
FCC Test Report

Report No.: AGC00119150303FE03

FCC ID : BRCPC7095ME

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : tablet pc

BRAND NAME : Kinwei, Titan

MODEL NAME : PC7095ME(Series model name please see attached list on page 6)

CLIENT : Kintech Co., Ltd.

DATE OF ISSUE : Apr.28, 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	/	Apr.28, 2015	Valid	Original Report

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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	PC7095ME
Series Model	Series model name please see attached list on page 6
Difference description	All the same except for the model name.
Date of test	Apr.20,2015 to Apr.27,2015
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) 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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Matt Zhang

Apr.28, 2015

Checked By

Kidd Yang

Kidd Yang

Apr.28, 2015

Authorized By

Solger Zhang

Solger Zhang

Apr.28, 2015

ATTACHED LIST

Series model	PC7095, PC7095Y, PCXXXXME(XXXX represents 0000~9999), PCXXXX(XXXX represents 0000~9999), PCXXXXY(XXXX represents 0000~9999; Y represents A~Z), KW-PC7095X, KW-PC7095, KW-PCXXXXX(XXXX represents 0000~9999), KW-PCXXXX(XXXX represents 0000~9999), PC7099ME, PC7099, PC7099Y, PCXXXXME(XXXX represents 0000~9999), PCXXXX(XXXX represents 0000~9999), PCXXXXY(XXXX represents 0000~9999; Y represents A~Z), KW-PC7099X, KW-PC7099, KW-PCXXXXX(XXXX represents 0000~9999), KW-PCXXXX(XXXX represents 0000~9999)
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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	2.37dBm(Max)
Bluetooth Version	V 3.0
Modulation	GFSK, $\pi/4$ -DQPSK, 8DPSK
Number of channels	79
Hardware Version	PX6S706 REV:1.1
Software Version	F719-SG-2015-04-15
Antenna Designation	Integrated Antenna
Antenna Gain	1.0dBi
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 offsets are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5 µs. 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 (312.5 µs). 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: BRCPC7095ME** 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

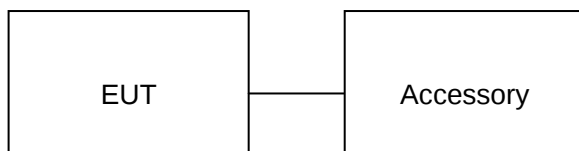
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel $\pi/4$ -DQPSK
5	Middle channel $\pi/4$ -DQPSK
6	High channel $\pi/4$ -DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	Normal Hopping
Note: 1. All the test modes can be supply by Built-in Li-ion battery, only the result of the worst case was recorded in the report, if no other cases. 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.	

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	Note
1	tablet pc	PC7095ME	FCC ID: BRCPC7095ME	EUT
2	Adapter	JKY0212-0502000UL	5V/2A	Accessory
3	Battery	N/A	DC3.7V / 2800mAh	Accessory
4	Earphone	PC7095ME	N/A	Accessory
5	USB Cable	PC7095ME	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	Compliance Certification Services (Shenzhen) Inc.
Location	No.10-1 Mingkeda Logistics park, No.18, Huanguan South Rd.,Guan Lan Town, Baoan District, Shenzhen, China
Description	Test Firm Registration Number: 441872

TEST EQUIPMENT LIST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Power Probe	R&S	NRP-Z23	100323	07/25/2014	07/24/2015
RF attenuator	N/A	RFA20db	68	07/25/2014	07/24/2015
Spectrum Analyzer	Agilent	E4440A	US41421290	02/17/2015	02/16/2016
Amplifier	EM	EM30180	0607030	02/17/2015	02/16/2016
Horn Antenna	EM	EM-AH-10180	67	02/17/2015	02/16/2016
Horn Antenna	A.H. Systems Inc.	SAS-574	N/A	07/25/2014	07/24/2015
EMI Test Receiver	Rohde & Schwarz	ESCI	100694	07/25/2014	07/24/2015
WIDEBAND REQUENCY ANTENNA	SCHWARZBECK	VULB9168	26	08/16/2014	08/15/2015
LISN	R&S	ESH3-Z5	8389791009	07/25/2014	07/24/2015
Loop Antenna	A.H.	SAS-562B	SEL0097	05/10/2014	05/09/2015
Radiation Cable 1	Sat	RE1	R003	06/04/2014	06/03/2015
Radiation Cable 2	Sat	RE2	R002	06/04/2014	06/03/2015
Conduction Cable	Sat	CE1	C001	06/04/2014	06/03/2015

Radiated Emission Test Site 966(2)					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2015	03/01/2016
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	03/09/2015	03/08/2016
Amplifier	MITEQ	AM-1604-3000	1123808	03/18/2015	03/17/2016
High Noise Amplifier	Agilent	8449B	3008A01838	03/18/2015	03/17/2016
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	07/10/2014	07/09/2015
Bilog Antenna	SCHAFFNER	CBL6143	5082	03/01/2015	03/01/2016
Horn Antenna	SCHWARZBECK	BBHA9120	D286	03/01/2015	03/01/2016
Loop Antenna	COM-POWER	AL-130	121044	09/27/2014	09/26/2015
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/28/2015	02/27/2016
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	03/09/2015	03/08/2016
LISN(EUT)	ROHDE&SCHWARZ	ENV216	101543-WX	03/09/2015	03/08/2016
LISN	EMCO	3825/2	8901-1459	03/09/2015	03/08/2016
Temp. / Humidity Meter	VICTOR	HTC-1	N/A	03/04/2015	03/03/2016
Test S/W	FARAD	EZ-EMC/ CCS-3A1-CE			

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. $RBW > \text{the 20 dB bandwidth of the emission being measured}$, $VBW \geq RBW$.
4. Record the maximum power from the Spectrum Analyzer.

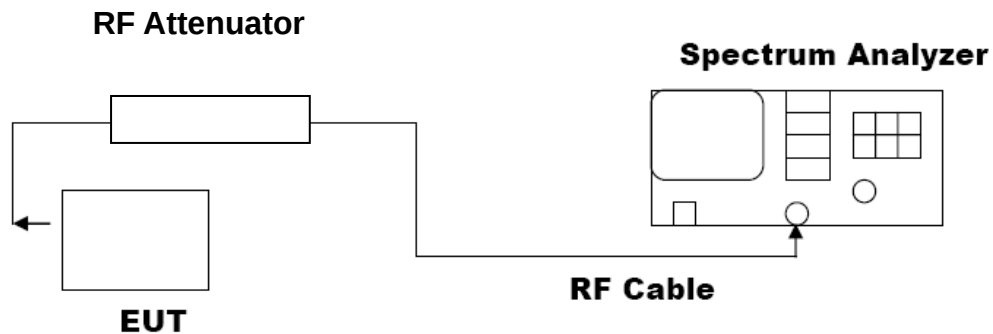
For average power test:

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).

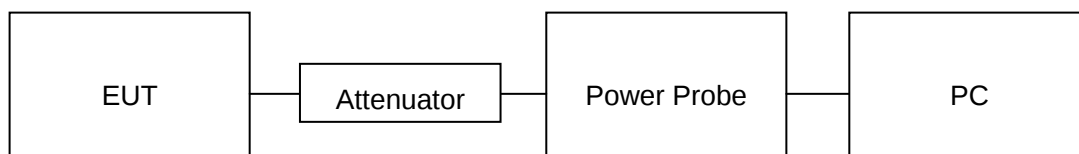
Note : The EUT was tested according to DA000705 for compliance to FCC 47CFR 15.247 requirements.

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

PEAK POWER TEST SETUP



AVERAGE POWER SETUP



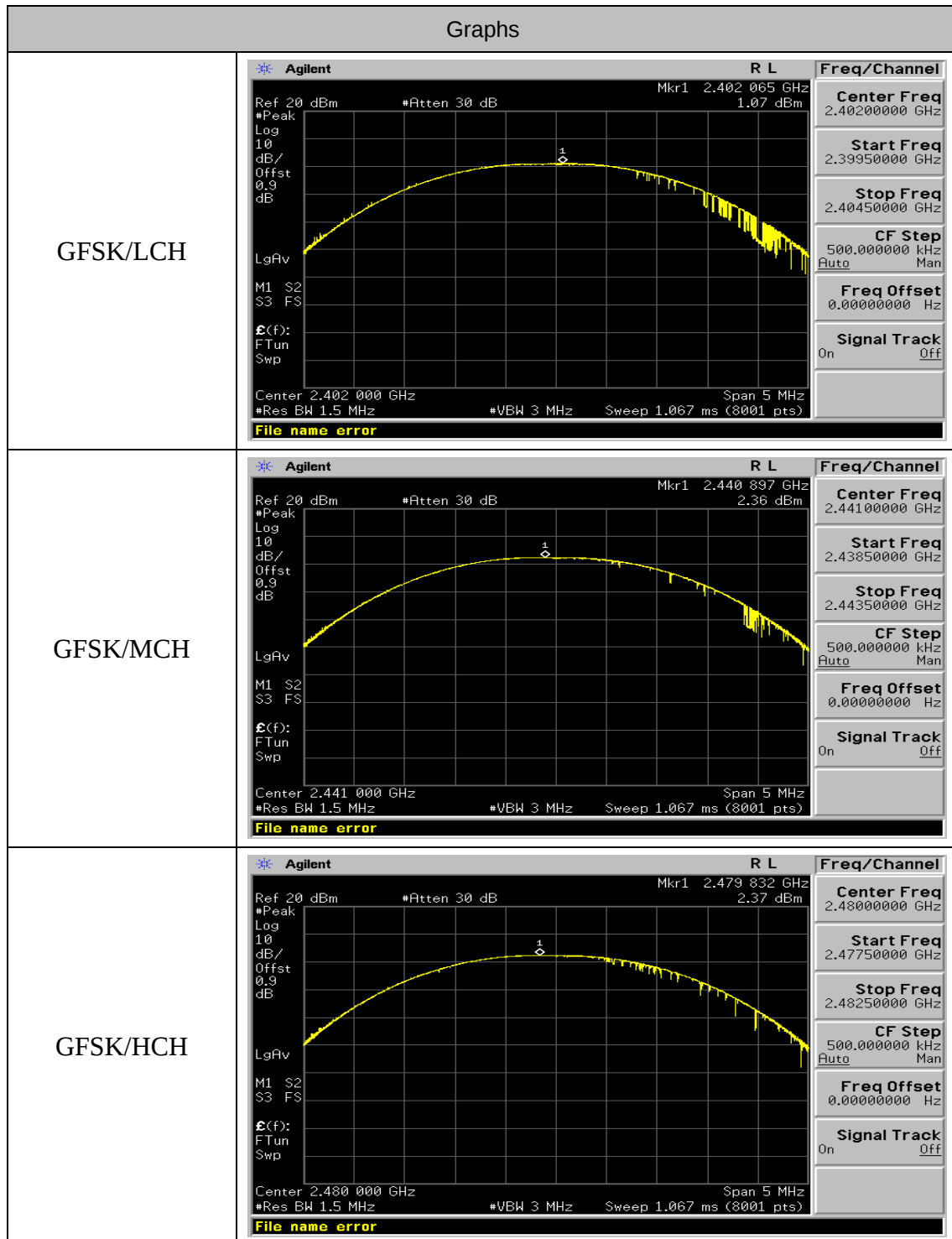
7.3. LIMITS AND MEASUREMENT RESULT

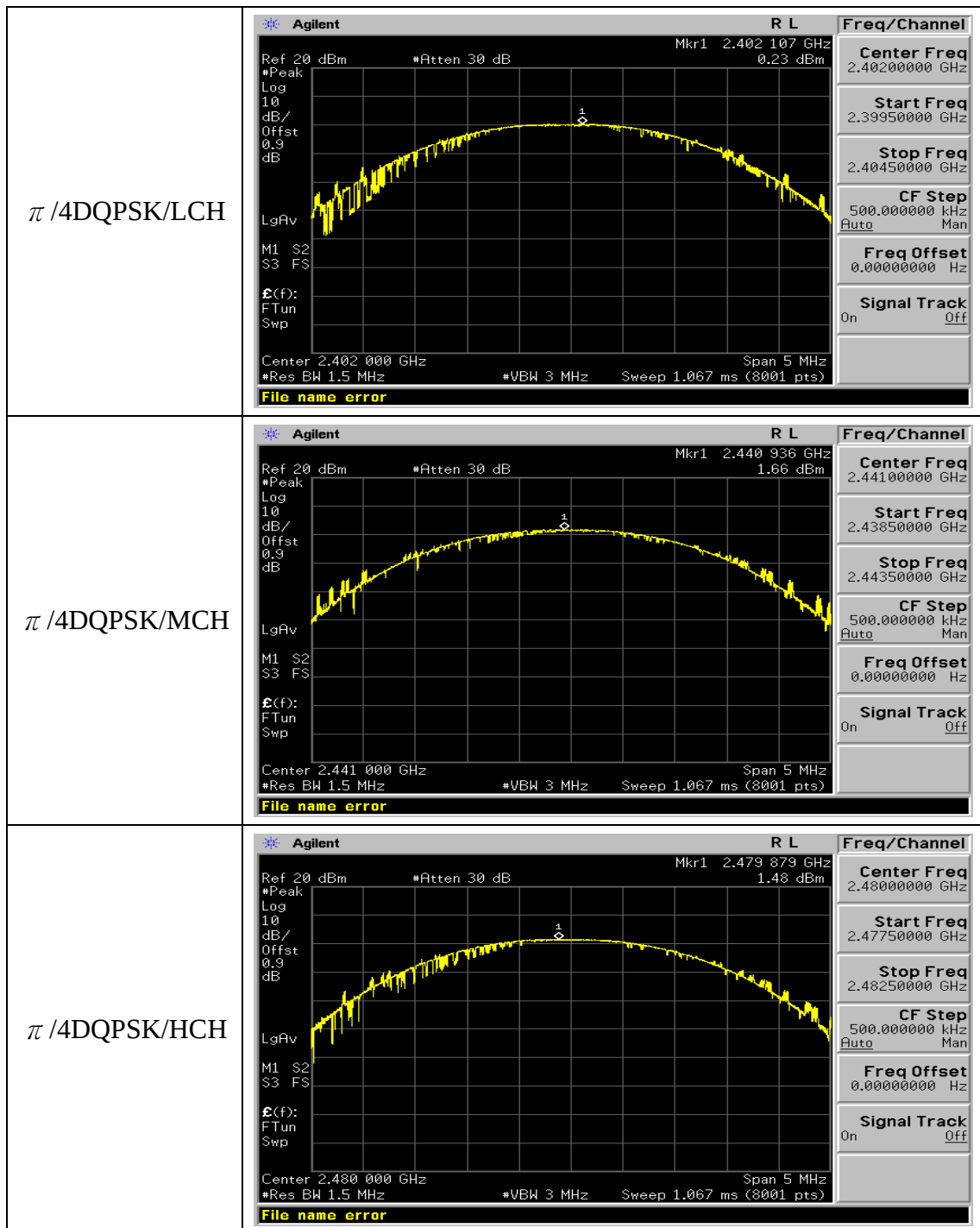
PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MODULATION				
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	-0.94	1.07	21	Pass
2.441	0.35	2.36	21	Pass
2.480	0.36	2.37	21	Pass

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	-1.78	0.23	21	Pass
2.441	-0.35	1.66	21	Pass
2.480	-0.53	1.48	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	-1.73	0.28	21	Pass
2.441	-0.33	1.68	21	Pass
2.480	-0.52	1.49	21	Pass

Test Graph





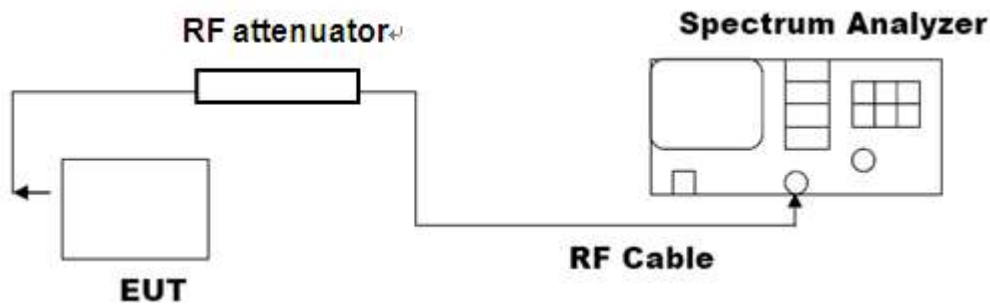
8DPSK/LCH	Agilent R L Freq/Channel Ref 20 dBm *Atten 30 dB Mkr1 2.402 109 GHz 0.28 dBm Peak Log 10 dB/ Offst 0.9 dB LgAv M1 S2 S3 FS $\mathcal{E}(f)$: FTun Swp Center 2.402 000 GHz Span 5 MHz #Res BW 1.5 MHz #VBW 3 MHz Sweep 1.067 ms (8001 pts) File name error Center Freq 2.40200000 GHz Start Freq 2.39950000 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 R L Freq/Channel Ref 20 dBm *Atten 30 dB Mkr1 2.440 879 GHz 1.68 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 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 R L Freq/Channel Ref 20 dBm *Atten 30 dB Mkr1 2.479 921 GHz 1.49 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 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.

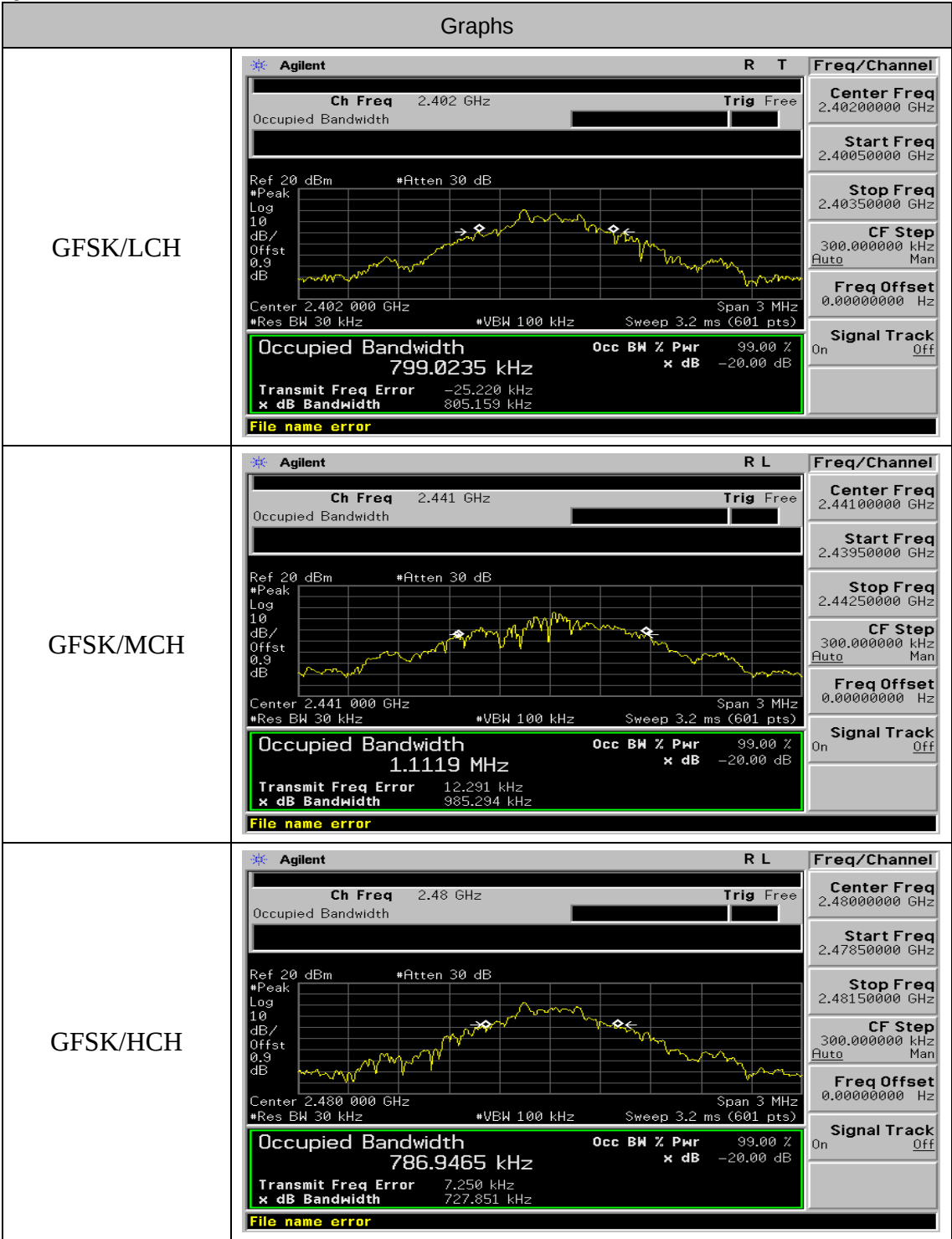
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

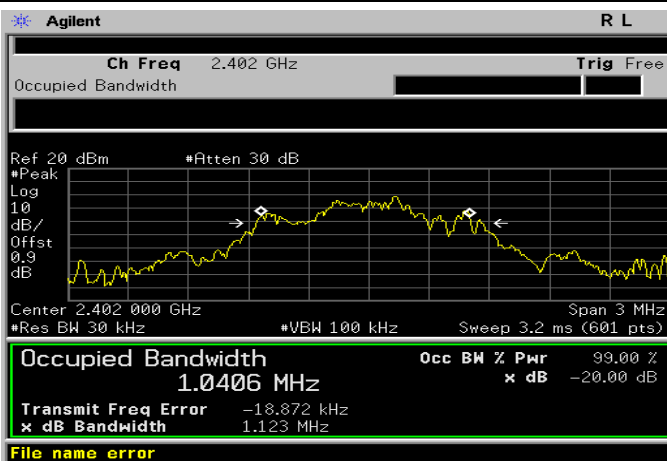
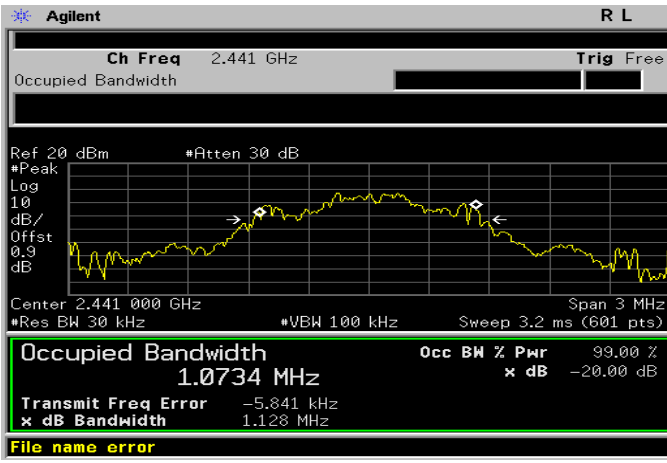
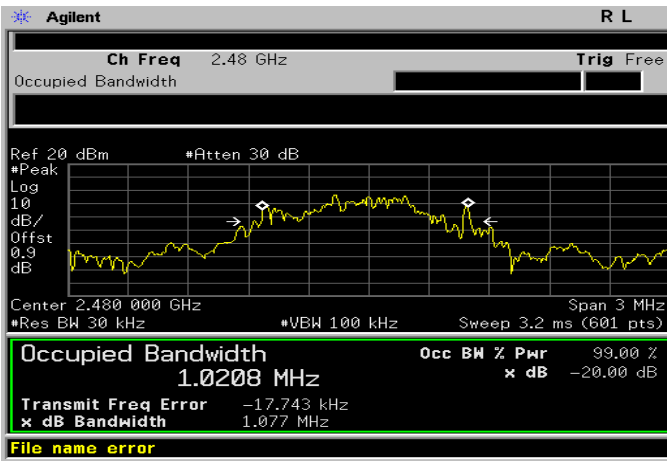


8.3. LIMITS AND MEASUREMENT RESULTS

Mode	Channel.	EBW [MHz]	OBW [MHz]	Verdict
GFSK	LCH	0.8052	0.7990	PASS
GFSK	MCH	0.9853	1.1119	PASS
GFSK	HCH	0.7279	0.7869	PASS
$\pi/4$ DQPSK	LCH	1.1230	1.0406	PASS
$\pi/4$ DQPSK	MCH	1.1275	1.0734	PASS
$\pi/4$ DQPSK	HCH	1.0773	1.0208	PASS
8DPSK	LCH	1.1551	1.0699	PASS
8DPSK	MCH	1.1625	1.0581	PASS
8DPSK	HCH	1.1308	1.1035	PASS

Test Graph



π /4DQPSK/LCH	 Agilent R L Freq/Channel Ch Freq 2.402 GHz Trig Free 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 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 1.0406 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -18.872 kHz x dB Bandwidth 1.123 MHz File name error
π /4DQPSK/MCH	 Agilent R L Freq/Channel Ch Freq 2.441 GHz Trig Free 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 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 1.0734 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -5.841 kHz x dB Bandwidth 1.128 MHz File name error
π /4DQPSK/HCH	 Agilent R L Freq/Channel Ch Freq 2.48 GHz Trig Free 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 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 1.0208 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -17.743 kHz x dB Bandwidth 1.077 MHz File name error

8DPSK/LCH	Agilent R L Freq/Channel 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 *Res BW 30 kHz *VBW 100 kHz Sweep 3.2 ms (601 pts) Span 3 MHz Occupied Bandwidth 1.0699 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -6.886 kHz x dB Bandwidth 1.155 MHz File name error 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
8DPSK/MCH	Agilent R L Freq/Channel 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 *Res BW 30 kHz *VBW 100 kHz Sweep 3.2 ms (601 pts) Span 3 MHz Occupied Bandwidth 1.0581 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error 38.183 Hz x dB Bandwidth 1.162 MHz File name error 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
8DPSK/HCH	Agilent R L Freq/Channel 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 *Res BW 30 kHz *VBW 100 kHz Sweep 3.2 ms (601 pts) Span 3 MHz Occupied Bandwidth 1.1035 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -11.443 kHz x dB Bandwidth 1.131 MHz File name error 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

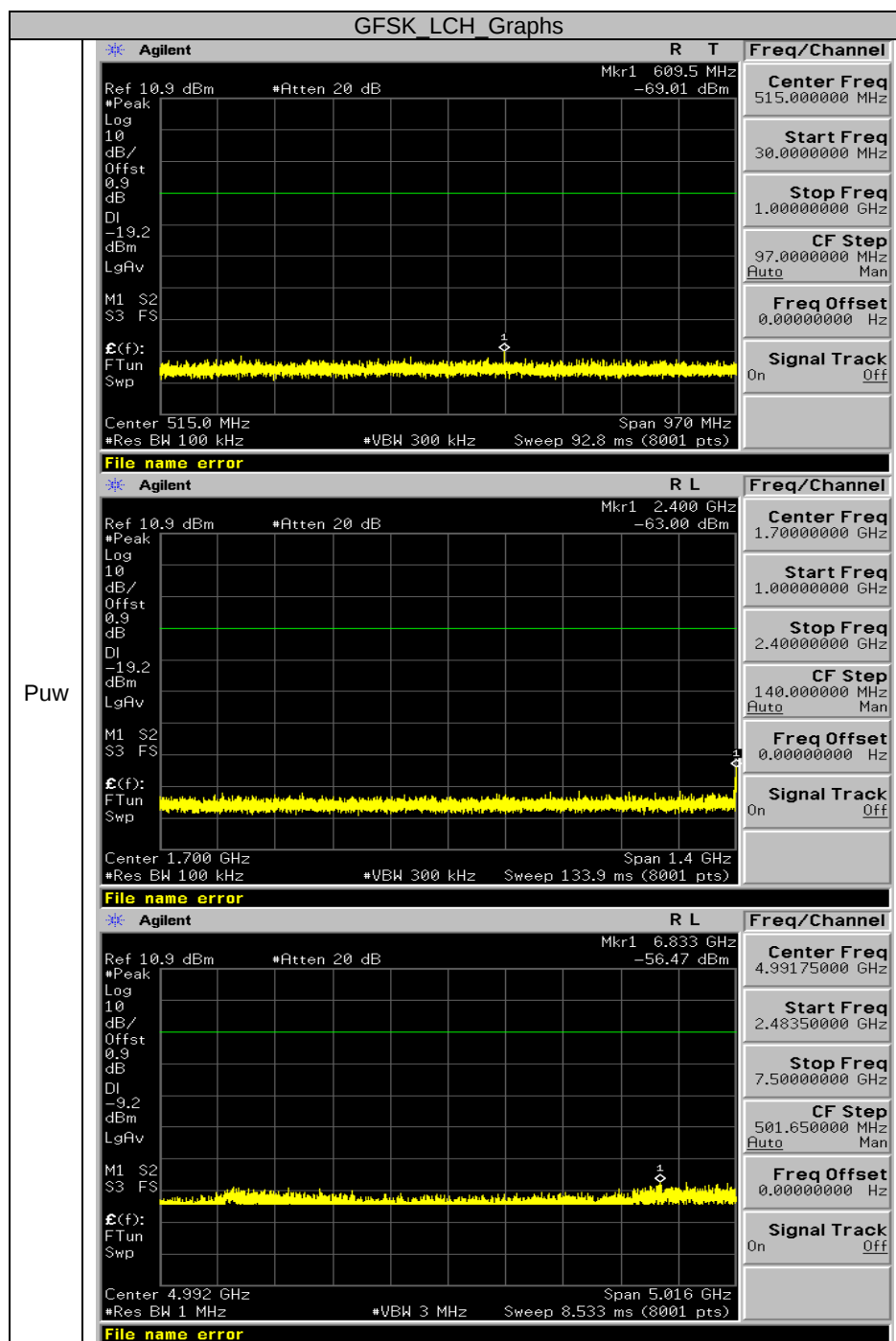
9.3. MEASUREMENT EQUIPMENT USED

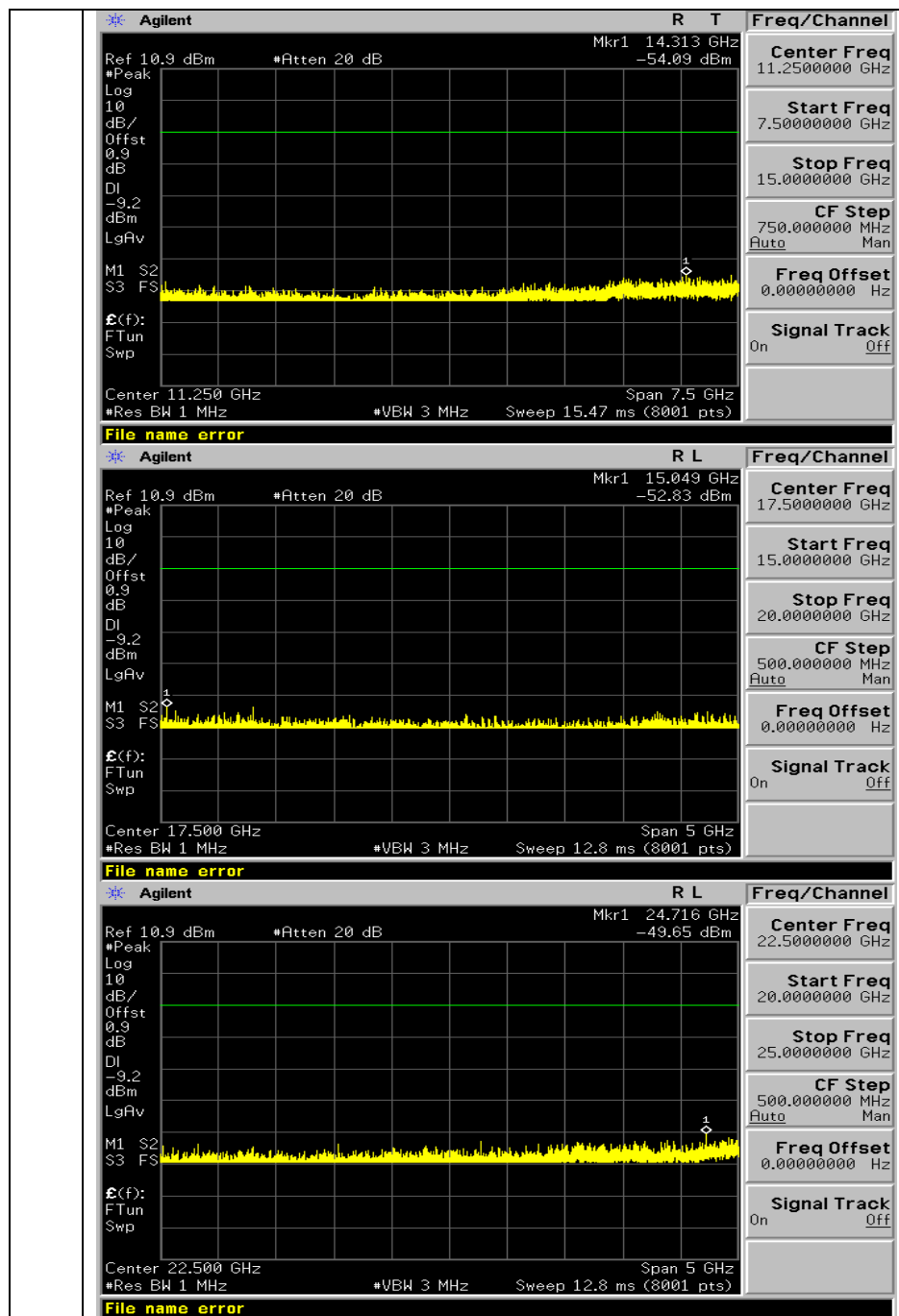
The same as described in section 6

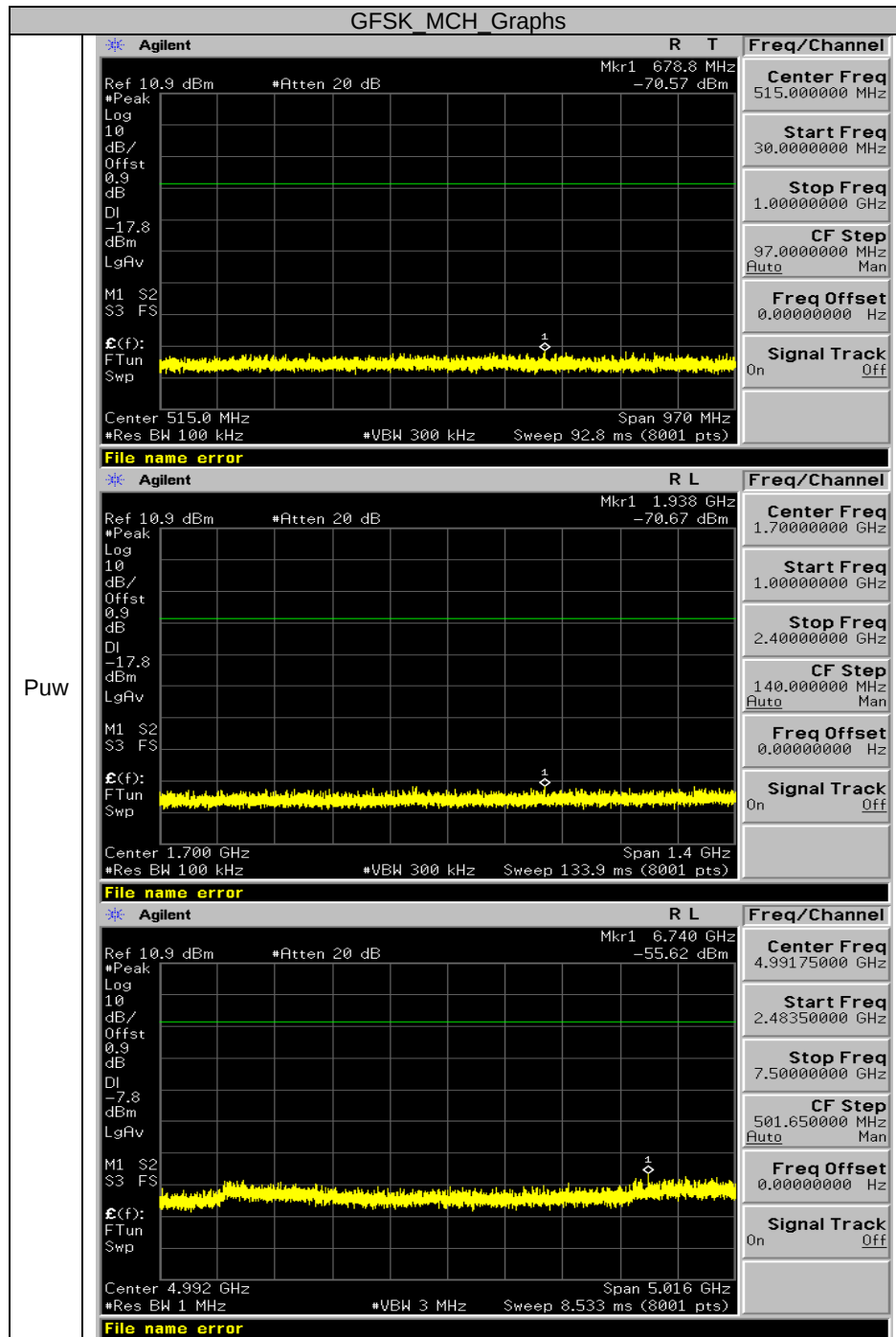
9.4. LIMITS AND MEASUREMENT RESULT

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

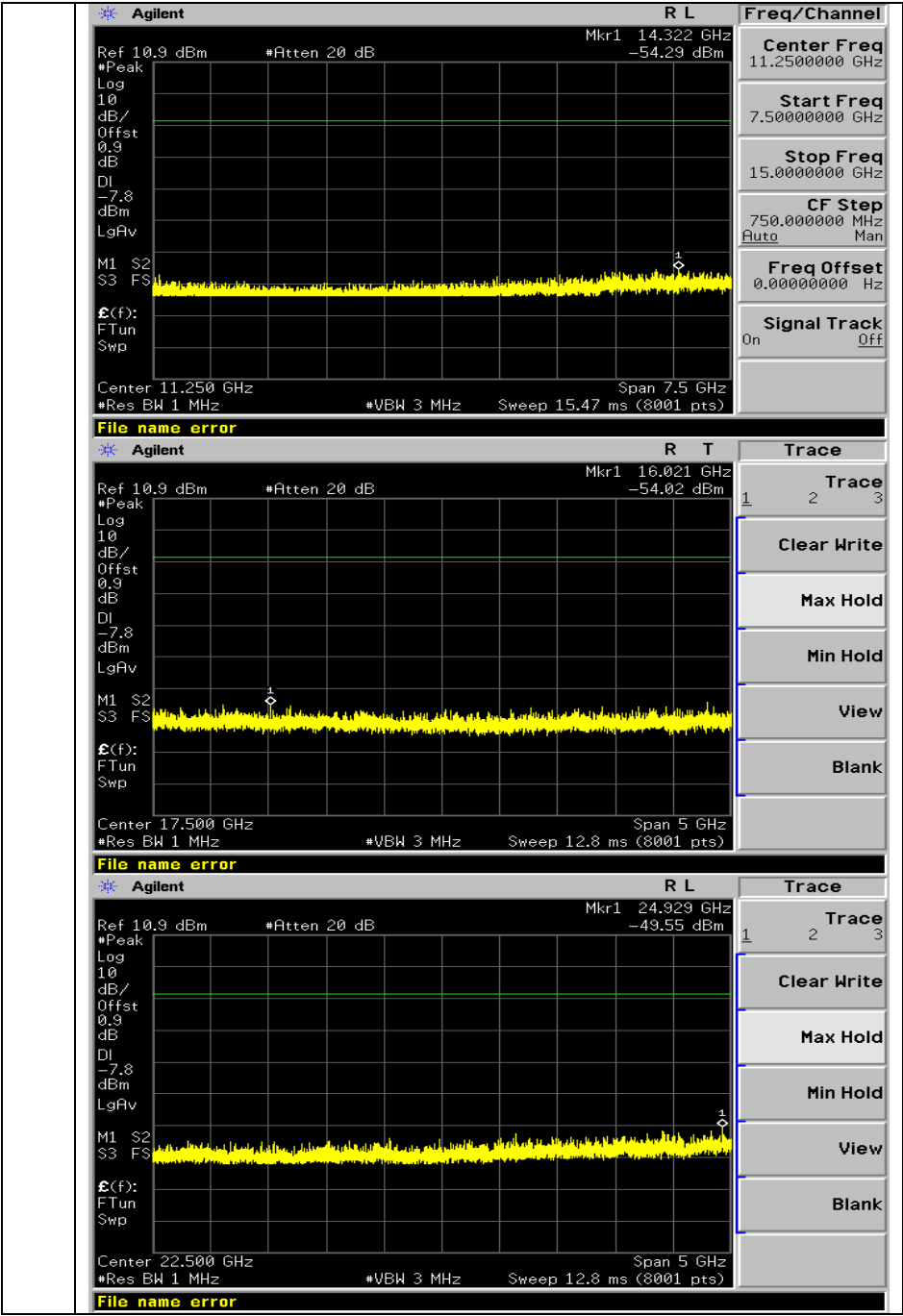
Test Graph

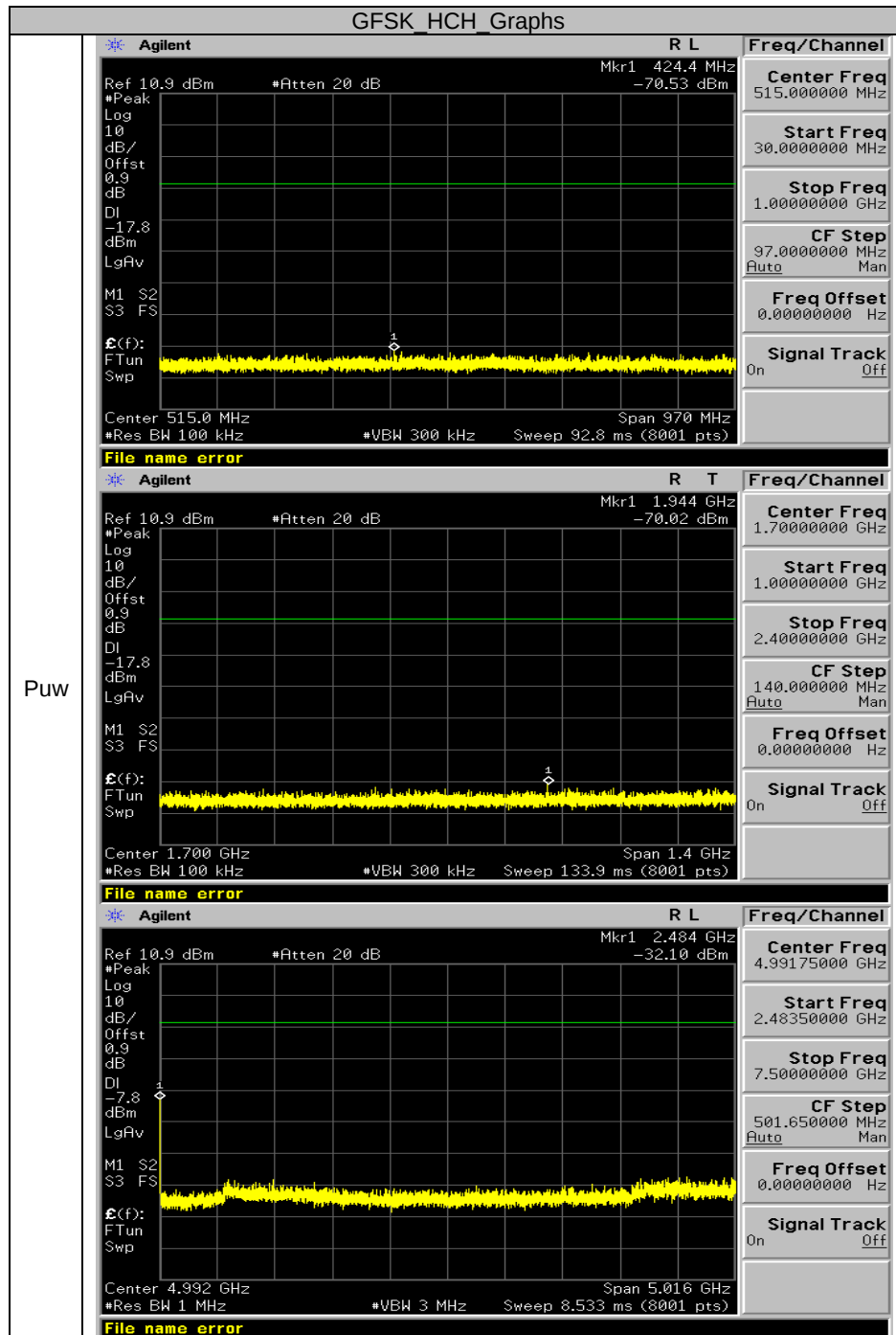


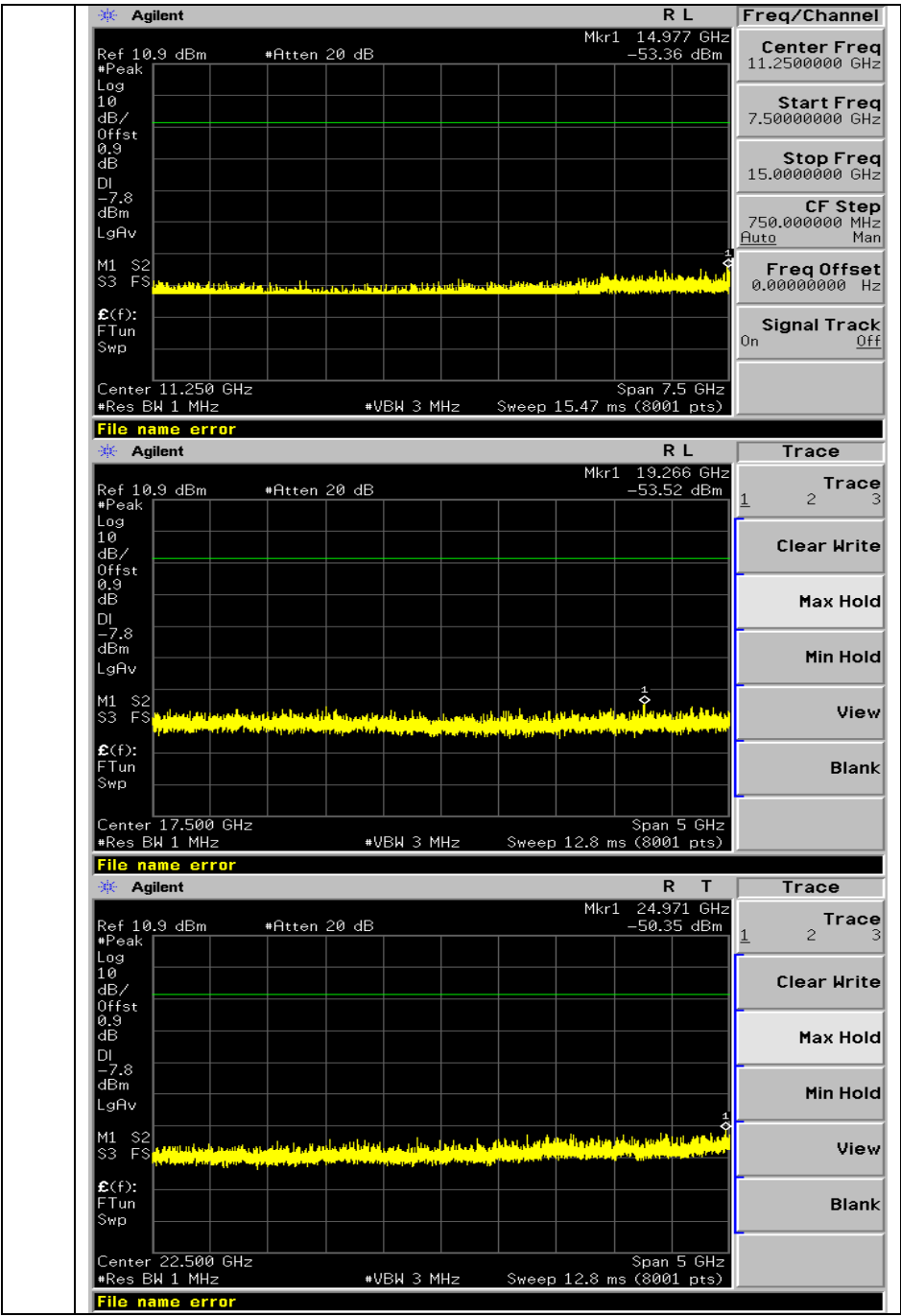


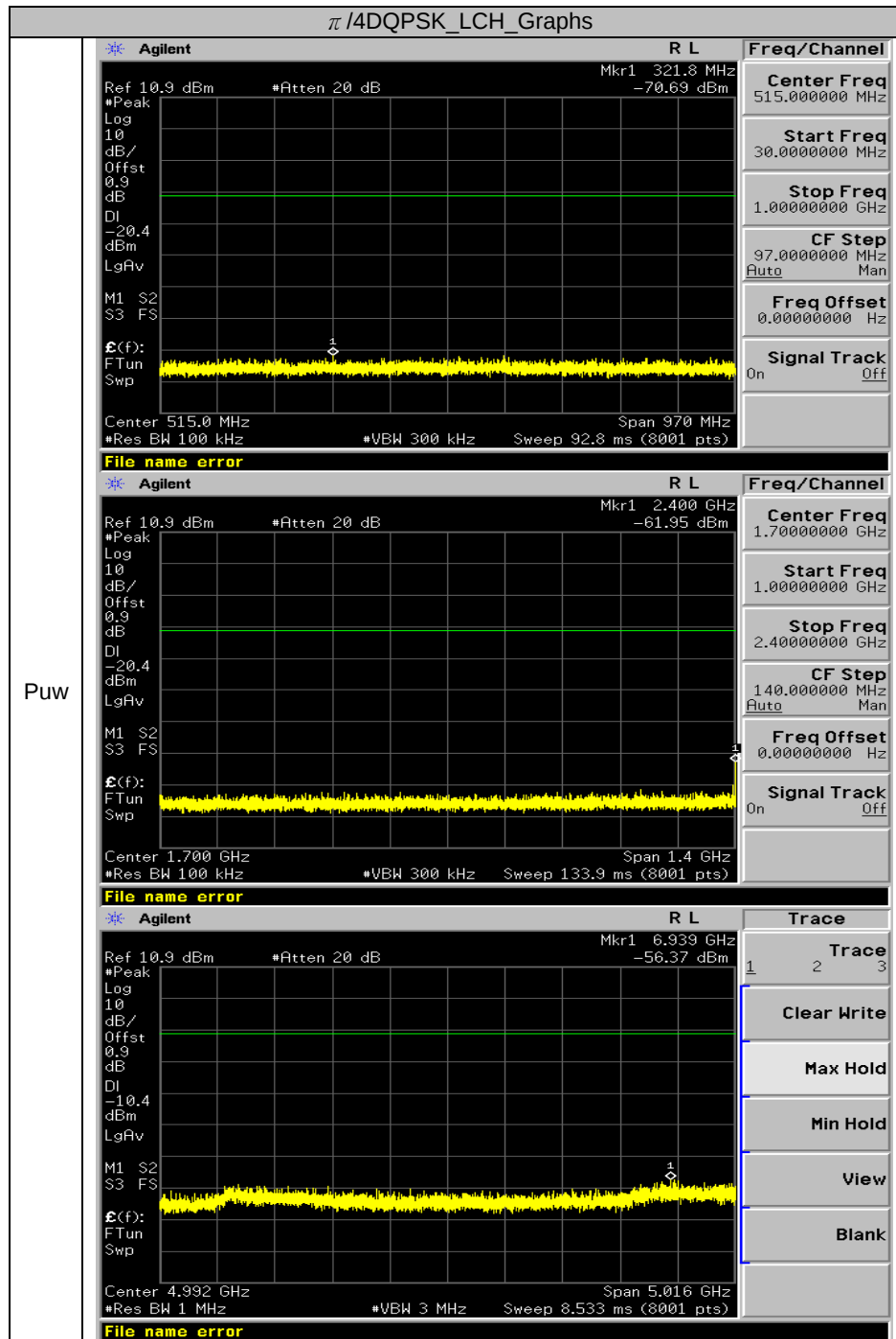


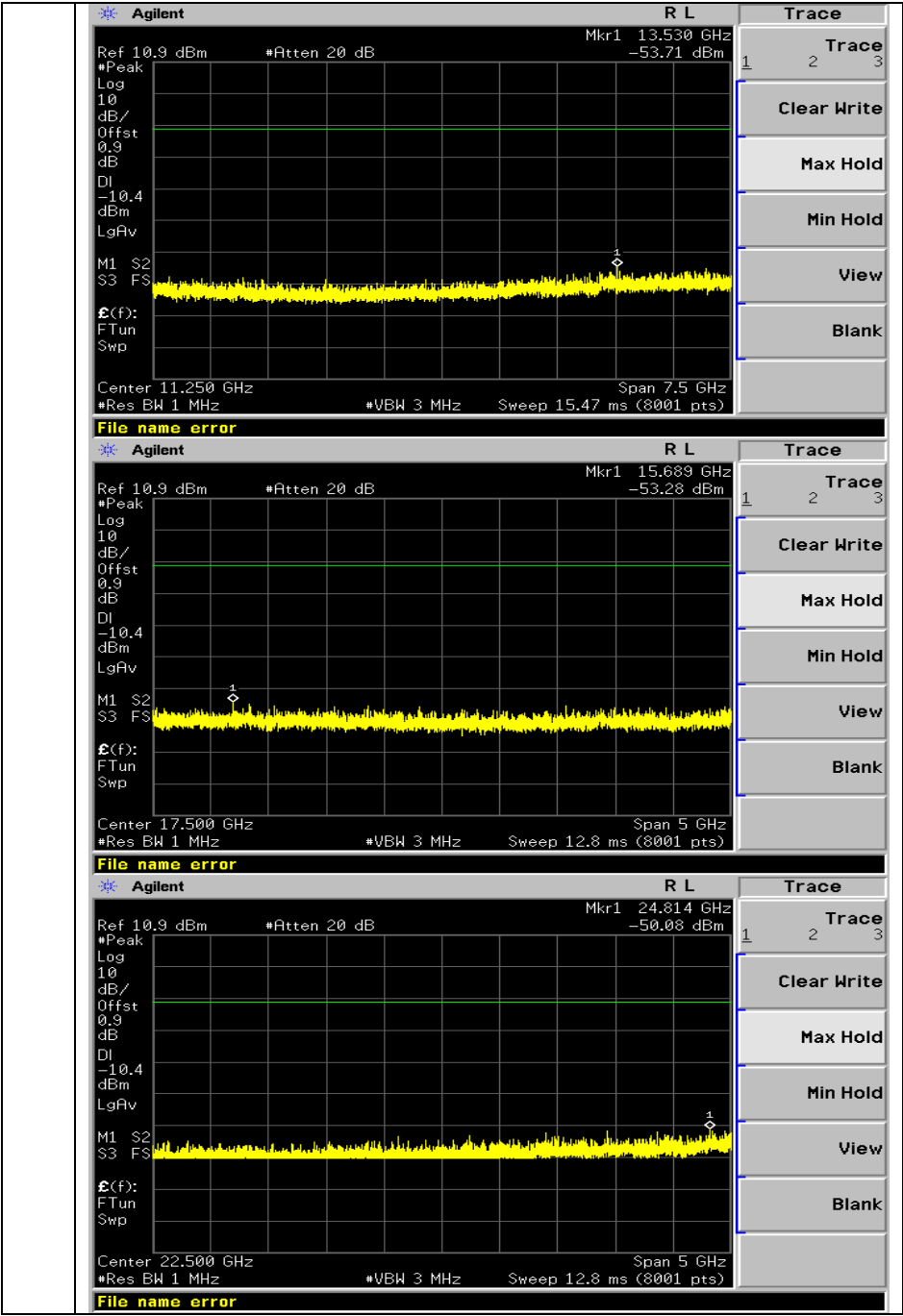
PUW

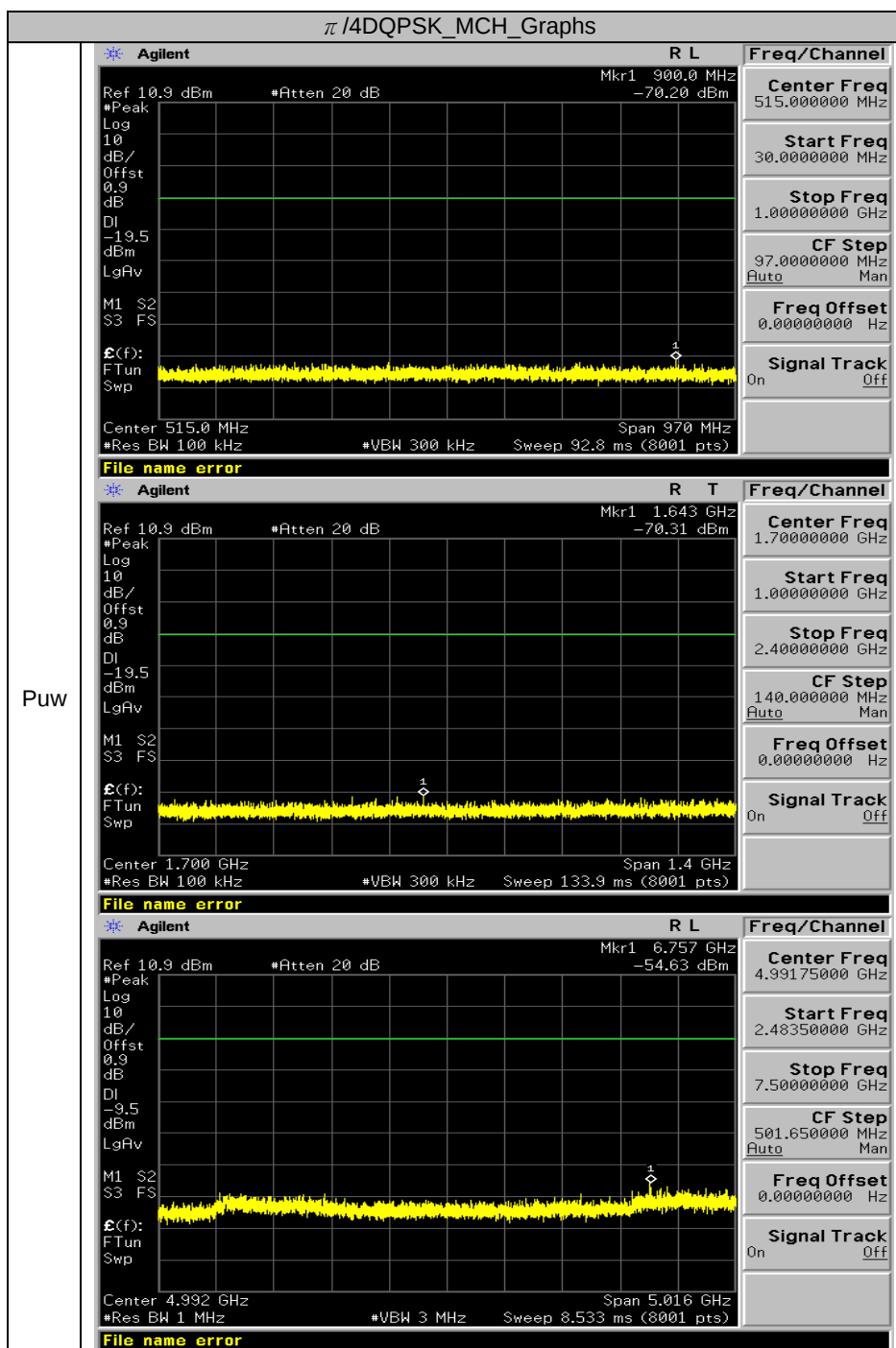


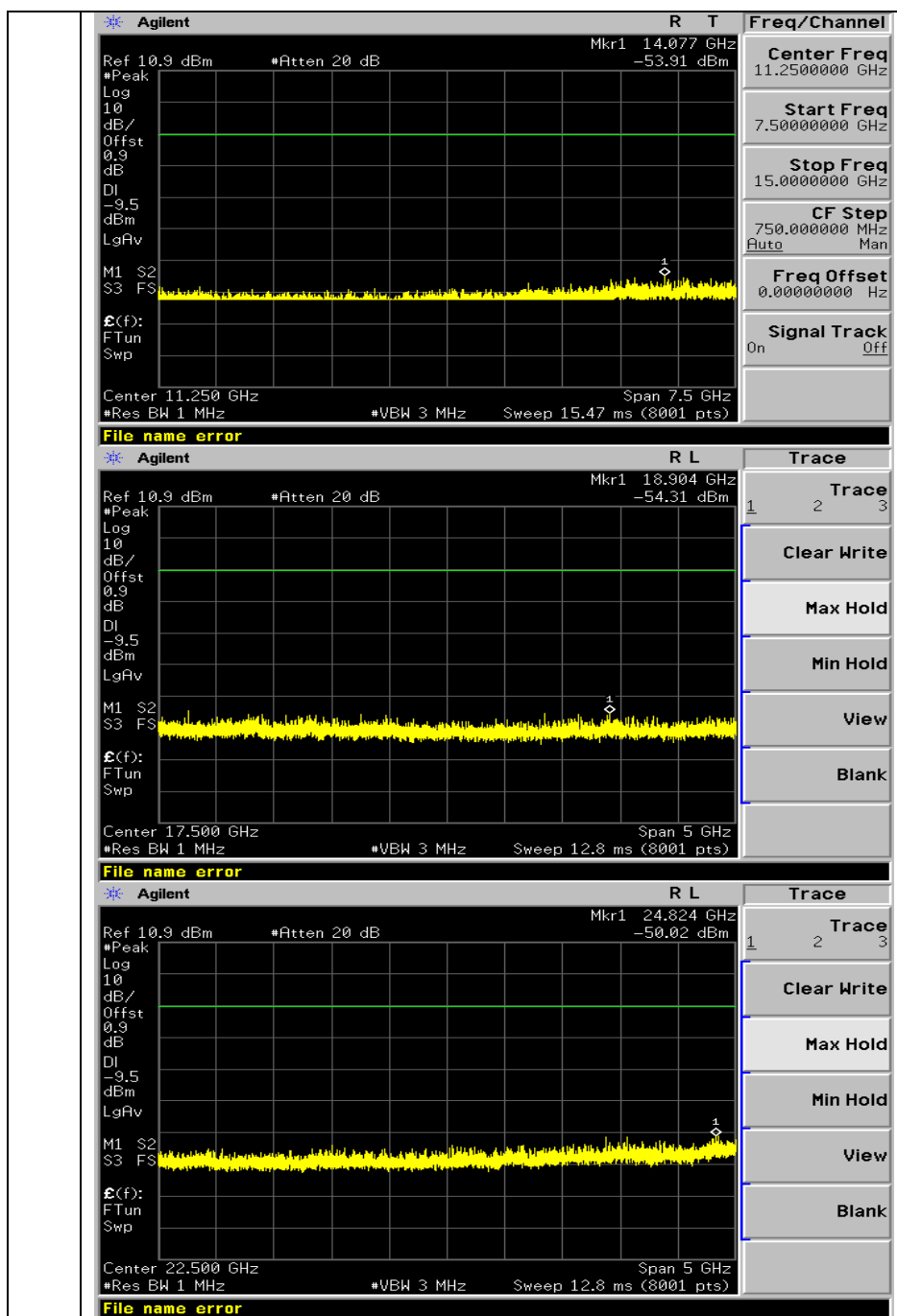




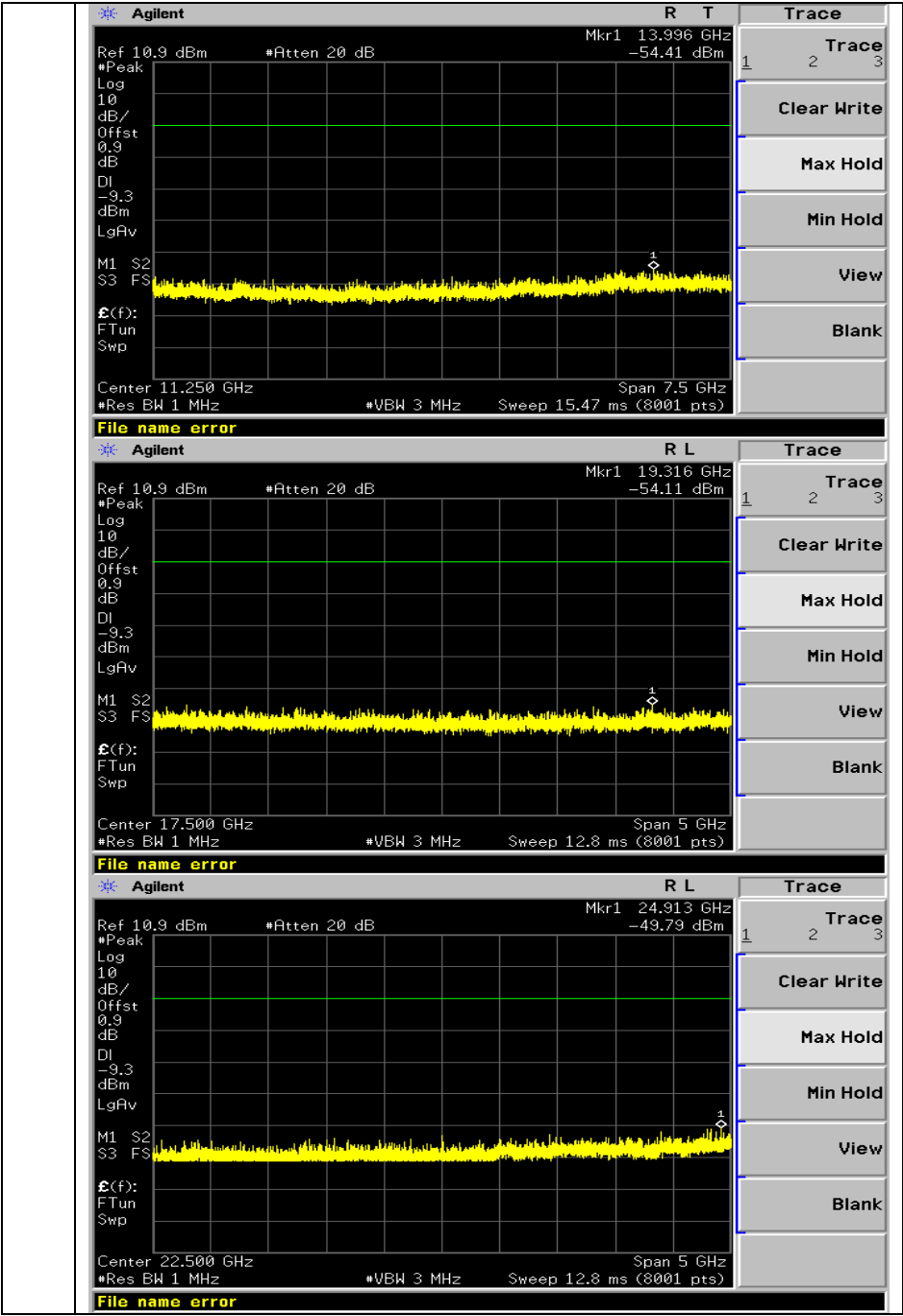


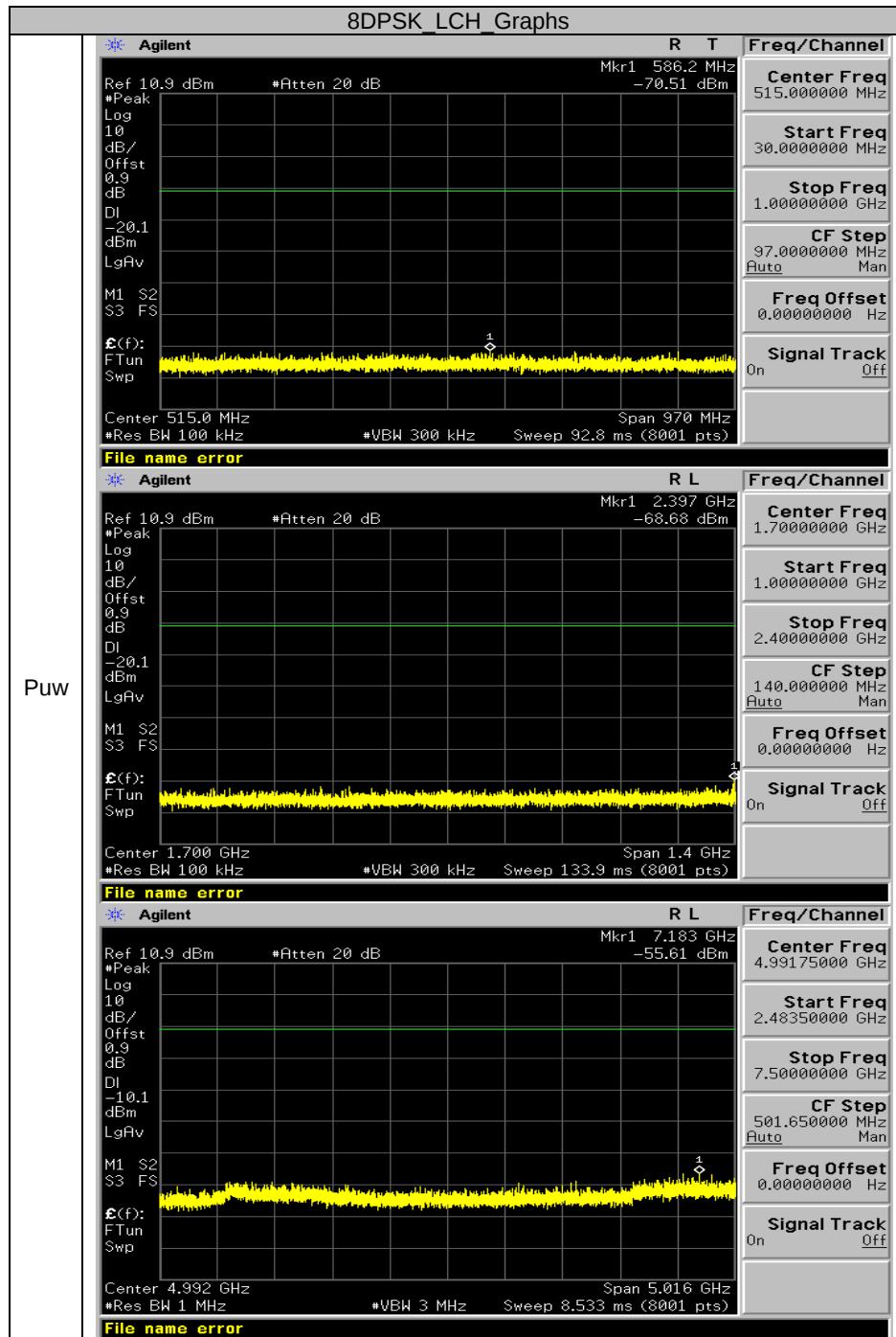


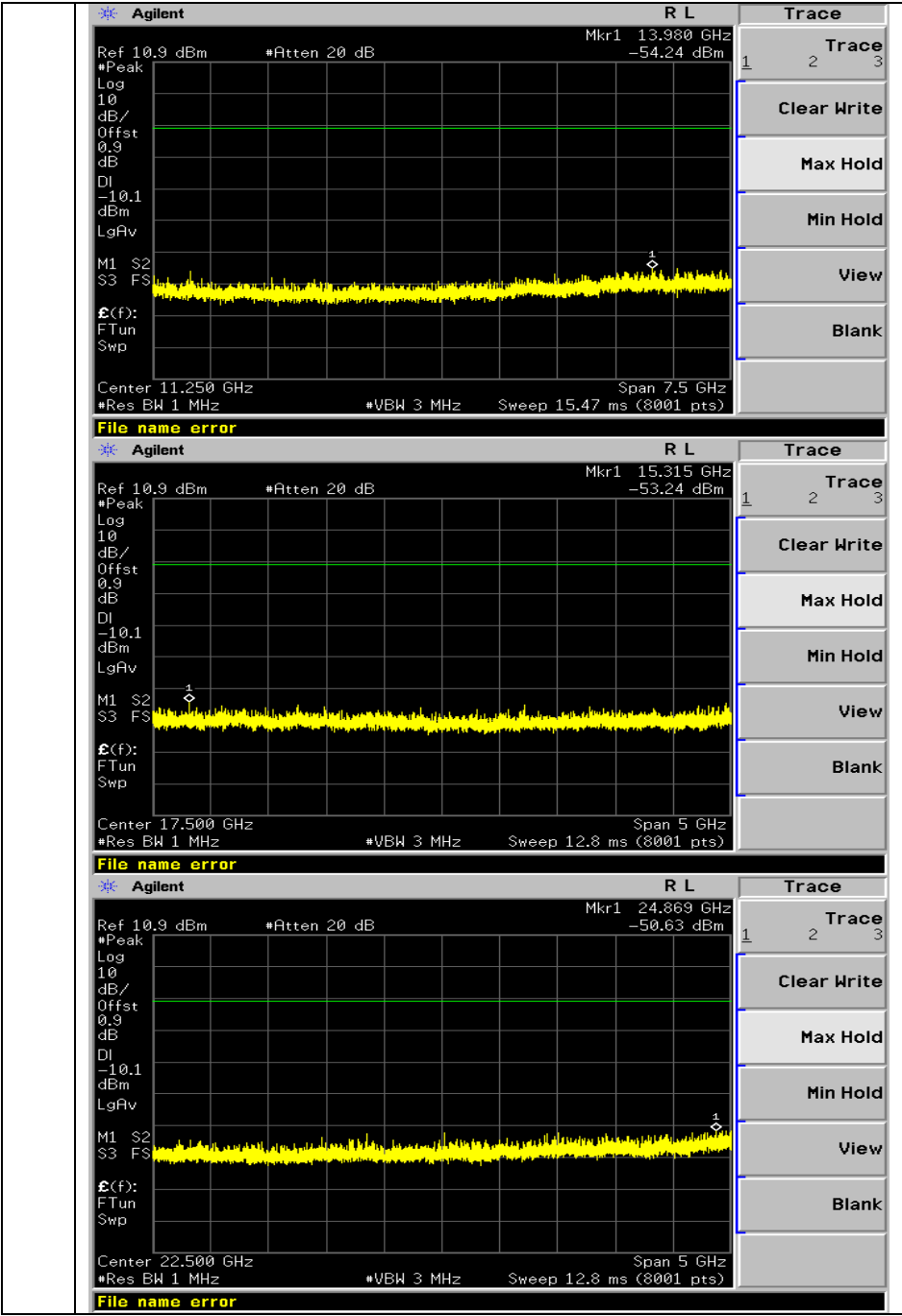












Agilent

Ref 10.9 dBm

*Atten 20 dB

Mkr1 24.869 GHz

-50.63 dBm

#Peak

Log

10

dB/

Offst

0.9

dB

DI

-10.1

dBm

LgAv

M1 S2

S3 FS

$\mathcal{E}(f)$:

FTun

Swp

Center 22.500 GHz

*Res BW 1 MHz

*VBW 3 MHz

Sweep 12.8 ms (8001 pts)

Span 5 GHz

Trace

1 2 3

Trace

Clear Write

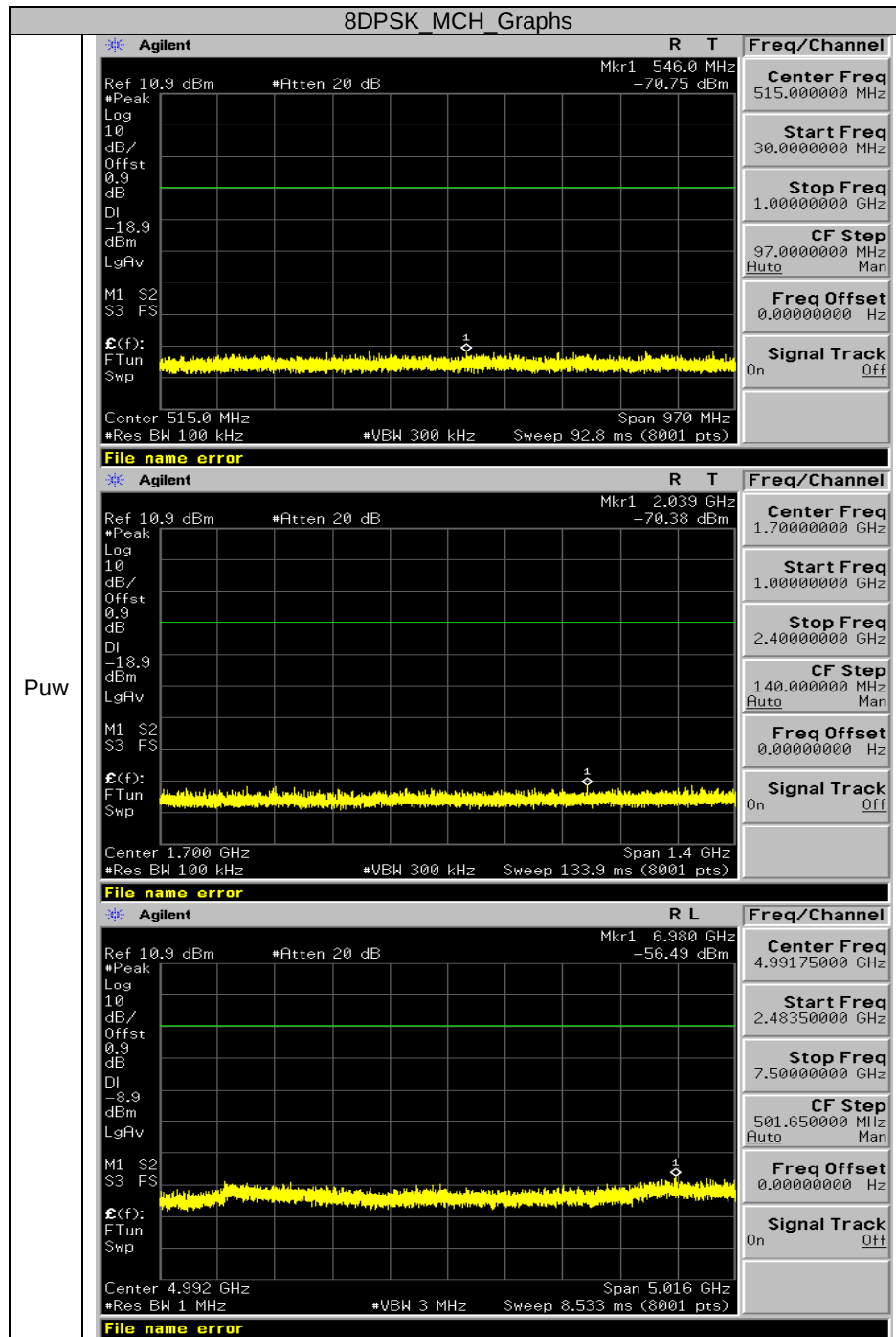
Max Hold

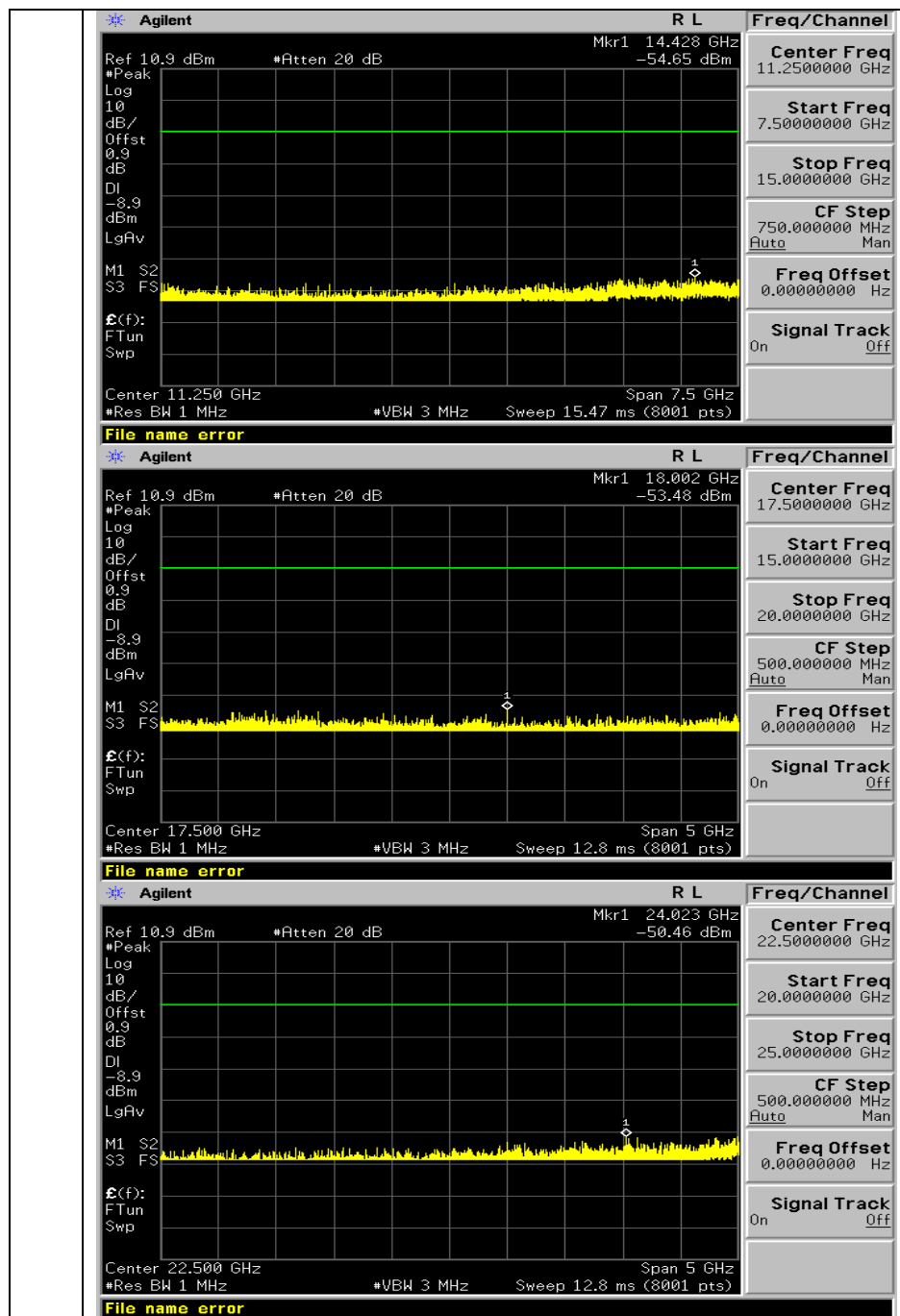
Min Hold

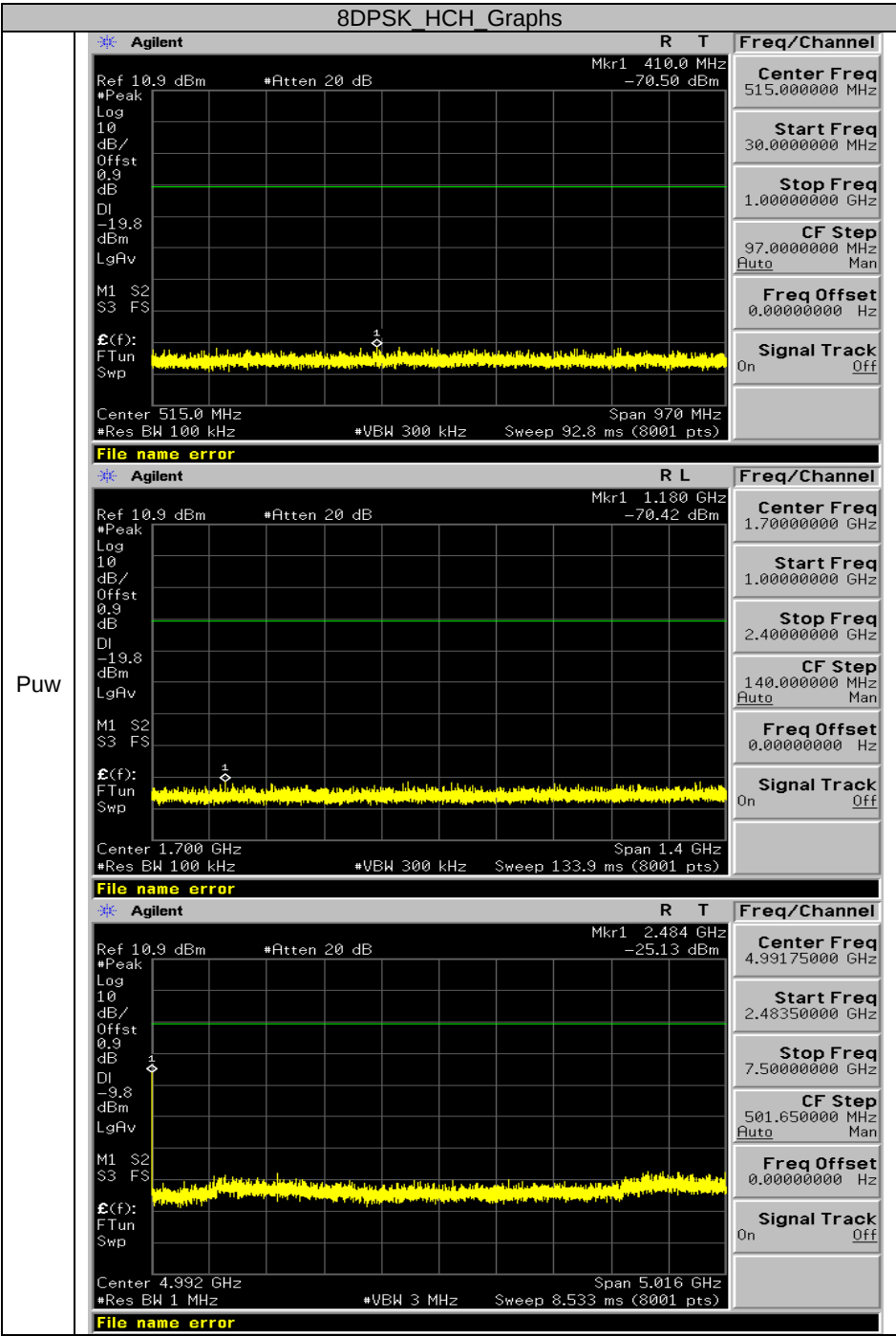
View

Blank

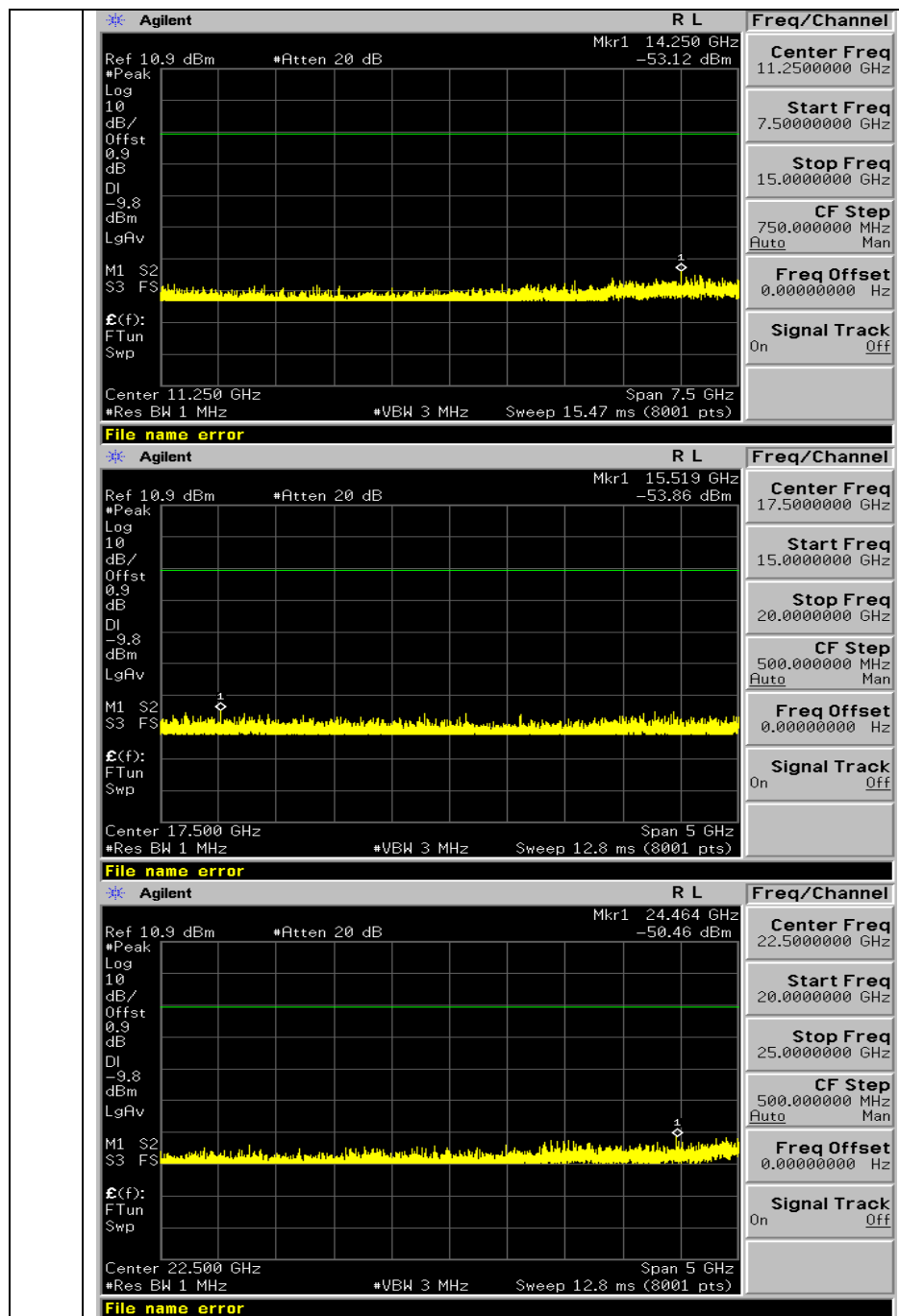
File name error







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.

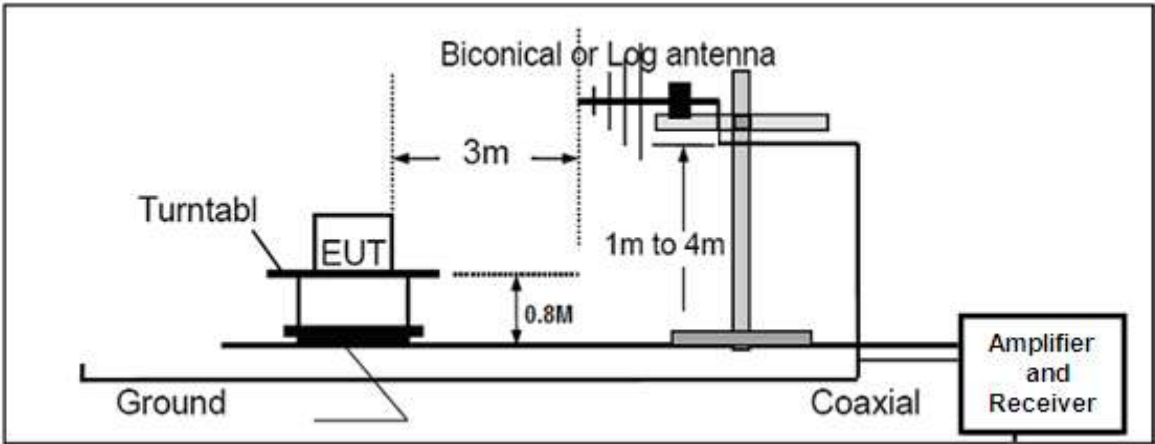
The following table is the setting of spectrum analyzer and receiver.

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

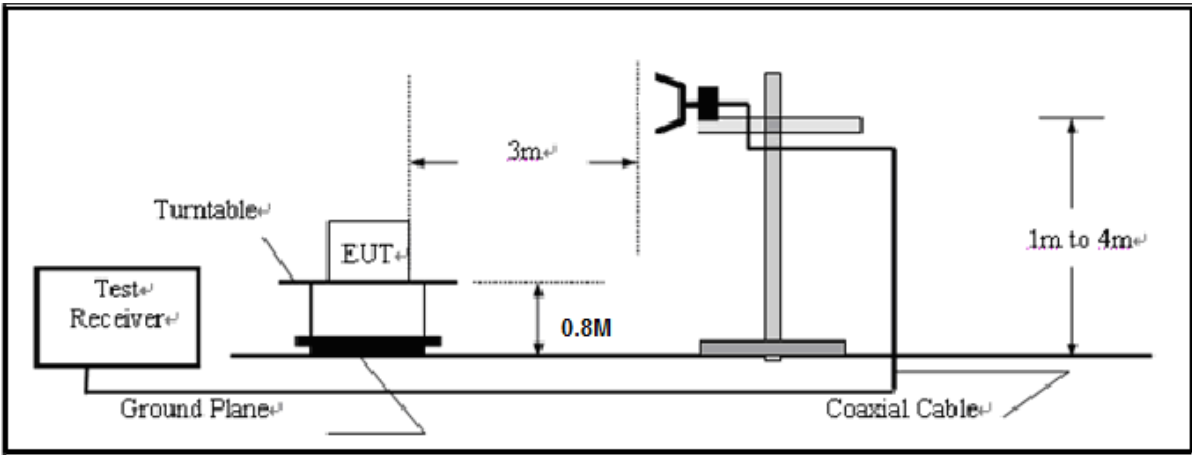
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

10.2. TEST SETUP

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz

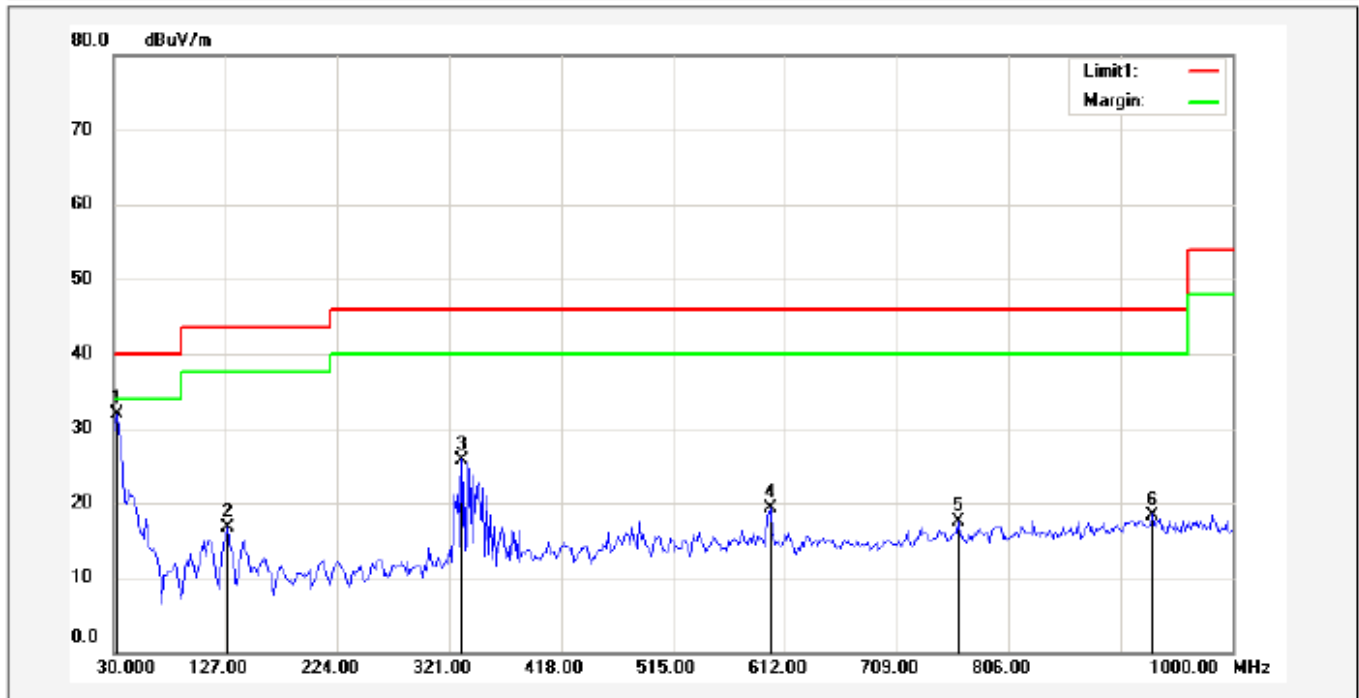


10.3. TEST RESULT**RADIATED EMISSION BELOW 30MHZ**

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

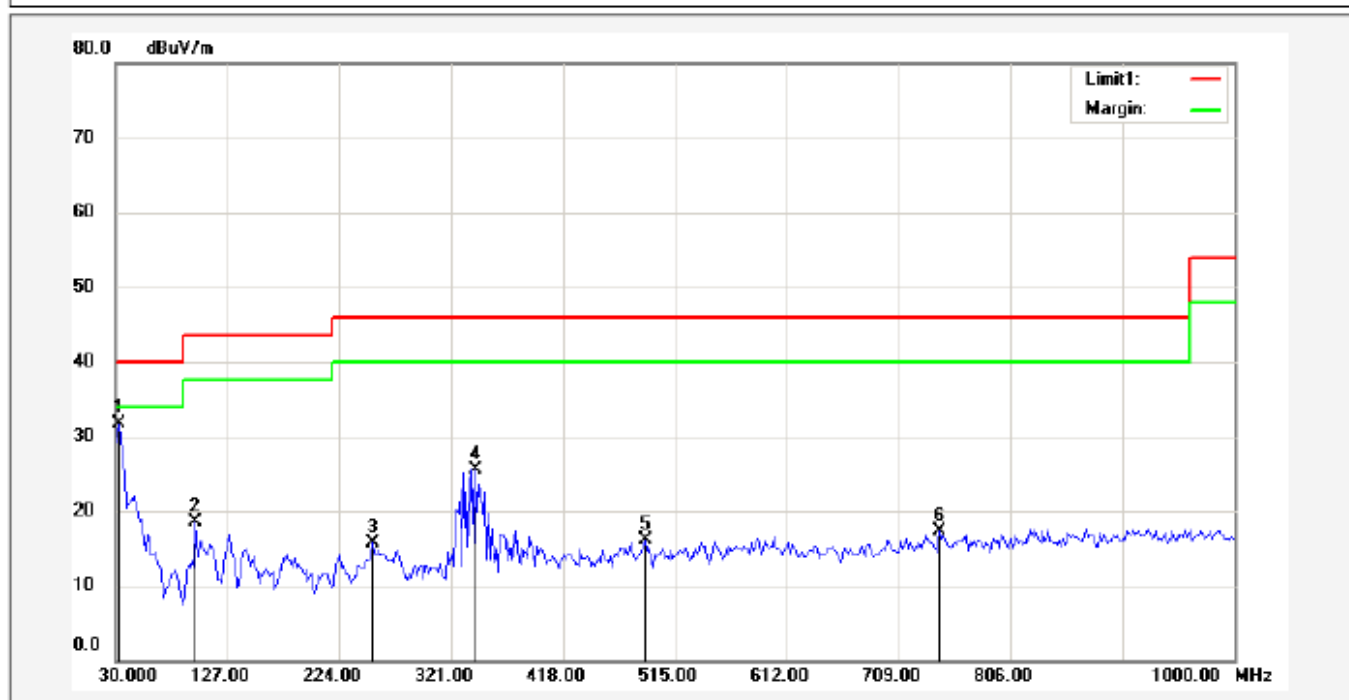
RADIATED EMISSION BELOW 1GHZ

Job No.: 20150422	Probe : Horizontal
Standard: FCC Part15 Class B (30-1000MHz)	Tested Distance: 3m
Test item: Radiation Test	Power Source: DC 3V
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2015-4-22 Time: 17:07:01
Company:	EUT:
Model: PC7095ME	Test By : JIMMY
Test Mode: BT 1M 2402	



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	33.2333	45.59	-13.64	31.95	40.00	-8.05	---	---	peak
2	128.6167	37.49	-20.80	16.69	43.50	-26.81	---	---	peak
3	332.3167	44.14	-18.34	25.80	46.00	-20.20	---	---	peak
4	599.0667	32.19	-12.89	19.30	46.00	-26.70	---	---	peak
5	762.3500	28.62	-11.05	17.57	46.00	-28.43	---	---	peak
6	930.4833	28.04	-9.64	18.40	46.00	-27.60	---	---	peak

Job No.: 20150422	Probe : Vertical
Standard: FCC Part15 Class B (30-1000MHz)	Tested Distance: 3m
Test item: Radiation Test	Power Source: DC 3V
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2015-4-22 Time: 17:05:47
Company:	EUT:
Model: PC7095ME	Test By : JIMMY
Test Mode: BT 1M 2402	

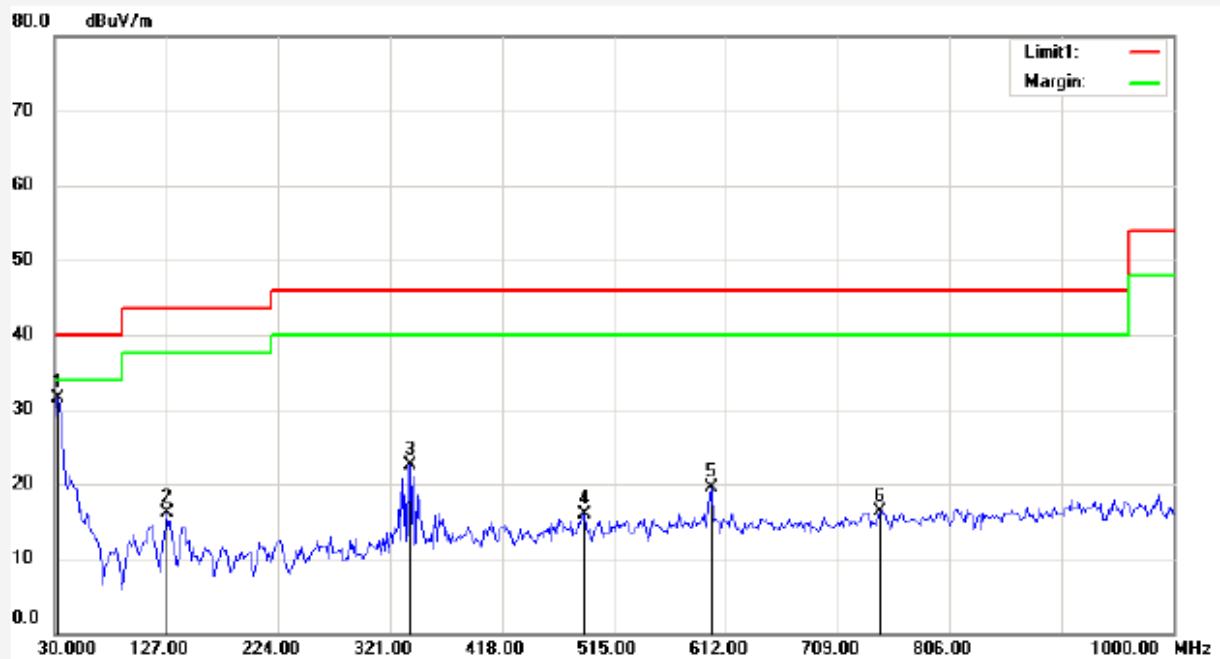


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	33.2333	45.44	-13.64	31.80	40.00	-8.20	---	---	peak
2	99.5167	42.14	-23.73	18.41	43.50	-25.09	---	---	peak
3	253.1000	36.37	-20.72	15.65	46.00	-30.35	---	---	peak
4	342.0167	43.65	-18.05	25.60	46.00	-20.40	---	---	peak
5	489.1333	30.46	-14.36	16.10	46.00	-29.90	---	---	peak
6	744.5667	28.55	-11.28	17.27	46.00	-28.73	---	---	peak

Job No.: 20150422
 Standard: FCC Part15 Class B (30-1000MHz)
 Test item: Radiation Test
 Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH
 Company:
 Model: PC7095ME

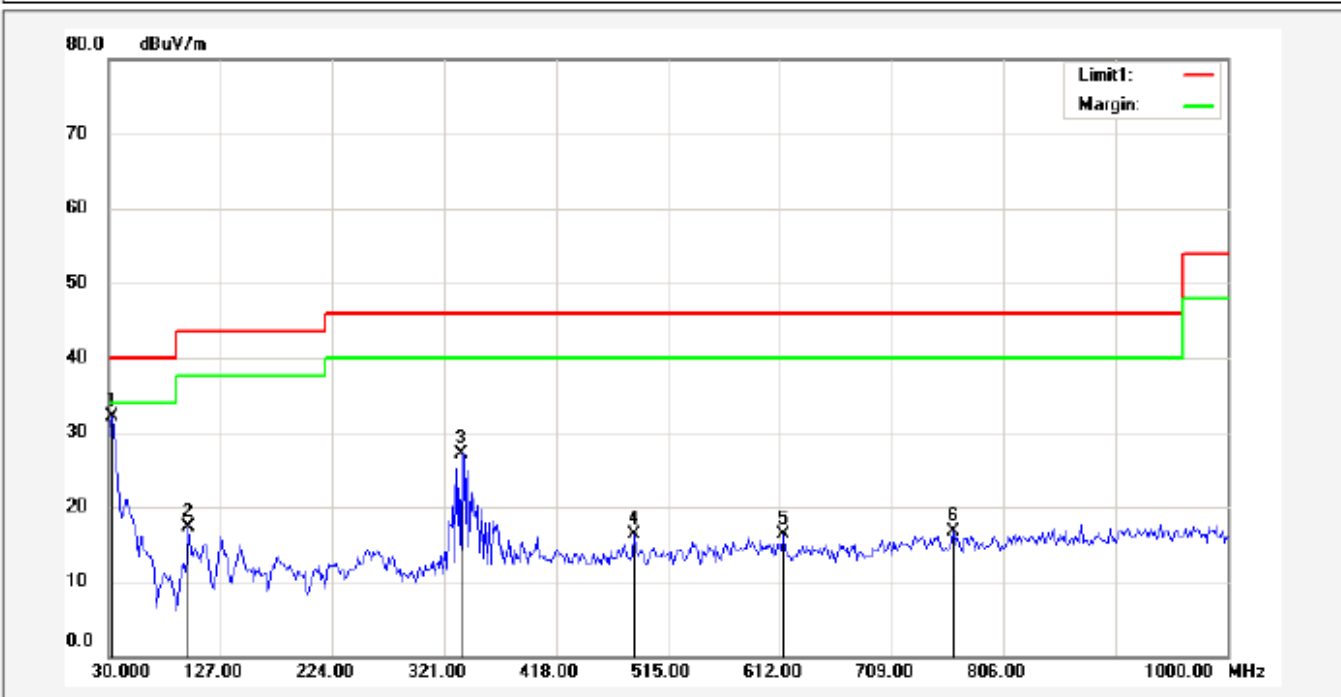
Probe : Horizontal
 Tested Distance: 3m
 Power Source: DC 3V
 Date: 2015-4-22 Time: 17:16:24
 EUT:
 Test By : JIMMY

Test Mode: BT 1M 2441



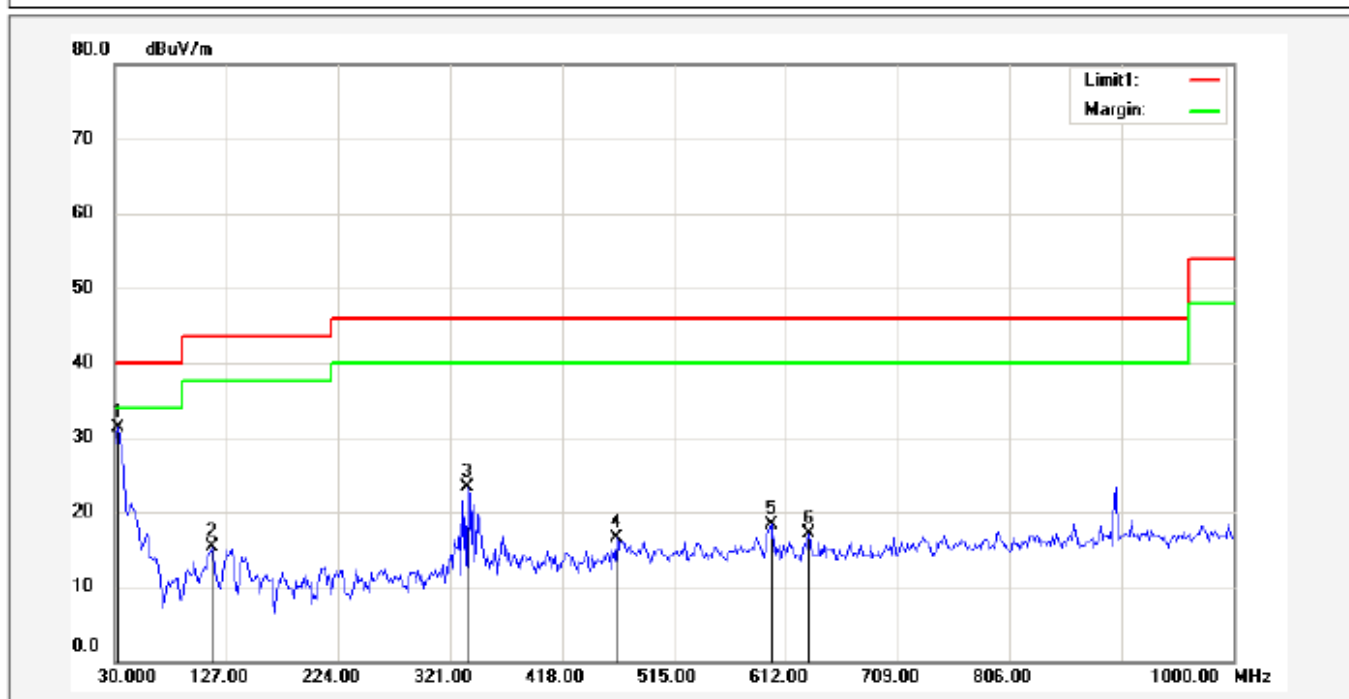
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	33.2333	45.08	-13.64	31.44	40.00	-8.56	---	---	peak
2	127.0000	36.99	-20.87	16.12	43.50	-27.38	---	---	peak
3	338.7833	40.75	-18.18	22.57	46.00	-23.43	---	---	peak
4	489.1333	30.18	-14.36	15.82	46.00	-30.18	---	---	peak
5	599.0667	32.34	-12.89	19.45	46.00	-26.55	---	---	peak
6	746.1833	27.52	-11.25	16.27	46.00	-29.73	---	---	peak

Job No.: 20150422	Probe : Vertical
Standard: FCC Part15 Class B (30-1000MHz)	Tested Distance: 3m
Test item: Radiation Test	Power Source: DC 3V
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2015-4-22 Time: 17:15:25
Company:	EUT:
Model: PC7095ME	Test By : JIMMY
Test Mode: BT 1M 2441	



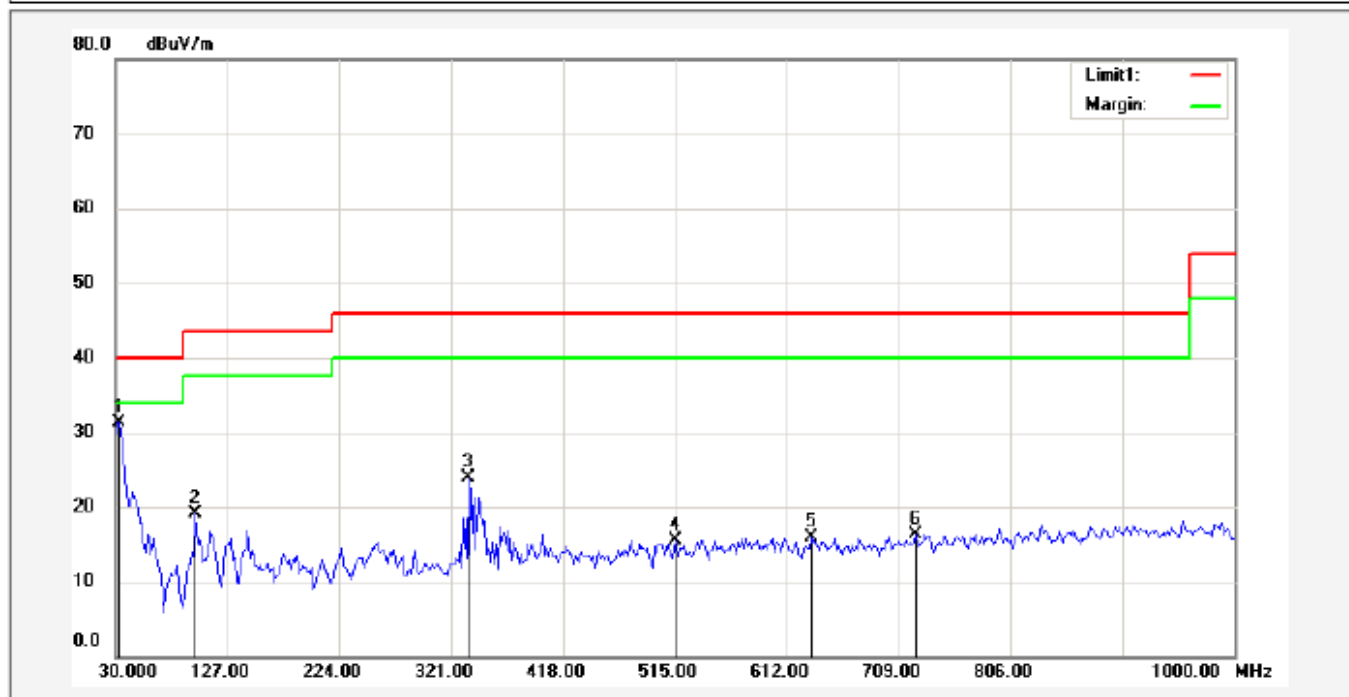
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	33.2333	45.70	-13.64	32.06	40.00	-7.94	---	---	peak
2	99.5167	40.95	-23.73	17.22	43.50	-26.28	---	---	peak
3	335.5500	45.29	-18.26	27.03	46.00	-18.97	---	---	peak
4	485.9000	30.69	-14.36	16.33	46.00	-29.67	---	---	peak
5	615.2333	29.09	-12.78	16.31	46.00	-29.69	---	---	peak
6	762.3500	27.76	-11.05	16.71	46.00	-29.29	---	---	peak

Job No.: 20150422	Probe : Horizontal
Standard: FCC Part15 Class B (30-1000MHz)	Tested Distance: 3m
Test item: Radiation Test	Power Source: DC 3V
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2015-4-22 Time: 17:17:46
Company:	EUT:
Model: PC7095ME	Test By : JIMMY
Test Mode: BT 1M 2480	



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	33.2333	44.99	-13.64	31.35	40.00	-8.65	---	---	peak
2	114.0667	36.93	-21.55	15.38	43.50	-28.12	---	---	peak
3	335.5500	41.47	-18.26	23.21	46.00	-22.79	---	---	peak
4	464.8833	31.38	-14.96	16.42	46.00	-29.58	---	---	peak
5	599.0667	31.10	-12.89	18.21	46.00	-27.79	---	---	peak
6	631.4000	29.52	-12.50	17.02	46.00	-28.98	---	---	peak

Job No.: 20150422	Probe : Vertical
Standard: FCC Part15 Class B (30-1000MHz)	Tested Distance: 3m
Test item: Radiation Test	Power Source: DC 3V
Temp.(C)/Hum.(%RH): 24 (C) / 52 %RH	Date: 2015-4-22 Time: 17:19:00
Company:	EUT:
Model: PC7095ME	Test By : JIMMY
Test Mode: BT 1M 2480	



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	33.2333	44.90	-13.64	31.26	40.00	-8.74	---	---	peak
2	99.5167	42.75	-23.73	19.02	43.50	-24.48	---	---	peak
3	335.5500	42.11	-18.26	23.85	46.00	-22.15	---	---	peak
4	515.0000	29.78	-14.19	15.59	46.00	-30.41	---	---	peak
5	633.0167	28.36	-12.49	15.87	46.00	-30.13	---	---	peak
6	723.5500	28.09	-11.77	16.32	46.00	-29.68	---	---	peak

RESULT: PASS

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

- The "Factor" value can be calculated automatically by software of measurement system.
- 30MHz~25GHz:(Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK, the worst casw is GFSK Mode)

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	66.28	-3.62	62.66	74	-11.34	Pk	Vertical
4804.272	47.37	-3.62	43.75	54	-10.25	AV	Vertical
7206.138	63.19	-0.9	62.29	74	-11.71	pk	Vertical
7206.156	42.83	-0.9	41.93	54	-12.07	AV	Vertical
4803.959	63.29	-3.64	59.65	74	-14.35	Pk	Horizontal
4803.964	45.77	-3.64	42.13	54	-11.87	AV	Horizontal
Mid Channel (2441 MHz)							
4882.128	66.69	-3.65	63.04	74	-10.96	Pk	Vertical
4882.094	51.27	-3.65	47.62	54	-6.38	AV	Vertical
7323.228	62.49	-0.82	61.67	74	-12.33	Pk	Vertical
7323.220	45.83	-0.82	45.01	54	-8.99	AV	Vertical
4882.096	62.62	-3.68	58.94	74	-15.06	Pk	Horizontal
4882.171	45.72	-3.68	42.04	54	-11.96	AV	Horizontal
High Channel (2480 MHz)							
4960.260	62.38	-3.59	58.79	74	-15.21	pk	Vertical
4960.325	45.29	-3.59	41.7	54	-12.3	AV	Vertical
4960.190	64.79	-3.59	61.2	74	-12.8	pk	Horizontal
4960.157	46.18	-3.59	42.59	54	-11.41	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 = Emission Leve - Limit

RESULT: PASS

11. BAND EDGE EMISSION

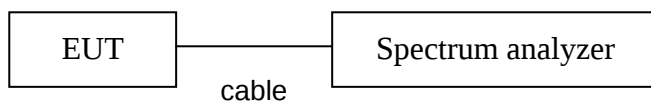
11.1. MEASUREMENT PROCEDURE

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	69.37	-12.99	56.38	74	-17.62	peak	Vertical
2399.9	55.18	-12.99	42.19	54	-11.81	AVG	Vertical
2399.9	70.29	-12.99	57.3	74	-16.7	peak	Horizontal
2399.9	54.35	-12.99	41.36	54	-12.64	AVG	Horizontal
2483.6	71.73	-12.78	58.95	74	-15.05	peak	Vertical
2483.6	54.64	-12.78	41.86	54	-12.14	AVG	Vertical
2483.6	71.82	-12.78	59.04	74	-14.96	peak	Horizontal
2483.6	54.19	-12.78	41.41	54	-12.59	AVG	Horizontal
π/4-DQPSK							
2399.9	71.28	-12.99	58.29	74	-15.71	peak	Vertical
2399.9	54.34	-12.99	41.35	54	-12.65	AVG	Vertical
2399.9	70.16	-12.99	57.17	74	-16.83	peak	Horizontal
2399.9	55.48	-12.99	42.49	54	-11.51	AVG	Horizontal
2483.6	71.72	-12.78	58.94	74	-15.06	peak	Vertical
2483.6	56.91	-12.78	44.13	54	-9.87	AVG	Vertical
2483.6	71.81	-12.78	59.03	74	-14.97	peak	Horizontal
2483.6	54.39	-12.78	41.61	54	-12.39	AVG	Horizontal
8DPSK							
2399.9	71.38	-12.99	58.39	74	-15.61	peak	Vertical
2399.9	55.61	-12.99	42.62	54	-11.38	AVG	Vertical
2399.9	70.53	-12.99	57.54	74	-16.46	peak	Horizontal
2399.9	56.29	-12.99	43.3	54	-10.7	AVG	Horizontal
2483.6	71.34	-12.78	58.56	74	-15.44	peak	Vertical
2483.6	55.18	-12.78	42.4	54	-11.6	AVG	Vertical
2483.6	71.59	-12.78	58.81	74	-15.19	peak	Horizontal
2483.6	54.73	-12.78	41.95	54	-12.05	AVG	Horizontal

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain,

Emission Level = Meter Reading + Factor

Margin= Emission Level -Limit.

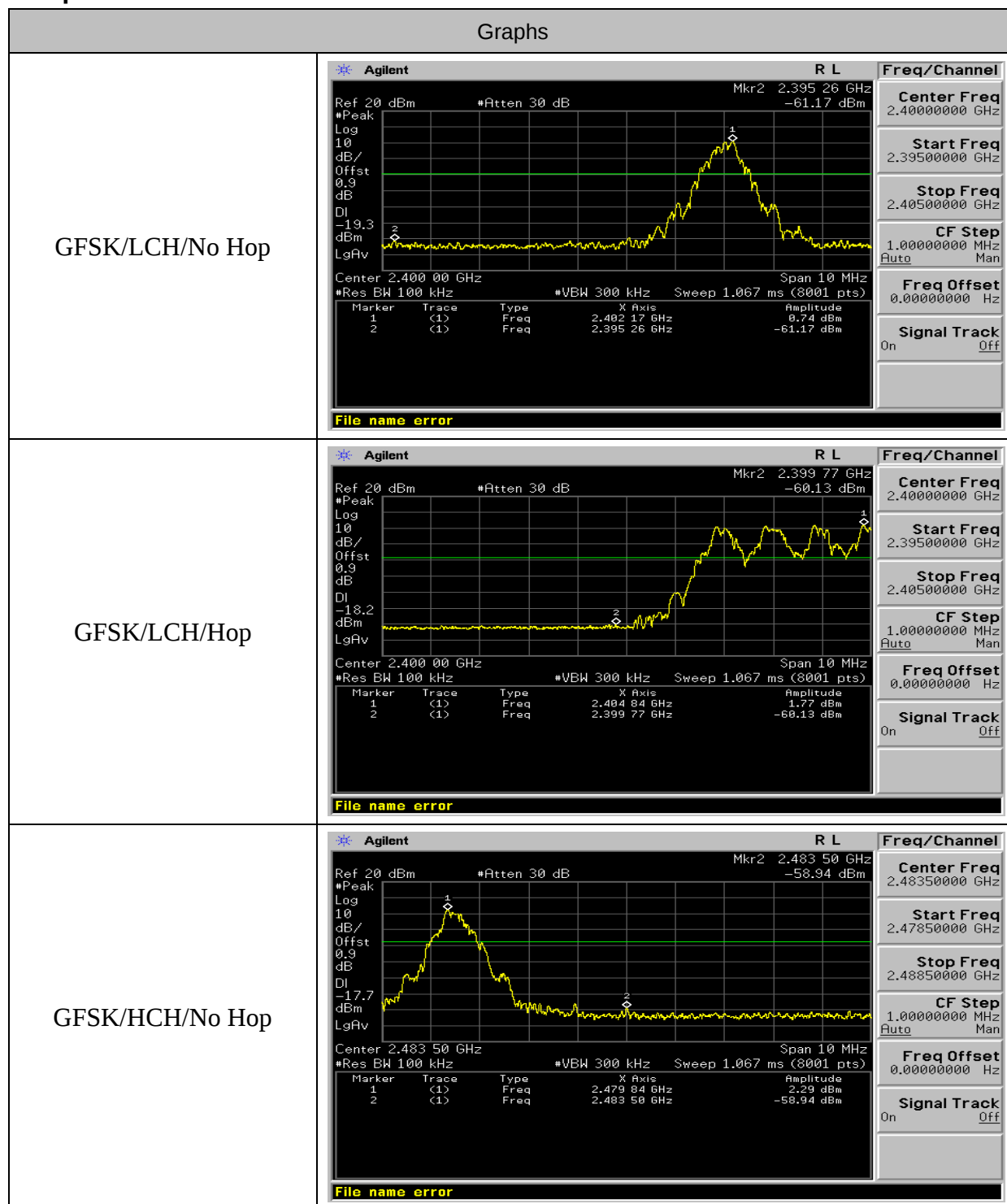
The "Factor" value can be calculated automatically by software of measurement system.

11.4 Conducted TEST RESULT

Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBm]	Verdict
GFSK	LCH	2402	Off	-61.173	PASS
			On	-60.127	PASS
GFSK	HCH	2480	Off	-58.942	PASS
			On	-59.92	PASS
$\pi/4$ DQPSK	LCH	2402	Off	-58.261	PASS
$\pi/4$ DQPSK	HCH	2480	Off	-59.915	PASS
8DPSK	LCH	2402	Off	-57.975	PASS
8DPSK	HCH	2480	Off	-59.605	PASS

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

Test Graph



GFSK/HCH/Hop

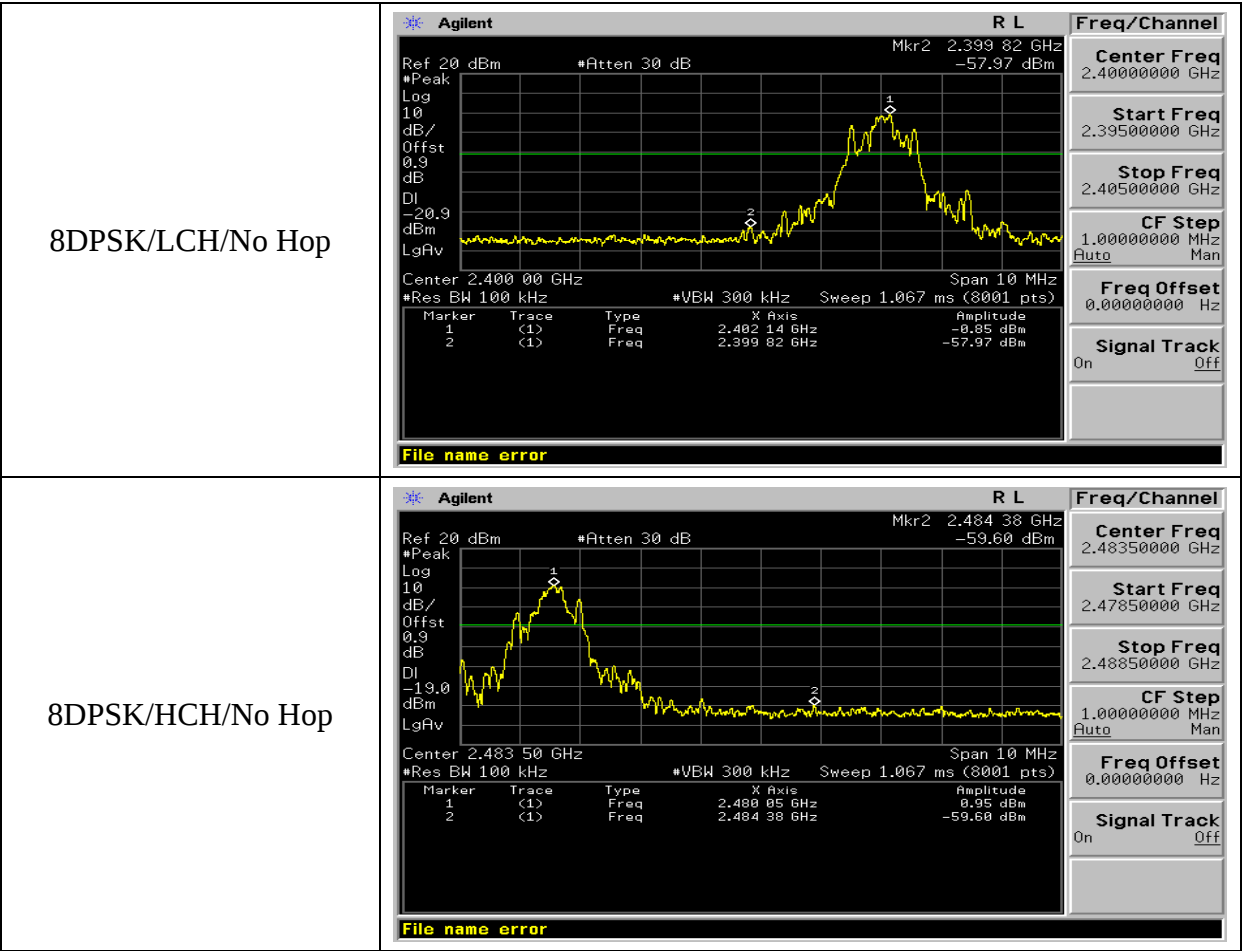
Agilent Spectrum Analyzer screenshot for GFSK/HCH/Hop. The plot shows a signal centered at 2.4835 GHz. The peak is marked at 2.48514 GHz with an amplitude of -59.92 dBm. The signal is identified as Mkr2. The frequency offset is 0.00000000 Hz. The signal track is on.

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

Agilent Spectrum Analyzer screenshot for $\pi/4$ DQPSK/LCH/No Hop. The plot shows a signal centered at 2.4000 GHz. The peak is marked at 2.39993 GHz with an amplitude of -58.26 dBm. The signal is identified as Mkr2. The frequency offset is 0.00000000 Hz. The signal track is on.

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

Agilent Spectrum Analyzer screenshot for $\pi/4$ DQPSK/HCH/No Hop. The plot shows a signal centered at 2.4835 GHz. The peak is marked at 2.48693 GHz with an amplitude of -59.92 dBm. The signal is identified as Mkr2. The frequency offset is 0.00000000 Hz. The signal track is on.



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

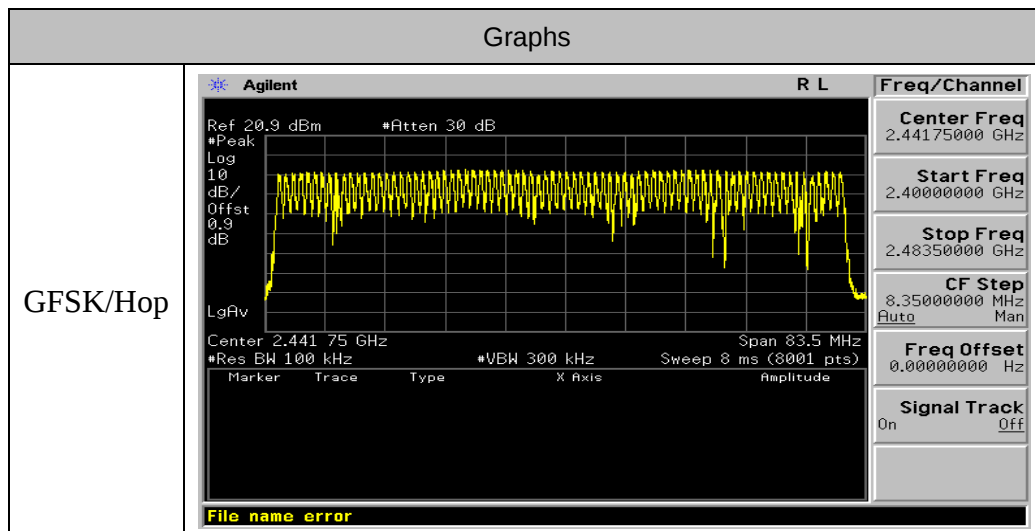
The same as described in section 6

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

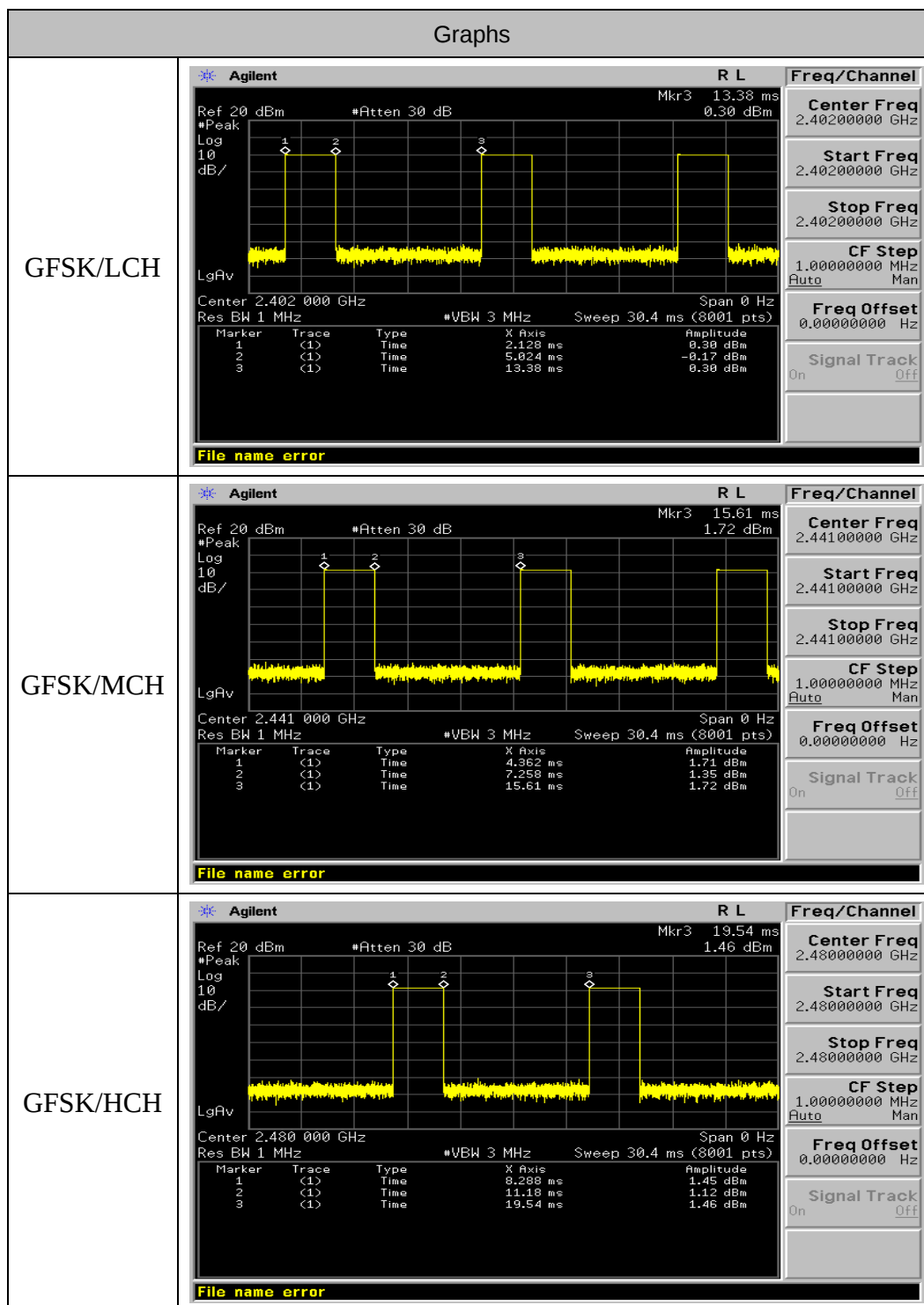
The same as described in section 6

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: $0.4[s] * \text{hopping number} = 0.4[s] * 79[\text{ch}] = 31.6[s * \text{ch}]$;
- 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 $1600/6 = 266.67 [\text{ch} * \text{hop/s}]$
- The hops per second on one channel: $266.67 [\text{ch} * \text{hops/s}] / 79 [\text{ch}] = 3.38 [\text{hop/s}]$;
- The total hops for all channels within the dwell time calculation duration: $3.38 [\text{hop/s}] * 31.6[s * \text{ch}] = 106.67 [\text{hop} * \text{ch}]$;
- The dwell time for all channels hopping: $106.67 [\text{hop} * \text{ch}] * \text{Burst Width} [\text{ms/hop/ch}]$.

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	2.896	106.67	309.872	PASS	400



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

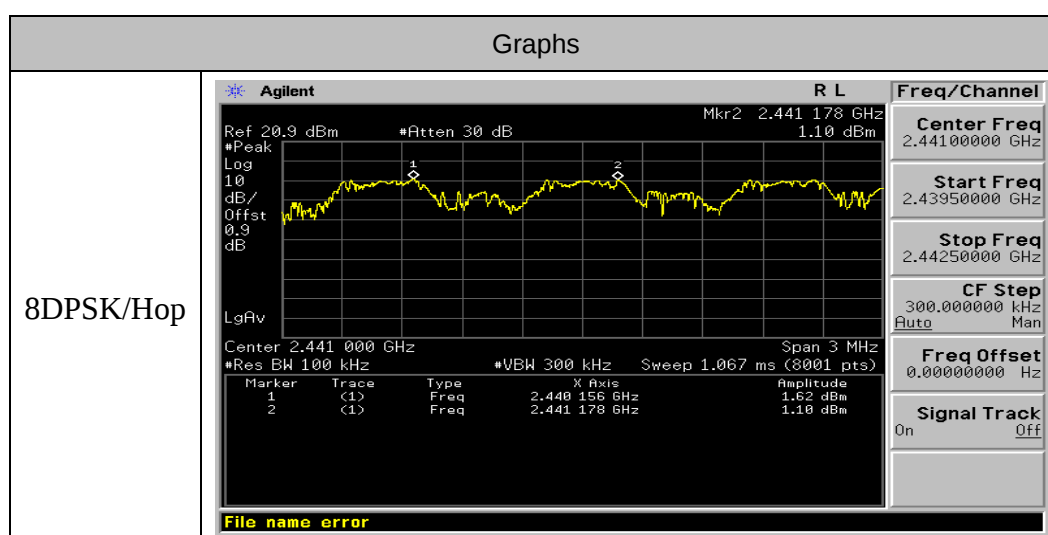
The same as described in section 6.3

14.4. LIMITS AND MEASUREMENT RESULT

Mode	Channel.	Carrier Frequency Separation [MHz]	Verdict
8DPSK	Hop	1.023	PASS

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

Test Graph



15. FCC LINE CONDUCTED EMISSION TEST

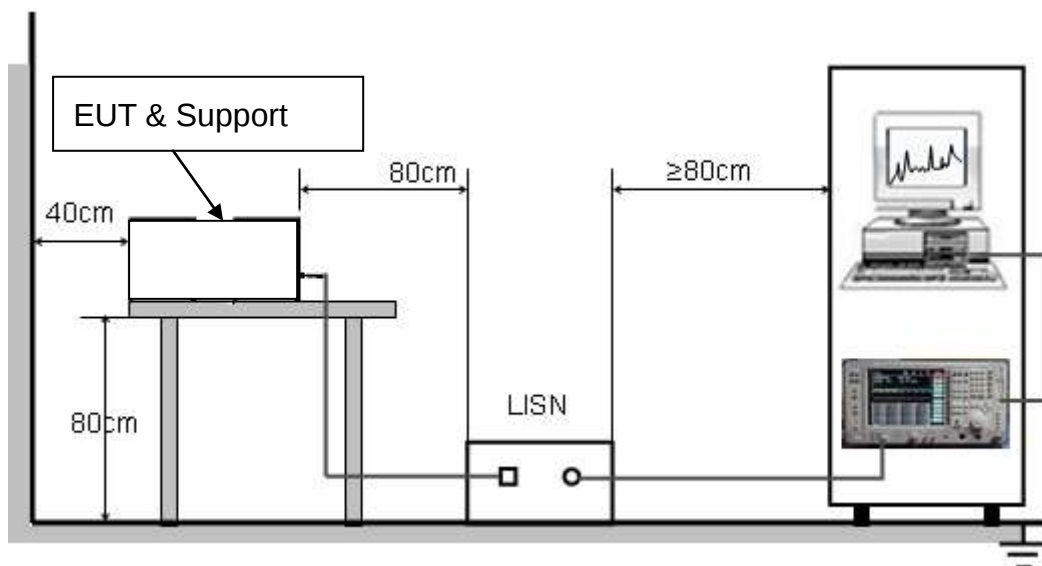
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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.

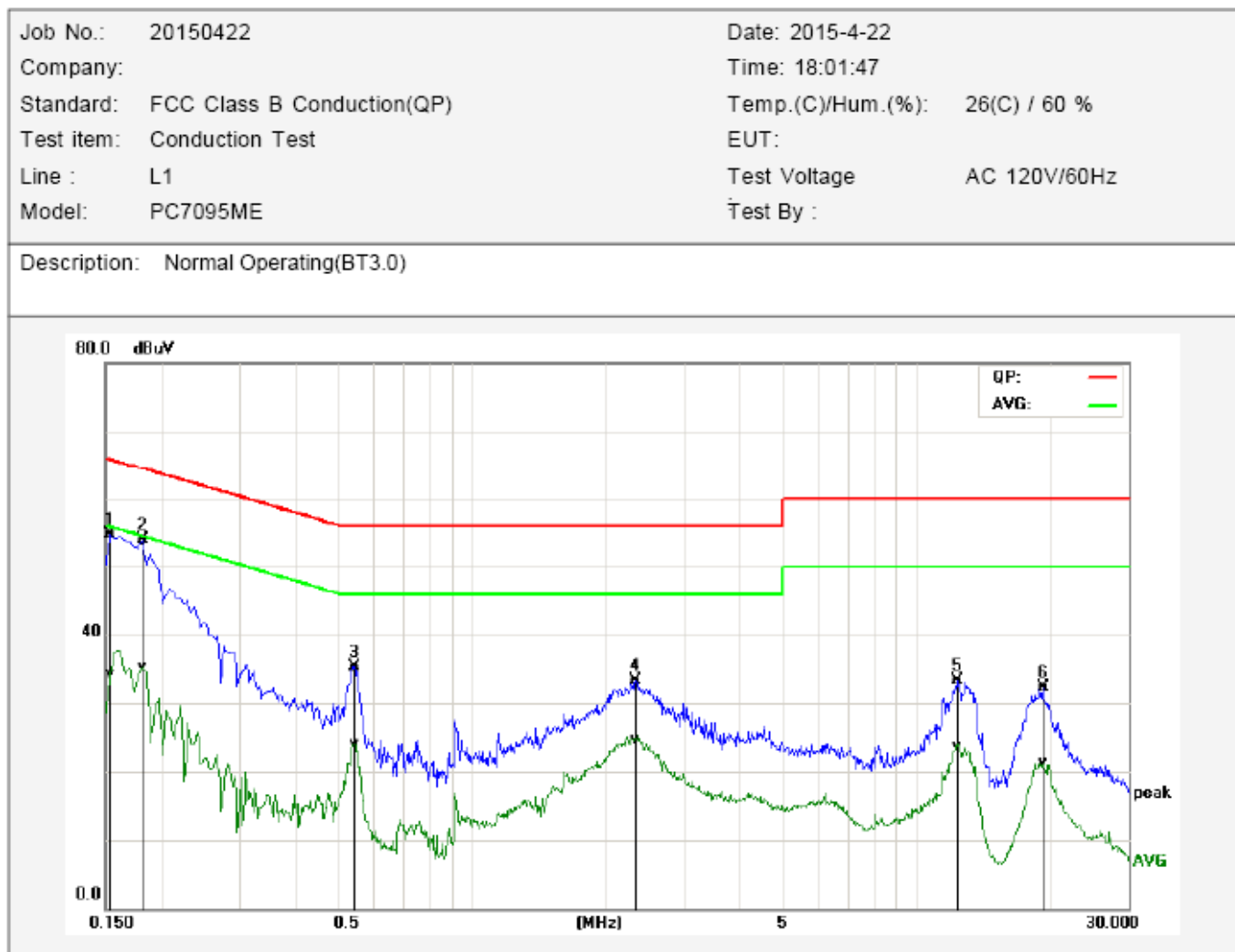
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

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

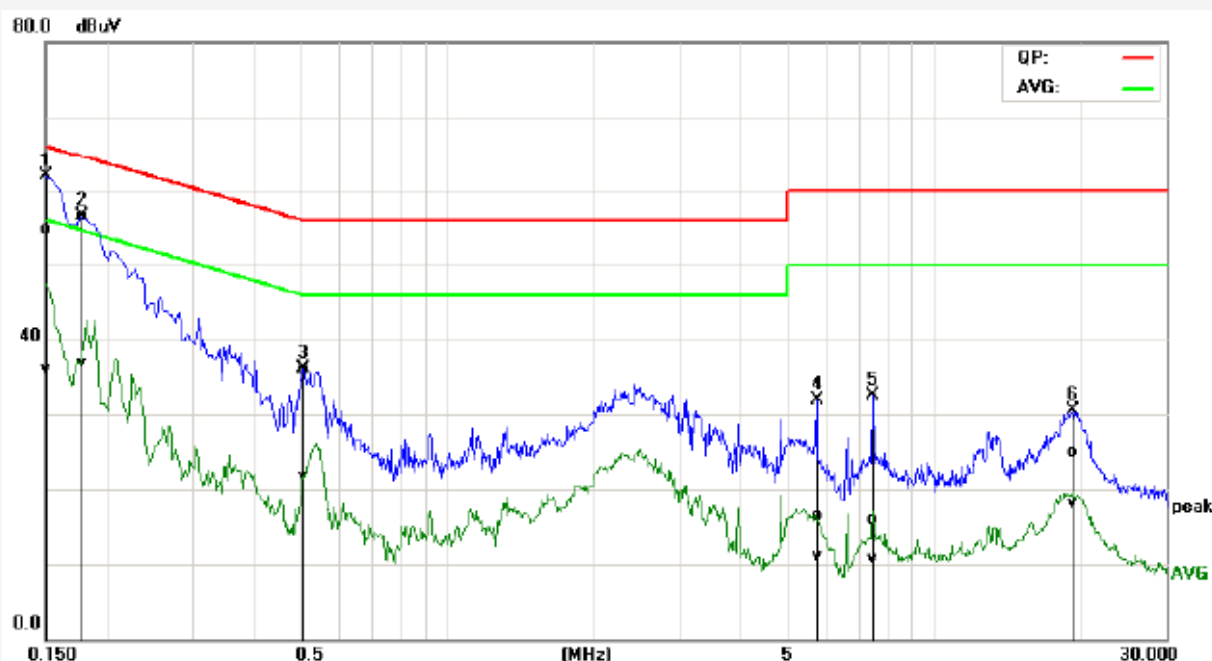


No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.1539	45.14	24.70	9.59	54.73	34.29	65.78	55.79	-11.05	-21.50	Pass
2*	0.1819	44.15	25.59	9.65	53.80	35.24	64.39	54.40	-10.59	-19.16	Pass
3P	0.5460	25.59	14.33	9.70	35.29	24.03	56.00	46.00	-20.71	-21.97	Pass
4P	2.3420	23.59	15.04	9.73	33.32	24.77	56.00	46.00	-22.68	-21.23	Pass
5P	12.4100	23.45	13.82	9.89	33.34	23.71	60.00	50.00	-26.66	-26.29	Pass
6P	19.3020	22.46	11.45	9.84	32.30	21.29	60.00	50.00	-27.70	-28.71	Pass

Line Conducted Emission Test Line 2-N

Job No.:	20150422	Date:	2015-4-22
Company:		Time:	17:56:31
Standard:	FCC Class B Conduction(QP)	Temp.(C)/Hum.(%):	26(C) / 60 %
Test item:	Conduction Test	EUT:	
Line :	N	Test Voltage	AC 120V/60Hz
Model:	PC7095ME	Test By :	

Description: Normal Operating(BT3.0)



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.1502	44.95	26.29	9.78	54.73	36.07	65.98	55.99	-11.25	-19.92	Pass
2*	0.1780	46.70	27.03	9.79	56.49	36.82	64.57	54.58	-8.08	-17.76	Pass
3P	0.5100	26.41	12.08	9.68	36.09	21.76	56.00	46.00	-19.91	-24.24	Pass
4P	5.7568	6.79	1.30	9.78	16.57	11.08	60.00	50.00	-43.43	-38.92	Pass
5P	7.4837	6.16	0.82	9.80	15.96	10.62	60.00	50.00	-44.04	-39.38	Pass
6P	19.3876	15.13	8.34	9.73	24.86	18.07	60.00	50.00	-35.14	-31.93	Pass

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



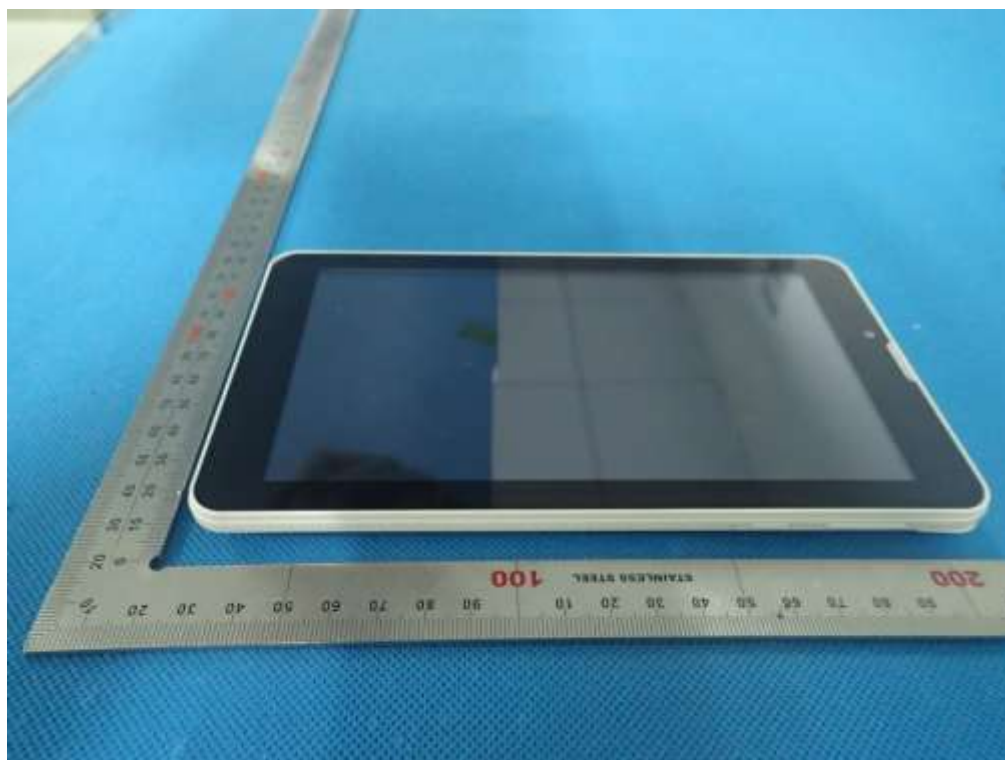
BACK VIEW OF EUT



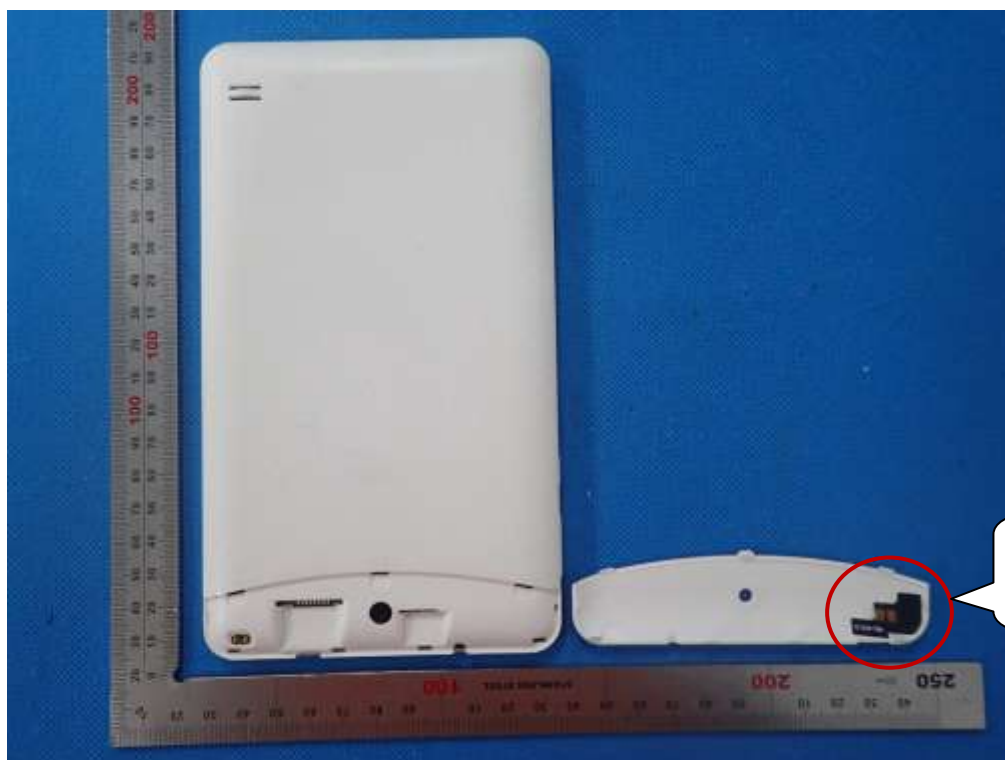
LEFT VIEW OF EUT



RIGHT VIEW OF EUT



OPEN VIEW OF EUT-1



BT&WIFI
Antenna

OPEN VIEW OF EUT-2



GSM&WCDMA
Antenna

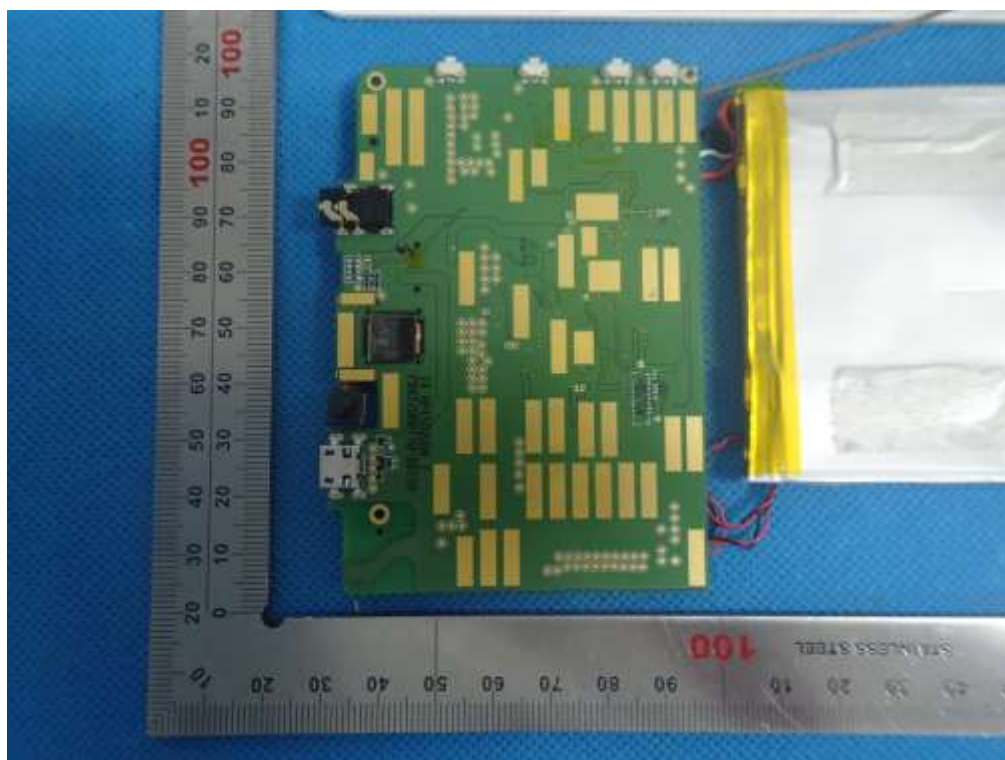
OPEN VIEW OF EUT-3



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



-----END OF REPORT-----