ms (8001 pts) File name error Freq/Channel Center Freq 2.44100000 GHz Start Freq 2.43850000 GHz Stop Freq 2.44350000 GHz CF Step 500.000000 kHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
8DPSK/HCH	Agilent Ref 20 dBm *Atten 30 dB Mkr1 2.479 909 GHz 2.61 dBm Peak Log 10 dB/Offst 0.9 dB LgAv M1 S2 S3 FS $\mathcal{E}(f)$: FTun Swp Center 2.480 000 GHz Res BW 1.5 MHz Span 5 MHz VBW 3 MHz Sweep 1.067 ms (8001 pts) File name error Freq/Channel Center Freq 2.48000000 GHz Start Freq 2.47750000 GHz Stop Freq 2.48250000 GHz CF Step 500.000000 kHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
RBW $\geq$ 1% of the 20 dB bandwidth, VBW $\geq$ RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

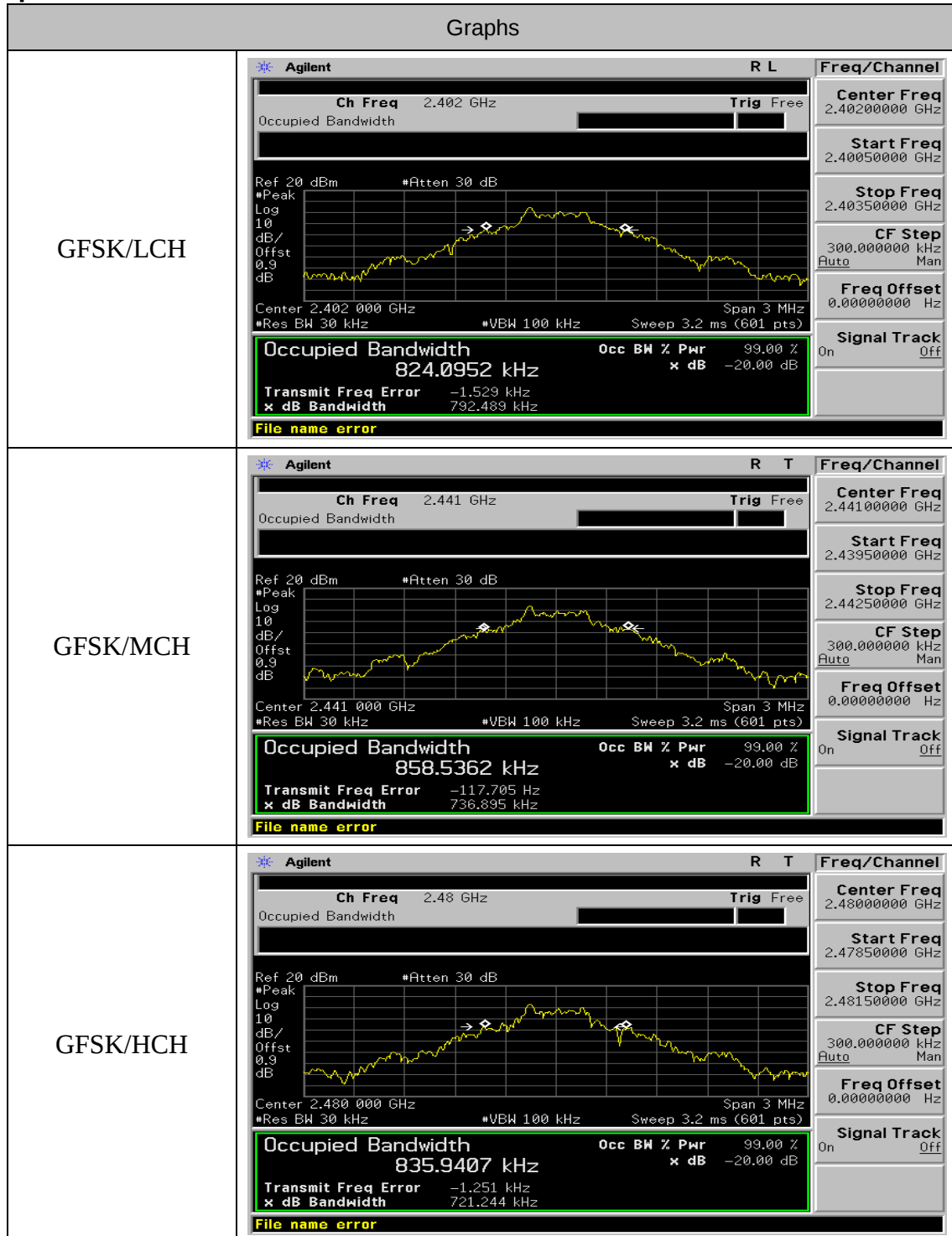
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

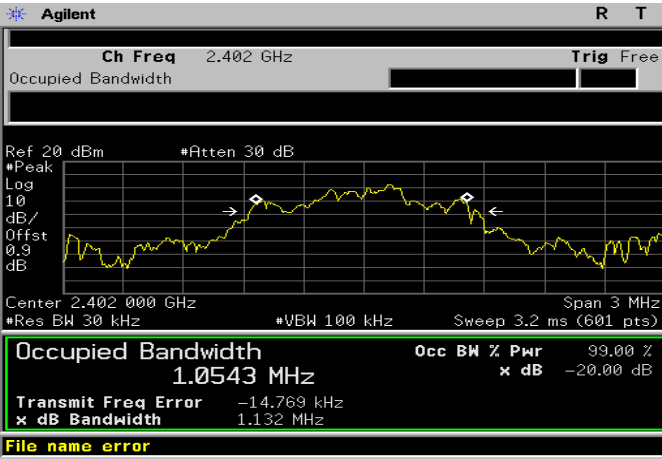
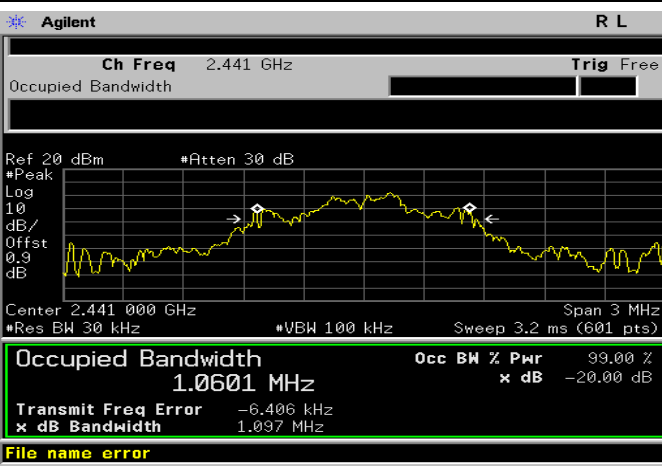
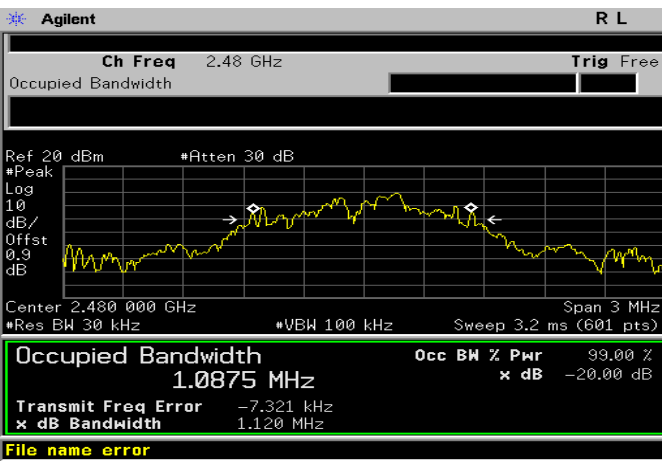


8.3. LIMITS AND MEASUREMENT RESULTS

Mode	Channel.	EBW [MHz]	OBW [MHz]	Verdict
GFSK	LCH	0.7925	0.8241	PASS
GFSK	MCH	0.7369	0.8585	PASS
GFSK	HCH	0.7212	0.8359	PASS
$\pi/4$ DQPSK	LCH	1.1316	1.0543	PASS
$\pi/4$ DQPSK	MCH	1.0973	1.0601	PASS
$\pi/4$ DQPSK	HCH	1.1202	1.0875	PASS
8DPSK	LCH	1.1700	1.1032	PASS
8DPSK	MCH	1.1582	1.0916	PASS
8DPSK	HCH	1.1316	1.1012	PASS

Test Graph



$\pi/4$ DQPSK/LCH	 Agilent R T Ch Freq 2.402 GHz Trig Free Occupied Bandwidth Ref 20 dBm #Atten 30 dB #Peak Log 10 dB/Offst 0.9 dB Center 2.402 000 GHz Span 3 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 3.2 ms (601 pts) Occupied Bandwidth 1.0543 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -14.769 kHz x dB Bandwidth 1.132 MHz File name error Freq/Channel Center Freq 2.40200000 GHz Start Freq 2.40050000 GHz Stop Freq 2.40350000 GHz CF Step 300.000000 kHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
$\pi/4$ DQPSK/MCH	 Agilent R L Ch Freq 2.441 GHz Trig Free Occupied Bandwidth Ref 20 dBm #Atten 30 dB #Peak Log 10 dB/Offst 0.9 dB Center 2.441 000 GHz Span 3 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 3.2 ms (601 pts) Occupied Bandwidth 1.0601 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -6.406 kHz x dB Bandwidth 1.097 MHz File name error Freq/Channel Center Freq 2.44100000 GHz Start Freq 2.43950000 GHz Stop Freq 2.44250000 GHz CF Step 300.000000 kHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
$\pi/4$ DQPSK/HCH	 Agilent R L Ch Freq 2.48 GHz Trig Free Occupied Bandwidth Ref 20 dBm #Atten 30 dB #Peak Log 10 dB/Offst 0.9 dB Center 2.480 000 GHz Span 3 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 3.2 ms (601 pts) Occupied Bandwidth 1.0875 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -7.321 kHz x dB Bandwidth 1.120 MHz File name error Freq/Channel Center Freq 2.48000000 GHz Start Freq 2.47850000 GHz Stop Freq 2.48150000 GHz CF Step 300.000000 kHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
RBW = 100 kHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak.
4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to DA000705 for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW $>$ RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW $>$ RBW) are conform to the requirement.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2

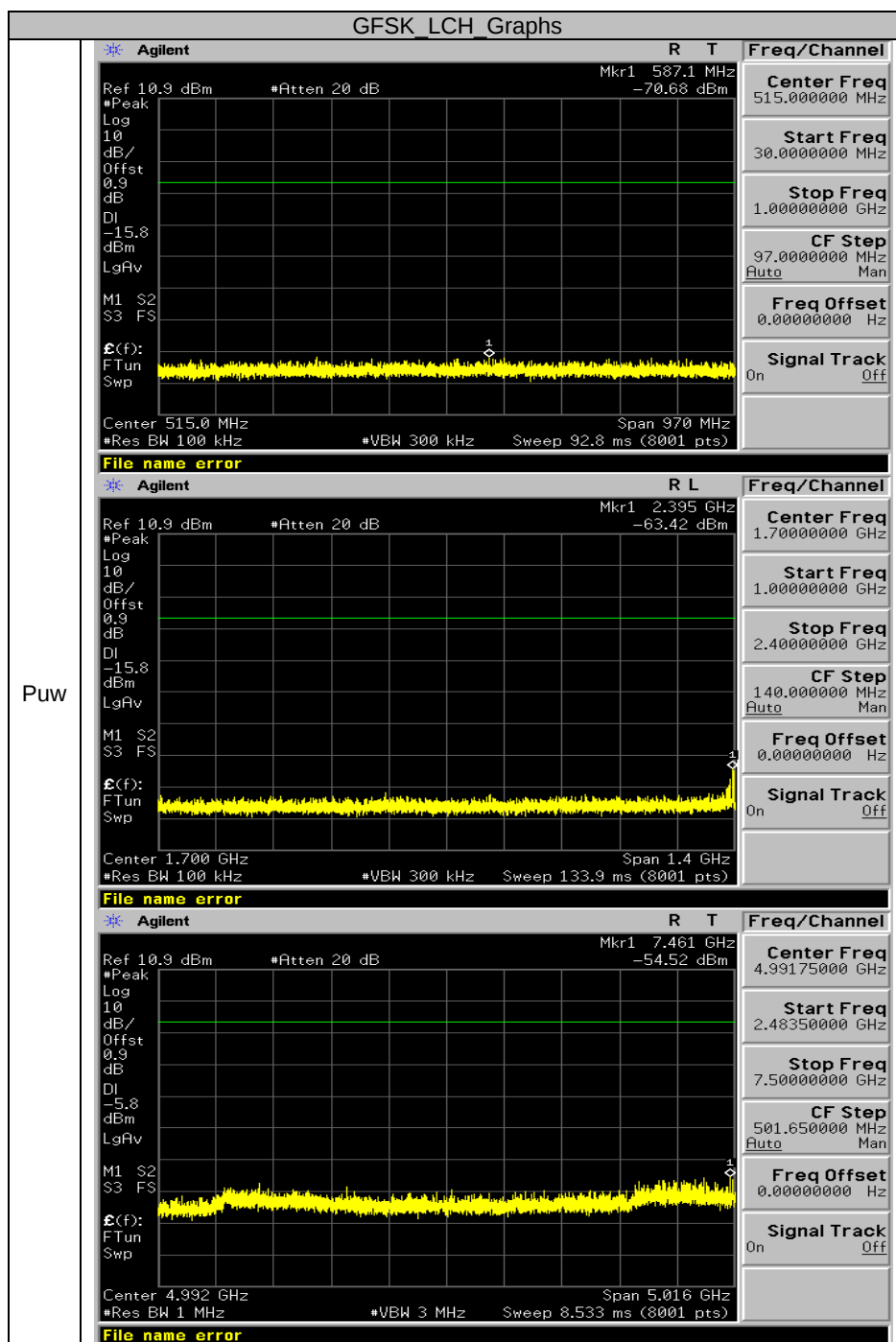
9.3. MEASUREMENT EQUIPMENT USED

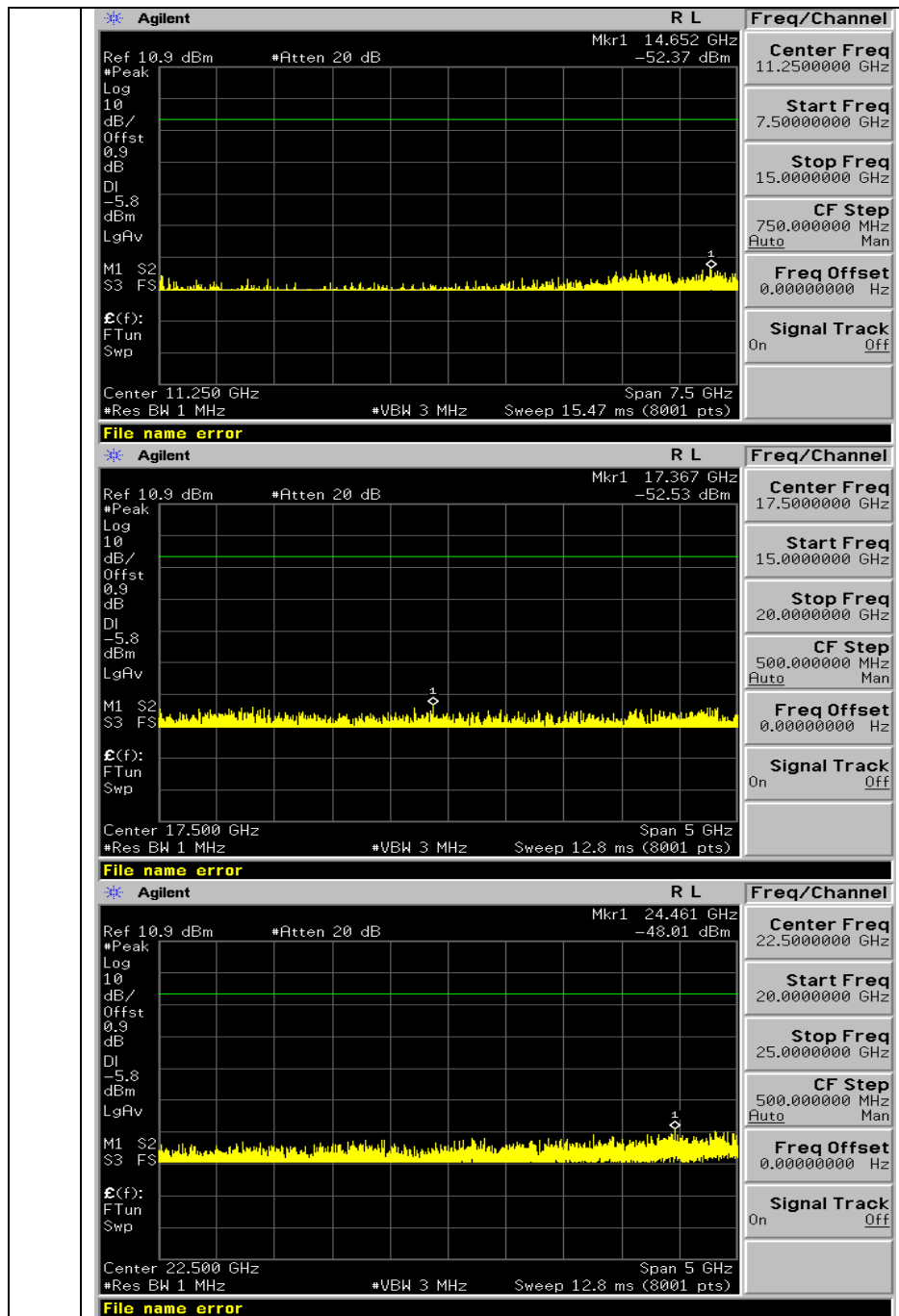
The same as described in section 6

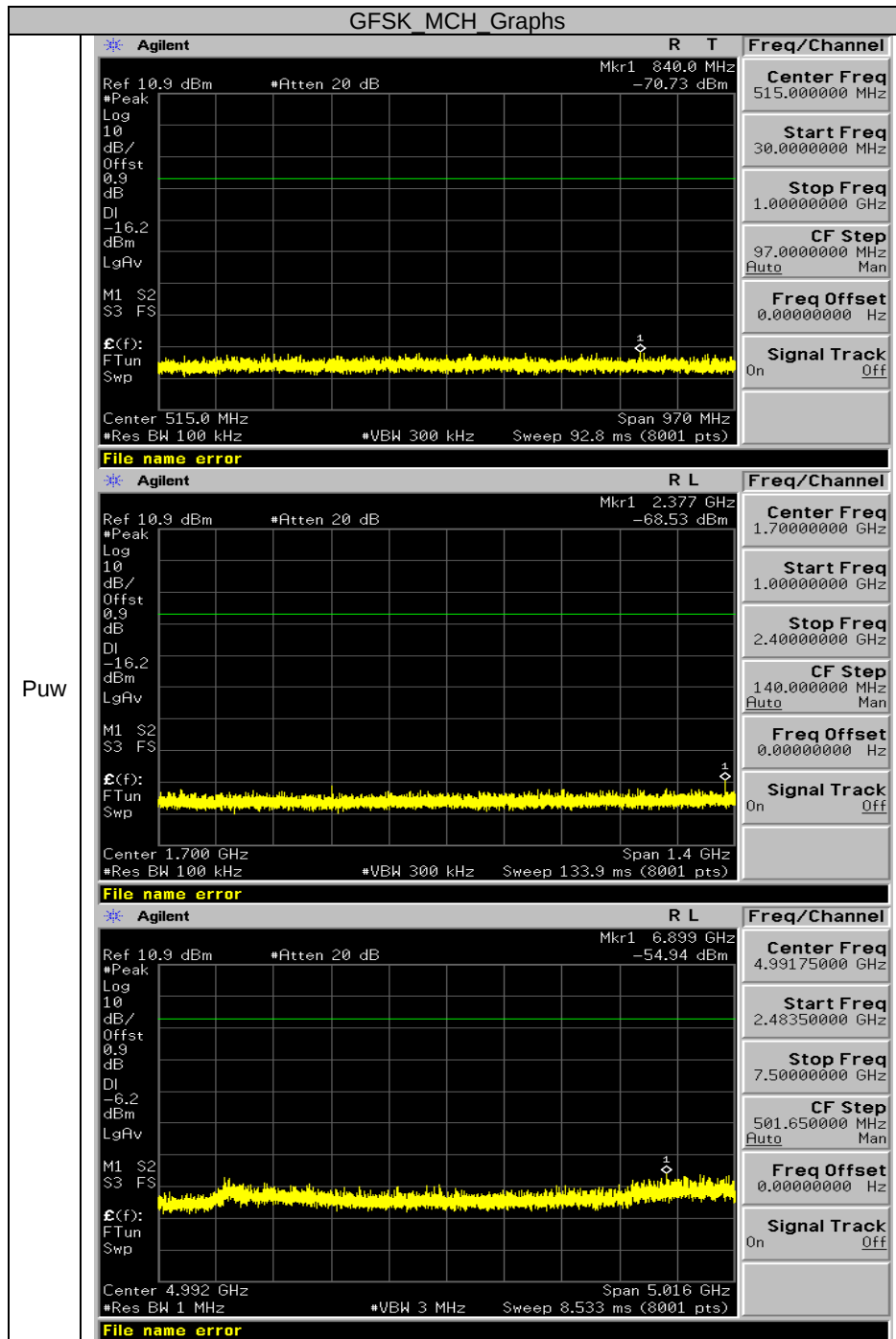
9.4. LIMITS AND MEASUREMENT RESULT

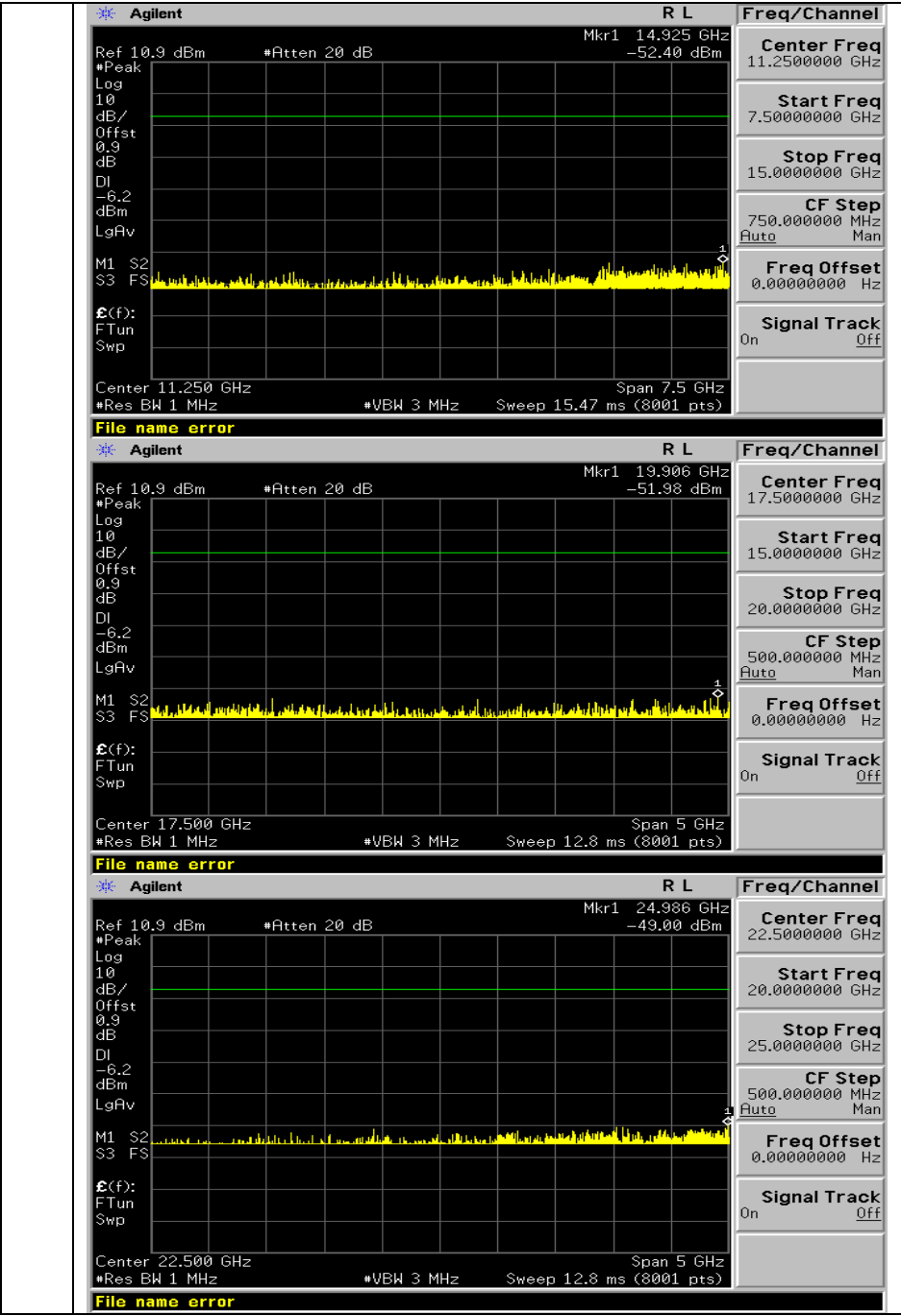
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation 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))	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
	At least -20dBc than the limit Specified on the TOP Channel	PASS

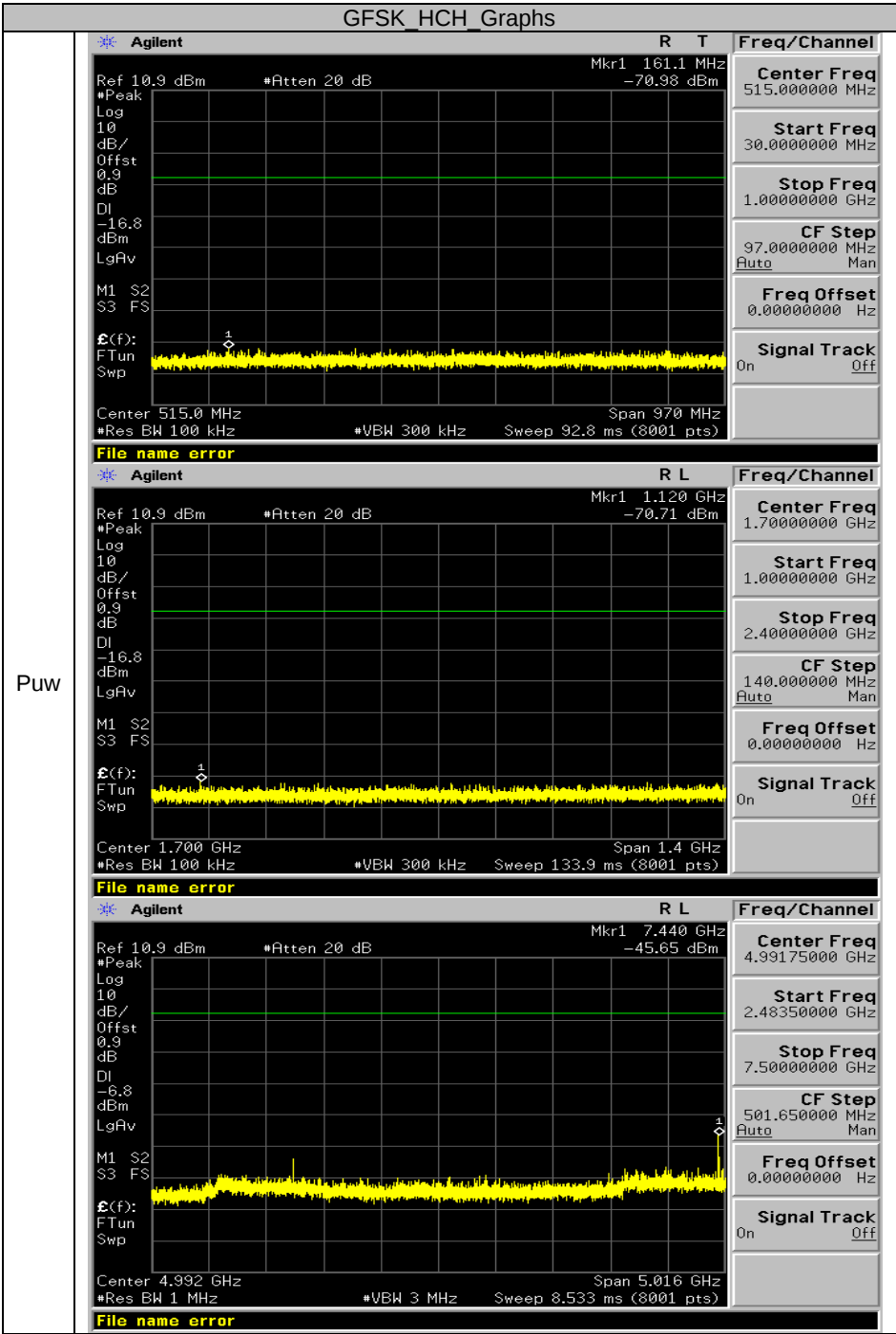
Test Graph



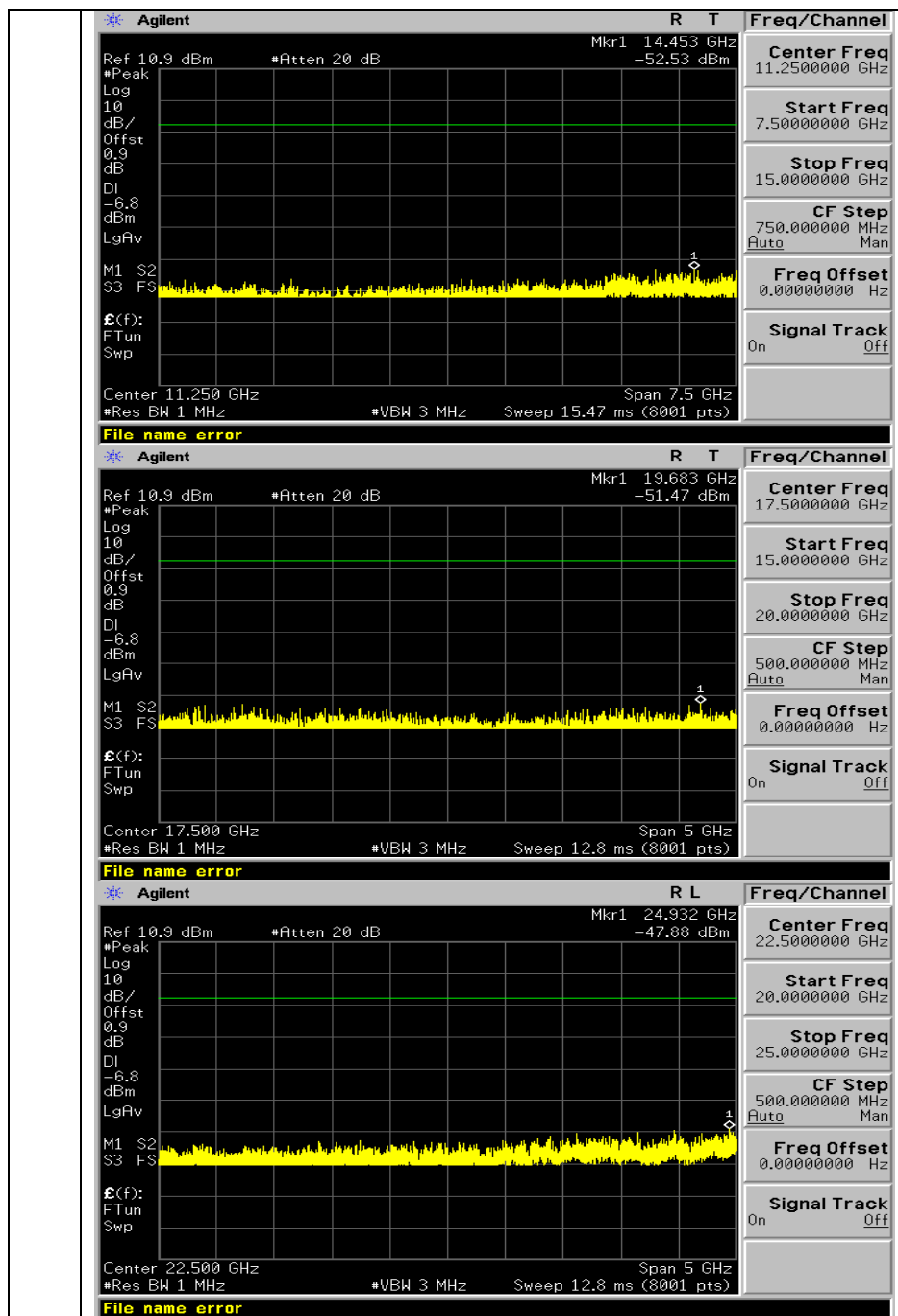


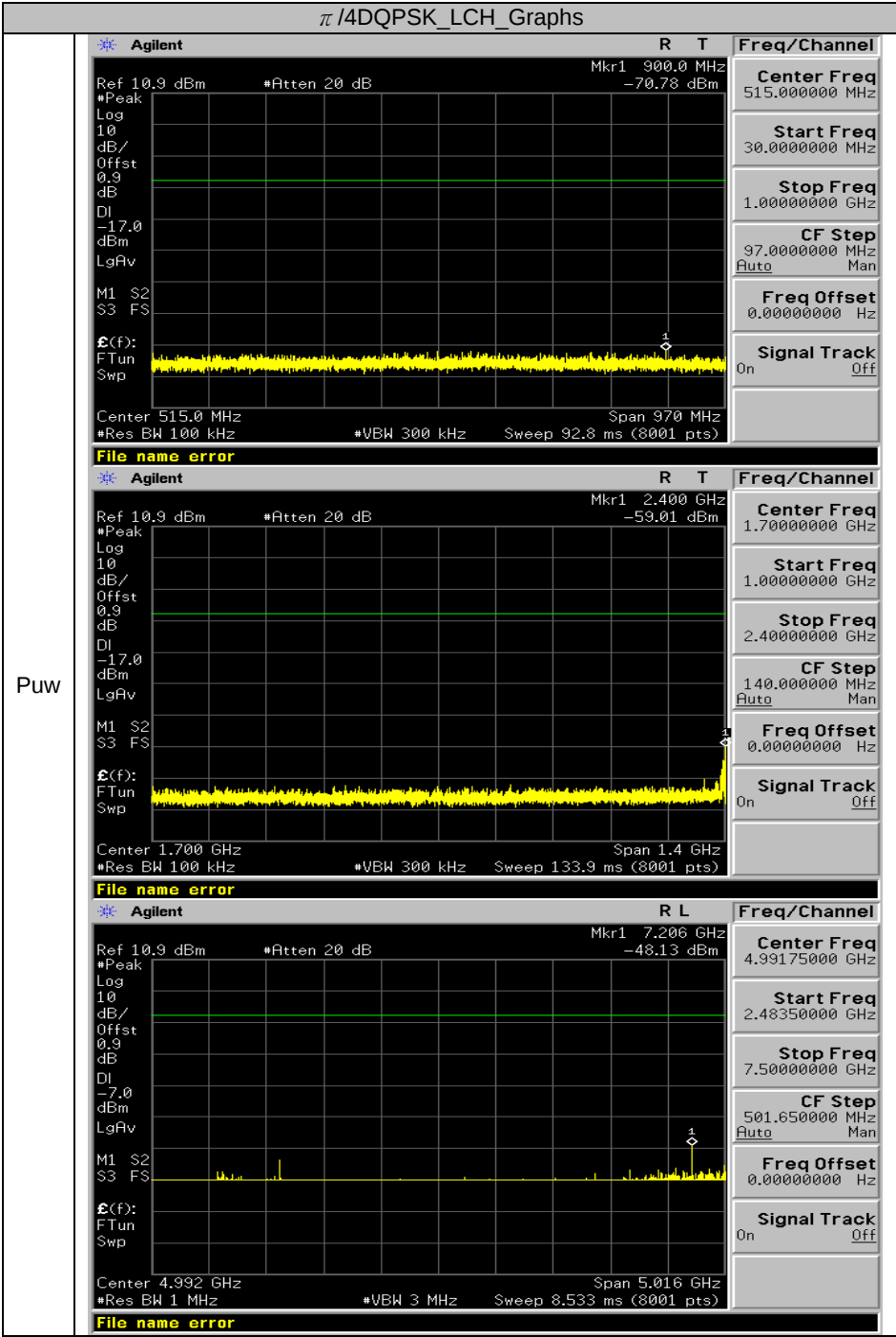




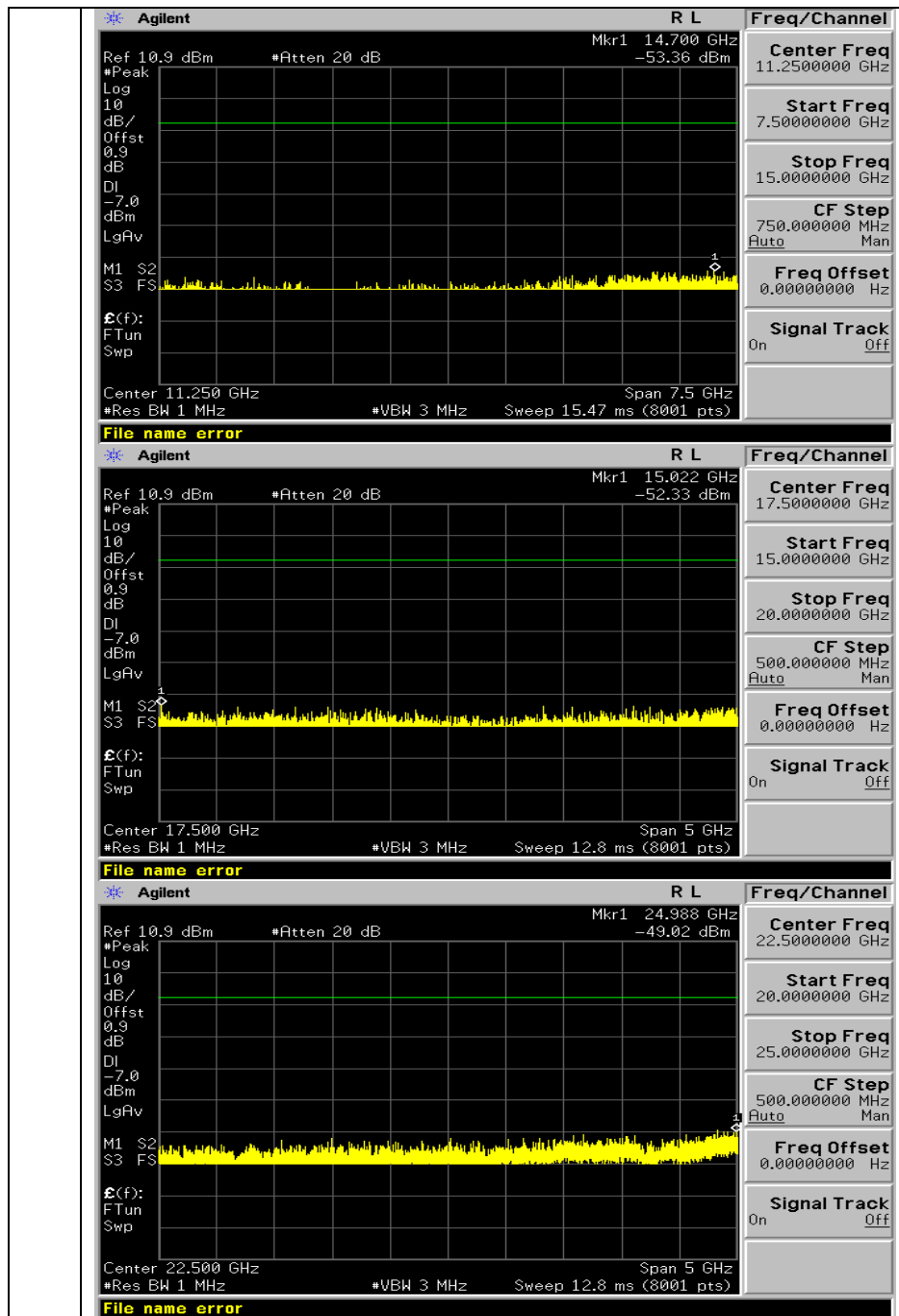


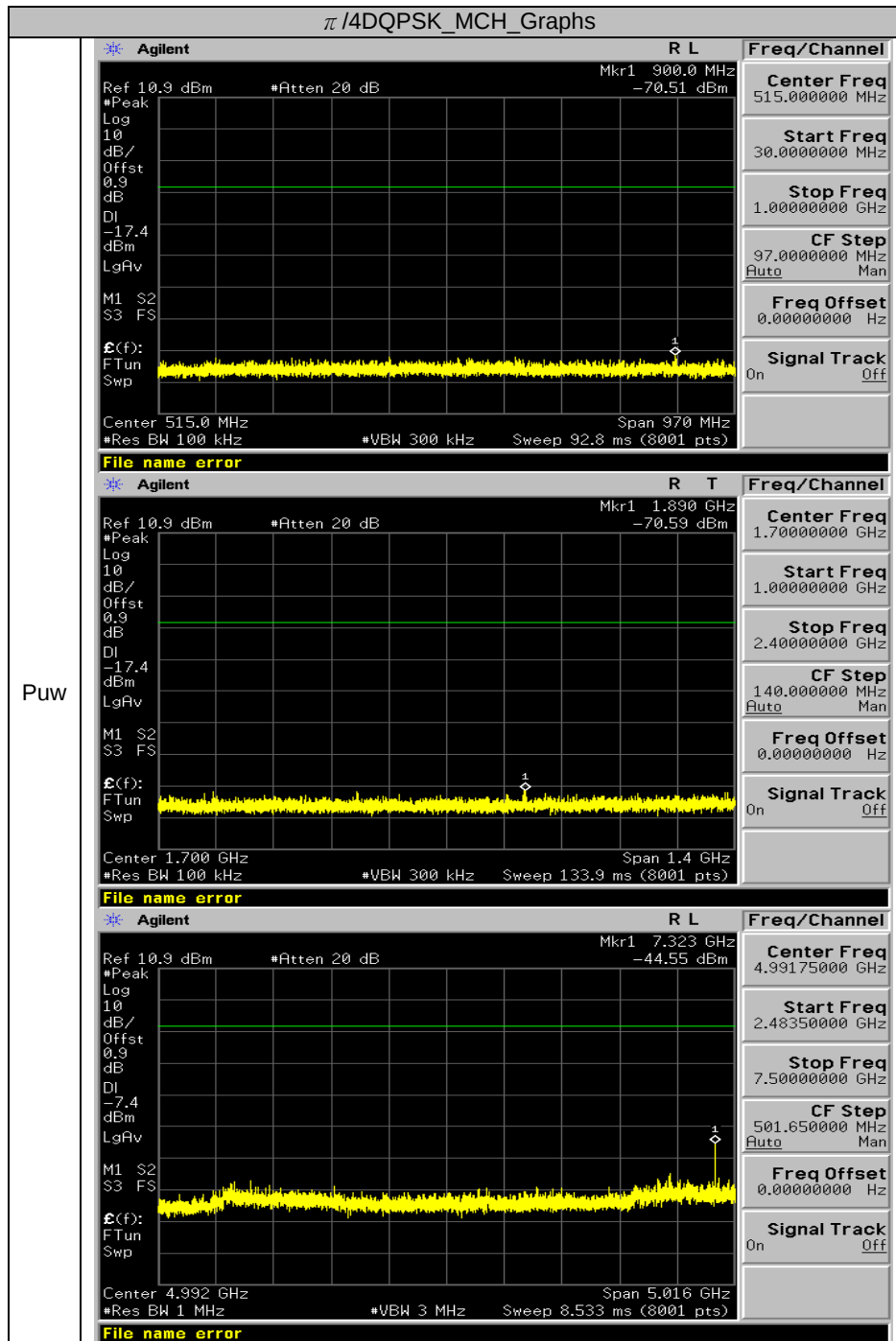
PUW

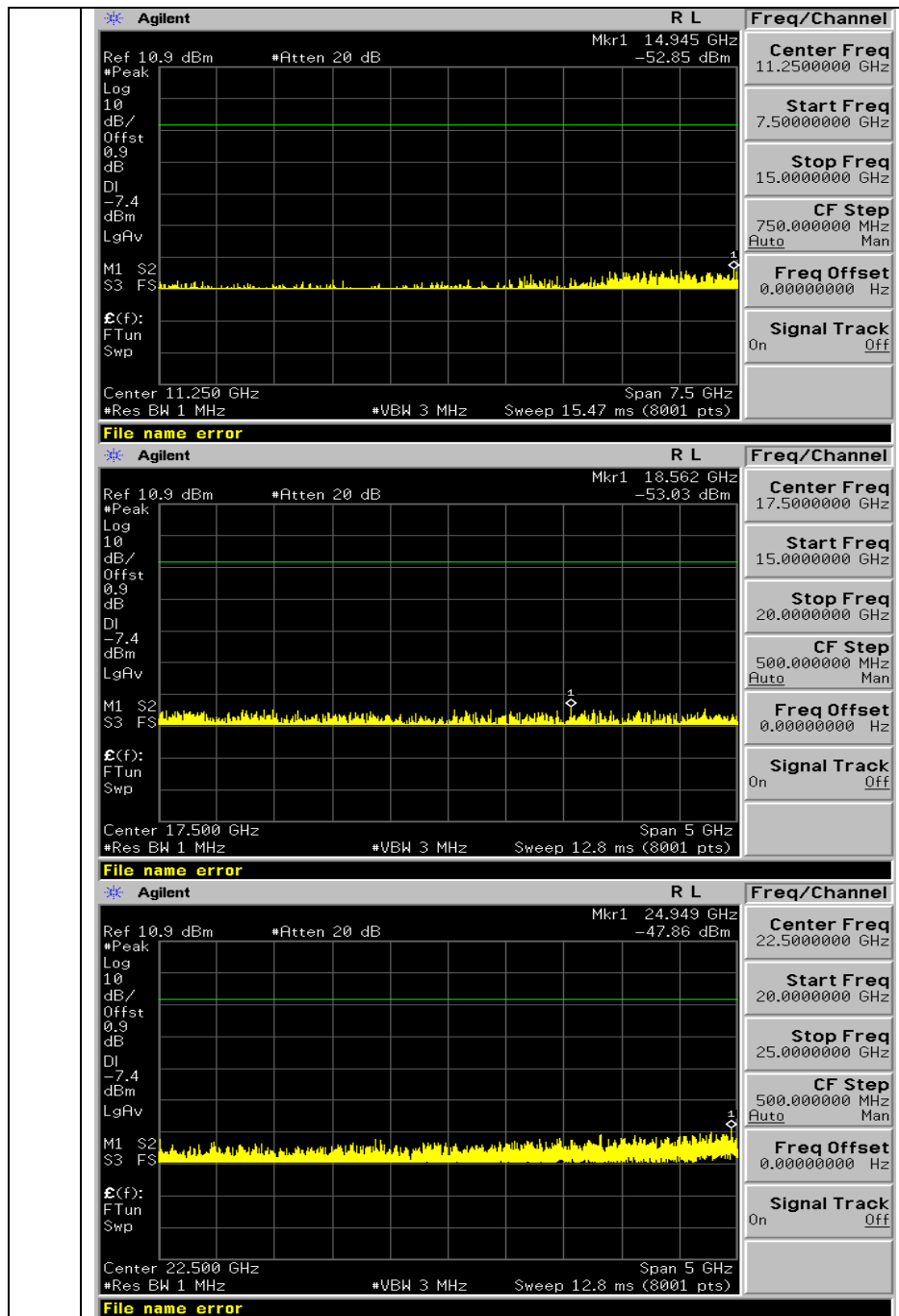


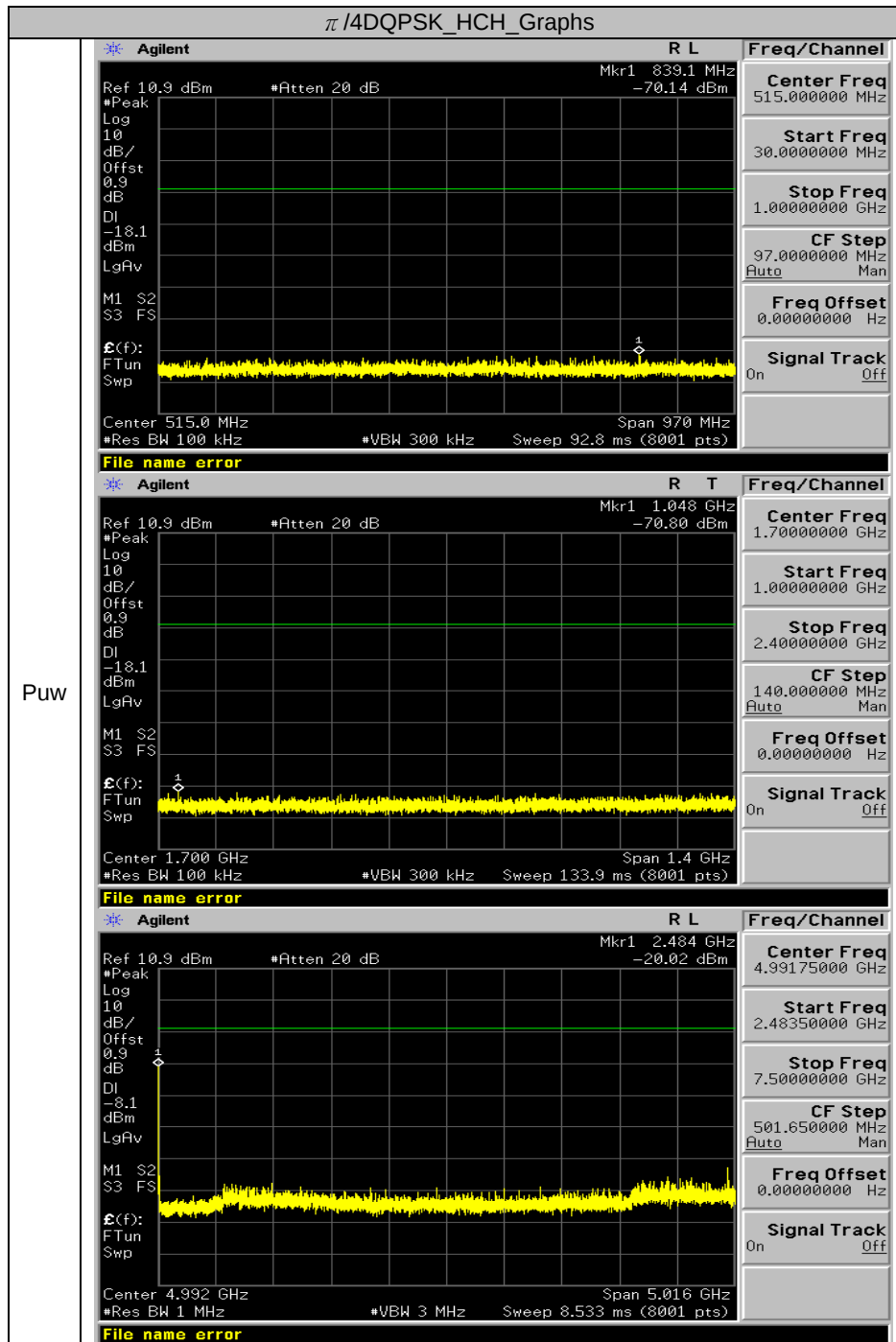


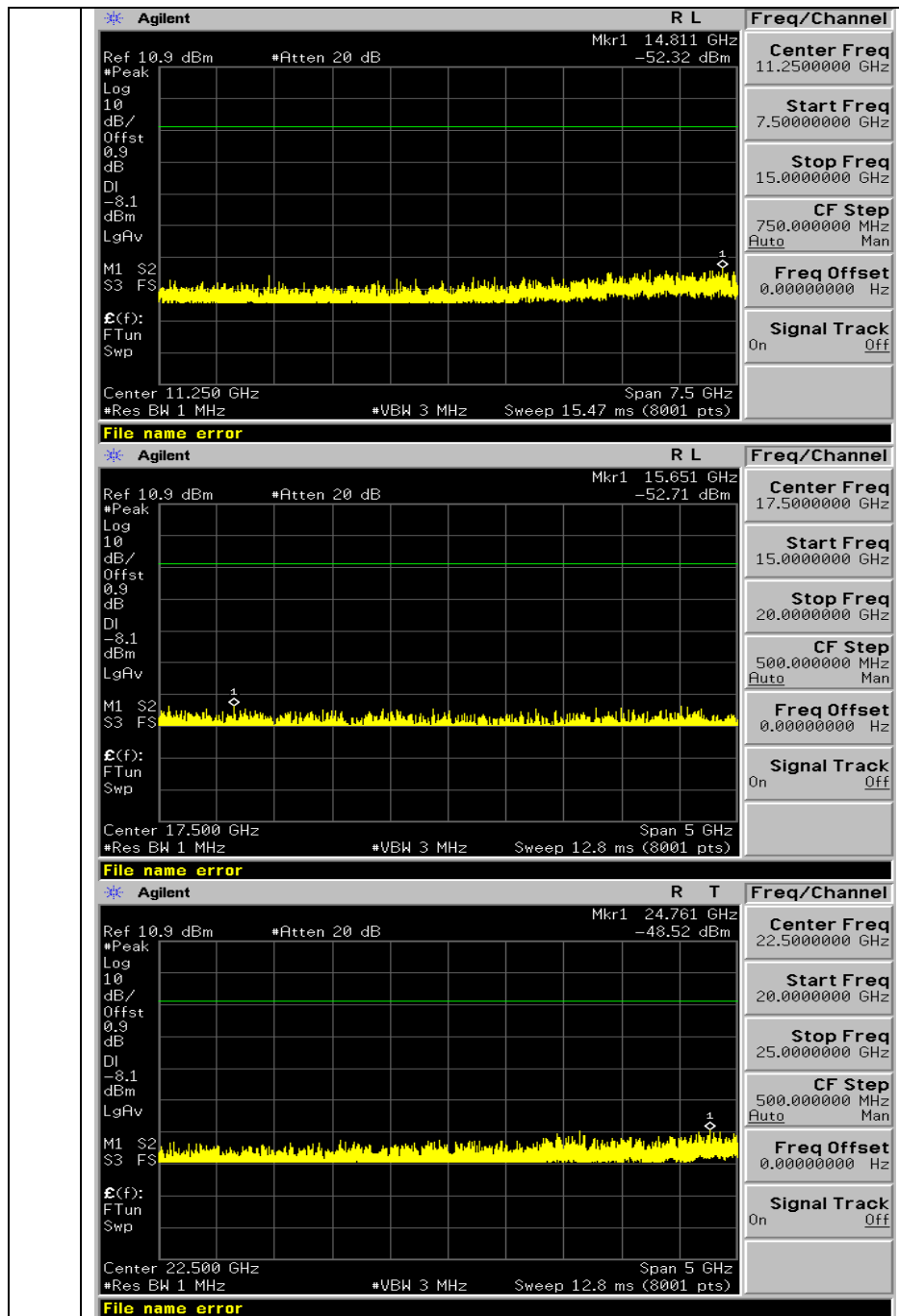
Puw

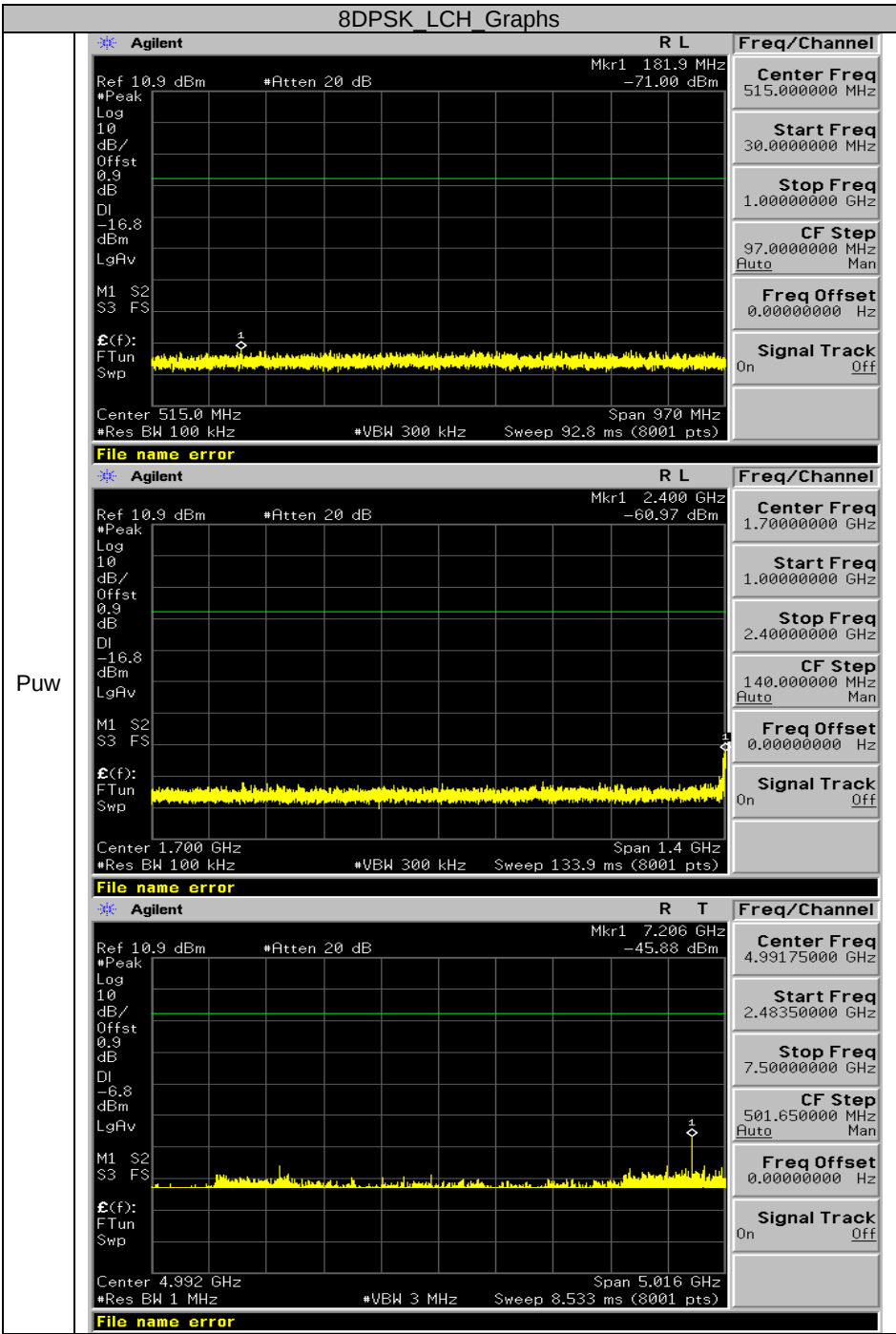












File name error

Agilent

R T

Freq/Channel

Ref 10.9 dBm

*Atten 20 dB

Mkr1 7.206 GHz

-45.88 dBm

#Peak

Log

10

dB/

Offst

0.9

dB

DI

-6.8

dBm

LgAv

M1 S2

S3 FS

$\mathcal{E}(f)$:

FTun

Swp

Center 4.992 GHz

*Res BW 1 MHz

*VBW 3 MHz

Sweep 8.533 ms (8001 pts)

Span 5.016 GHz

Center Freq

4.99175000 GHz

Start Freq

2.48350000 GHz

Stop Freq

7.50000000 GHz

CF Step

501.650000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

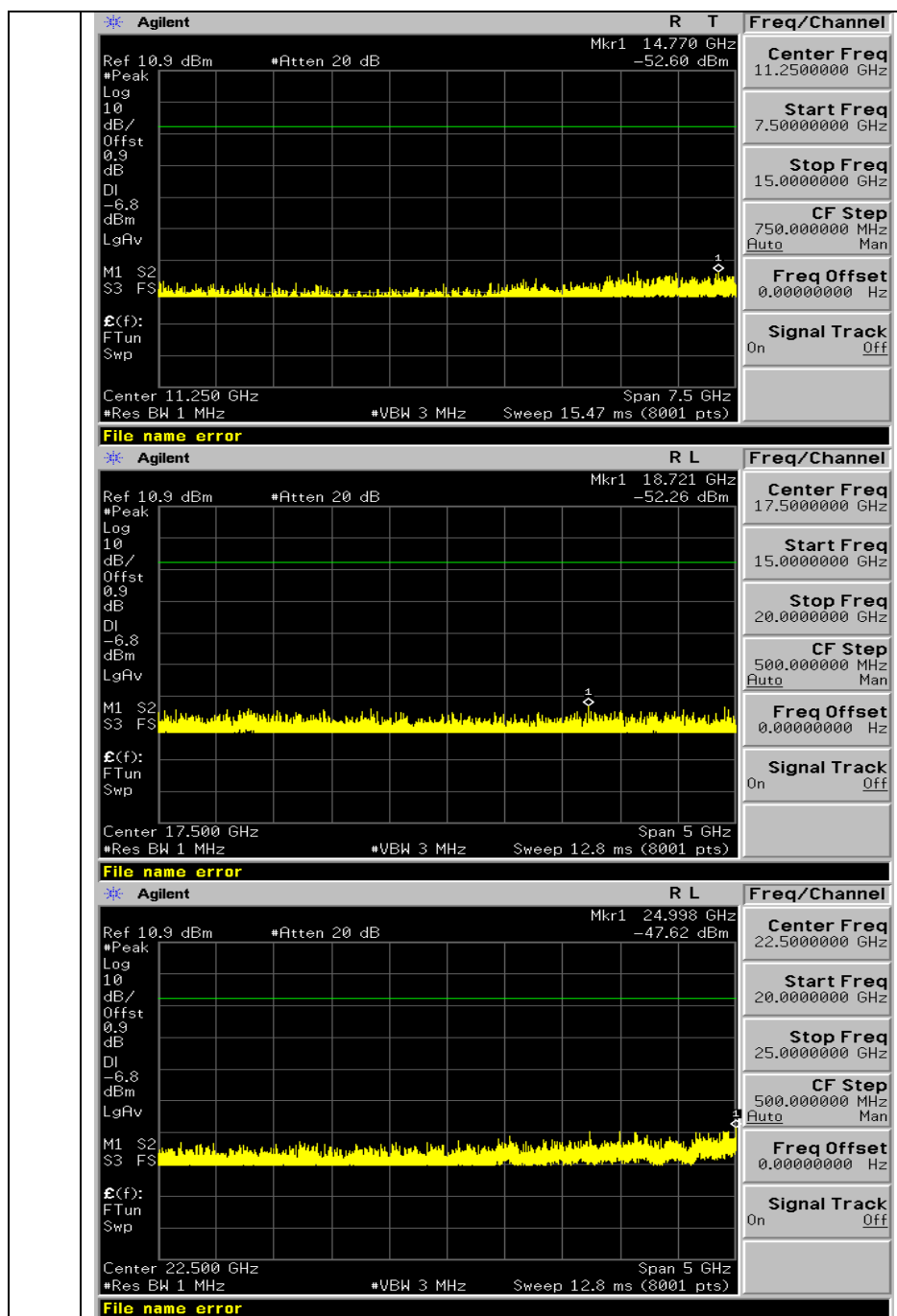
Signal Track

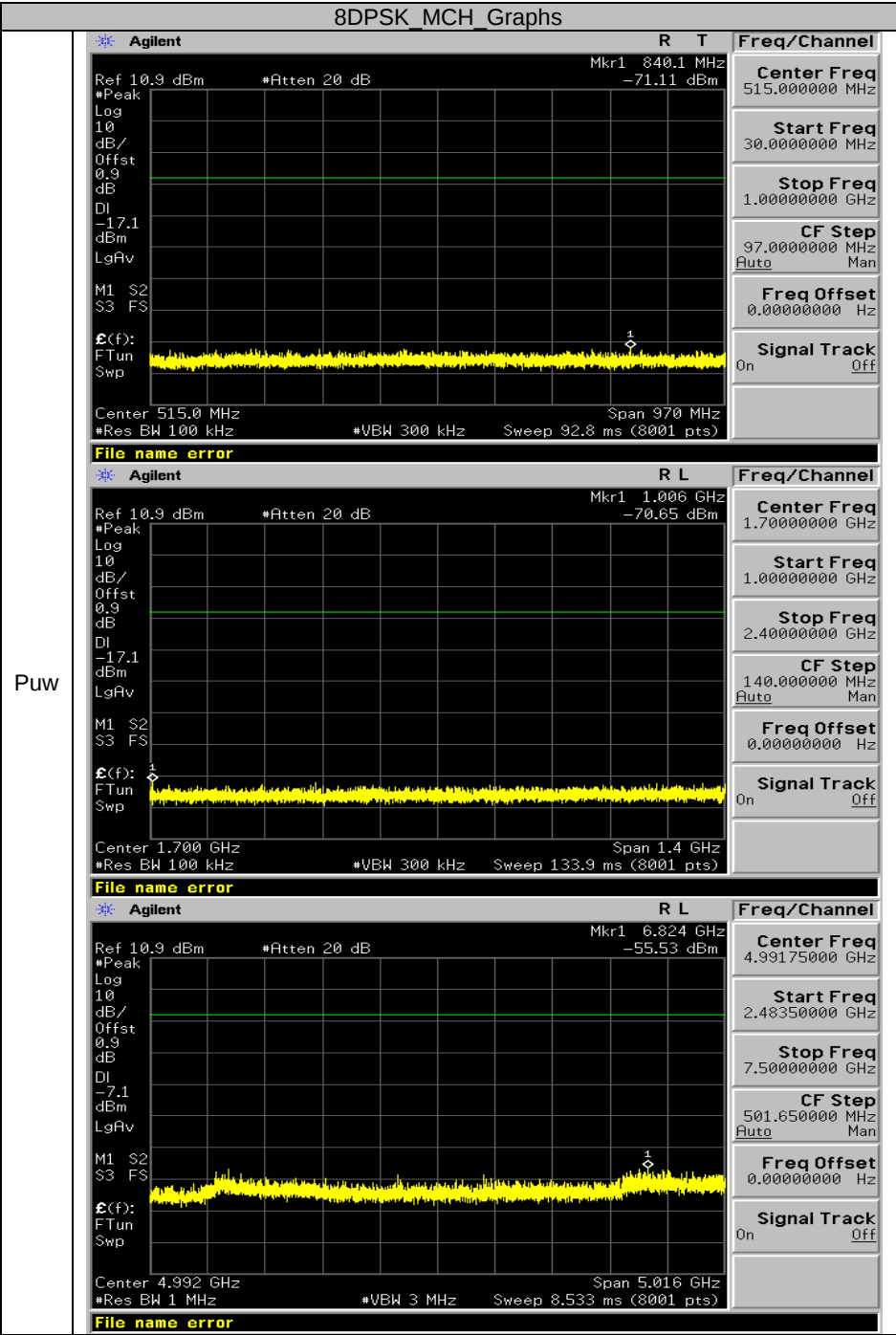
On

Off

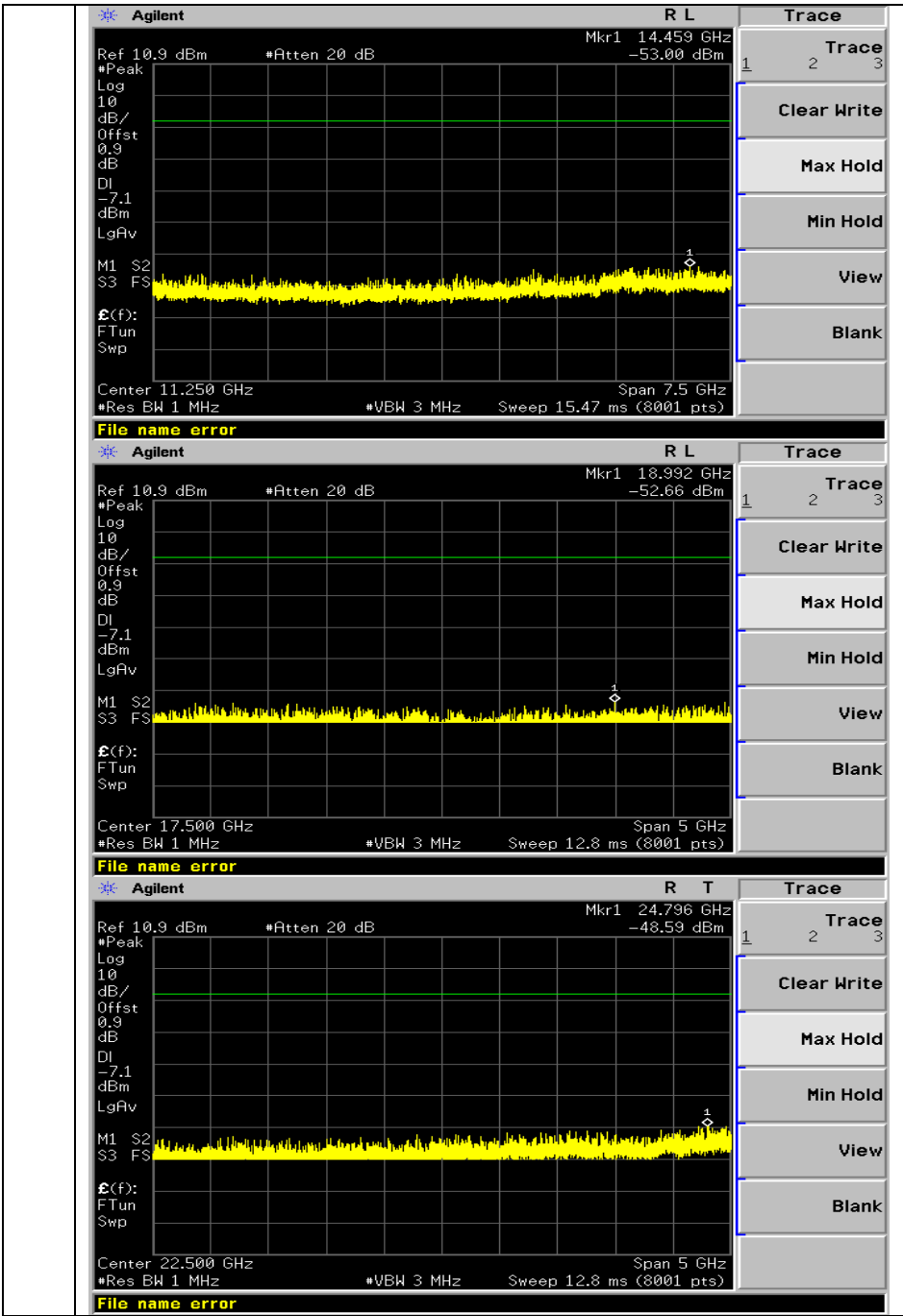
File name error

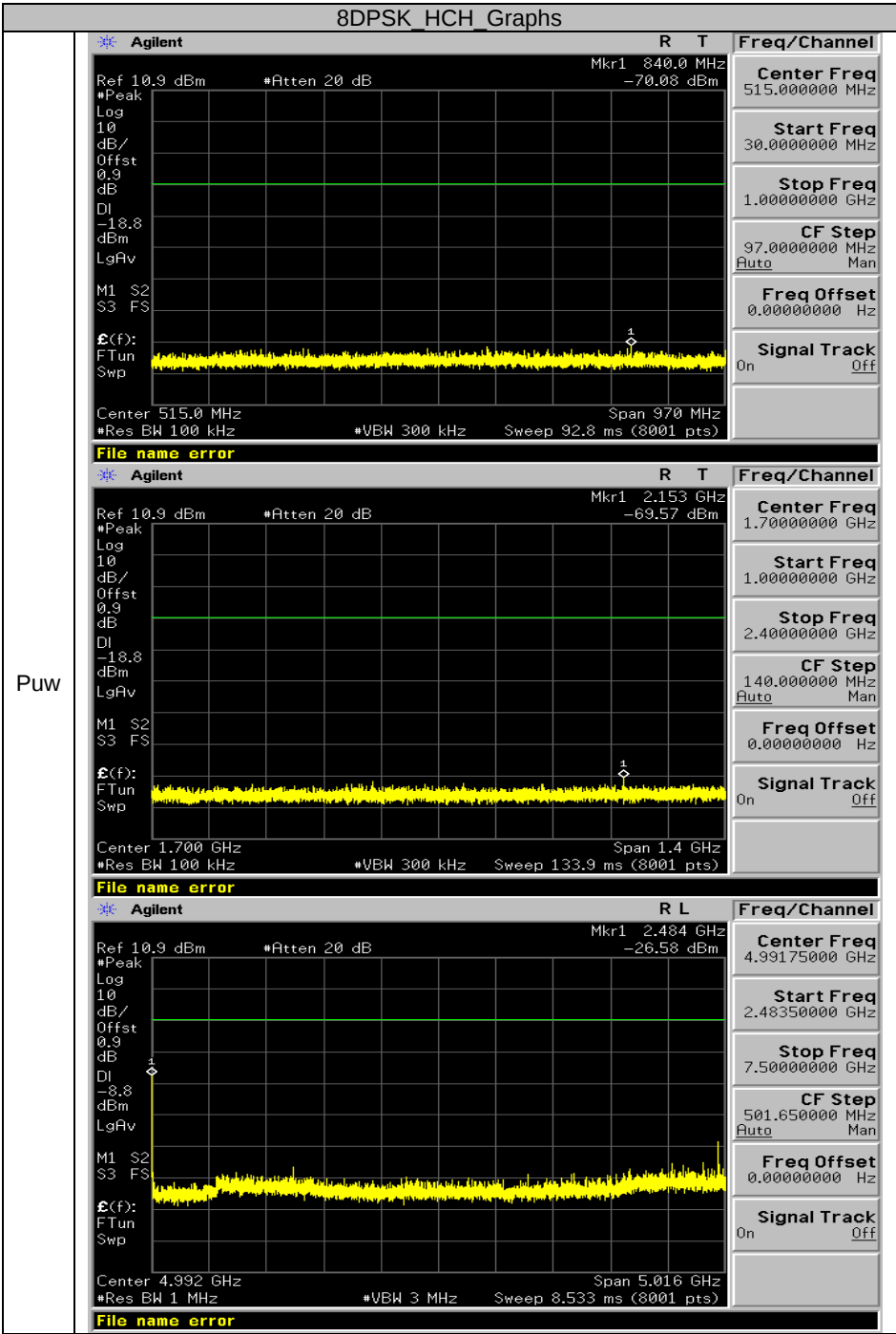
PUW



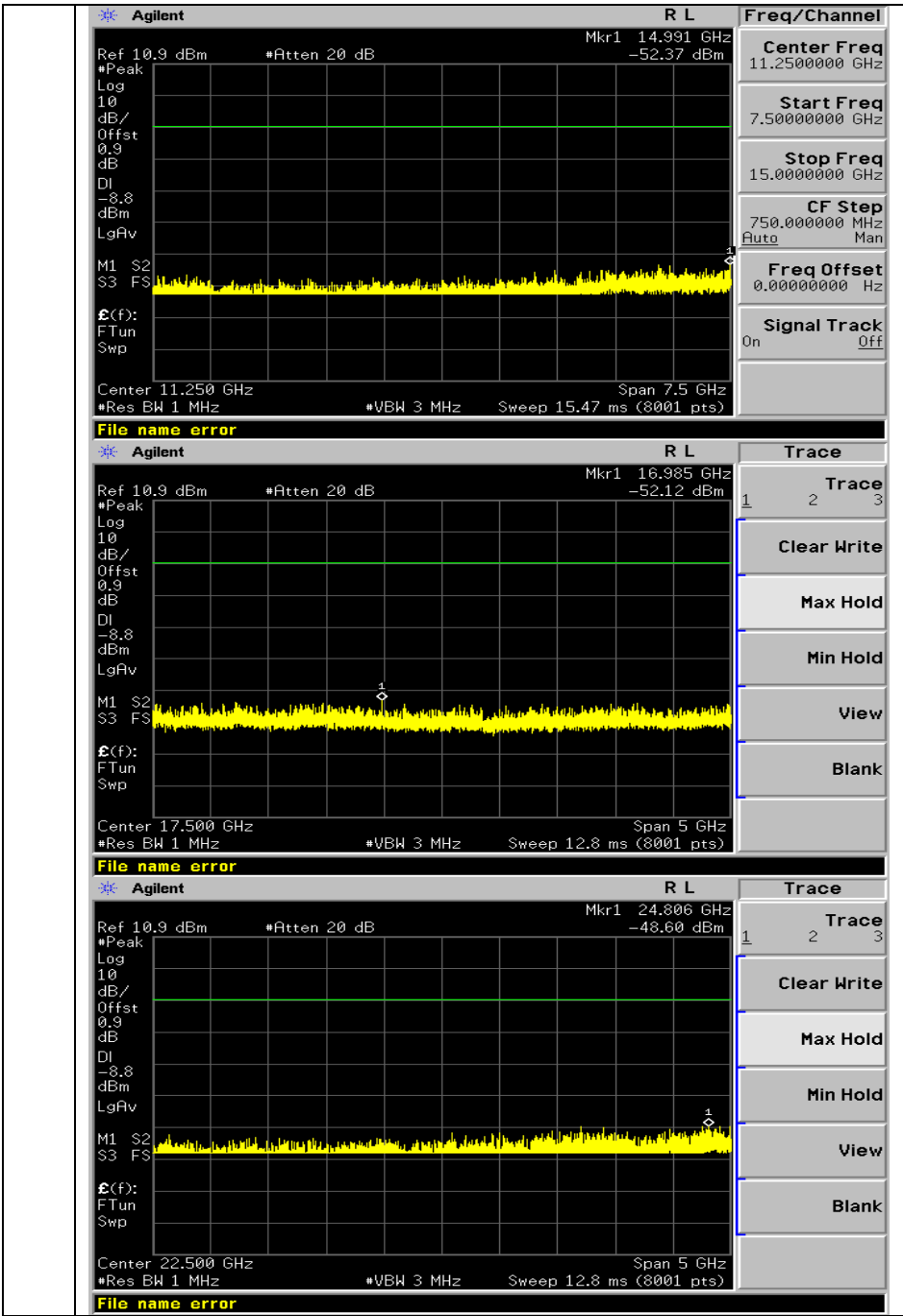


Puw





PUW



10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

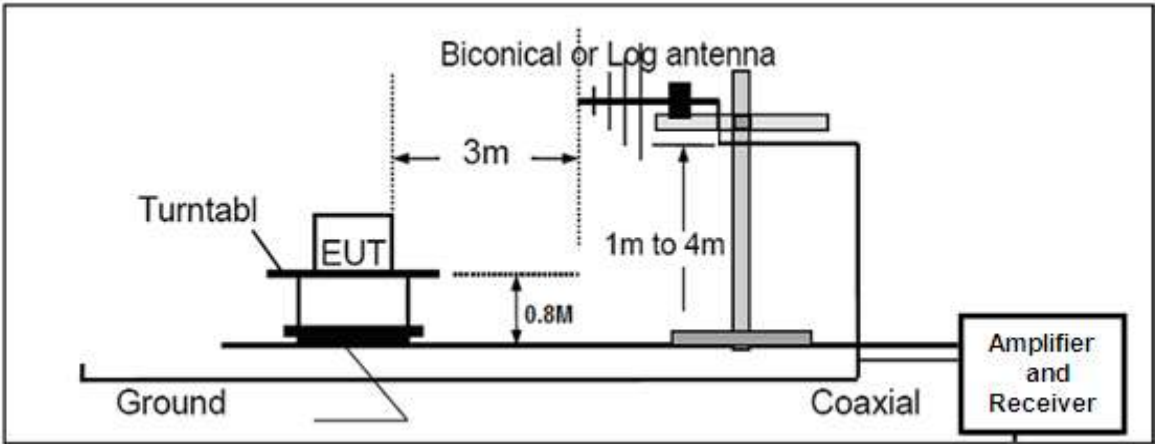
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

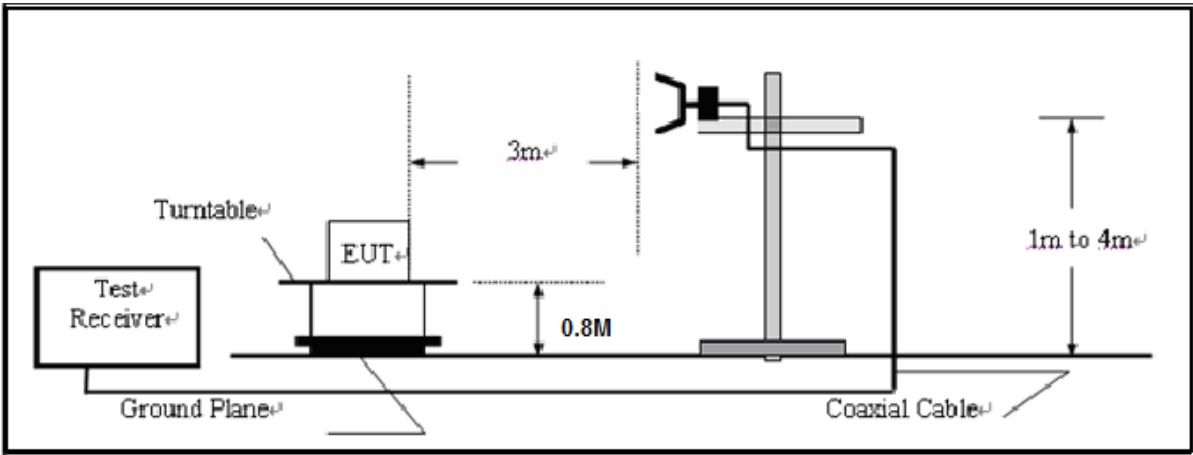
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

10.2. TEST SETUP

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



10.3. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

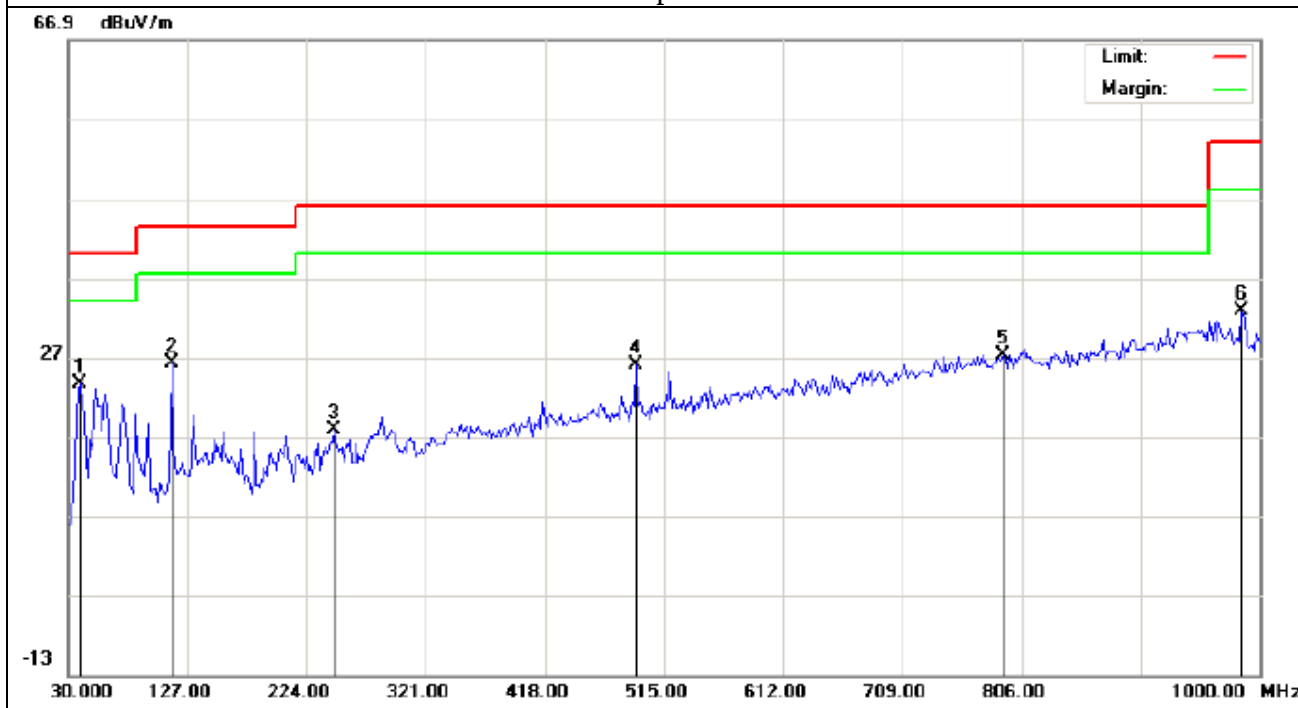
RADIATED EMISSION BELOW 1GHZ-Horizontal

EUT :	tablet pc	Model Name. :	PC1021ME
Temperature :	23 °C	Relative Humidity :	50%
Pressure :	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 3.7V from battery		
Test Mode :	TX Mode		

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	39.7000	12.03	11.51	23.54	40.00	-16.46	peak			
2		114.0667	14.79	11.45	26.24	43.50	-17.26	peak			
3		246.6333	3.99	13.77	17.76	46.00	-28.24	peak			
4		492.3667	4.92	21.05	25.97	46.00	-20.03	peak			
5		791.4500	0.09	27.20	27.29	46.00	-18.71	peak			
6		985.4500	3.16	29.66	32.82	54.00	-21.18	peak			

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



RESULT: PASS

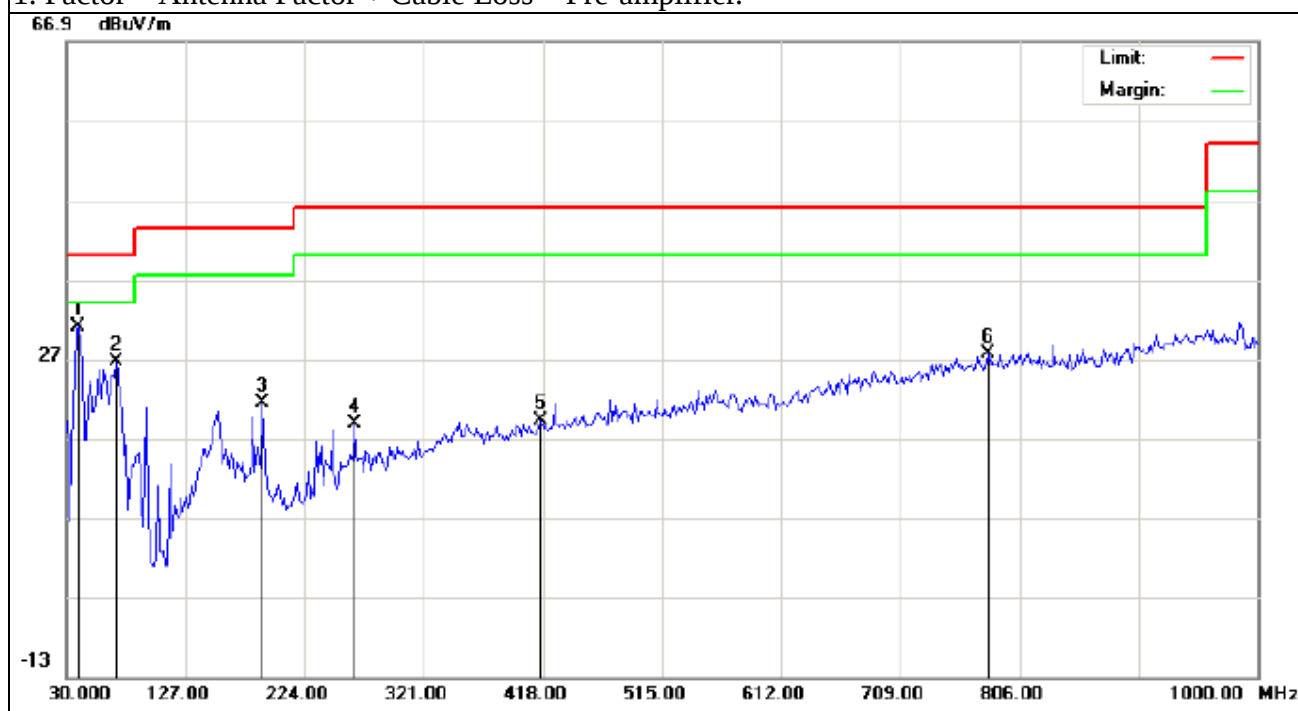
RADIATED EMISSION BELOW 1GHZ-Vertical

EUT :	tablet pc	Model Name. :	PC1021ME
Temperature :	23 °C	Relative Humidity :	50%
Pressure :	1010 hPa	Polarization :	Vertical
Test Voltage :	DC 3.7V from battery		
Test Mode :	TX Mode		

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	39.7000	22.58	8.51	31.09	40.00	-8.91	peak			
2		70.4167	22.41	4.16	26.57	40.00	-13.43	peak			
3		190.0500	9.83	11.52	21.35	43.50	-22.15	peak			
4		264.4167	4.47	14.34	18.81	46.00	-27.19	peak			
5		416.3833	-0.33	19.57	19.24	46.00	-26.76	peak			
6		780.1333	0.57	27.05	27.62	46.00	-18.38	peak			

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



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.

RADIATED EMISSION TEST- (ABOVE 1GHZ)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
Low Channel (2402 MHz)							
4804.264	66.41	-3.62	62.79	74	-11.21	Pk	Vertical
4804.272	47.46	-3.62	43.84	54	-10.16	AV	Vertical
7206.138	63.32	-0.9	62.42	74	-11.58	pk	Vertical
7206.156	42.79	-0.9	41.89	54	-12.11	AV	Vertical
4803.959	63.81	-3.64	60.17	74	-13.83	Pk	Horizontal
4803.964	45.65	-3.64	42.01	54	-11.99	AV	Horizontal
Mid Channel (2441 MHz)							
4882.128	66.44	-3.65	62.79	74	-11.21	Pk	Vertical
4882.094	51.83	-3.65	48.34	54	-5.66	AV	Vertical
7323.228	62.21	-0.82	61.39	74	-12.61	Pk	Vertical
7323.220	45.82	-0.82	45.00	54	-9.00	AV	Vertical
4882.096	62.27	-3.68	58.59	74	-15.41	Pk	Horizontal
4882.171	46.64	-3.68	42.96	54	-11.04	AV	Horizontal
High Channel (2480 MHz)							
4960.260	62.45	-3.59	58.86	74	-15.14	pk	Vertical
4960.325	45.82	-3.59	42.23	54	-11.77	AV	Vertical
4960.190	64.31	-3.59	60.72	74	-13.28	pk	Horizontal
4960.157	46.53	-3.59	42.94	54	-11.06	AV	Horizontal

Note:

- 1) 30MHz~25GHz:(Scan with GFSK, $\pi/4$ -DQPSK,8DPSK, the worst casw is GFSK Mode)
- 2) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Meter Reading + Factor
Margin = Limit - Emission Leve

11. BAND EDGE EMISSION

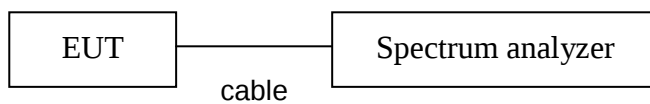
11.1. MEASUREMENT PROCEDURE

1. The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100kHz. The video bandwidth is set to 300kHz.
2. Transmitter set to the normal hopping mode at 2.4 and 2.4835 GHz.

11.2. TEST SET-UP

Radiated same as 10.2

Conducted set up



11.3. Radiated TEST RESULT

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
GFSK							
2399.9	69.55	-12.99	56.56	74	-17.44	peak	Vertical
2399.9	55.31	-12.99	42.32	54	-11.68	AVG	Vertical
2399.9	70.29	-12.99	57.30	74	-16.70	peak	Horizontal
2399.9	54.42	-12.99	41.43	54	-12.57	AVG	Horizontal
2483.6	71.33	-12.78	58.55	74	-15.45	peak	Vertical
2483.6	54.28	-12.78	41.50	54	-12.50	AVG	Vertical
2483.6	71.47	-12.78	58.69	74	-15.31	peak	Horizontal
2483.6	54.42	-12.78	41.64	54	-12.36	AVG	Horizontal
$\pi/4$ -DQPSK							
2399.9	71.59	-12.99	58.60	74	-15.40	peak	Vertical
2399.9	54.52	-12.99	41.53	54	-12.47	AVG	Vertical
2399.9	70.42	-12.99	57.43	74	-16.57	peak	Horizontal
2399.9	55.33	-12.99	42.34	54	-11.66	AVG	Horizontal
2483.6	71.69	-12.78	58.91	74	-15.09	peak	Vertical
2483.6	56.36	-12.78	43.58	54	-10.42	AVG	Vertical
2483.6	71.31	-12.78	58.53	74	-15.47	peak	Horizontal
2483.6	54.69	-12.78	41.91	54	-12.09	AVG	Horizontal
8DPSK							
2399.9	71.36	-12.99	58.37	74	-15.63	peak	Vertical
2399.9	55.52	-12.99	42.53	54	-11.47	AVG	Vertical
2399.9	70.47	-12.99	57.48	74	-16.52	peak	Horizontal
2399.9	56.37	-12.99	43.38	54	-10.62	AVG	Horizontal
2483.6	71.43	-12.78	58.65	74	-15.35	peak	Vertical
2483.6	55.29	-12.78	42.51	54	-11.49	AVG	Vertical
2483.6	71.56	-12.78	58.78	74	-15.22	peak	Horizontal
2483.6	54.58	-12.78	41.80	54	-12.20	AVG	Horizontal

Hopping

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
GFSK							
2390	69.26	-12.99	56.27	74	-17.73	peak	Vertical
2390	55.28	-12.99	42.29	54	-11.71	AVG	Vertical
2390	68.64	-12.99	55.65	74	-18.45	peak	Horizontal
2390	54.38	-12.99	41.39	54	-12.61	AVG	Horizontal
2483.5	67.46	-12.78	54.68	74	-19.32	peak	Vertical
2483.5	55.23	-12.78	42.45	54	-11.55	AVG	Vertical
2483.5	68.29	-12.78	55.51	74	-18.49	peak	Horizontal
2483.5	55.61	-12.78	42.83	54	-11.17	AVG	Horizontal
$\pi/4$ -DQPSK							
2390	69.53	-12.99	56.54	74	-17.46	peak	Vertical
2390	56.63	-12.99	43.64	54	-10.36	AVG	Vertical
2390	68.48	-12.99	55.49	74	-18.51	peak	Horizontal
2390	54.72	-12.99	41.73	54	-12.27	AVG	Horizontal
2483.5	68.23	-12.78	55.45	74	-18.55	peak	Vertical
2483.5	54.56	-12.78	41.78	54	-12.22	AVG	Vertical
2483.5	69.13	-12.78	56.35	74	-17.65	peak	Horizontal
2483.5	55.70	-12.78	42.92	54	-11.08	AVG	Horizontal
8DPSK							
2390	69.64	-12.99	56.65	74	-17.35	peak	Vertical
2390	55.39	-12.99	42.40	54	-11.60	AVG	Vertical
2390	68.38	-12.99	55.39	74	-18.61	peak	Horizontal
2390	55.44	-12.99	42.45	54	-11.55	AVG	Horizontal
2483.5	69.53	-12.78	56.75	74	-17.25	peak	Vertical
2483.5	55.69	-12.78	42.91	54	-11.09	AVG	Vertical
2483.5	68.41	-12.78	55.63	74	-18.37	peak	Horizontal
2483.5	55.49	-12.78	42.71	54	-11.29	AVG	Horizontal

Note: The other modes radiation emission have enough 20dB margin.

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

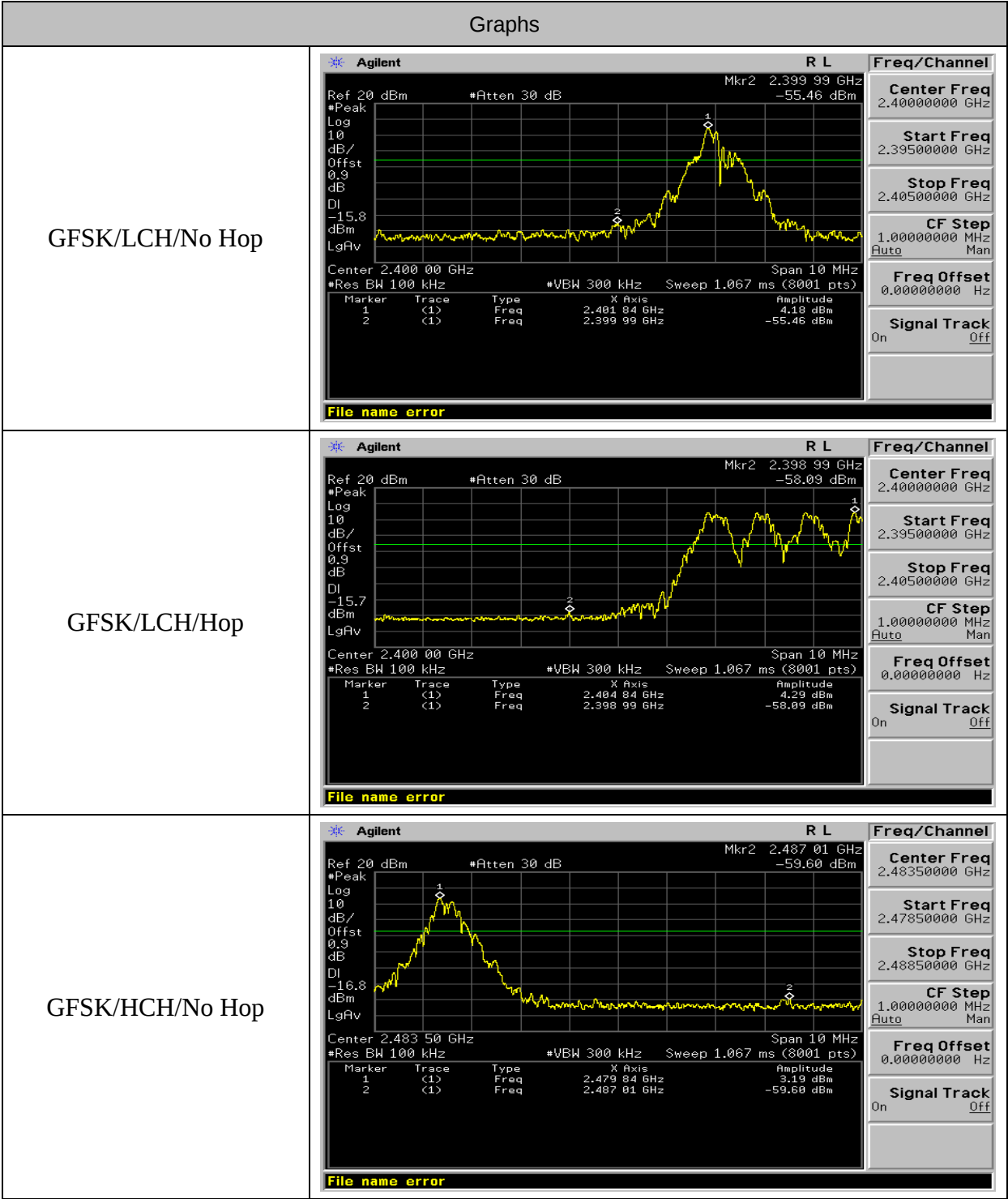
The "Factor" value can be calculated automatically by software of measurement system.

11.4 Conducted TEST RESULT

Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBm]	Verdict
GFSK	LCH	2402	Off	-55.464	PASS
			On	-58.089	PASS
GFSK	HCH	2480	Off	-59.596	PASS
			On	-59.985	PASS
$\pi/4$ DQPSK	LCH	2402	Off	-54.645	PASS
$\pi/4$ DQPSK	HCH	2480	Off	-59.276	PASS
8DPSK	LCH	2402	Off	-55.021	PASS
8DPSK	HCH	2480	Off	-59.127	PASS

Note: All modes were tested, only the worst case record in the report.

Test Graph



GFSK/HCH/Hop

Agilent R L Freq/Channel

Ref 20 dBm *Atten 30 dB Mkr2 2.486 63 GHz -59.99 dBm

*Peak Log 10 dB/Offst 0.9 dB DI -16.9 dBm LgRv

Center 2.483 50 GHz Span 10 MHz

*Res BW 100 kHz *VBW 300 kHz Sweep 1.067 ms (3001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.479 84 GHz	3.12 dBm
2	(1)	Freq	2.486 63 GHz	-59.99 dBm

File name error

Center Freq 2.48350000 GHz

Start Freq 2.47850000 GHz

Stop Freq 2.48850000 GHz

CF Step 1.00000000 MHz Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

$\pi/4$ DQPSK/LCH/No Hop

Agilent R L Freq/Channel

Ref 20 dBm *Atten 30 dB Mkr2 2.399 51 GHz -54.65 dBm

*Peak Log 10 dB/Offst 0.9 dB DI -17.4 dBm LgRv

Center 2.400 00 GHz Span 10 MHz

*Res BW 100 kHz *VBW 300 kHz Sweep 1.067 ms (3001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.401 07 GHz	2.63 dBm
2	(1)	Freq	2.399 51 GHz	-54.65 dBm

File name error

Center Freq 2.40000000 GHz

Start Freq 2.39500000 GHz

Stop Freq 2.40500000 GHz

CF Step 1.00000000 MHz Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

$\pi/4$ DQPSK/HCH/No Hop

Agilent R L Freq/Channel

Ref 20 dBm *Atten 30 dB Mkr2 2.484 46 GHz -59.28 dBm

*Peak Log 10 dB/Offst 0.9 dB DI -17.7 dBm LgRv

Center 2.483 50 GHz Span 10 MHz

*Res BW 100 kHz *VBW 300 kHz Sweep 1.067 ms (3001 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.479 84 GHz	2.32 dBm
2	(1)	Freq	2.484 46 GHz	-59.28 dBm

File name error

Center Freq 2.48350000 GHz

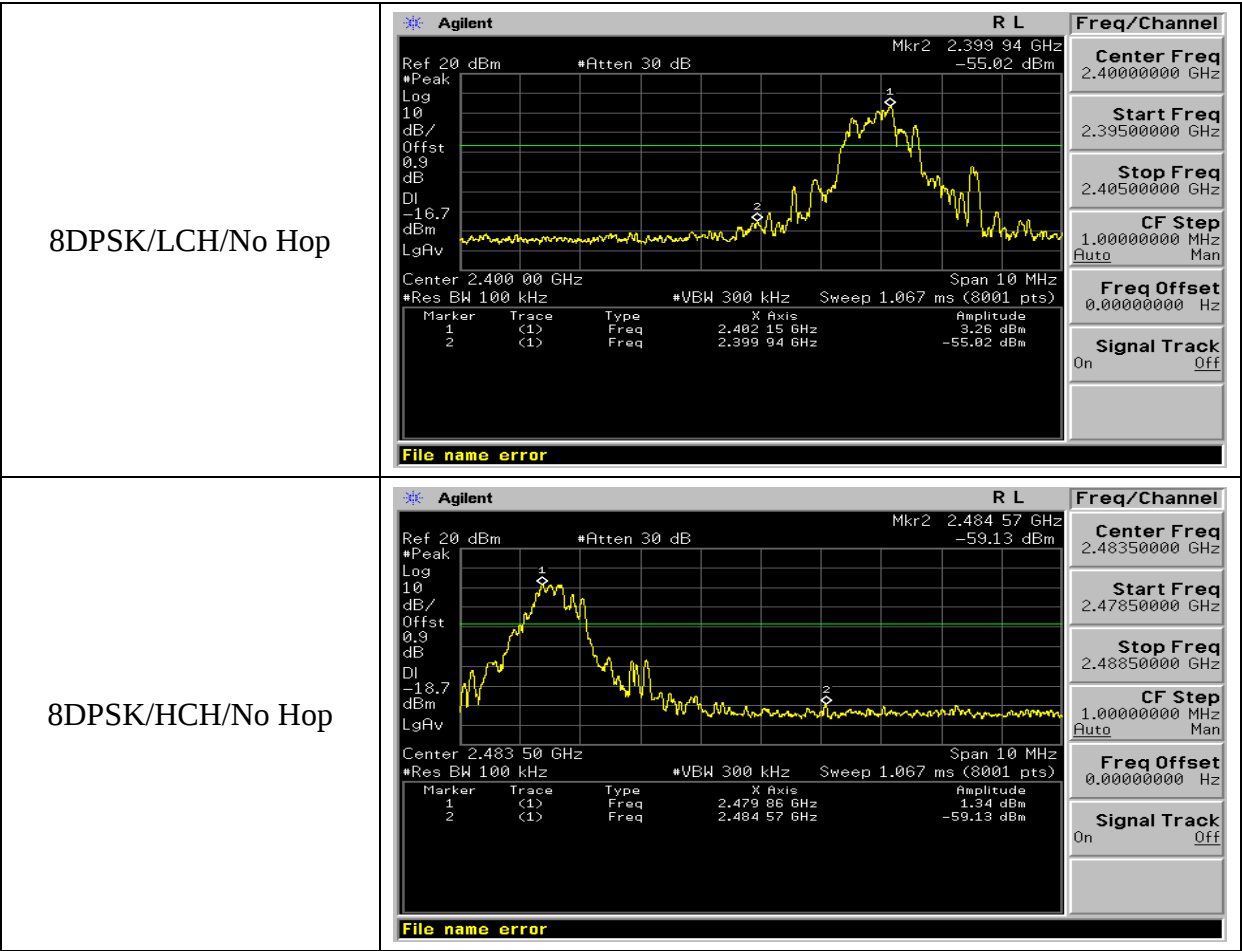
Start Freq 2.47850000 GHz

Stop Freq 2.48850000 GHz

CF Step 1.00000000 MHz Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off



12. NUMBER OF HOPPING FREQUENCY

12.1. MEASUREMENT PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer Start = 2.4GHz Stop = 2.4835GHz
4. Set the Spectrum Analyzer as RBW>=1%span, VBW>=RBW.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

12.3. MEASUREMENT EQUIPMENT USED

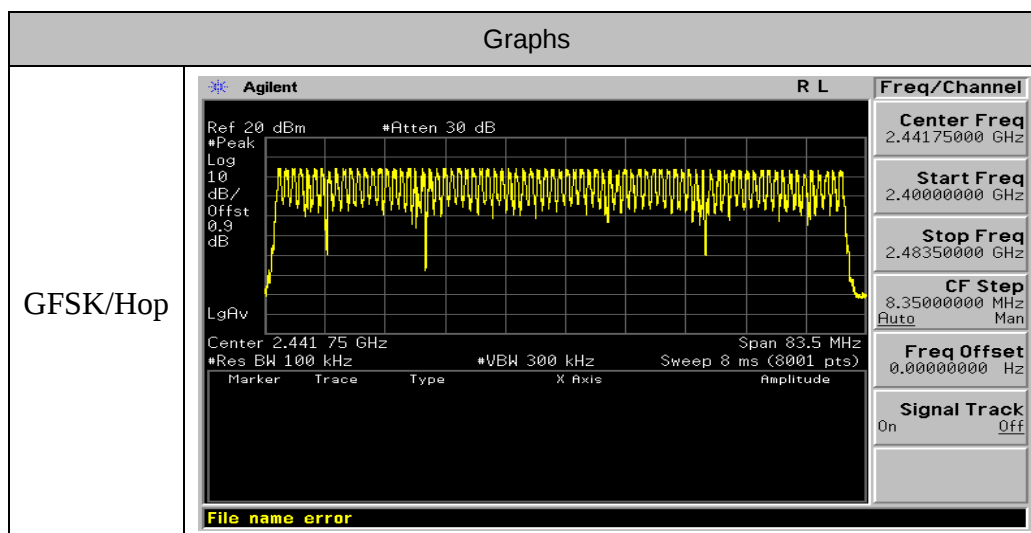
The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT

Mode	Channel.	Number of Hopping Channel	Verdict
GFSK	Hop	79	PASS

Note: All modes were tested, only the worst case record in the report.

Test Graph



13. TIME OF OCCUPANCY (DWELL TIME)

13.1. MEASUREMENT PROCEDURE

1. Place the EUT on the table and set it in transmitting mode
2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
3. Set Span = zero span, centered on a hopping channel
4. Set the spectrum analyzer as RBW=1MHz, VBW>=RBW, Span = 0 Hz

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

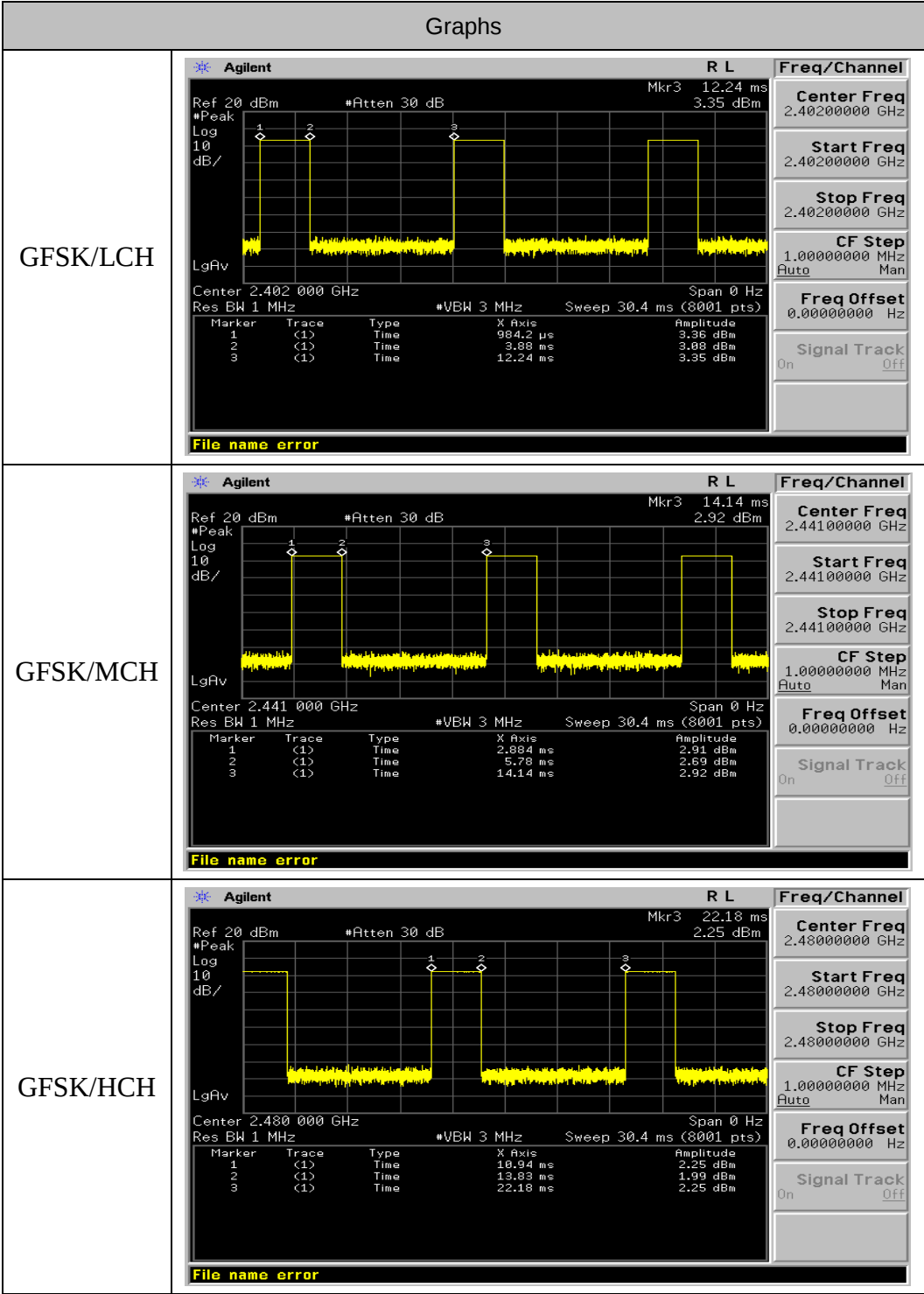
13.4. LIMITS AND MEASUREMENT RESULT

The Dwell Time=Burst Width*Total Hops. The detailed calculations are showed as follows:

- The duration for dwell time calculation: $0.4[s] * \text{hopping number} = 0.4[s] * 79[\text{ch}] = 31.6[s*ch]$;
- The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.
- The hops per second for all channels: The selected EUT Conf uses a slot type of 5-Tx&1-Rx and a hopping rate of 1600 [ch*hop/s] for all channels. So the final hopping rate for all channels is $1600/6 = 266.67 [\text{ch*hop/s}]$
- The hops per second on one channel: $266.67 [\text{ch*hops/s}] / 79 [\text{ch}] = 3.38 [\text{hop/s}]$;
- The total hops for all channels within the dwell time calculation duration: $3.38 [\text{hop/s}] * 31.6[s*ch] = 106.67 [\text{hop*ch}]$;
- The dwell time for all channels hopping: $106.67 [\text{hop*ch}] * \text{Burst Width} [\text{ms/hop/ch}]$.

Mode	Channel.	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Verdict	Limit (ms)
GFSK	LCH	2.896	106.67	309.872	PASS	400
GFSK	MCH	2.896	106.67	309.872	PASS	400
GFSK	HCH	2.89	106.67	308.276	PASS	400

Test Graph



14. FREQUENCY SEPARATION

14.1. MEASUREMENT PROCEDURE

1. Place the EUT on the table and set it in transmitting mode
2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
3. Set Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span Video (or Average) Bandwidth (VBW) $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold

14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

14.3. MEASUREMENT EQUIPMENT USED

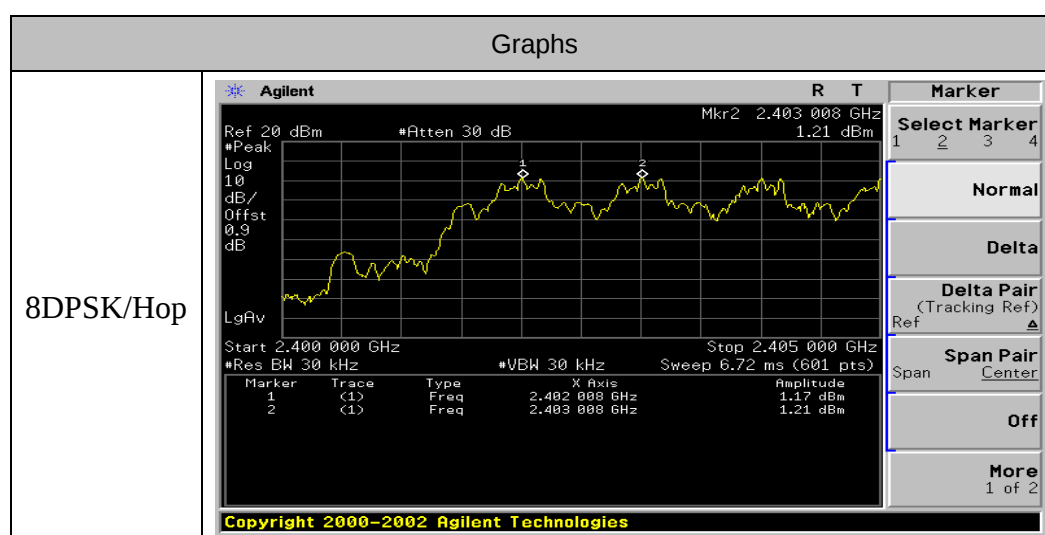
The same as described in section 6.3

14.4. LIMITS AND MEASUREMENT RESULT

Mode	Channel.	Carrier Frequency Separation [MHz]	Verdict
8DPSK	Hop	1	PASS

Note: All modes were tested, only the worst case record in the report.

Test Graph



15. FCC LINE CONDUCTED EMISSION TEST

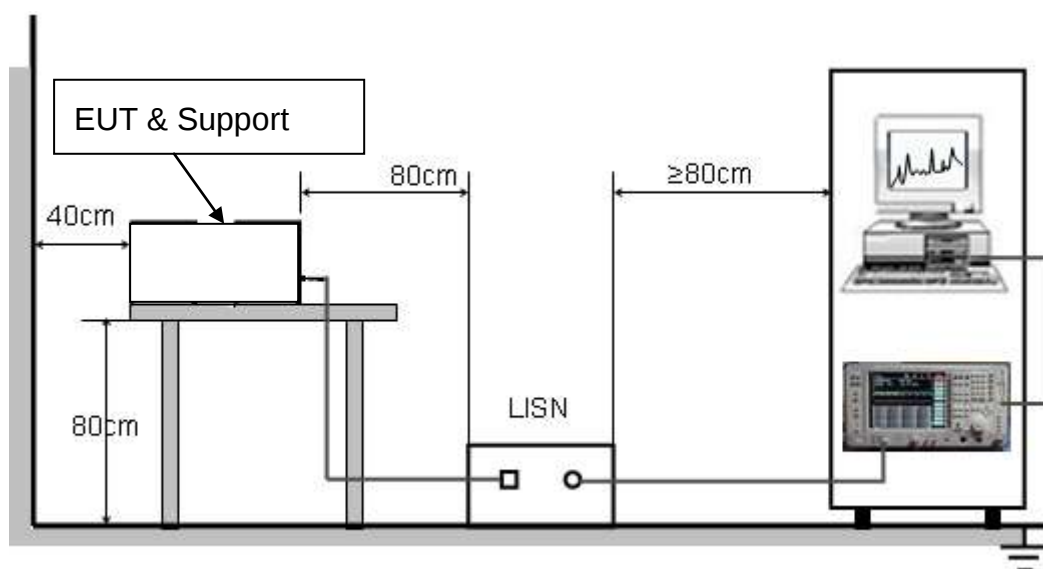
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	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.

15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. 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 C63.4 (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 C63.4.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC charging voltage by adapter which received 120V/60Hz power 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.

15.4. 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.
2. 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.

15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L

EUT :	tablet pc	Model Name. :	PC1021ME
Temperature :	23 °C	Relative Humidity :	50%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Link Mode

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2020	32.32		28.14	10.22	42.54		38.36	63.52	53.52	-20.98	-15.16	P	
2	0.8180	34.87		21.79	10.30	45.17		32.09	56.00	46.00	-10.83	-13.91	P	
3	1.3580	41.42		32.60	10.38	51.80		42.98	56.00	46.00	-4.20	-3.02	P	
4	2.1180	41.53		21.74	10.27	51.80		32.01	56.00	46.00	-4.20	-13.99	P	
5	16.9900	20.60		9.89	10.13	30.73		20.02	60.00	50.00	-29.27	-29.98	P	
6	27.5020	15.44		6.13	10.12	25.56		16.25	60.00	50.00	-34.44	-33.75	P	

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. N/A means All Data have pass Limit



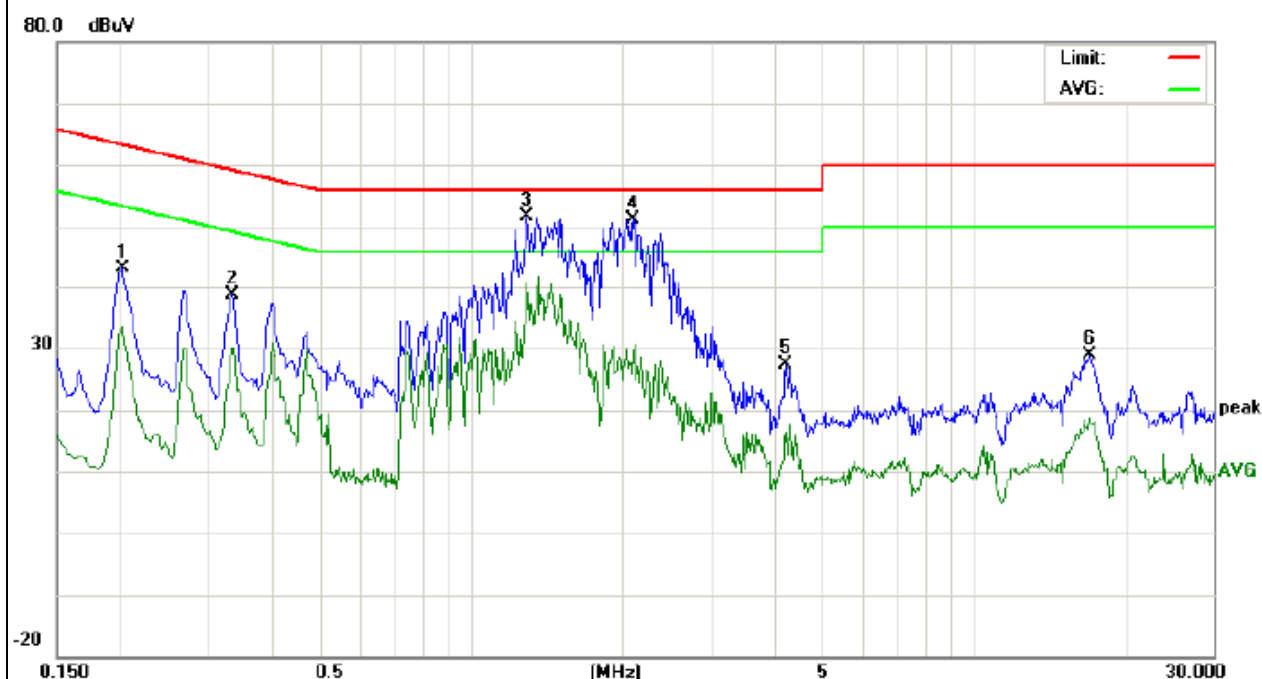
Line Conducted Emission Test Line 2-N

EUT :	tablet pc	Model Name. :	PC1021ME
Temperature :	23 °C	Relative Humidity :	50%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Link Mode

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2020	32.87		23.26	10.22	43.09		33.48	63.52	53.52	-20.43	-20.04	P	
2	0.3339	28.27		19.90	10.30	38.57		30.20	59.35	49.35	-20.78	-19.15	P	
3	1.2940	41.32		30.19	10.38	51.70		40.57	56.00	46.00	-4.30	-5.43	P	
4	2.1099	40.92		18.63	10.27	51.19		28.90	56.00	46.00	-4.81	-17.10	P	
5	4.2260	16.95		6.08	10.33	27.28		16.41	56.00	46.00	-28.72	-29.59	P	
6	17.0980	18.63		8.04	10.13	28.76		18.17	60.00	50.00	-31.24	-31.83	P	

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. N/A means All Data have pass Limit



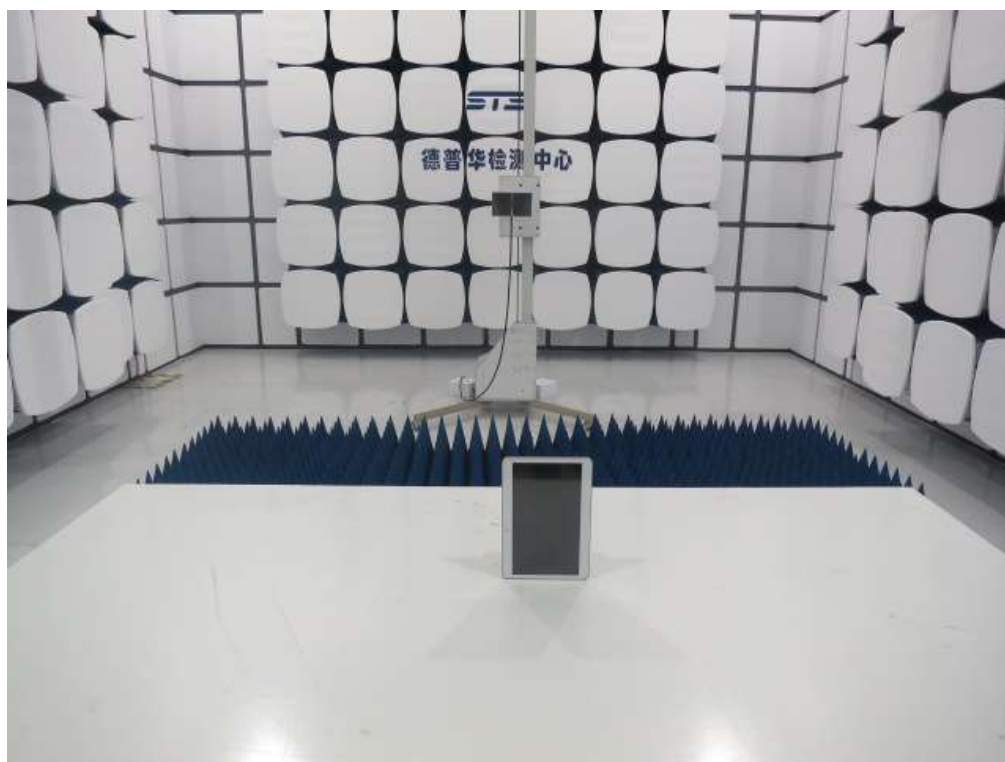
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



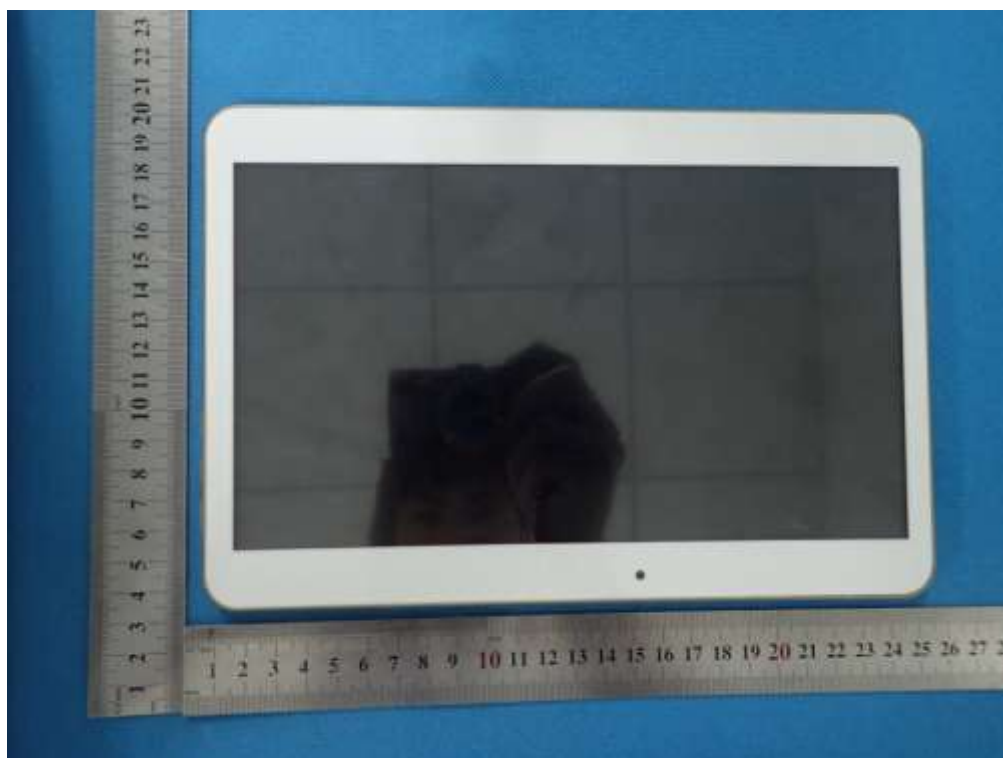


APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



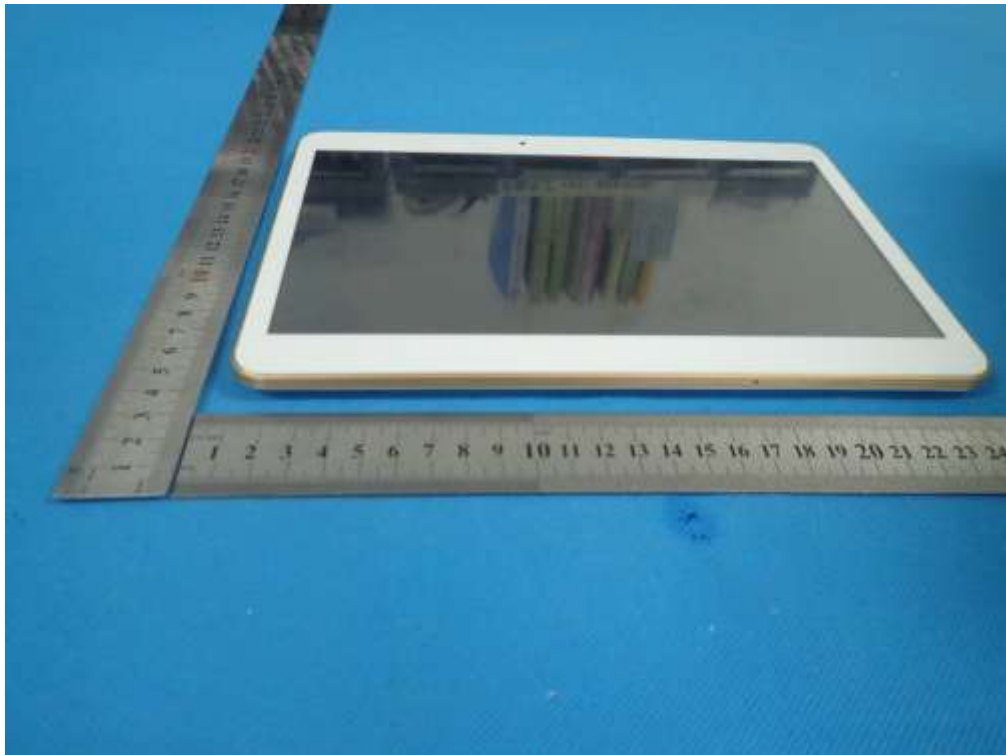
TOP VIEW OF EUT



BOTTOM VIEW OF EUT



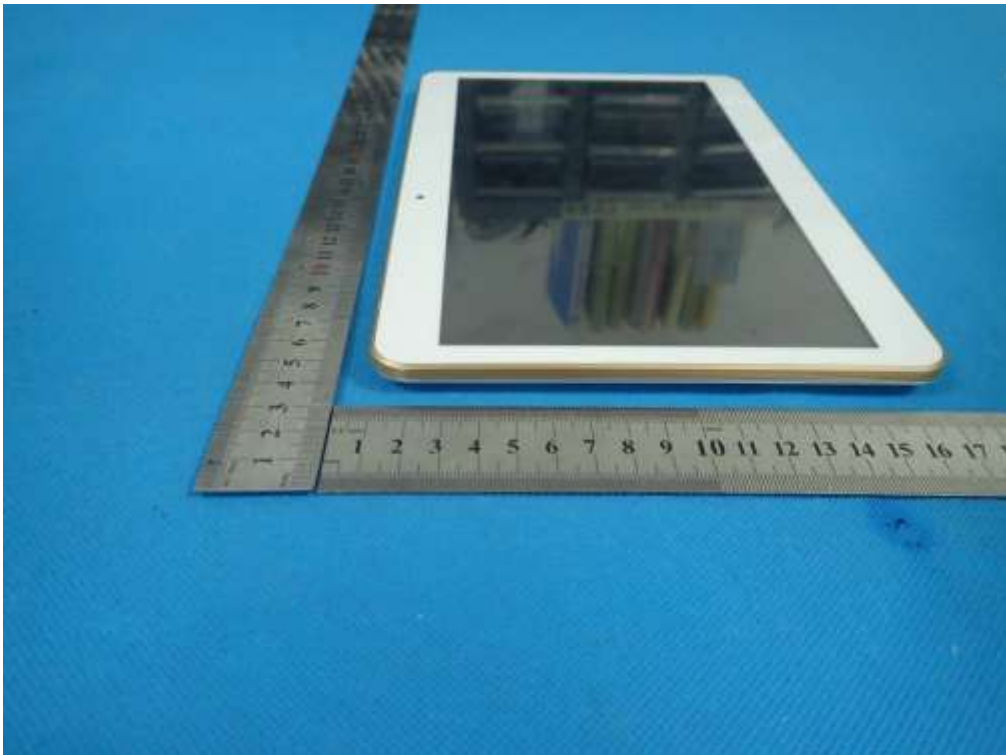
FRONT VIEW OF EUT



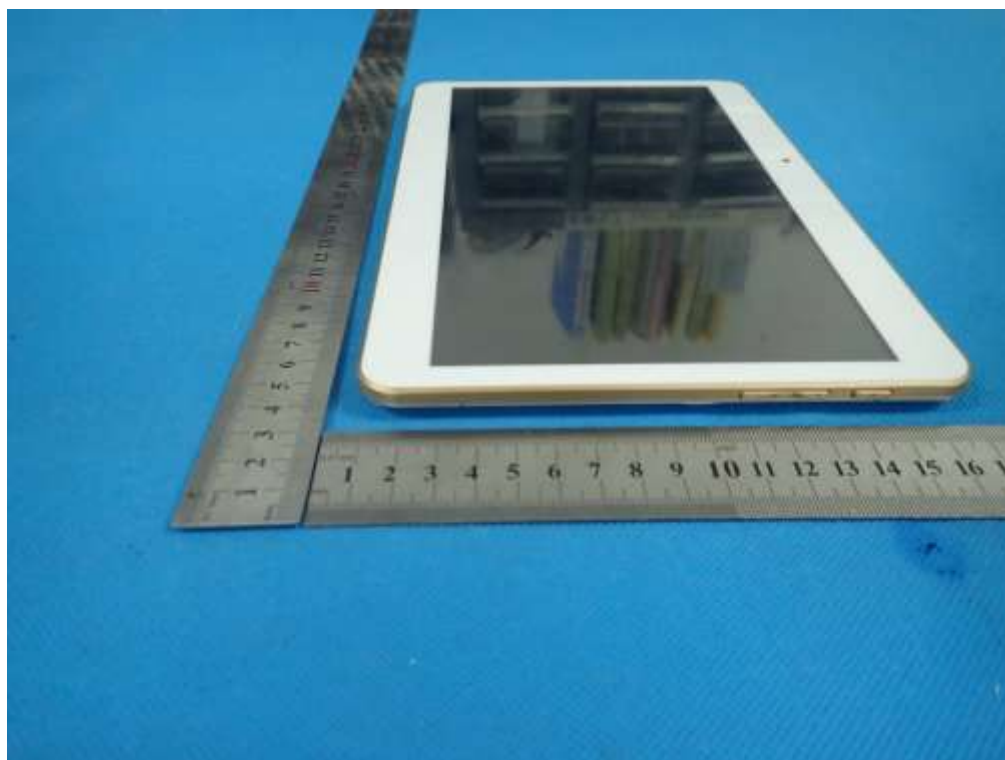
BACK VIEW OF EUT



LEFT VIEW OF EUT



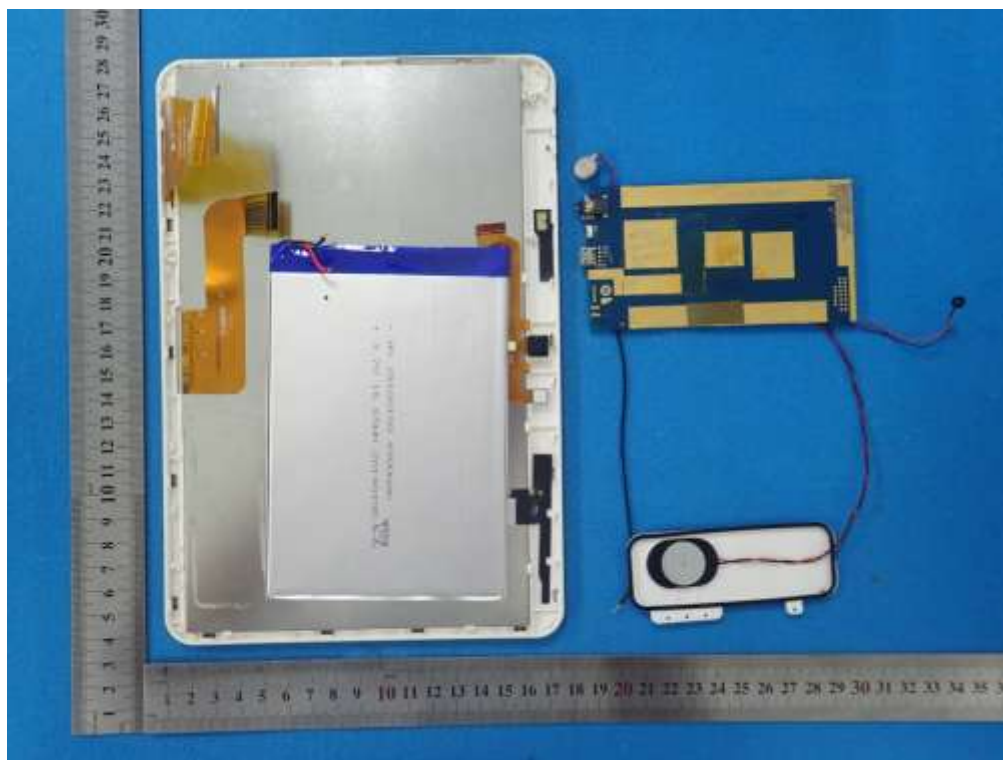
RIGHT VIEW OF EUT



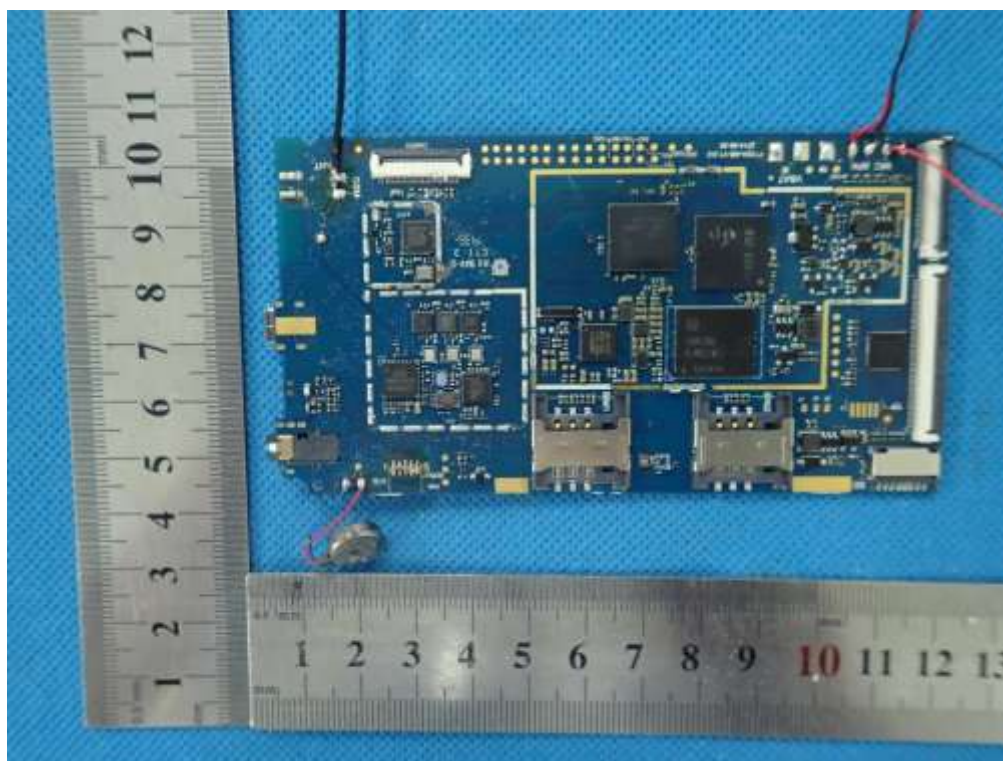
INTERNAL VIEW OF EUT-1



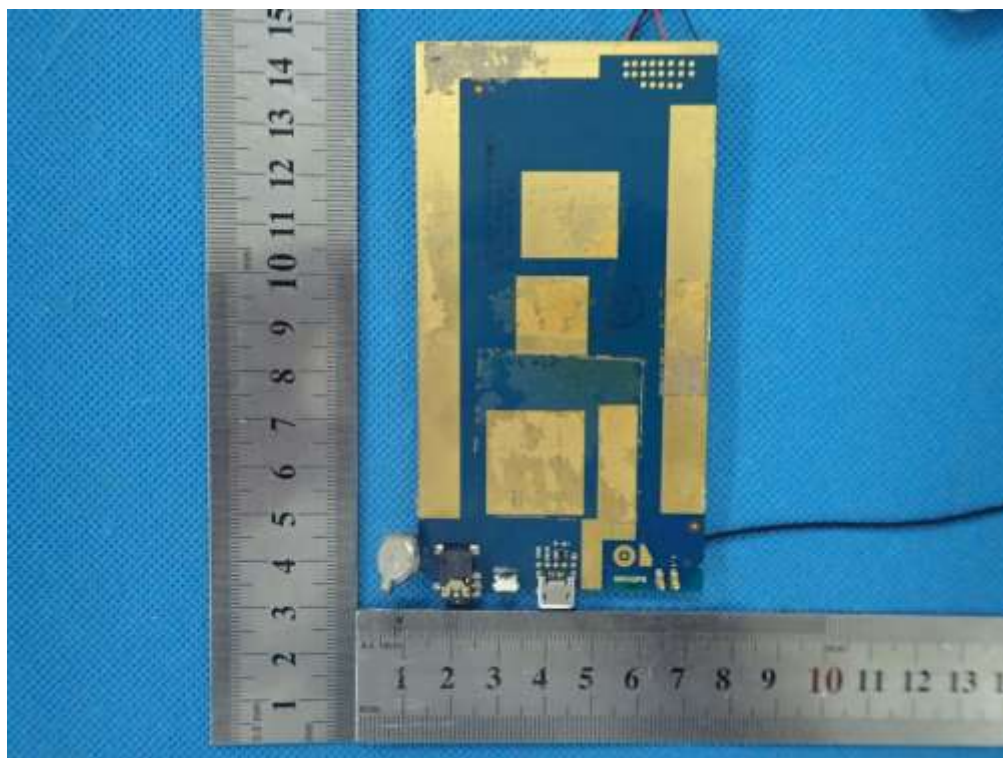
INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



----END OF REPORT----