

# FCC Radio Test Report

**FCC ID: 2AJXP-X6**  
**FCC 47 CFR Part 15 Subpart C**  
**RSS 247 Issue 1:2015**

<b>Product</b>	:	Kids Tablet
<b>Trade Name</b>	:	N/A
<b>Model No.</b>	:	X6
<b>Serise No.</b>	:	N/A

## Issued for

LLF Education Co., Ltd.

3F, Building 3, Runhengdingfeng Industrial Park, No.1, liuxian 3rd Road, Bao'an District, Shenzhen, China

## Issued by

Shenzhen ATL Testing Technology Co., Ltd.

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## TEST RESULT CERTIFICATION

<b>Product</b> .....	Kids Tablet
<b>Applicant</b> .....	LLF Education Co., Ltd.
<b>Address</b> .....	3F, Building 3, Runhengdingfeng Industrial Park, No.1, liuxian 3rd Road, Bao'an District, Shenzhen, China
<b>Manufacturer</b> .....	LLF Education Co., Ltd.
<b>Address</b> .....	3F, Building 3, Runhengdingfeng Industrial Park, No.1, liuxian 3rd Road, Bao'an District, Shenzhen, China
<b>Model No</b> .....	X6
<b>Standards</b> .....	FCC Part 15 Subpart C (15.247) RSS 247 Issue 1: 2015
<b>Test Method</b> .....	ANSI C63.10: 2013

The above equipment has been tested by Shenzhen ATL Testing Technology Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Test.....


**Date of receipt of test item** ..... 2016-09-18

**Date(s) of performance of test.....** 2016-09-19 to 2016-09-27

**Test Result .....**: **Pass**

Testing by : Sifeifei Date : 2016-09-20  
(Si feifei)

Check by : Xie Lingling Date : 2016-09-27  
(Xie Lingling)

Approved by :  Date : 2016-09-27  
(Xu Peng)

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## 1. TEST SUMMARY

Test procedures according to the technical standards:

FCC Part 15 Subpart C (15.247)				
Standard Section		Test Item	Judgment	Remark
15.207	RSS Gen 7.2.4	AC Power Conducted Emission	PASS	
15.247(c)	RSS 247 5.5	Transmitter Radiated Emissions	PASS	
15.247(b)(1)	RSS 247 5.1	Output Power	PASS	
15.247(a)(1)	RSS 247 5.1	20dB RF Bandwidth	PASS	
15.247(a)(1)(iii)	RSS 247 5.1	Carrier Frequency Separation	PASS	
15.247(a)(1)(iii)	RSS 247 5.1	Hopping Number	PASS	
15.247(a)(1)(iii)	RSS 247 5.1	Dwell Time	PASS	
15.247(c)	RSS 247 5.1	Occupied Bandwidth Measurement	PASS	
15.247(c)	RSS 247 5.5	Band Edge Measurement	PASS	
15.203		Antenna Requirement	PASS	

### NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

(2) The test results of this report relate only to the tested sample(s) identified in this report.

## 1.1 TEST FACILITY

Shenzhen ATL Testing Technology Co., Ltd.

Add. : F/4, Building 10, Dayuan Industrial Zone, Xili Town, Nanshan District, Shenzhen, China

## 1.2 MEASUREMENT UNCERTAINTY

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

### A. Conducted Emission :

The measurement uncertainty is evaluated as  $\pm 3.2$  dB.

### B. Radiated Measurement :

The measurement uncertainty is evaluated as  $\pm 3.7$  dB.

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>Equipment</b>	Kids Tablet
<b>Model Name</b>	X6
<b>Additional Model Number(s)</b>	N/A
<b>Model Difference</b>	N/A
<b>Frequency Range</b>	Bluetooth V3.0: 2402~2480 MHz 802.11b/g/n(HT20):2412~2462 MHz 802.11n(HT40):2422~2452 MHz (Note 2)
<b>Number of Channel:</b>	79 Channels
<b>Modulation Type</b>	Bluetooth: GFSK/ $\pi$ /4-DQPSK/8-DPSK
<b>RF Output Power</b>	GFSK: 2.690 dBm 8-DPSK: 1.990 dBm
<b>Antenna Type</b>	Internal Antenna (Gain: 0.85 dBi)
<b>Power Source</b>	DC Powered by AC/DC Adapter . DC Powered by host system or Battery .
<b>Power Rating</b>	AC/DC Adapter: Input: AC 100-240V,0.35A Max. Output: DC 5V, 2000mA. DC 5V from USB interference. DC 3.7V 6000mAh from Battery.
<b>Remark</b>	More details EUT technical specifications, please refer to the User's Manual.

**Note:**

- (1) This Test Report is FCC Part 15 Subpart C, 15.247 for Bluetooth. And the Test procedure follows the FCC Public Notice DA 00-705-Filing and Measurement Guidance for Frequency Hopping Spectrum Systems.
- (2) The EUT has also been tested and complied the FCC 15C for 802.11b/g/n, and recorded in the separate test report.



## (3) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

## (4) Transmitting mode with antennas

Mode	TX Antenna (s)
Bluetooth	1

## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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	BT TX(GFSK) Mode
Mode 2	BT TX( $\pi/4$ -DQPSK) Mode
Mode 3	BT TX(8-DPSK) Mode

For Conducted Test	
Final Test Mode	Description
Mode 1	BT TX(GFSK) Mode

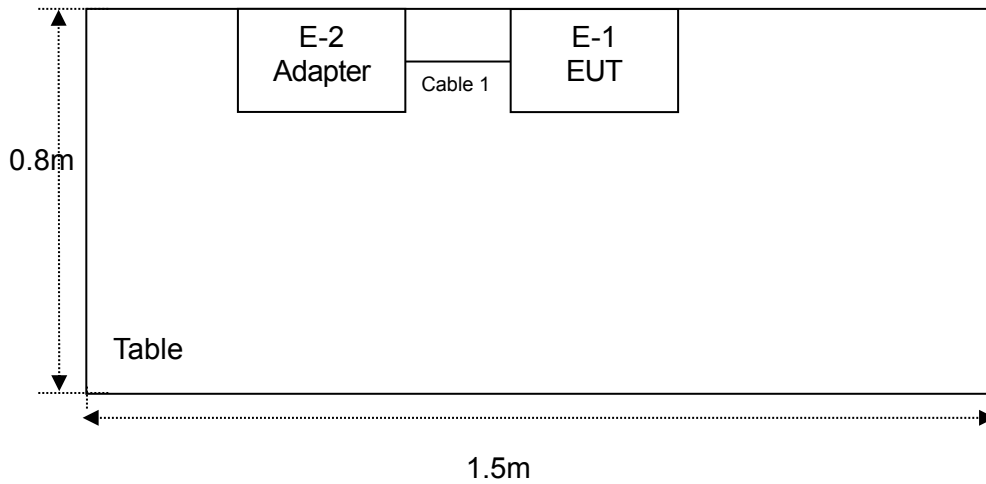
For Radiated Test	
Final Test Mode	Description
Mode 1	BT TX(GFSK) Mode
Mode 2	BT TX(8-DPSK) Mode

### Note:

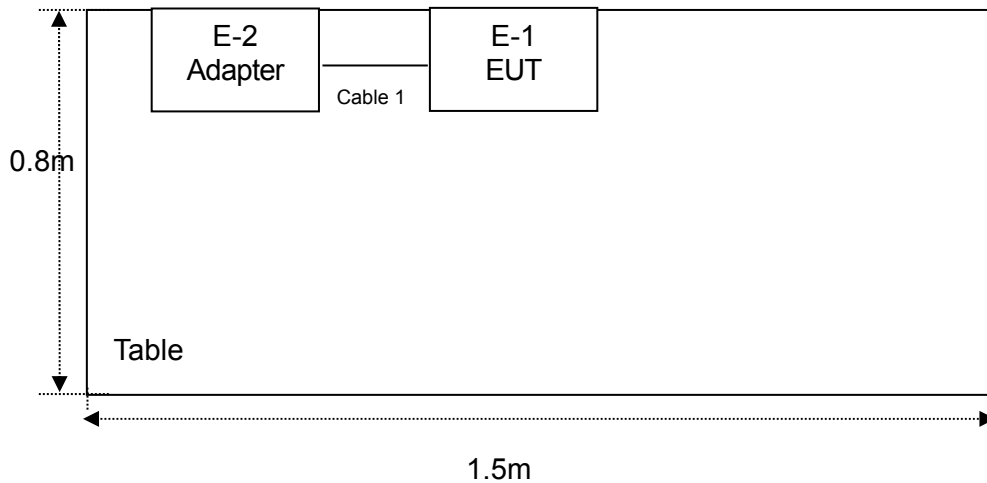
- (1) Software used to control the EUT for staying in continuous transmitting mode was programmed. After verification, all tests were carried out with the worst case test modes as shown below.
- (2) GFSK Mode:  
Channel (2402/2441/2480 MHz) with DH1 data packet were chosen for full testing.
- (3) 8-DPSK Mode:  
Channel (2402/2441/2480 MHz) with 3DH1 data packet were chosen for full testing.
- (4) By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

## 2.3 DESCRIPTION OF TEST SETUP

### Conducted Emission



### Radiated Emission



## 2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Kids Tablet	N/A	X6	N/A	EUT
E-2	Adapter	N/A	KA1517-050200CNU	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	30cm	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” means “shielded” “with core”; “NO” means “unshielded” “without core”.

## 2.5 EUT Exercise Software

Test Software	N/A
	GFSK: The command set for RF power-DEF 8-DPSK: The command set for RF power-DEF

### 3. CONDUCTED EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Quasi-peak	Average
	dBuV	dBuV
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

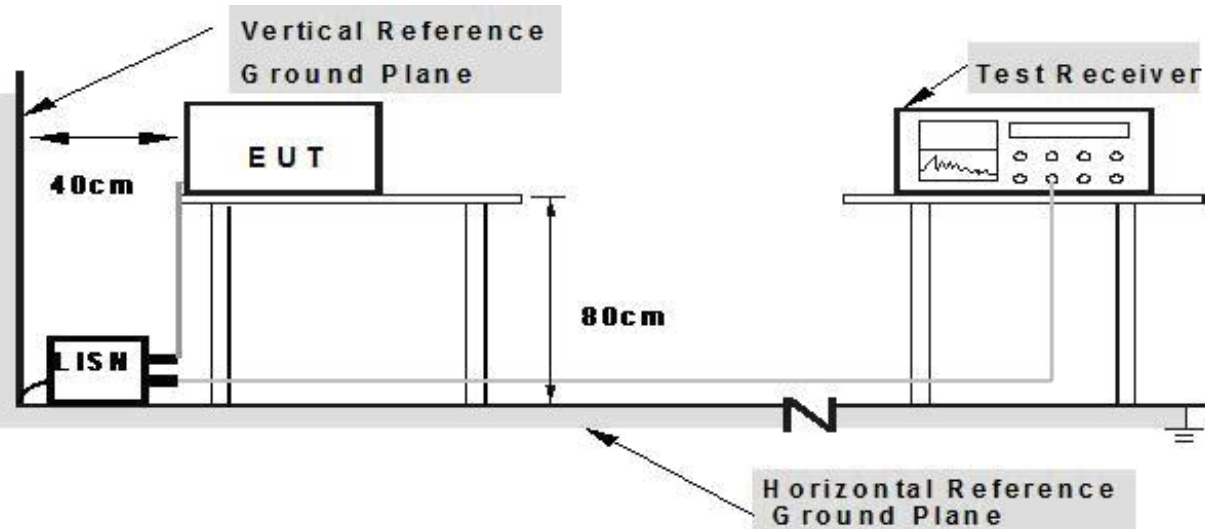
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

#### 3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.3 TEST SETUP



**Note: 1.Support units were connected to second LISN.**

**2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes**

### 3.4 TEST INSTRUMENTS

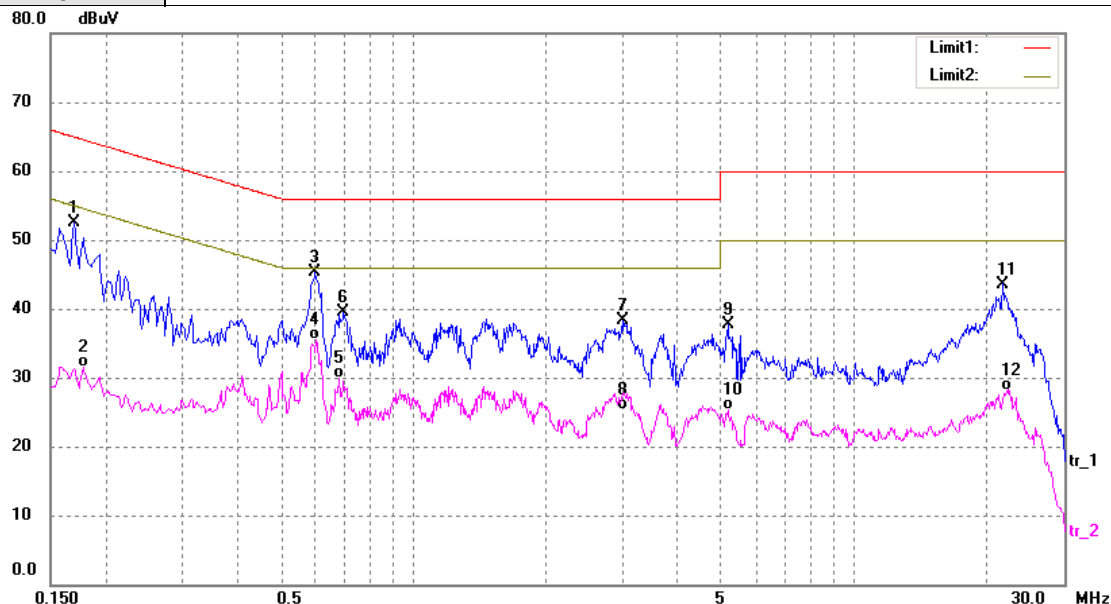
Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
LISN	R&S	NSLK81	8126466	Jul. 04, 2016	Jul. 03. 2017	1 year
LISN	R&S	NSLK81	8126487	Jul. 04, 2016	Jul. 03. 2017	1 year
50Ω Switch	ANRITSU CORP	MP59B	6200983704	Jul. 04, 2016	Jul. 03. 2017	1 year
Test Cable	N/A	C01	N/A	Jul. 04, 2016	Jul. 03. 2017	1 year
Test Cable	N/A	C02	N/A	Jul. 04, 2016	Jul. 03. 2017	1 year
Test Cable	N/A	C03	N/A	Jul. 04, 2016	Jul. 03. 2017	1 year
EMI Test Receiver	R&S	ESCI	1166.595	Jul. 04, 2016	Jul. 03. 2017	1 year
Passive Voltage Probe	ESH2-Z3	R&S	100196	Jul. 04, 2016	Jul. 03. 2017	1 year

### 3.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

### 3.6 TEST RESULTS

EUT :	Kids Tablet	Model Name. :	X6
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Test Date :	2016-09-23
Test Mode :	Mode 1	Phase :	Line
Test Voltage :	AC 120V/ 60Hz		

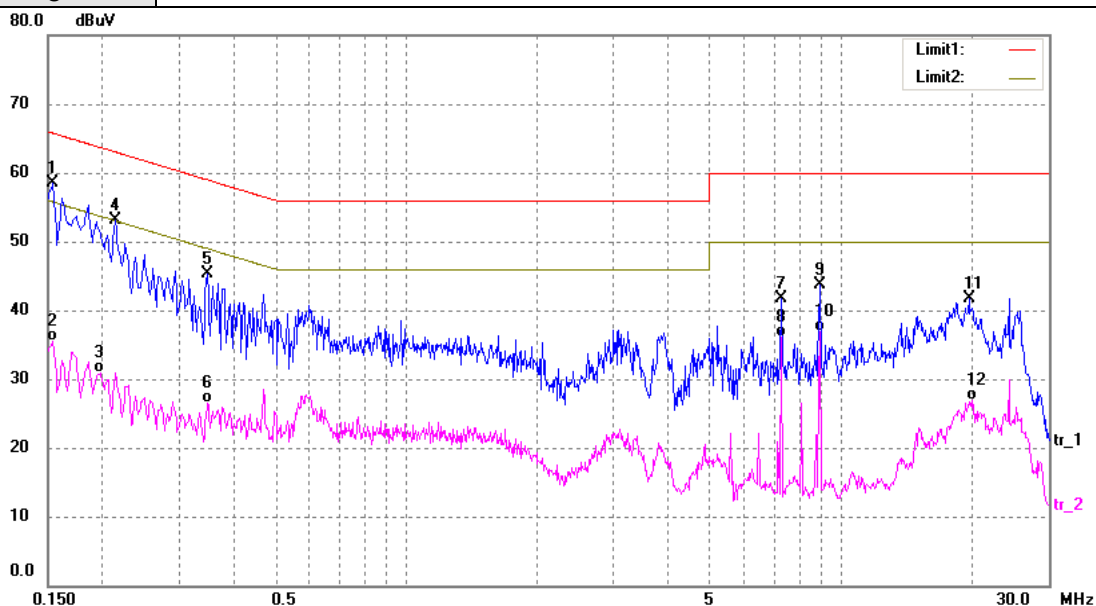


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1700	46.62	5.83	52.45	64.96	-12.51	QP
2	0.1700	25.69	5.82	31.51	54.58	-23.07	AVG
3	0.6020	39.45	5.79	45.24	56.00	-10.76	QP
4*	0.6020	29.71	5.79	35.50	46.00	-10.50	AVG
6	0.6940	33.66	5.78	39.44	56.00	-16.56	QP
5	0.6940	24.12	5.79	29.91	46.00	-16.09	AVG
7	2.9860	32.63	5.71	38.34	56.00	-17.66	QP
8	2.9860	19.67	5.71	25.38	46.00	-20.62	AVG
9	5.1700	32.06	5.66	37.72	60.00	-22.28	QP
10	5.1700	19.63	5.66	25.29	50.00	-24.71	AVG
11	21.7780	37.92	5.68	43.60	60.00	-16.40	QP
12	21.7780	22.52	5.68	28.20	50.00	-21.80	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

EUT :	Kids Tablet	Model Name. :	X6
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Test Date :	2016-09-23
Test Mode :	Mode 1	Phase :	Neutral
Test Voltage :	AC 120V/ 60Hz		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.1540	52.71	5.85	58.56	65.78	-7.22	QP
2	0.1540	29.74	5.85	35.59	55.78	-20.19	AVG
4	0.2140	47.37	5.80	53.17	63.05	-9.88	QP
3	0.2140	25.19	5.80	30.99	53.69	-22.70	AVG
5	0.3500	39.54	5.80	45.34	58.96	-13.62	QP
6	0.3500	20.67	5.80	26.47	48.96	-22.49	AVG
7	7.2900	36.07	5.60	41.67	60.00	-18.33	QP
8	7.2900	30.46	5.60	36.06	50.00	-13.94	AVG
9	8.9180	38.10	5.55	43.65	60.00	-16.35	QP
10	8.9180	31.37	5.55	36.92	50.00	-13.08	AVG
11	19.7020	35.93	5.68	41.61	60.00	-18.39	QP
12	19.7020	21.13	5.68	26.81	50.00	-23.19	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



## 4. RADIATED EMISSION MEASUREMENT

### 4.1 RADIATED EMISSION LIMIT (Frequency Range 9KHz-1000MHz)

20 dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Field Strength (uV/m at meter)	Measurement Distance (meters)
0.009 -0.490	2400/F(KHz)	300
0.490 -1.705	24000/F(KHz)	30
1.705 -30.0	30	30
30 -88	100	3
88 -216	150	3
216~960	200	3
Above 960	500	3

### RADIATED EMISSION LIMITS (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m)(at 3 M)		Class B (dBuV/m)(at 3 M)	
	Peak	Average		Peak
Above 1000	80	60	74	54

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

The following table is the setting of the receiver

Receiver Parameter	Setting
Attenuation	Auto
Start Frequency~ Stop Frequency	9kHz~150kHz/ RB 200Hz for QP
Start Frequency~ Stop Frequency	150kHz~30MHz/ RB 9kHz for QP
Start Frequency~ Stop Frequency	30MHz~1000MHz/ RB120kHz for QP

The following table is the setting of the spectrum

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10 <sup>th</sup> carrier harmonic
RB/ VB (emission in restricted band)	1MHz/ 3 MHz for Peak, 1MHz/ 10Hz for Average

### 4.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

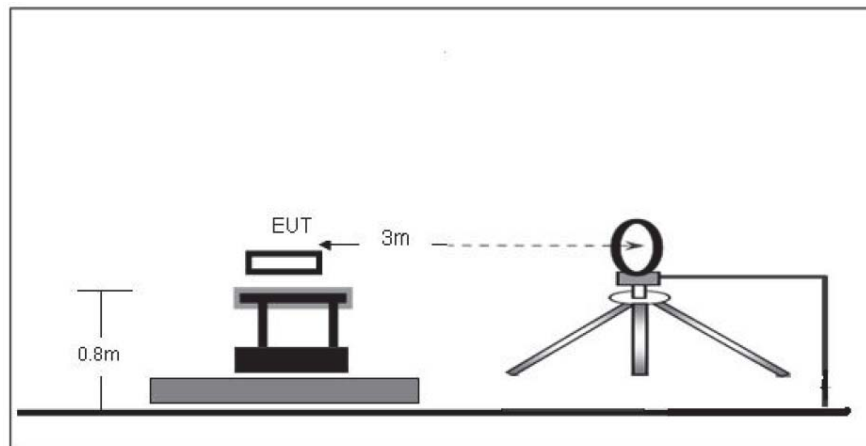
Note:

Both horizontal and vertical antenna polarities were tested.

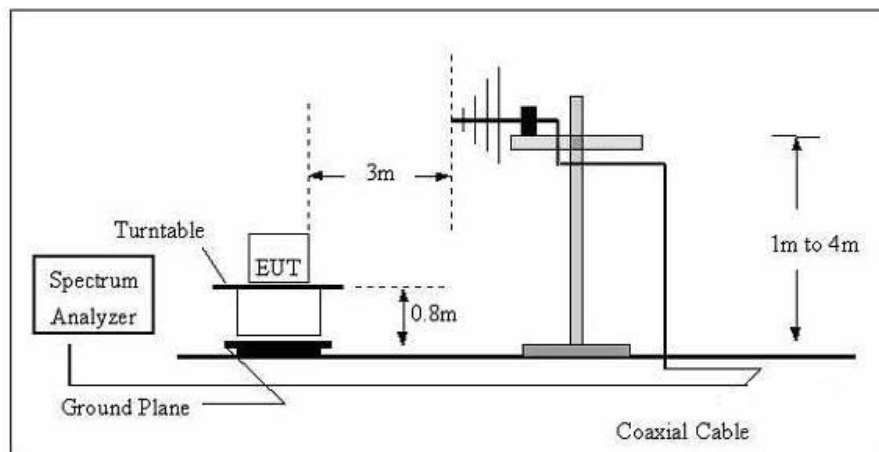
And performed pretest to three orthogonal axis. The worst case emissions were reported.

#### 4.3 TEST SETUP

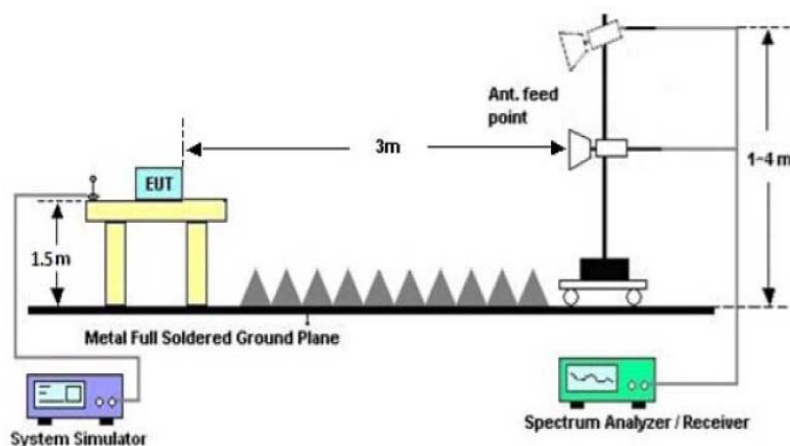
##### (A) Radiated Emission Test Set-Up Frequency 9KHz~30MHz



##### (B) Radiated Emission Test Set-Up Frequency Below 1 GHz



## (B) Radiated Emission Test Set-Up Frequency Above 1GHz



### 4.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Broadband Antenna	R&S	VULB 9168	VULB 9168-456	Jul. 04, 2016	Jul. 03. 2017	1 year
Test Cable	N/A	R-01	N/A	Jul. 04, 2016	Jul. 03. 2017	1 year
Test Cable	N/A	R-02	N/A	Jul. 04, 2016	Jul. 03. 2017	1 year
EMI Test Receiver	R&S	ESCI	101324	Jul. 04, 2016	Jul. 03. 2017	1 year
Antenna Mast	EM	SC100_1	N/A	N/A	N/A	N/A
Turn Table	EM	SC100	060531	N/A	N/A	N/A
50Ω Switch	Anritsu Corp	MP59B	6200983705	Jul. 04, 2016	Jul. 03. 2017	1 year
Spectrum Analyzer	R&S	FSP40	100154	Jul. 04, 2016	Jul. 03. 2017	1 year
Horn Antenna	R&S	HF906	10029	Jul. 04, 2016	Jul. 03. 2017	1 year
Amplifier	EM	EM-30180	060538	Jul. 04, 2016	Jul. 03. 2017	1 year

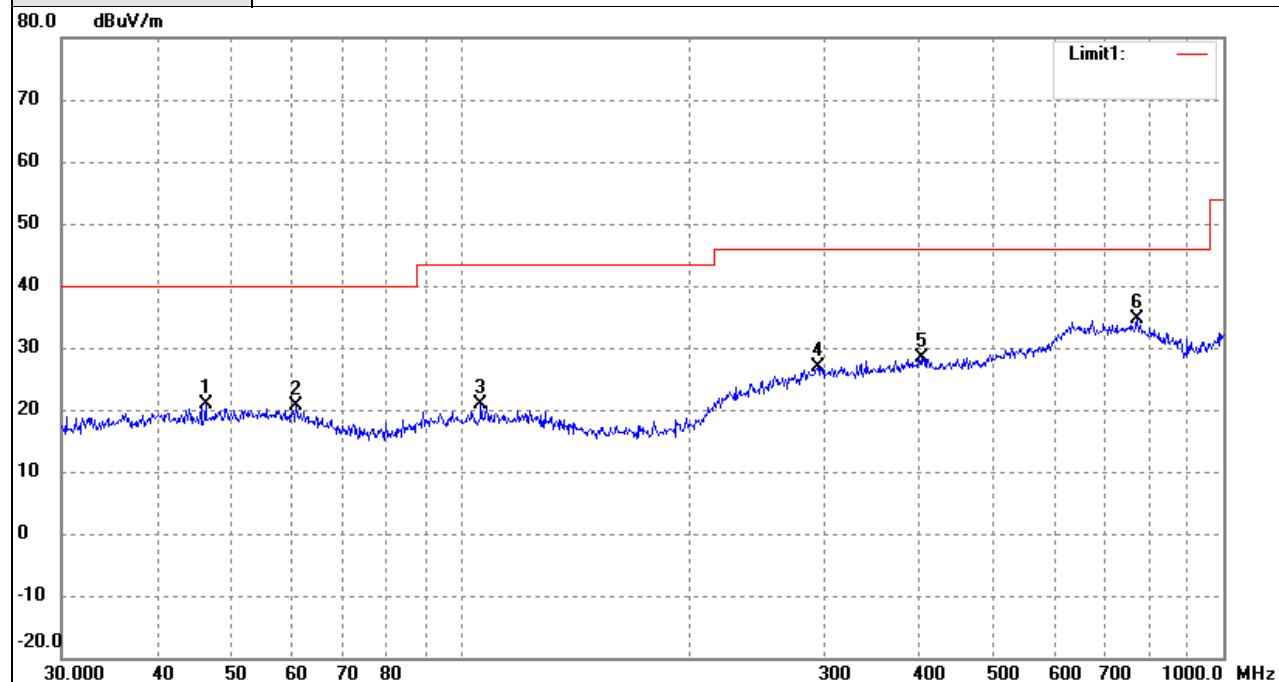
### 4.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

## 4.6 TEST RESULTS

### 4.6.1 TEST RESULTS (Bellow 1GHz)

EUT :	Kids Tablet	Model Name. :	X6
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010 hPa	Test Date :	2016-09-23
Test Mode :	BT TX Mode	Polarization :	Horizontal
Test Power :	AC 120V/60Hz		

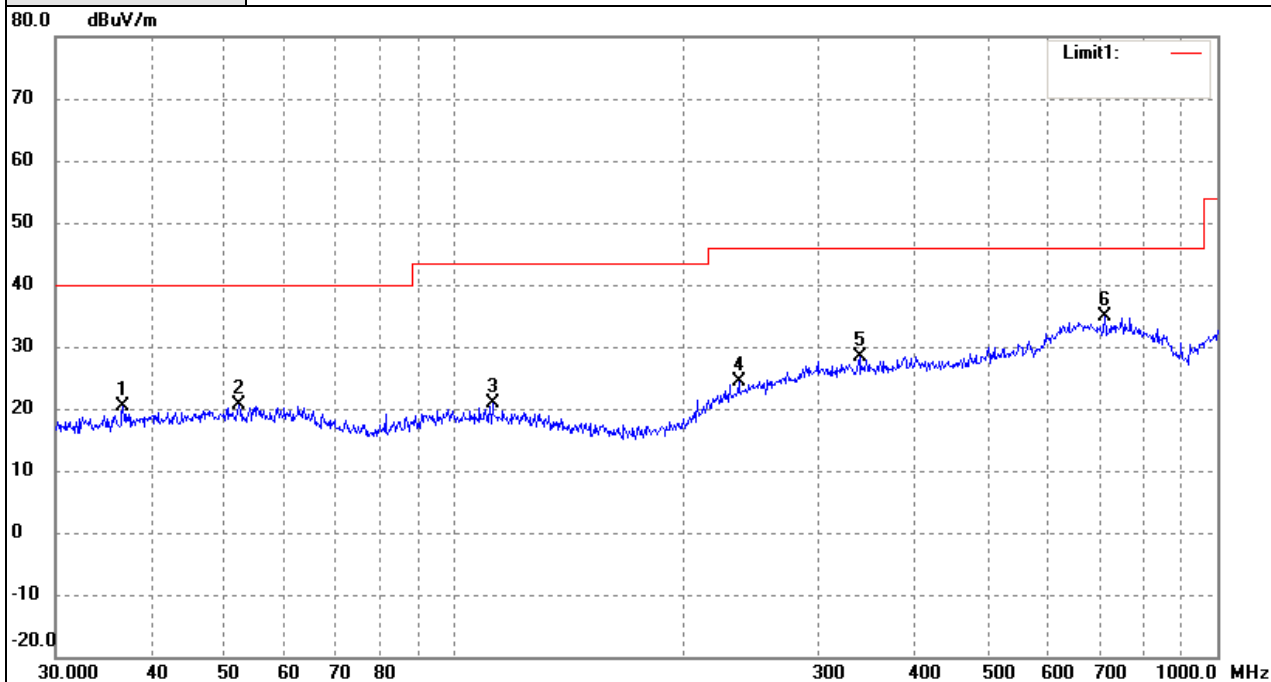


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	46.3402	16.02	4.96	20.98	40.00	-19.02	peak
2	60.9176	15.73	4.85	20.58	40.00	-19.42	peak
3	106.3850	15.87	4.89	20.76	43.50	-22.74	peak
4	294.1137	15.12	11.74	26.86	46.00	-19.14	peak
5	401.8385	15.74	12.61	28.35	46.00	-17.65	peak
6	771.4486	17.19	17.39	34.58	46.00	-11.42	peak

Remark:

Factor = Antenna Factor + Cable Loss.

EUT :	Kids Tablet	Model Name. :	X6
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010 hPa	Test Date :	2016-09-23
Test Mode :	BT TX Mode	Polarization :	Vertical
Test Power :	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	36.7662	15.82	4.45	20.27	40.00	-19.73	peak
2	52.2079	15.51	5.04	20.55	40.00	-19.45	peak
3	112.1305	16.02	4.86	20.88	43.50	-22.62	peak
4	235.8164	15.70	8.66	24.36	46.00	-21.64	peak
5	339.5888	17.05	11.38	28.43	46.00	-17.57	peak
6	711.6734	17.30	17.55	34.85	46.00	-11.15	peak

Remark:

Factor = Antenna Factor + Cable Loss.

#### 4.6.2 TEST RESULTS (Above 1GHz)

<b>EUT :</b>	Kids Tablet			<b>Model Name. :</b>	X6		
<b>Temperature :</b>	26 °C			<b>Relative Humidity :</b>	56%		
<b>Test Power :</b>	AC 120V/60Hz			<b>Pressure :</b>	1010 hPa		
<b>Test Mode :</b>	GFSK TX 2402MHz			<b>Test Date :</b>	2016-09-23		
<b>Freq.</b>	<b>Deceiver Reading</b>	<b>Detector</b>	<b>Polar</b>	<b>Corrected Factor</b>	<b>Emission Level</b>	<b>Limit</b>	<b>Margin</b>
<b>MHz</b>	<b>dBuV</b>	<b>Peak/Avg</b>	<b>H/V</b>	<b>dB</b>	<b>dBuV /m</b>	<b>dBuV /m</b>	<b>dB</b>
4804	63.94	Peak	H	-3.59	60.35	74	-13.65
4804	51.61	Avg	H	-3.59	48.02	54	-5.98
7206	57.09	Peak	H	-0.52	56.57	74	-17.43
7206	45.87	Avg	H	-0.52	45.35	54	-8.65
---	---	Peak	H			74	
---	---	Avg	H			54	
4804	64.63	Peak	V	-3.59	61.04	74	-12.96
4804	53.27	Avg	V	-3.59	49.68	54	-4.32
7206	57.54	Peak	V	-0.52	57.02	74	-16.98
7206	46.27	Avg	V	-0.52	45.75	54	-8.25
---	---	Peak	V			74	
---	---	Avg	V			54	

Remark:

Emission Level= Read Level+ Correct Factor

Margin= Emission Level-Limit

The testing has been conformed to 10<sup>th</sup> harmonics(1G~25G)

Other harmonics emission are lower then 20dB below the allowable Limit

<b>EUT :</b>	Kids Tablet			<b>Model Name. :</b>	X6		
<b>Temperature :</b>	26 °C			<b>Relative Humidity :</b>	56%		
<b>Test Power :</b>	AC 120V/60Hz			<b>Pressure :</b>	1010 hPa		
<b>Test Mode :</b>	GFSK TX 2441MHz			<b>Test Date :</b>	2016-09-23		
<b>Freq.</b>	<b>Deceiver Reading</b>	<b>Detector</b>	<b>Polar</b>	<b>Corrected Factor</b>	<b>Emission Level</b>	<b>Limit</b>	<b>Margin</b>
<b>MHz</b>	<b>dBuV</b>	<b>Peak/Avg</b>	<b>H/V</b>	<b>dB</b>	<b>dBuV /m</b>	<b>dBuV /m</b>	<b>dB</b>
4882	64.84	Peak	H	-3.49	61.35	74	-12.65
4882	53.15	Avg	H	-3.49	49.66	54	-4.34
7323	57.72	Peak	H	-0.47	57.25	74	-16.75
7323	46.16	Avg	H	-0.47	45.69	54	-8.31
---	---	Peak	H			74	
---	---	Avg	H			54	
4882	64.92	Peak	V	-3.49	61.43	74	-12.57
4882	53.00	Avg	V	-3.49	49.51	54	-4.49
7323	57.13	Peak	V	-0.47	56.66	74	-17.34
7323	45.48	Avg	V	-0.47	45.01	54	-8.99
---	---	Peak	V			74	
---	---	Avg	V			54	

Remark:

Emission Level= Read Level+ Correct Factor

Margin= Emission Level-Limit

The testing has been conformed to 10<sup>th</sup> harmonics(1G~25G)

Other harmonics emission are lower then 20dB below the allowable Limit

<b>EUT :</b>	Kids Tablet			<b>Model Name. :</b>	X6		
<b>Temperature :</b>	26 °C			<b>Relative Humidity :</b>	56%		
<b>Test Power :</b>	AC 120V/60Hz			<b>Pressure :</b>	1010 hPa		
<b>Test Mode :</b>	GFSK TX 2480MHz			<b>Test Date :</b>	2016-09-23		
<b>Freq.</b>	<b>Deceiver Reading</b>	<b>Detector</b>	<b>Polar</b>	<b>Corrected Factor</b>	<b>Emission Level</b>	<b>Limit</b>	<b>Margin</b>
<b>MHz</b>	<b>dBuV</b>	<b>Peak/Avg</b>	<b>H/V</b>	<b>dB</b>	<b>dBuV /m</b>	<b>dBuV /m</b>	<b>dB</b>
4960	64.56	Peak	H	-3.41	61.15	74	-12.85
4960	52.68	Avg	H	-3.41	49.27	54	-4.73
7440	56.97	Peak	H	-0.42	56.55	74	-17.45
7440	46.09	Avg	H	-0.42	45.67	54	-8.33
---	---	Peak	H			74	
---	---	Avg	H			54	
4960	64.20	Peak	V	-3.41	60.79	74	-13.21
4960	52.73	Avg	V	-3.41	49.32	54	-4.68
7440	57.39	Peak	V	-0.42	56.97	74	-17.03
7440	46.60	Avg	V	-0.42	46.18	54	-7.82
---	---	Peak	V			74	
---	---	Avg	V			54	

Remark:

Emission Level= Read Level+ Correct Factor

Margin= Emission Level-Limit

The testing has been conformed to 10<sup>th</sup> harmonics(1G~25G)

Other harmonics emission are lower then 20dB below the allowable Limit



<b>EUT :</b>	Kids Tablet			<b>Model Name. :</b>	X6		
<b>Temperature :</b>	26 °C			<b>Relative Humidity :</b>	56%		
<b>Test Power :</b>	AC 120V/60Hz			<b>Pressure :</b>	1010 hPa		
<b>Test Mode :</b>	8-DPSK TX 2402MHz			<b>Test Date :</b>	2016-09-23		
<b>Freq.</b>	<b>Deceiver Reading</b>	<b>Detector</b>	<b>Polar</b>	<b>Corrected Factor</b>	<b>Emission Level</b>	<b>Limit</b>	<b>Margin</b>
<b>MHz</b>	<b>dBuV</b>	<b>Peak/Avg</b>	<b>H/V</b>	<b>dB</b>	<b>dBuV /m</b>	<b>dBuV /m</b>	<b>dB</b>
4804	63.74	Peak	H	-3.59	60.15	74	-13.85
4804	51.66	Avg	H	-3.59	48.07	54	-5.93
7206	56.18	Peak	H	-0.52	55.66	74	-18.34
7206	45.20	Avg	H	-0.52	44.68	54	-9.32
---	---	Peak	H			74	
---	---	Avg	H			54	
4804	64.14	Peak	V	-3.59	60.55	74	-13.45
4804	52.47	Avg	V	-3.59	48.88	54	-5.12
7206	56.63	Peak	V	-0.52	56.11	74	-17.89
7206	45.77	Avg	V	-0.52	45.25	54	-8.75
---		Peak	V			74	
---		Avg	V			54	

Remark:

Emission Level= Read Level+ Correct Factor

Margin= Emission Level-Limit

The testing has been conformed to 10<sup>th</sup> harmonics(1G~25G)

Other harmonics emission are lower then 20dB below the allowable Limit

<b>EUT :</b>	Kids Tablet			<b>Model Name. :</b>	X6		
<b>Temperature :</b>	26 °C			<b>Relative Humidity :</b>	56%		
<b>Test Power :</b>	AC 120V/60Hz			<b>Pressure :</b>	1010 hPa		
<b>Test Mode :</b>	8-DPSK TX 2441MHz			<b>Test Date :</b>	2016-09-23		
<b>Freq.</b>	<b>Deceiver Reading</b>	<b>Detector</b>	<b>Polar</b>	<b>Corrected Factor</b>	<b>Emission Level</b>	<b>Limit</b>	<b>Margin</b>
<b>MHz</b>	<b>dBuV</b>	<b>Peak/Avg</b>	<b>H/V</b>	<b>dB</b>	<b>dBuV /m</b>	<b>dBuV /m</b>	<b>dB</b>
4882	63.96	Peak	H	-3.49	60.47	74	-13.53
4882	52.70	Avg	H	-3.49	49.21	54	-4.79
7323	56.52	Peak	H	-0.47	56.05	74	-17.95
7323	45.16	Avg	H	-0.47	44.69	54	-9.31
---	---	Peak	H			74	
---	---	Avg	H			54	
4882	64.25	Peak	V	-3.49	60.76	74	-13.24
4882	52.13	Avg	V	-3.49	48.64	54	-5.36
7323	56.26	Peak	V	-0.47	55.79	74	-18.21
7323	45.43	Avg	V	-0.47	44.96	54	-9.04
---		Peak	V			74	
---		Avg	V			54	

Remark:

Emission Level= Read Level+ Correct Factor

Margin= Emission Level-Limit

The testing has been conformed to 10<sup>th</sup> harmonics(1G~25G)

Other harmonics emission are lower then 20dB below the allowable Limit

<b>EUT :</b>	Kids Tablet			<b>Model Name. :</b>	X6		
<b>Temperature :</b>	26 °C			<b>Relative Humidity :</b>	56%		
<b>Test Power :</b>	AC 120V/60Hz			<b>Pressure :</b>	1010 hPa		
<b>Test Mode :</b>	8-DPSK TX 2480MHz			<b>Test Date :</b>	2016-09-23		
<b>Freq.</b>	<b>Deceiver Reading</b>	<b>Detector</b>	<b>Polar</b>	<b>Corrected Factor</b>	<b>Emission Level</b>	<b>Limit</b>	<b>Margin</b>
<b>MHz</b>	<b>dBuV</b>	<b>Peak/Avg</b>	<b>H/V</b>	<b>dB</b>	<b>dBuV /m</b>	<b>dBuV /m</b>	<b>dB</b>
4960	64.14	Peak	H	-3.41	60.73	74	-13.27
4960	52.06	Avg	H	-3.41	48.65	54	-5.35
7440	56.48	Peak	H	-0.42	56.06	74	-17.94
7440	45.37	Avg	H	-0.42	44.95	54	-9.05
---	---	Peak	H			74	
---	---	Avg	H			54	
4960	63.94	Peak	V	-3.41	60.53	74	-13.47
4960	52.56	Avg	V	-3.41	49.15	54	-4.85
7440	55.83	Peak	V	-0.42	55.41	74	-18.59
7440	46.09	Avg	V	-0.42	45.67	54	-8.33
---		Peak	V			74	
---		Avg	V			54	

Remark:

Emission Level= Read Level+ Correct Factor

Margin= Emission Level-Limit

The testing has been conformed to 10<sup>th</sup> harmonics(1G~25G)

Other harmonics emission are lower then 20dB below the allowable Limit

## 5. CONDUCTED OUTPUT POWER MEASUREMENT

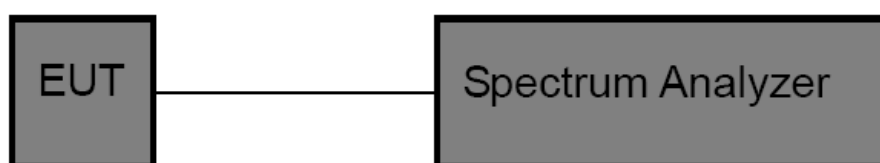
### 5.1 LIMITS

Peak Output Power	Hopping Channels>75 Power<1W(30dBm) Other <125 mW(21dBm)
-------------------	---

### 5.2 TEST PROCEDURE

The EUT was directly connected to the power meter and antenna output port as show in the block diagram as bellow.

### 5.3 TEST SETUP



### 5.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Spectrum Analyzer	R&S	FSP40	100154	Jul. 04, 2016	Jul. 03. 2017	1 year
Spectrum Analyzer	Agilent	E4407B	MY41440432	Jul. 04, 2016	Jul. 03. 2017	1 year

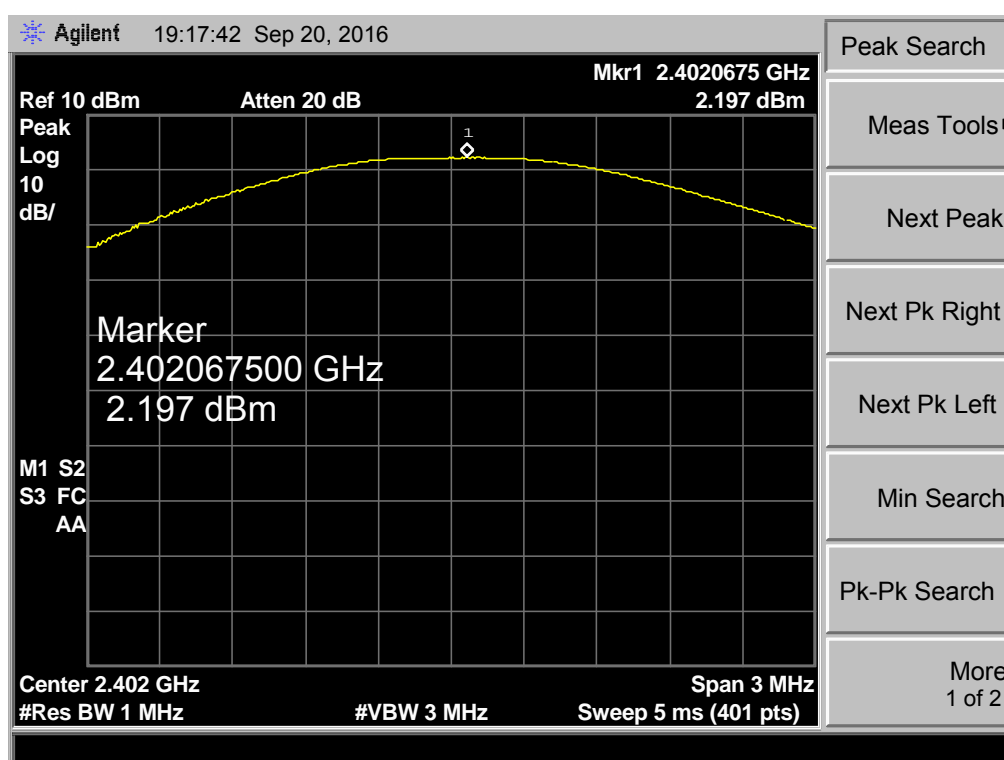
### 5.5 EUT OPERATING CONDITIONS

The EUT was set to continuously transmitting in the maximum power during the test.

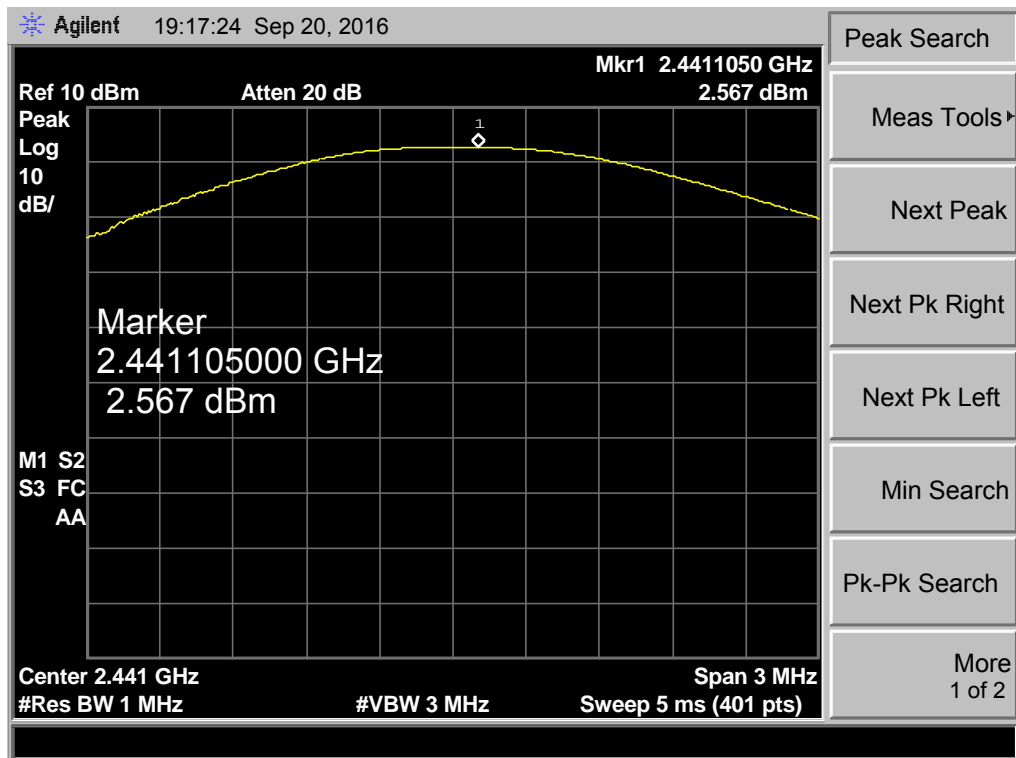
### 5.6 TEST RESULTS

GFSK (1Mbps)		
Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
2402	2.197	<30
2441	2.567	
2480	2.690	

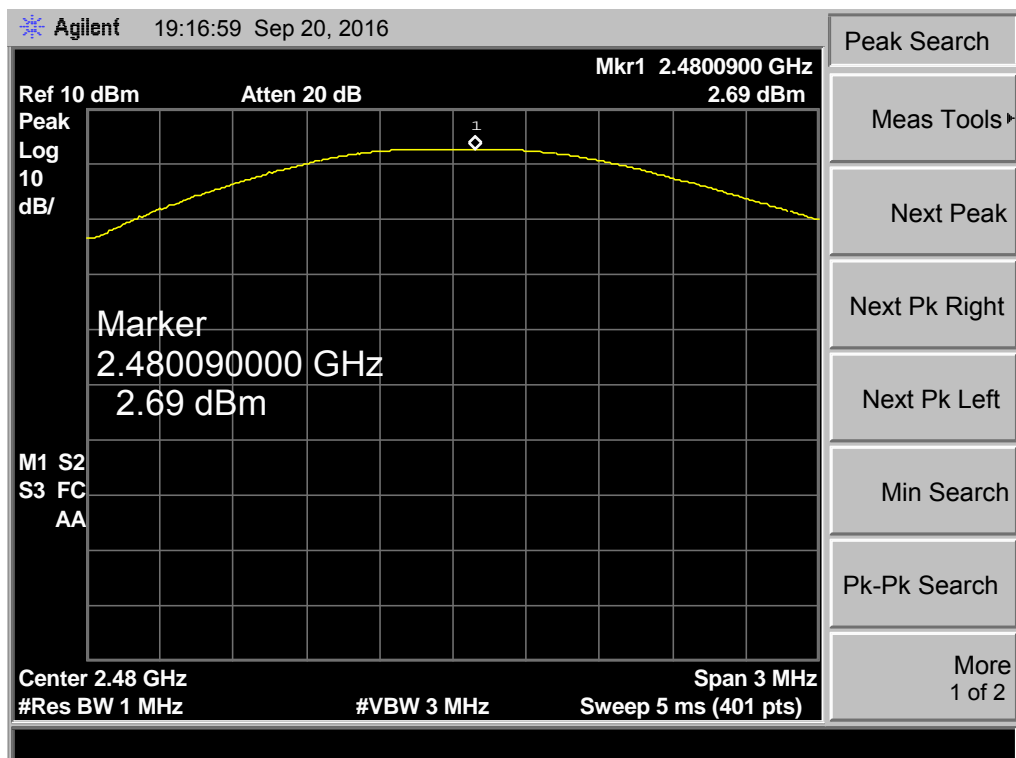
### 2402 MHz



### 2441 MHz

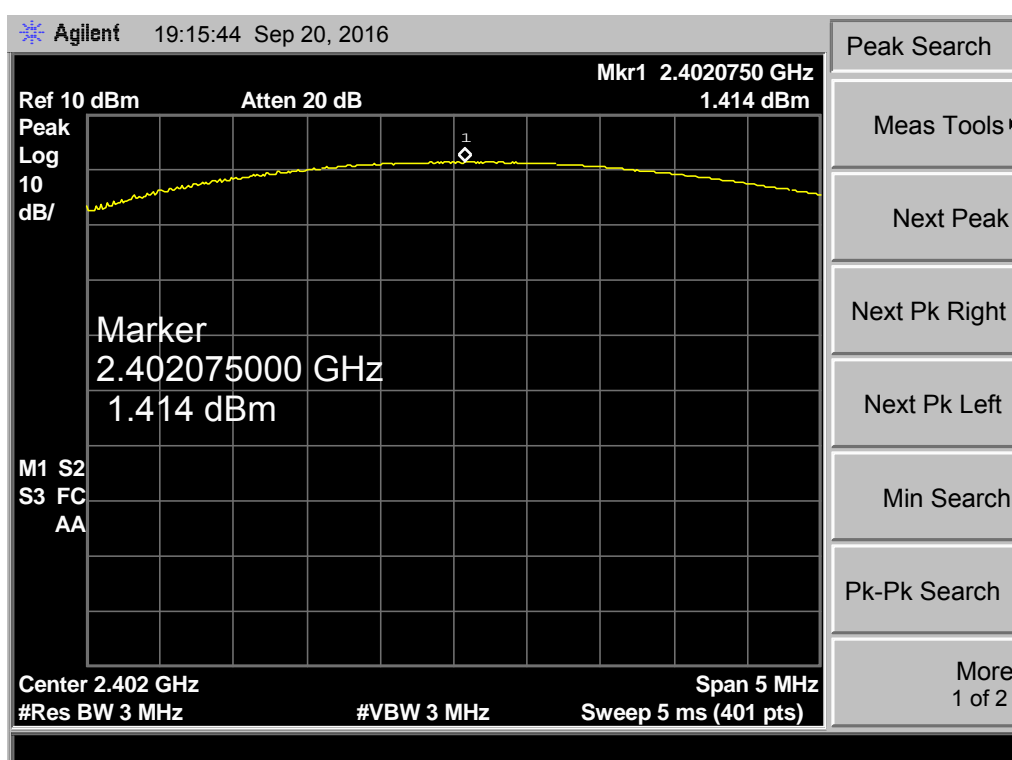


### 2480 MHz

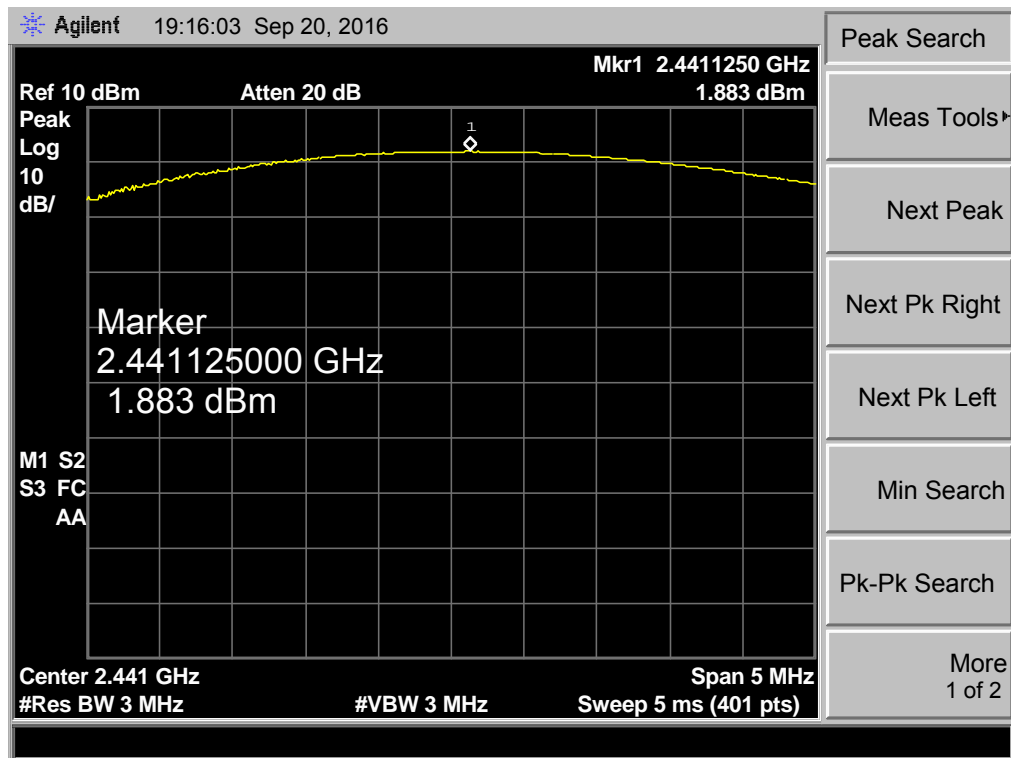


8-DPSK (3Mbps)		
Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
2402	1.414	<21
2441	1.883	
2480	1.990	

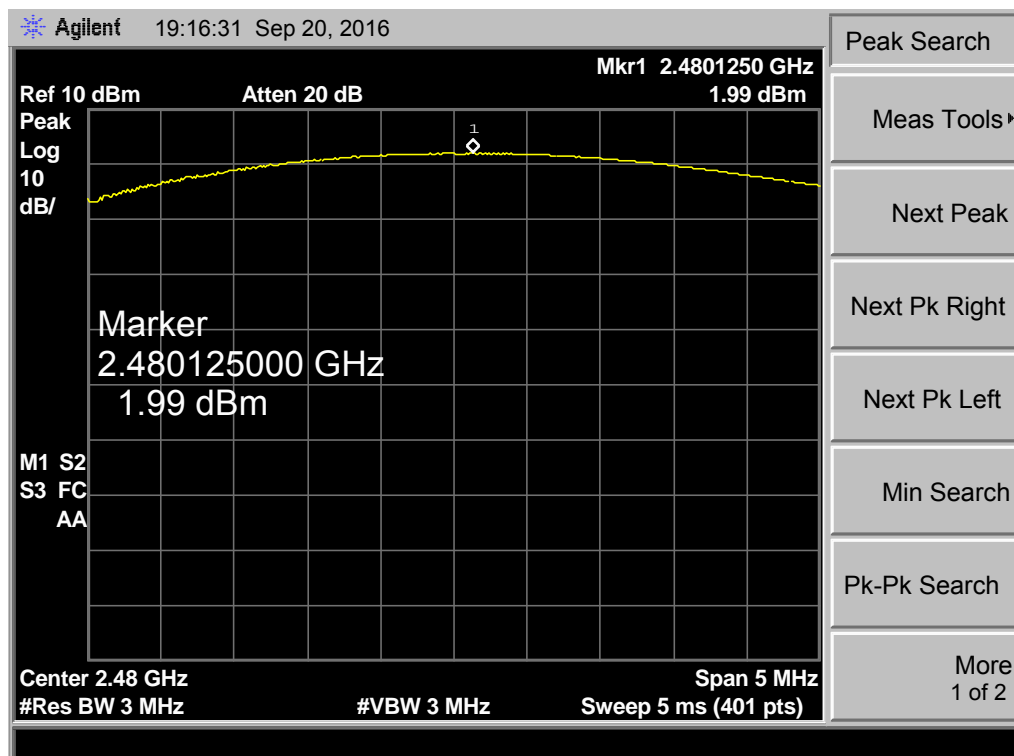
### 2402 MHz



### 2441 MHz



### 2480 MHz





## 6. OCCUPIED BANDWIDTH MEASUREMENT

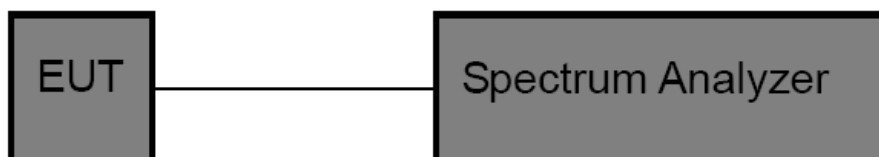
### 6.1 LIMITS

Test Item	Limit	Frequency Range(MHz)
Bandwidth	$\leq 1$ MHz (20dB bandwidth)	2400~2483.5
Channel Separation	$>25$ KHz or $>$ two-thirds of the 20 dB bandwidth Which is greater	2400~2483.5

### 6.2 TEST PROCEDURE

The EUT was directly connected to the power meter and antenna output port as show in the block diagram as bellow.

### 6.3 TEST SETUP



### 6.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Spectrum Analyzer	R&S	FSP40	100154	Jul. 04, 2016	Jul. 03. 2017	1 year
Spectrum Analyzer	Agilent	E4407B	MY41440432	Jul. 04, 2016	Jul. 03. 2017	1 year

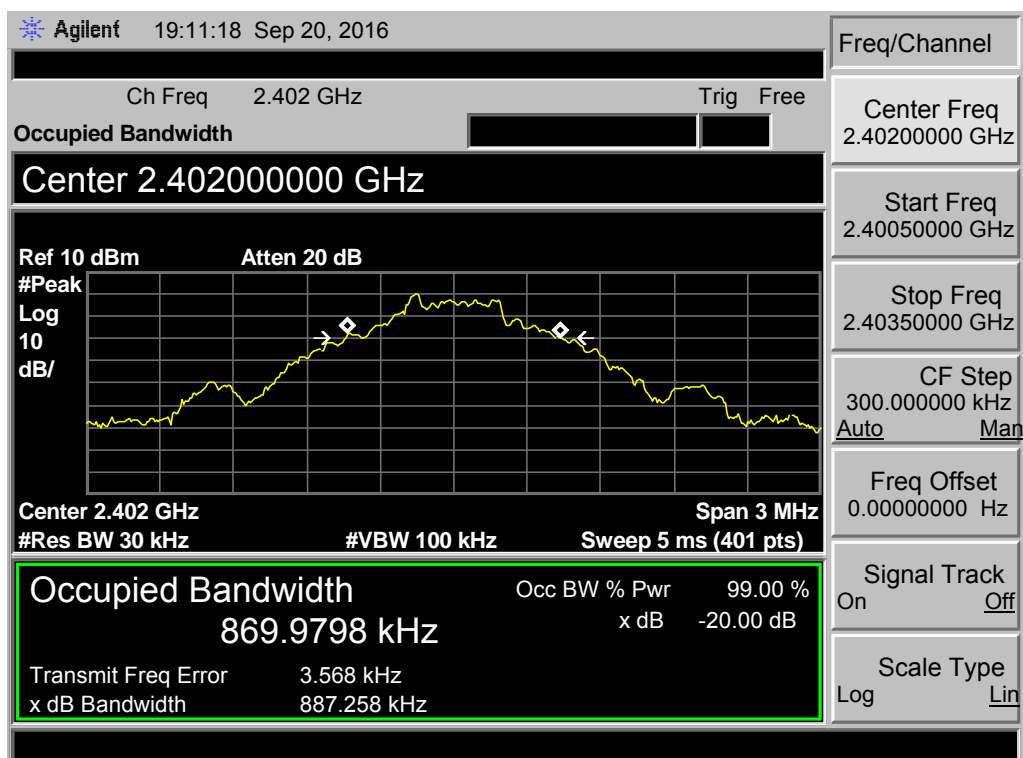
### 6.5 EUT OPERATING CONDITIONS

The EUT was set to continuously transmitting in the maximum power during the test.

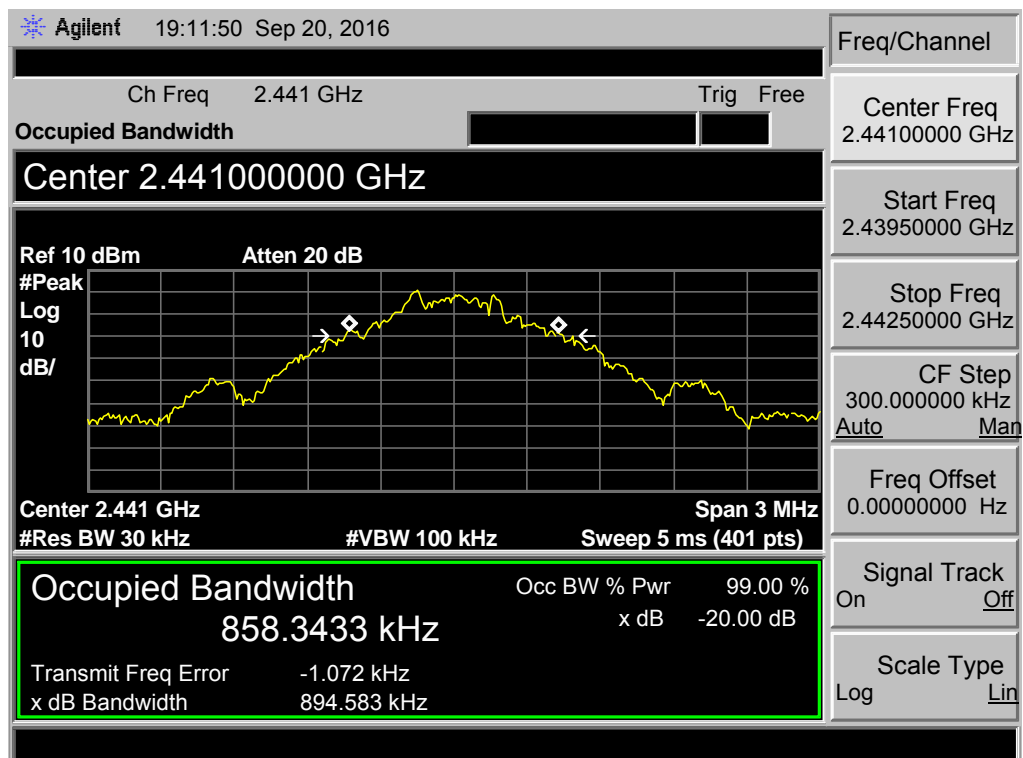
### 6.6 TEST RESULTS

GFSK Mode (1Mbps)			
Frequency (MHz)	20dB Bandwidth (kHz)	99% OBW (kHz)	20dB Bandwidth *2/3 (kHz)
2402	887.258	869.9798	
2441	894.583	858.3433	
2480	891.041	860.9836	
8-DPSK Mode (3Mbps)			
Frequency (MHz)	20dB Bandwidth (kHz)	99% OBW (kHz)	20dB Bandwidth *2/3 (kHz)
2402	1156.00	1077.40	770.67
2441	1135.00	1061.40	756.67
2480	1143.00	1120.30	762.00
<b>Note:</b> Test plots please refer following pages.			

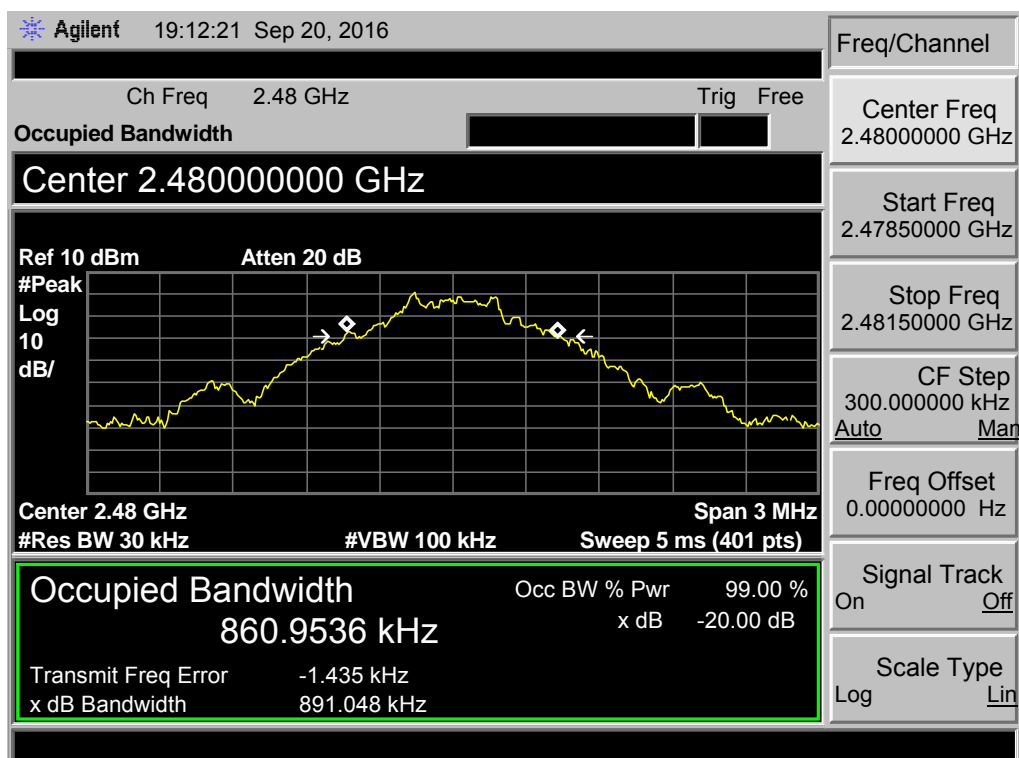
### 2402 MHz(GFSK) Bandwidth



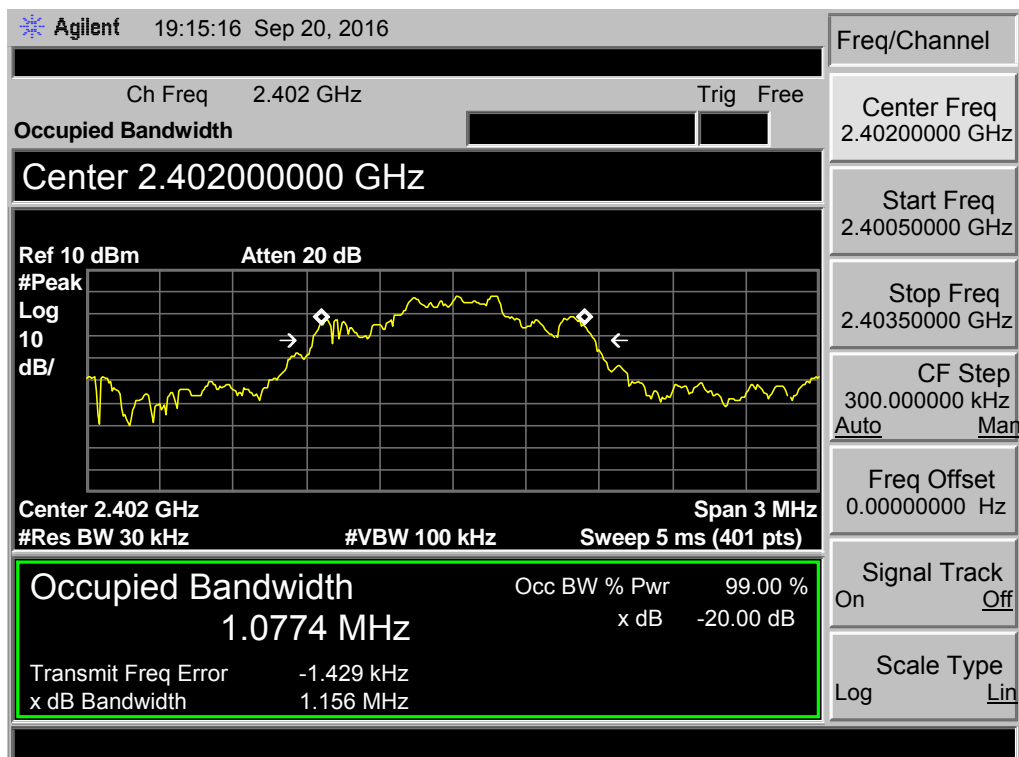
### 2441 MHz(GFSK) Bandwidth



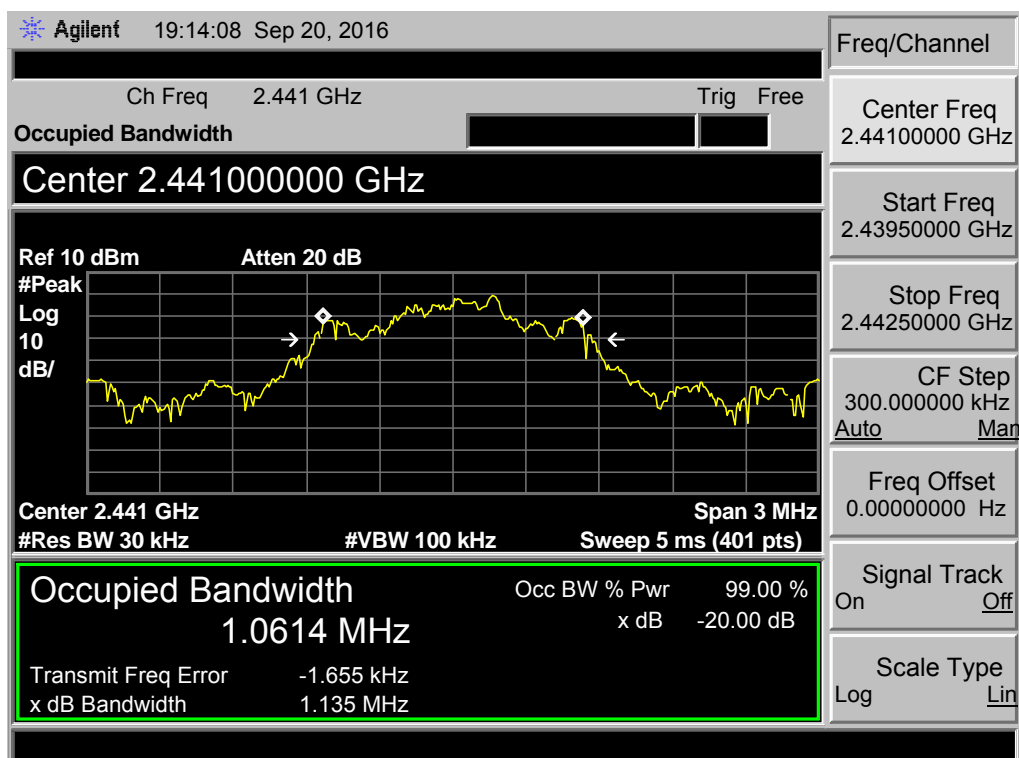
### 2480 MHz(GFSK) Bandwidth



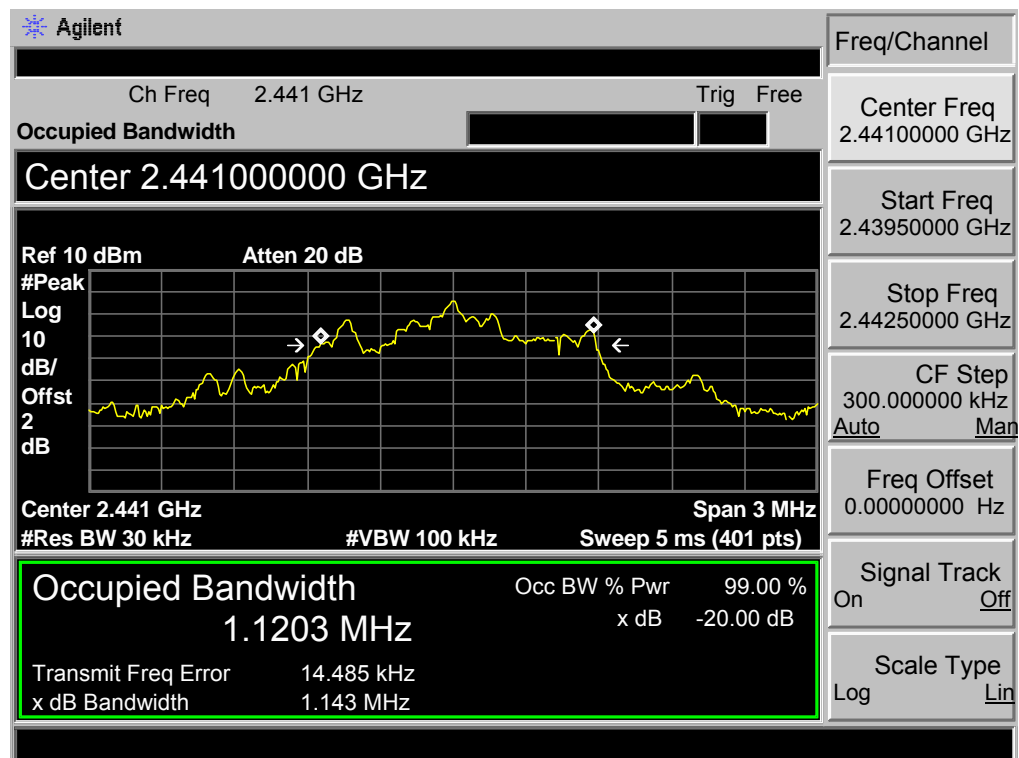
### 2402 MHz(8-DPSK) Bandwidth



### 2441 MHz(8-DPSK) Bandwidth



### 2480 MHz(8-DPSK) Bandwidth



## 7. CARRIER FREQUENCY SEPARATION MEASUREMENT

### 7.1 LIMITS

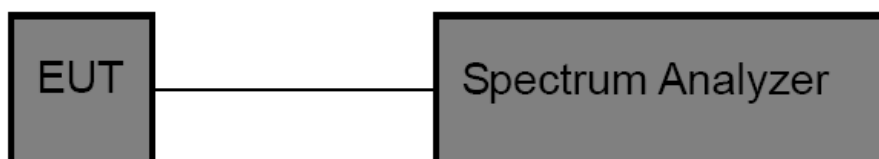
Frequency Separation	The channel spacing shall be a minimum of 25 kHz or two-thirds of the 20 dB Bandwidth
----------------------	---

### 7.2 TEST PROCEDURE

The EUT was directly connected to the power meter and antenna output port as show in the block diagram as bellow.

- Set span= wide enough to capture the peaks of two adjacent channels.
- Set the RBW  $\geq 1\%$  of the span
- Set the VBW  $\geq 3$  RBW (30kHz/ 100kHz)
- Detector= Peak.
- Sweep time= auto couple
- Trace mode= max hold.
- Allow trace to fully stabilize.
- Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

### 7.3 TEST SETUP



### 7.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Spectrum Analyzer	R&S	FSP40	100154	Jul. 04, 2016	Jul. 03. 2017	1 year
Spectrum Analyzer	Agilent	E4407B	MY41440432	Jul. 04, 2016	Jul. 03. 2017	1 year

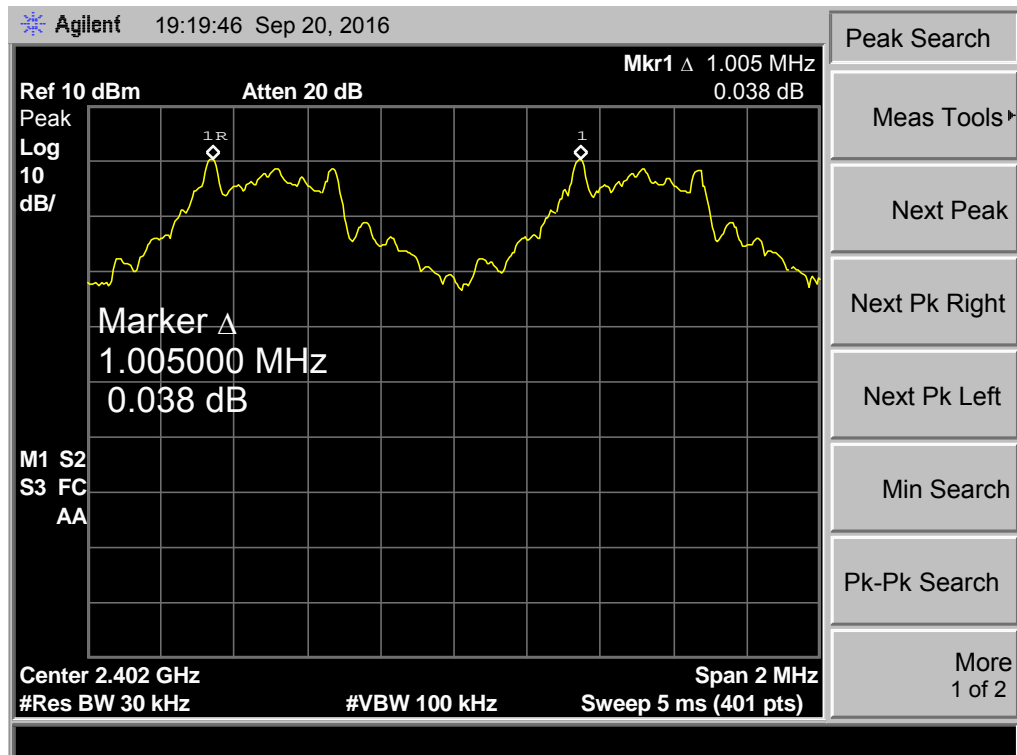
### 7.5 EUT OPERATING CONDITIONS

The EUT was set to continuously transmitting in the maximum power during the test.

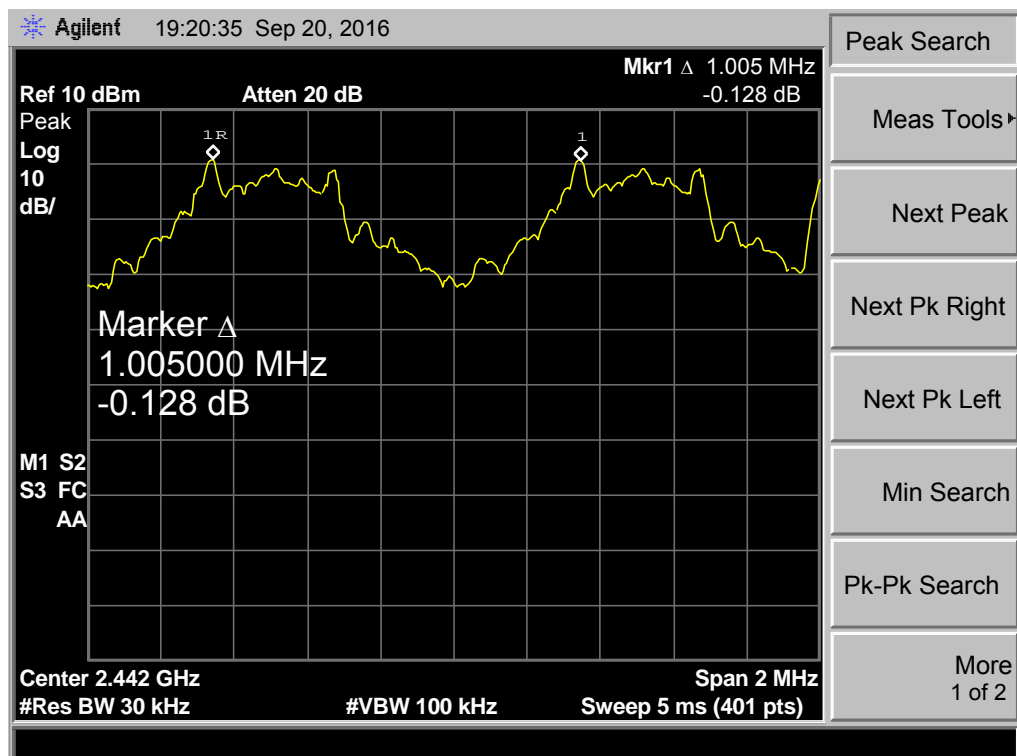
### 7.6 TEST RESULTS

GFSK Mode (1Mbps)		
Frequency (MHz)	Channel Separation (kHz)	Limit (kHz)
2402	1005.00	887.258
2441	1005.00	894.583
2480	1005.00	891.041
8-DPSK Mode (1Mbps)		
Frequency (MHz)	Channel Separation (kHz)	Limit (kHz)
2402	1000.00	770.67
2441	1000.00	756.67
2480	1000.00	762.00
Result: Frequency Separation> two-thirds of the 20 dB bandwidth		<b>PASS</b>
<b>Note:</b> Test plots please refer following pages.		

### 2402 MHz(GFSK)-Channel Separation

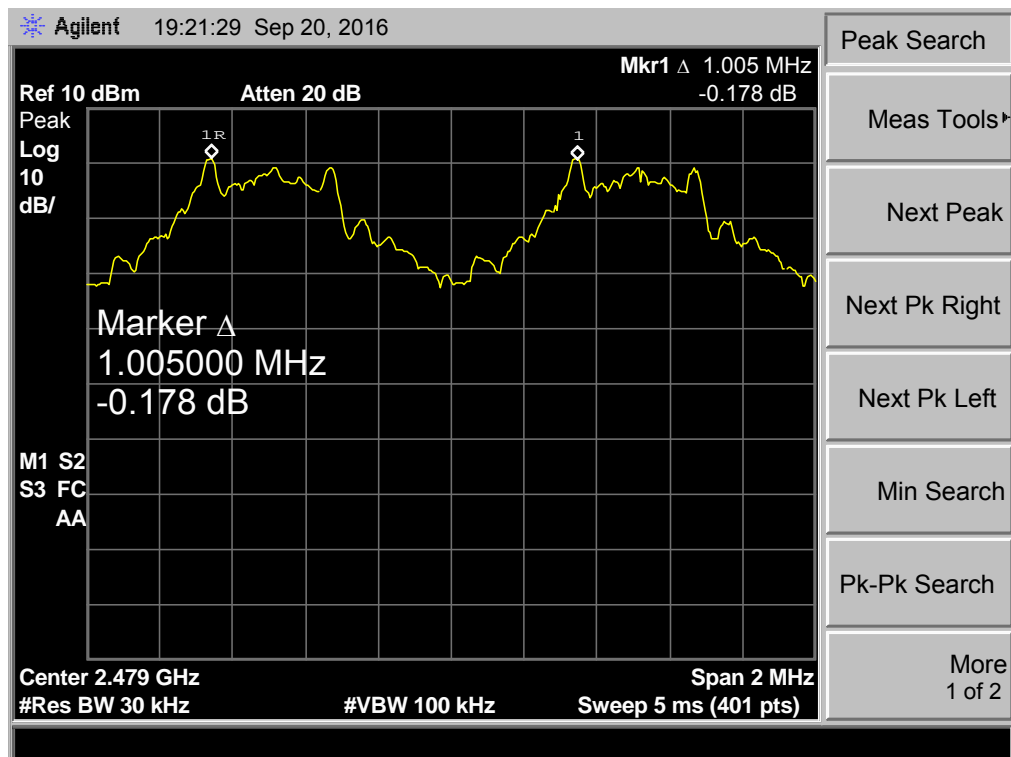


### 2441 MHz(GFSK)-Channel Separation

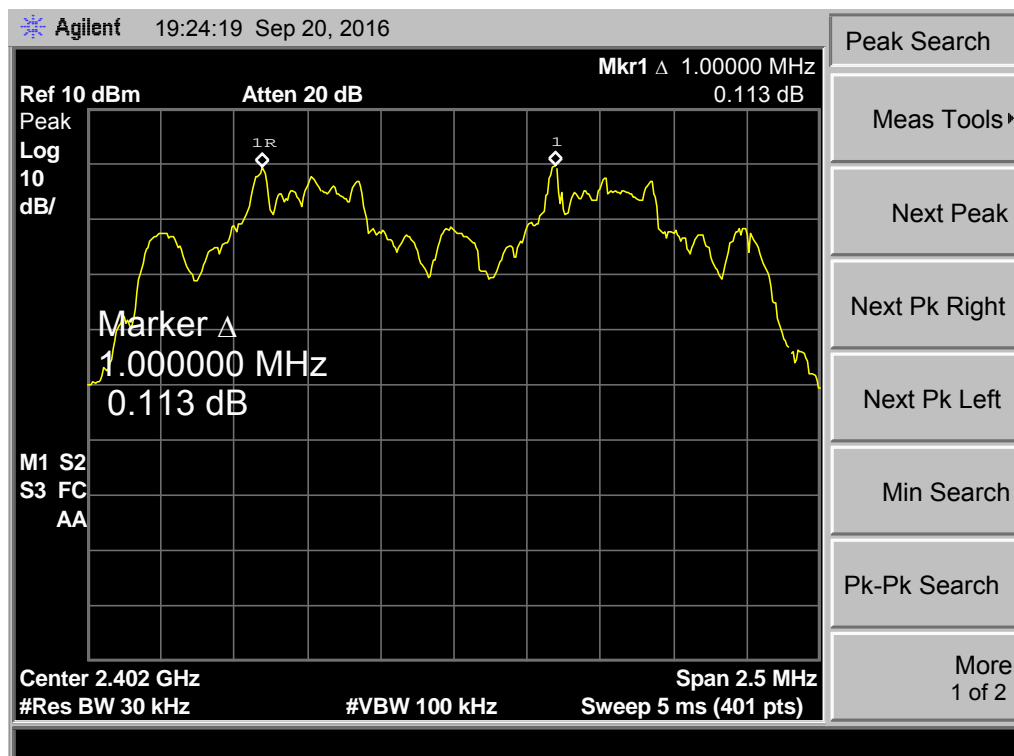




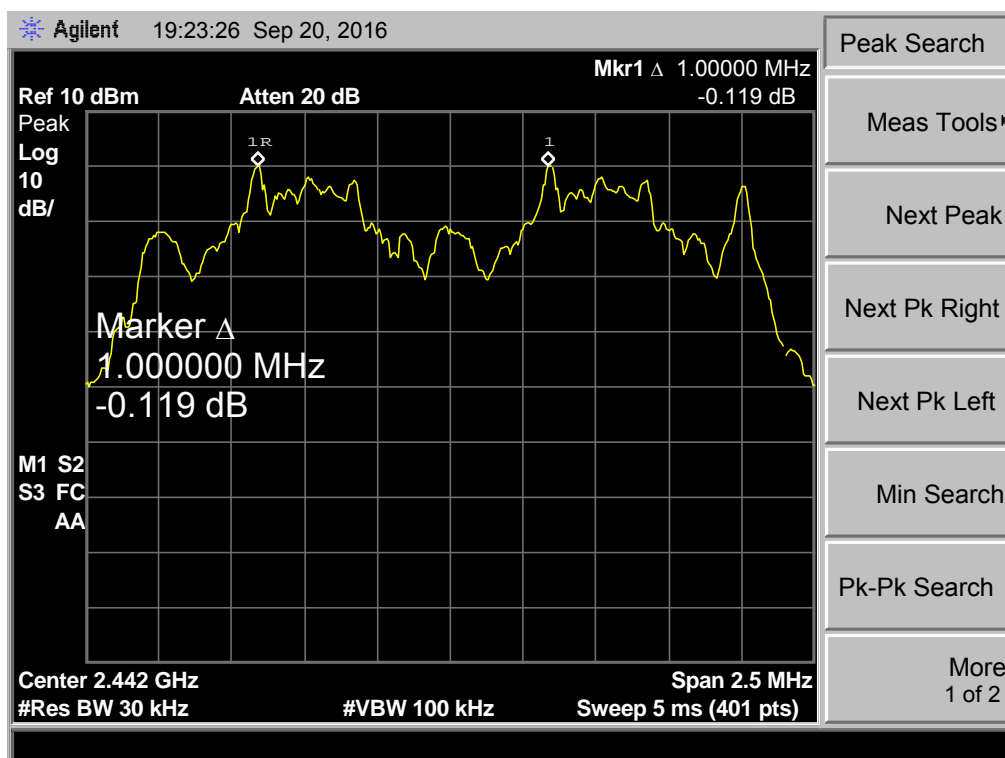
### 2480 MHz(GFSK)-Channel Separation



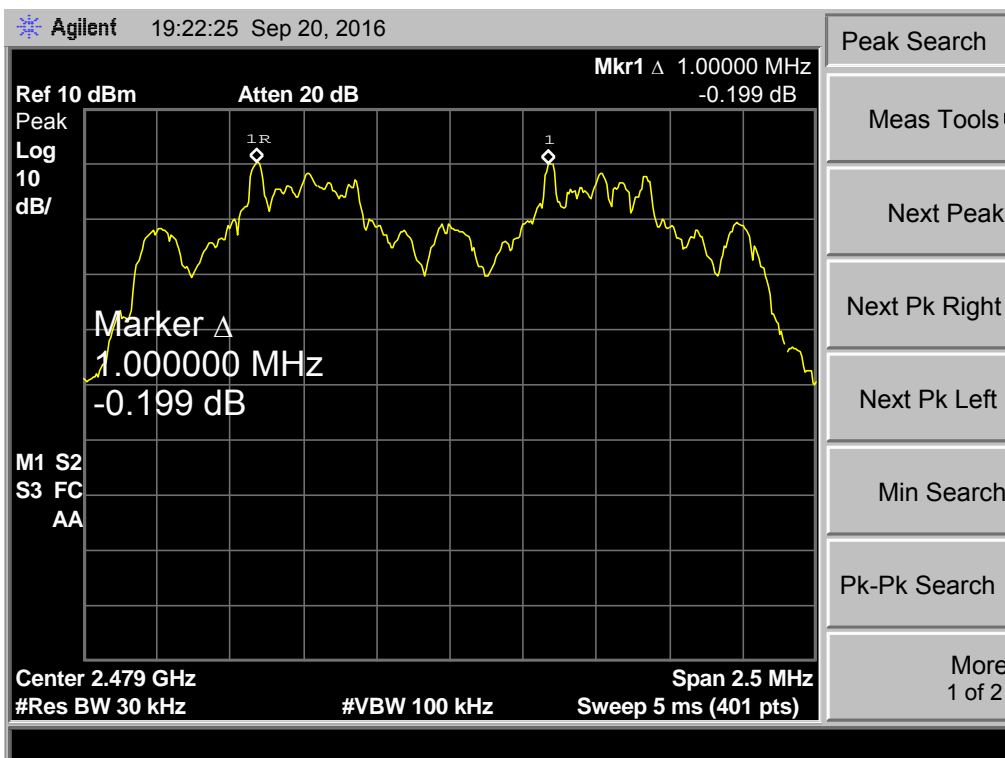
### 2402 MHz(8-DPSK)-Channel Separation



### 2441 MHz(8-DPSK)-Channel Separation



### 2480 MHz(8-DPSK)-Channel Separation



## 8. NUMBER OF HOPPING

### 8.1 LIMITS

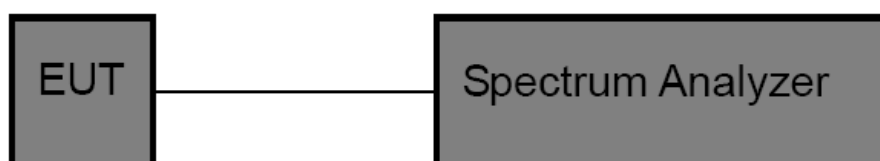
Hopping Number	Frequency hopping systems in 2400-2483.5 MHz band shall use at least 15 channels.
----------------	---

### 8.2 TEST PROCEDURE

The EUT was directly connected to the power meter and antenna output port as show in the block diagram as bellow.

- Set span= the frequency band of operation.
- Set the RBW  $\geq 1\%$  of the span
- Set the VBW  $\geq 3$  RBW (100kHz/ 300kHz)
- Detector= Peak.
- Sweep time= auto couple
- Trace mode= max hold.
- Allow trace to fully stabilize.

### 8.3 TEST SETUP



### 8.4 TEST INSTRUMENTS

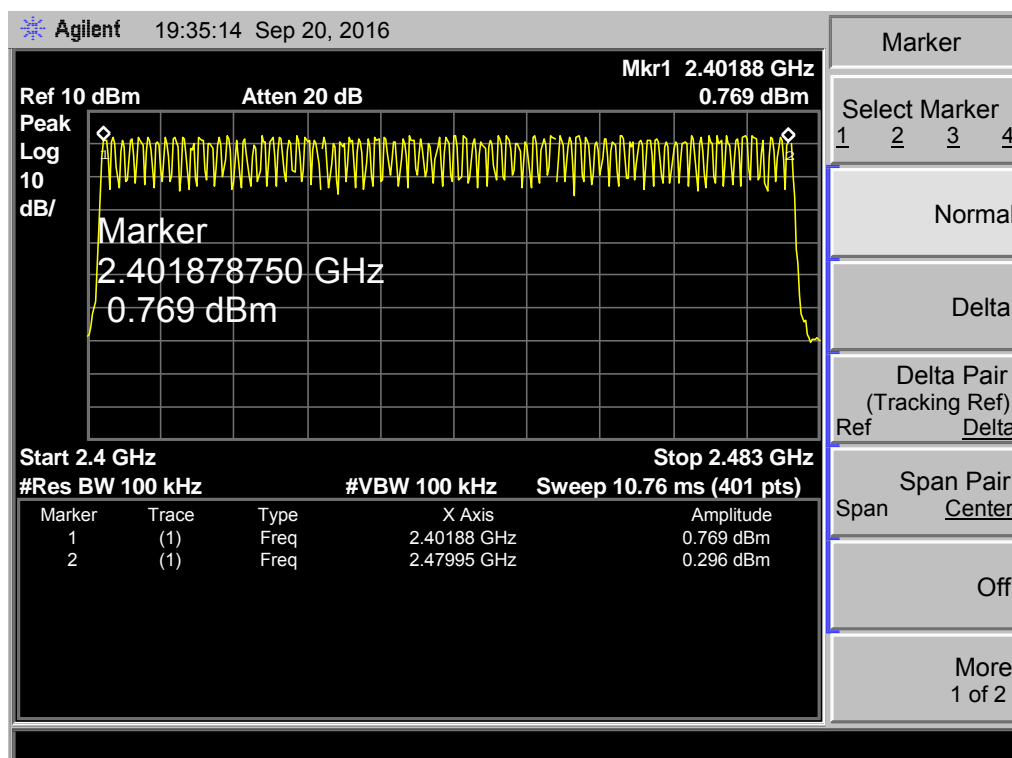
Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Spectrum Analyzer	R&S	FSP40	100154	Jul. 04, 2016	Jul. 03. 2017	1 year
Spectrum Analyzer	Agilent	E4407B	MY41440432	Jul. 04, 2016	Jul. 03. 2017	1 year

### 8.5 EUT OPERATING CONDITIONS

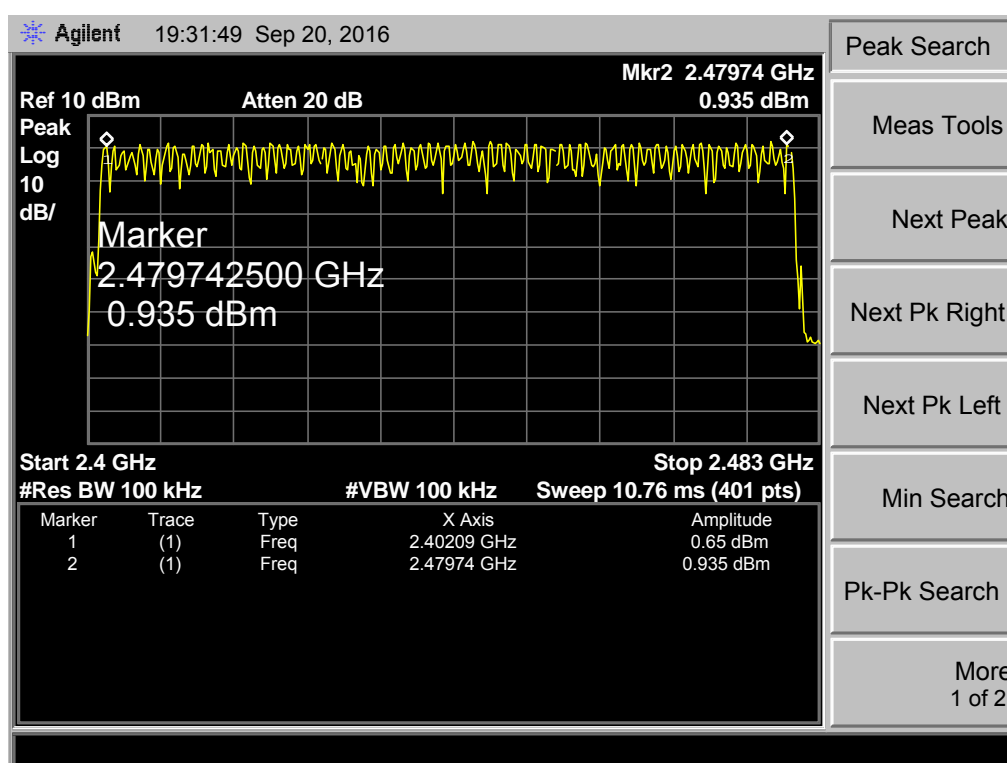
The EUT was set to continuously transmitting in the maximum power during the test.

### 8.6 TEST RESULTS

GFSK Mode (1Mbps)	
Measurement Number	Limit
79	>15



8-DPSK Mode (3Mbps)	
Measurement Number	Limit
79	>15



## 9. DWELL TIME

### 9.1 LIMITS

Dwell Time	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied the number of hopping channels employed.
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### 9.2 TEST PROCEDURE

The EUT was directly connected to the power meter and antenna output port as show in the block diagram as bellow.

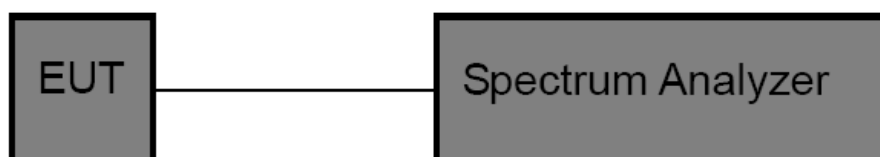
- Set span= zero
- Set the RBW= 1 MHz
- Set the VBW  $\geq$  RBW
- Detector= Peak.
- Sweep time= as necessary to capture the entire dwell time per hopping channel
- Trace mode= max hold
- Use the marker-delta function to determine the dwell time
- Set the EUT for DH5, DH3 and DH1 packet transmitting.
- Measure the maximum time duration of one single pulse.
- A Period Time = (channel number)\*0.4

DH1 Time Slot: Reading \* (1600/2)\*31.6/(channel number)

DH3 Time Slot: Reading \* (1600/4)\*31.6/(channel number)

DH5 Time Slot: Reading \* (1600/6)\*31.6/(channel number)

### 9.3 TEST SETUP



### 9.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Spectrum Analyzer	R&S	FSP40	100154	Jul. 04, 2016	Jul. 03. 2017	1 year
Spectrum Analyzer	Agilent	E4407B	MY41440432	Jul. 04, 2016	Jul. 03. 2017	1 year

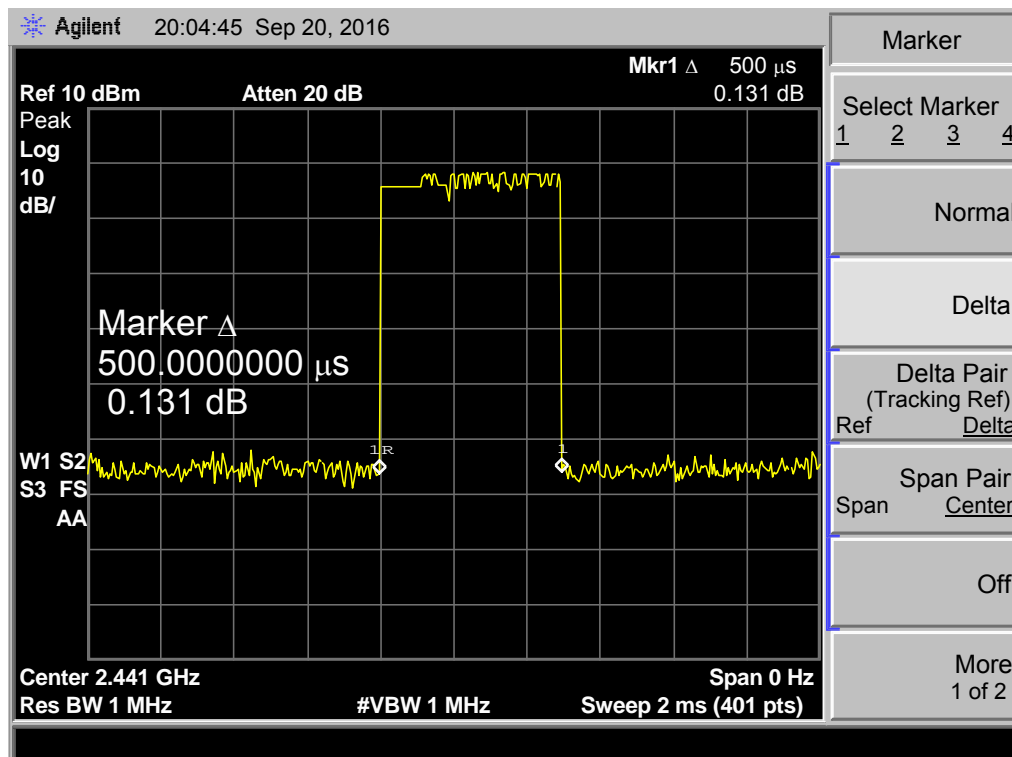
### 9.5 EUT OPERATING CONDITIONS

The EUT was set to continuously transmitting in the maximum power during the test.

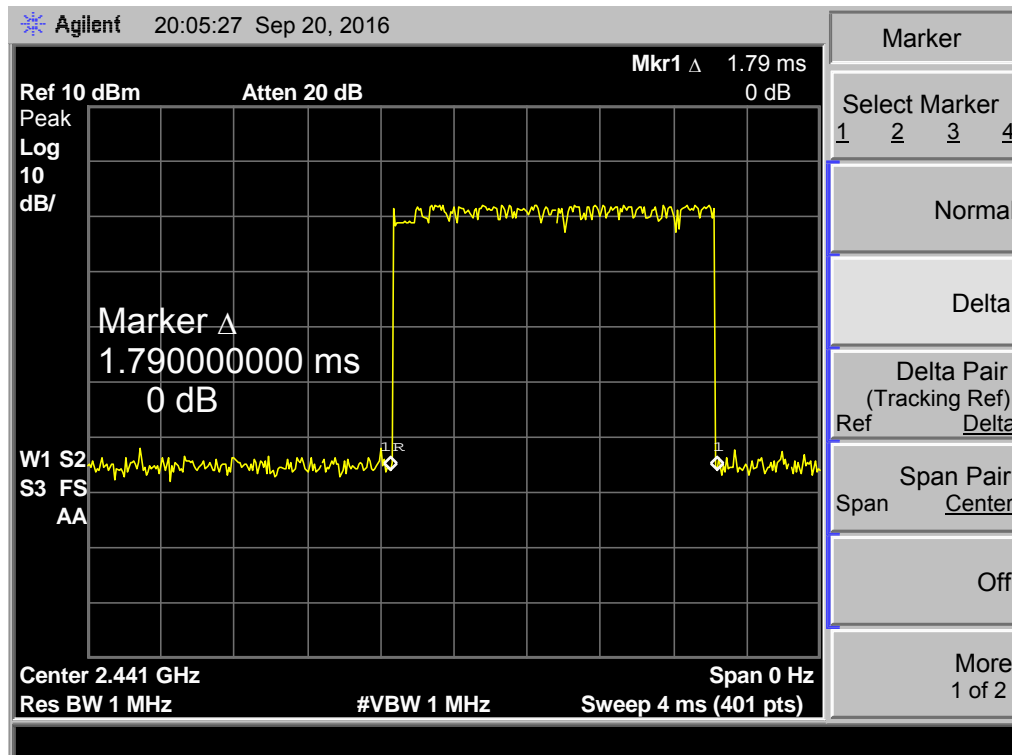
### 9.6 TEST RESULTS

Hopping Mode				
GFSK(1Mbps) 2441MHz				
Frequency (MHz)	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)
DH1	0.500	160.00	31.60	<400
DH3	1.790	286.40	31.60	
DH5	3.040	324.27	31.60	
DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79 DH3 Total of Dwell= Pulse Time*(1600/4)*31.6/79 DH5 Total of Dwell= Pulse Time*(1600/6)*31.6/79				
8-DPSK(3Mbps) 2441MHz				
Frequency (MHz)	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)
3DH1	0.520	166.40	31.60	<400
3DH3	1.780	284.80	31.60	
3DH5	3.040	324.27	31.60	
3DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79 3DH3 Total of Dwell= Pulse Time*(1600/4)*31.6/79 3DH5 Total of Dwell= Pulse Time*(1600/6)*31.6/79				
Note: Test plots please refer following pages.				

### 2441 MHz (GFSK DH1)- Pulse Time

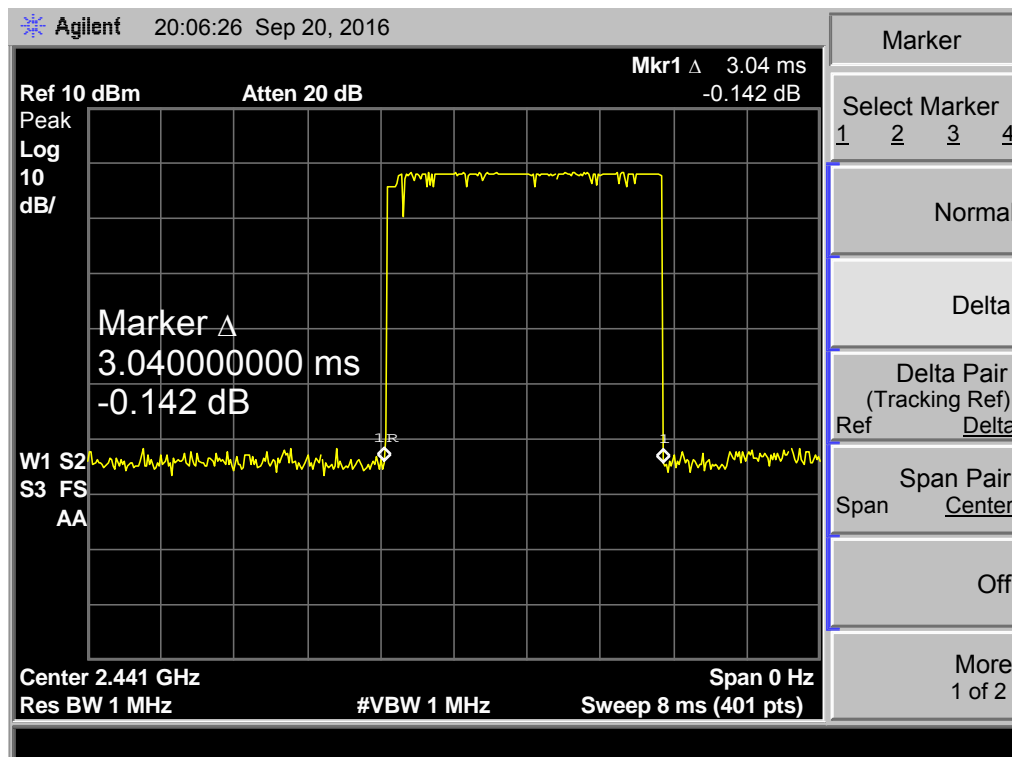


### 2441 MHz (GFSK DH3)- Pulse Time

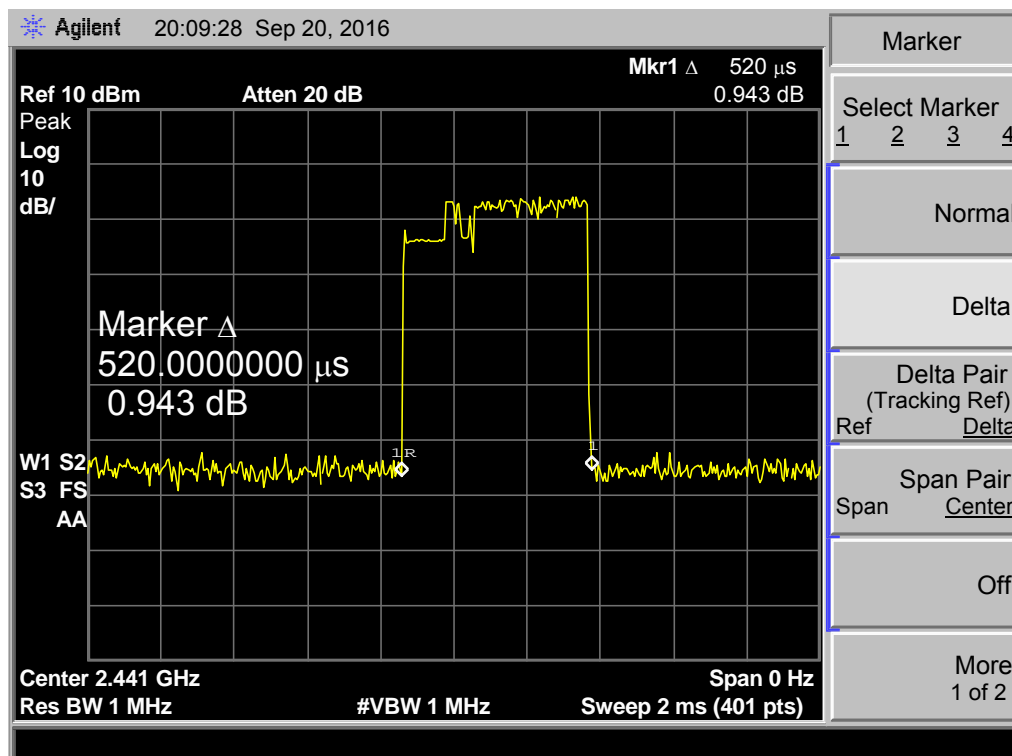




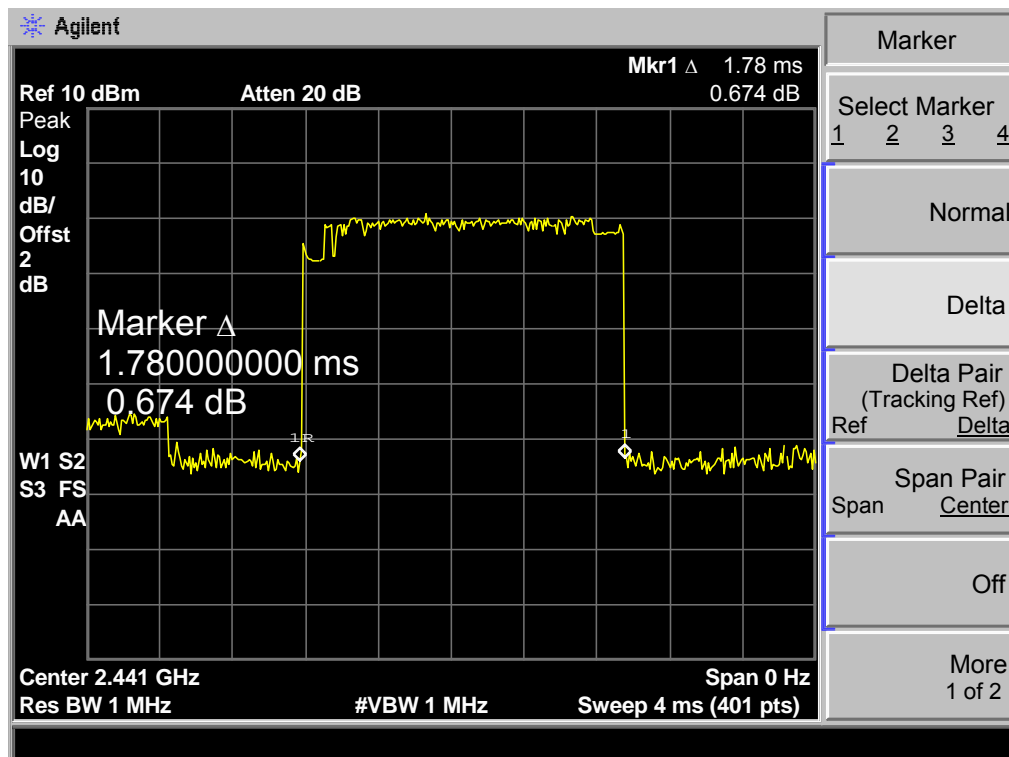
### 2441 MHz (GFSK DH5)- Pulse Time



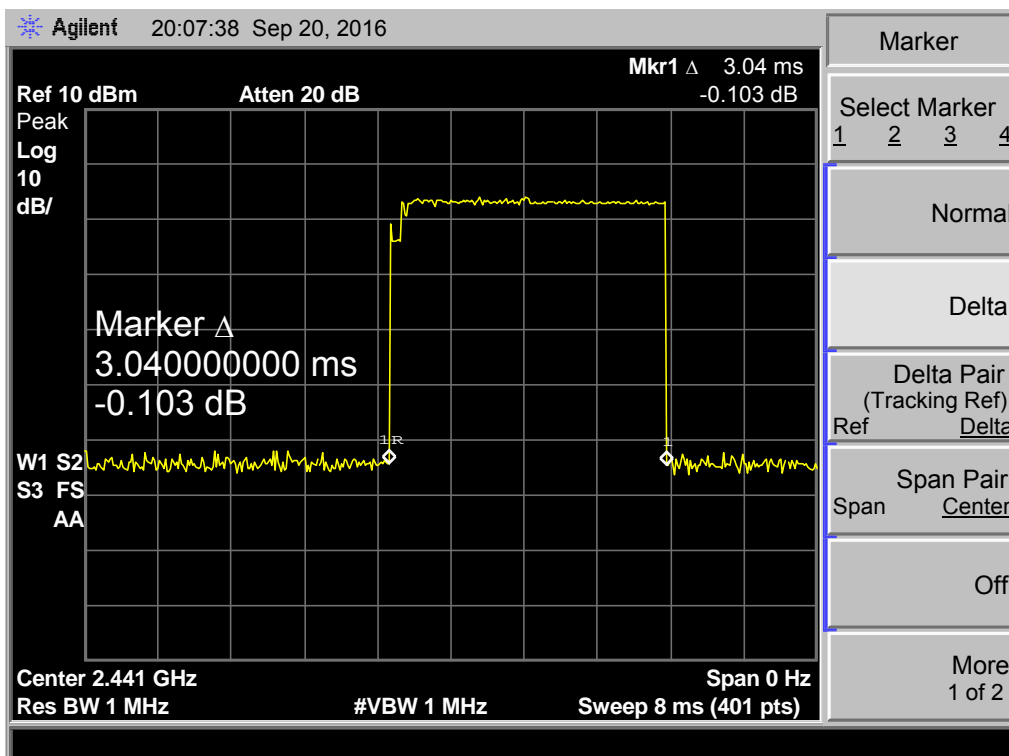
### 2441 MHz (8-DPSK DH1)- Pulse Time



### 2441 MHz (8-DPSK DH3)- Pulse Time



### 2441 MHz (8-DPSK DH5)- Pulse Time



## 10. BAND EDGES MEASUREMENT

### 10.1 LIMITS

Band Edges Requirement	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
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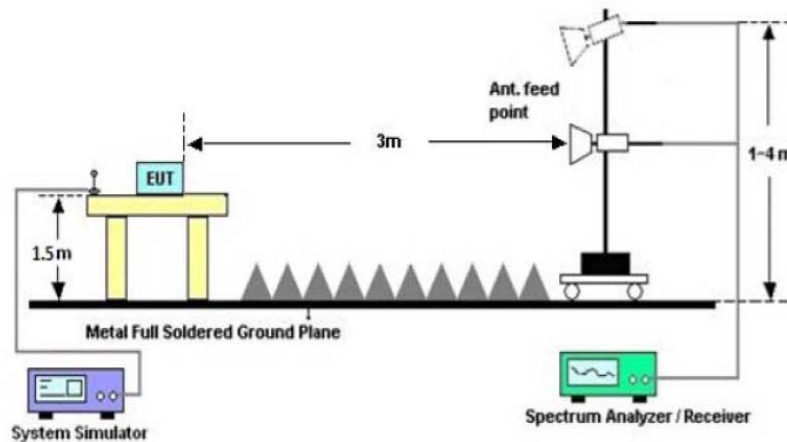
### 10.2 TEST PROCEDURE

The EUT was directly connected to the power meter and antenna output port as show in the block diagram as bellow.

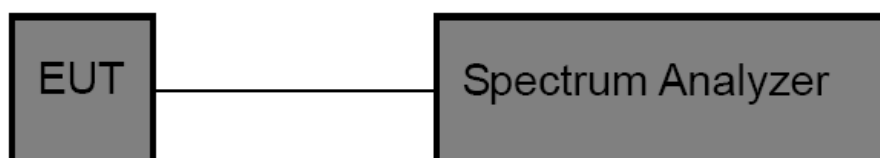
- Set frequency range to capture low band-edge from 2310 MHz up to 2390 MHz, and for up band-edge from 2483.5 MHz up to 2500 MHz
- For low band-edge set the equipment transmit at the lowest channel, and for up band-edge set the equipment transmit at the highest channel
- Set the VBW  $\geq 3$  RBW (100kHz/ 300kHz) for conducted measurement
- For radiated measurements the RBW set to 1 MHz, and the VBW set to 1 MHz for peak measurements and 10 Hz for average measurement

### 10.3 TEST SETUP

#### (A) Radiated Emission Test Set-Up



#### (B) Conducted Emission Test Setup



### 10.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Broadband Antenna	R&S	VULB 9168	VULB 9168-456	Jul. 04, 2016	Jul. 03. 2017	1 year
Test Cable	N/A	R-01	N/A	Jul. 04, 2016	Jul. 03. 2017	1 year
Test Cable	N/A	R-02	N/A	Jul. 04, 2016	Jul. 03. 2017	1 year
EMI Test Receiver	R&S	ESCI	101324	Jul. 04, 2016	Jul. 03. 2017	1 year
Spectrum Analyzer	Agilent	E4407B	MY41440432	Jul. 04, 2016	Jul. 03. 2017	1 year
Antenna Mast	EM	SC100_1	N/A	N/A	N/A	N/A
Turn Table	EM	SC100	060531	N/A	N/A	N/A
50Ω Switch	Anritsu Corp	MP59B	6200983705	Jul. 04, 2016	Jul. 03. 2017	1 year
Spectrum Analyzer	R&S	FSP40	100154	Jul. 04, 2016	Jul. 03. 2017	1 year
Horn Antenna	R&S	HF906	10029	Jul. 04, 2016	Jul. 03. 2017	1 year
Amplifier	EM	EM-30180	060538	Jul. 04, 2016	Jul. 03. 2017	1 year

#### 10.5 EUT OPERATING CONDITIONS

The EUT was set to continuously transmitting in the maximum power during the test.

#### 10.6 TEST RESULTS

### Bandedge(Radiated Emission)

EUT :	Kids Tablet			Model Name. :		X6	
Temperature :	26 °C			Relative Humidity :		56%	
Test Power :	AC 120V/60Hz			Pressure :		1010 hPa	
Test Mode :	TX GFSK Mode			Test Date :		2016-09-23	
Freq.	Deceiver Reading	Detector	Polar	Corrected Factor	Emission Level	Limit	Margin
MHz	dBuV	Peak/Avg	H/V	dB	dBuV /m	dBuV /m	dB
Low Channel- 2402MHz							
2390	52.27	Peak	H	-3.00	49.27	74	-24.73
2390	41.47	Avg	H	-3.00	38.47	54	-15.53
2402	94.99	Peak	H	-3.12	91.87	Fundamental Frequency	
2402	89.55	Avg	H	-3.12	86.43	Fundamental Frequency	
2390	52.14	Peak	V	-3.00	49.14	74	-24.86
2390	40.89	Avg	V	-3.00	37.89	54	-16.11
2402	90.79	Peak	V	-3.12	87.67	Fundamental Frequency	
2402	84.90	Avg	V	-3.12	81.78	Fundamental Frequency	
High Channel- 2480MHz							
2480	92.82	Peak	H	-2.50	90.32	Fundamental Frequency	
2480	87.84	Avg	H	-2.50	85.34	Fundamental Frequency	
2483.5	61.64	Peak	H	-2.50	59.14	74	-14.86
2483.5	50.67	Avg	H	-2.50	48.17	54	-5.83
2480	88.95	Peak	V	-2.50	86.45	Fundamental Frequency	
2480	83.88	Avg	V	-2.50	81.38	Fundamental Frequency	
2483.5	60.63	Peak	V	-2.50	58.13	74	-15.87
2483.5	50.18	Avg	V	-2.50	47.68	54	-6.32

Remark:

Emission Level= Read Level+ Correct Factor

Margin= Emission Level-Limit

No report for the emission which more than 10 dB below the prescribed limit.

EUT :	Kids Tablet			Model Name. :	X6		
Temperature :	26 °C			Relative Humidity :	56%		
Test Power :	AC 120V/60Hz			Pressure :	1010 hPa		
Test Mode :	TX 8-DPSK Mode			Test Date :	2016-09-23		
Freq.	Deceiver Reading	Detector	Polar	Corrected Factor	Emission Level	Limit	Margin
MHz	dBuV	Peak/Avg	H/V	dB	dBuV /m	dBuV /m	dB
Low Channel- 2402MHz							
2390	52.35	Peak	H	-3.00	49.35	74	-24.65
2390	41.46	Avg	H	-3.00	38.46	54	-15.54
2402	92.15	Peak	H	-3.12	89.03	Fundamental Frequency	
2402	87.65	Avg	H	-3.12	84.53	Fundamental Frequency	
2390	51.98	Peak	V	-3.00	48.98	74	-25.02
2390	40.57	Avg	V	-3.00	37.57	54	-16.43
2402	89.33	Peak	V	-3.12	86.21	Fundamental Frequency	
2402	83.64	Avg	V	-3.12	80.52	Fundamental Frequency	
High Channel- 2480MHz							
2480	91.82	Peak	H	-2.50	89.32	Fundamental Frequency	
2480	86.91	Avg	H	-2.50	84.41	Fundamental Frequency	
2483.5	61.18	Peak	H	-2.50	58.68	74	-15.32
2483.5	50.29	Avg	H	-2.50	47.79	54	-6.21
2480	87.85	Peak	V	-2.50	85.35	Fundamental Frequency	
2480	83.24	Avg	V	-2.50	80.74	Fundamental Frequency	
2483.5	60.66	Peak	V	-2.50	58.16	74	-15.84
2483.5	50.16	Avg	V	-2.50	47.66	54	-6.34

Remark:

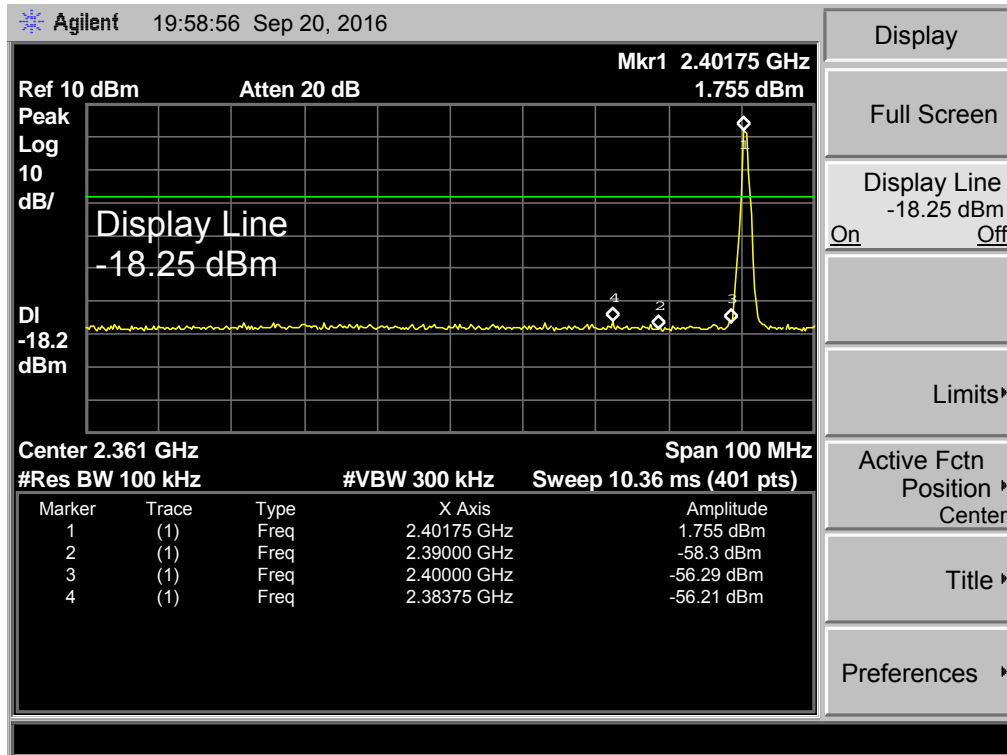
Emission Level= Read Level+ Correct Factor

Margin= Emission Level-Limit

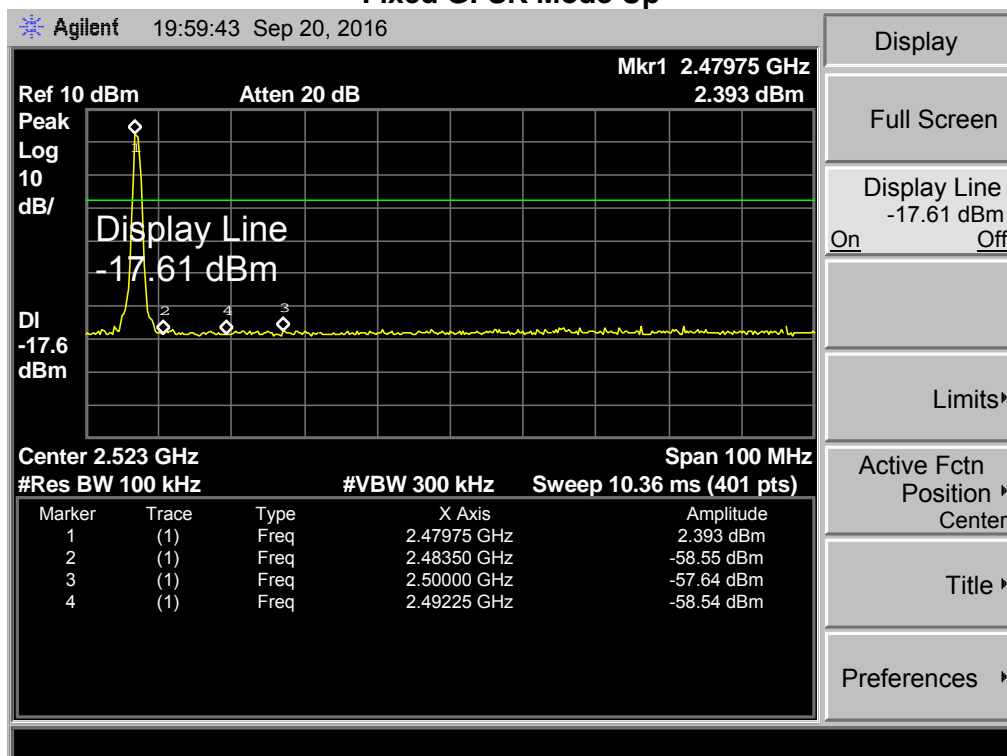
No report for the emission which more than 10 dB below the prescribed limit.

## Bandedge(Conducted Emission)

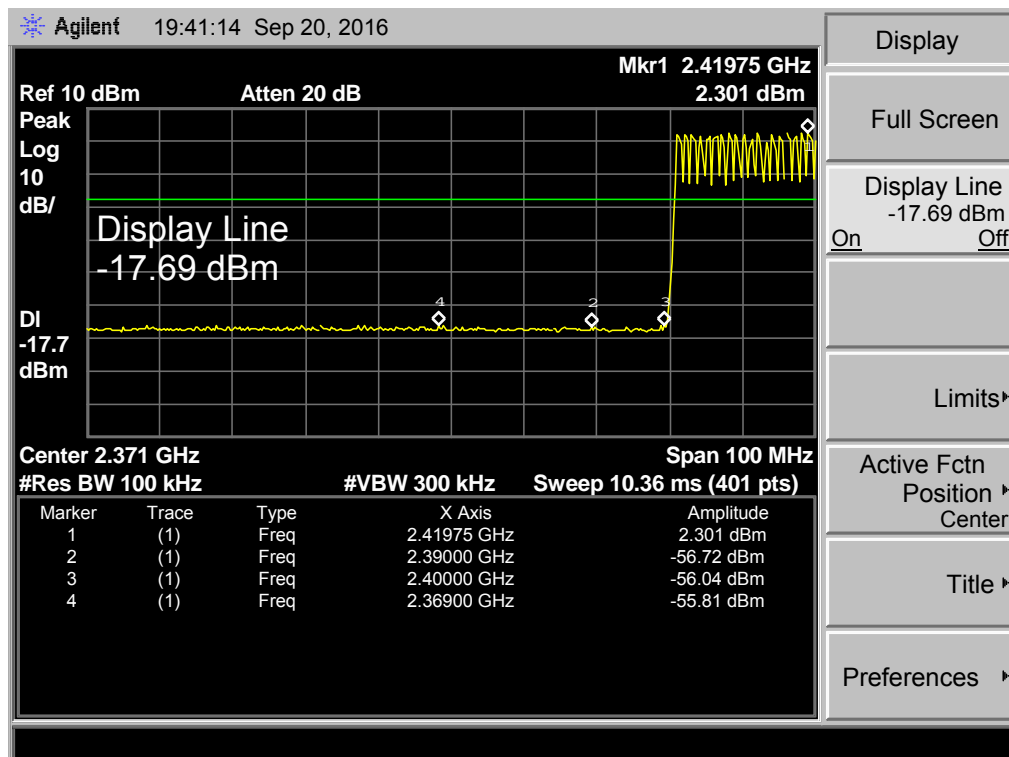
### Fixed GFSK Mode Low



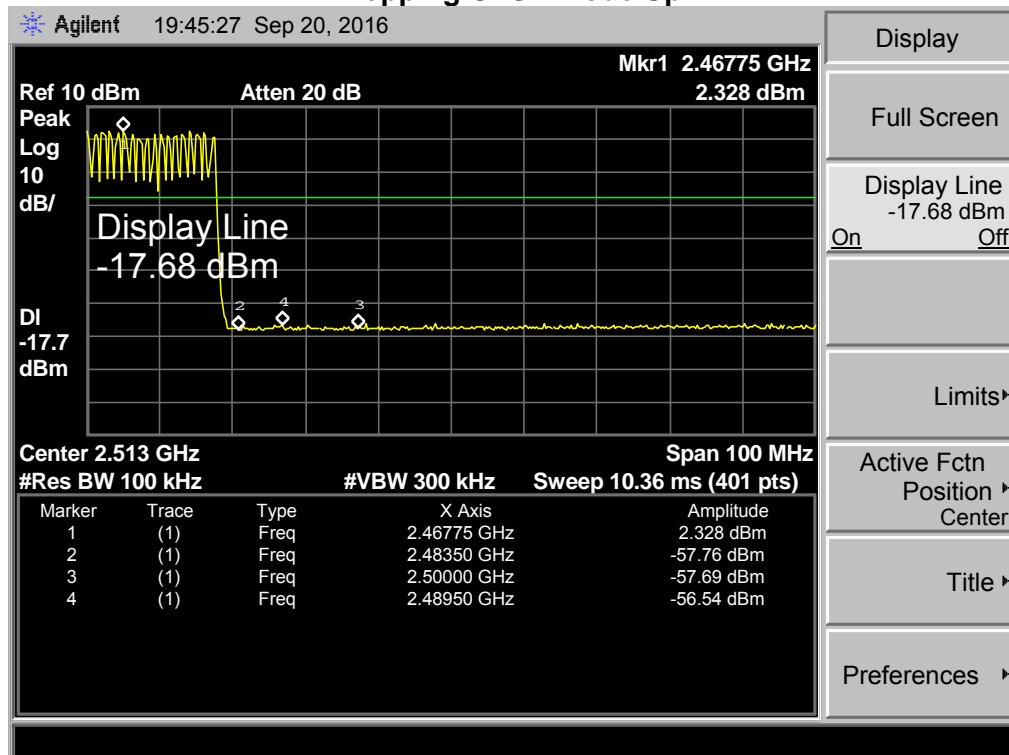
### Fixed GFSK Mode Up



### Hopping GFSK Mode Low

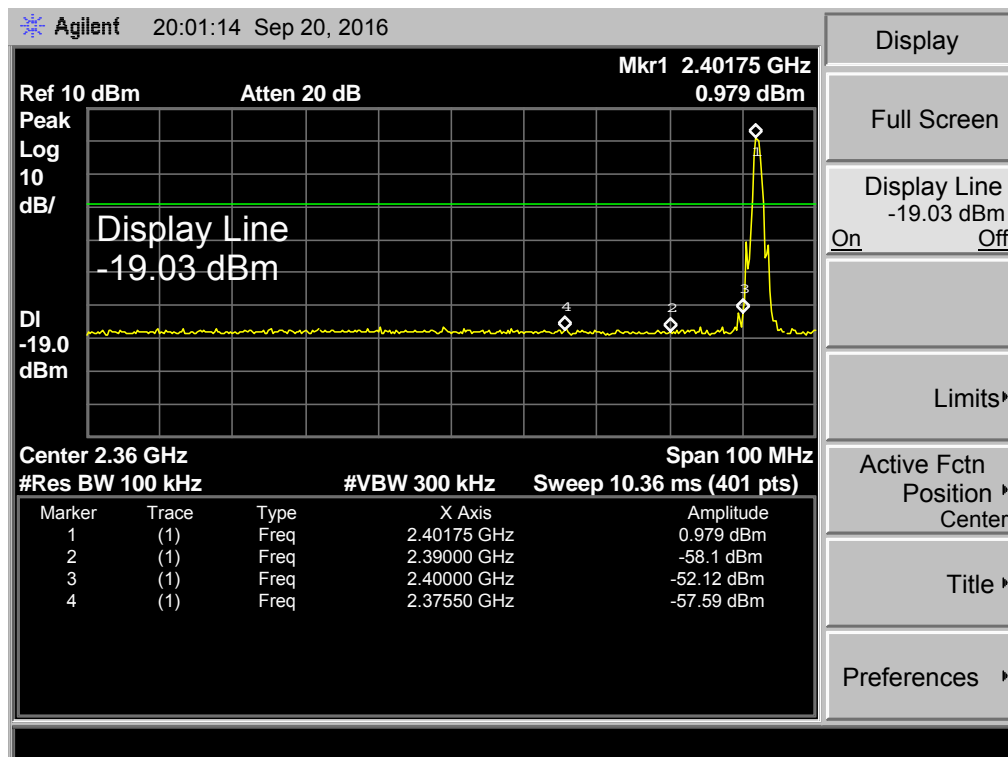


### Hopping GFSK Mode Up

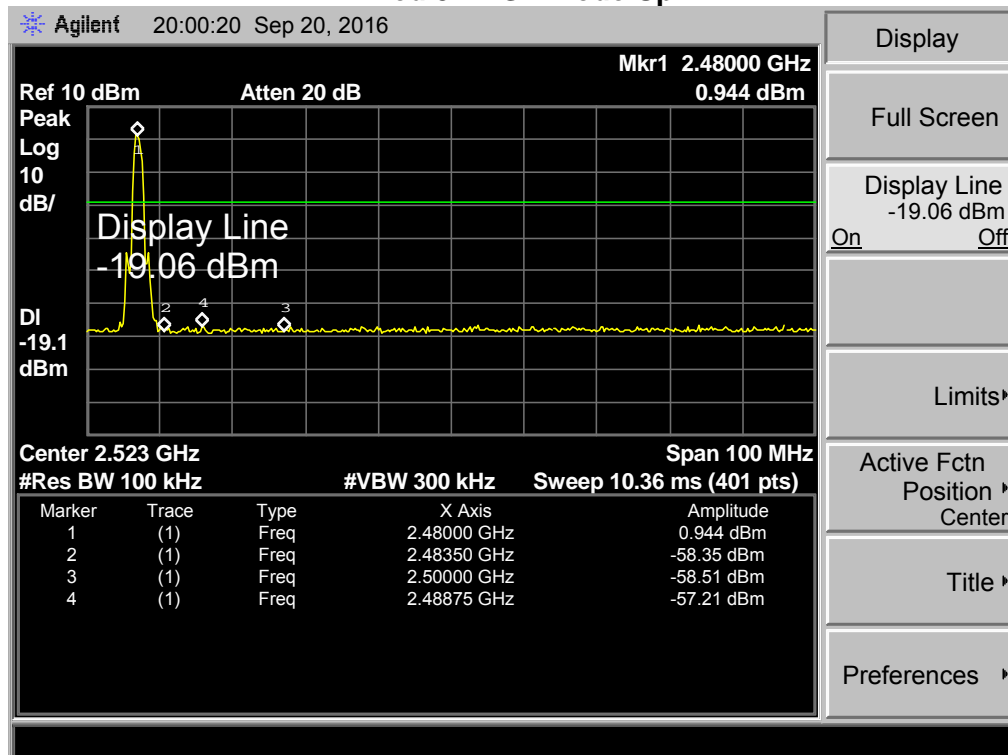




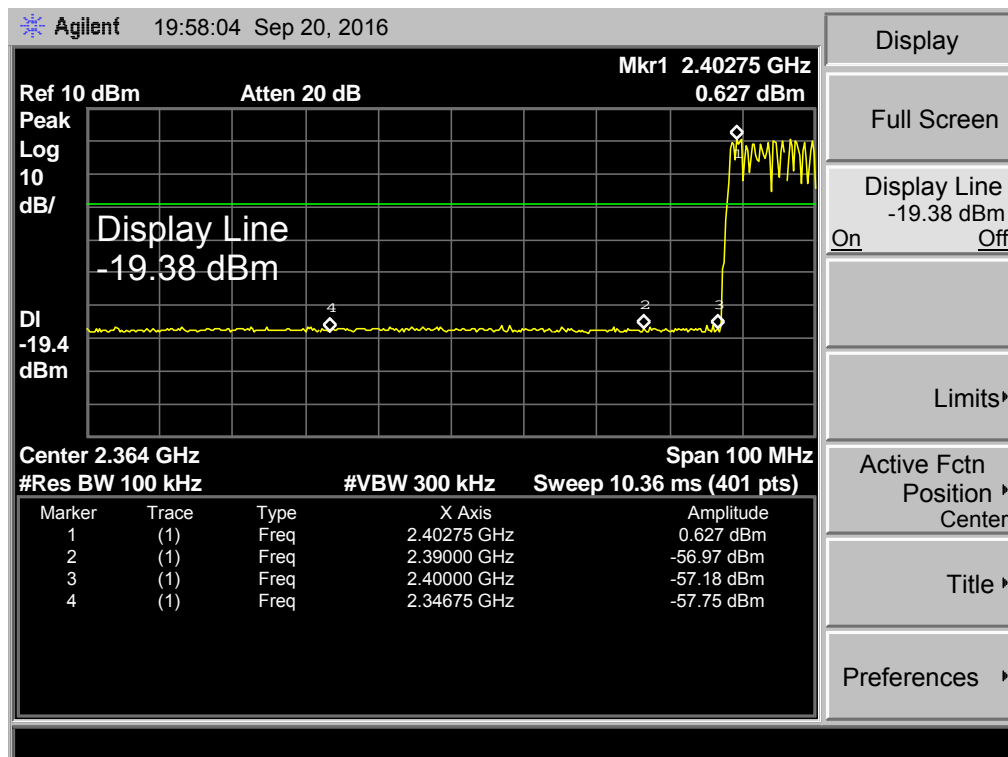
### Fixed 8-DPSK Mode Low



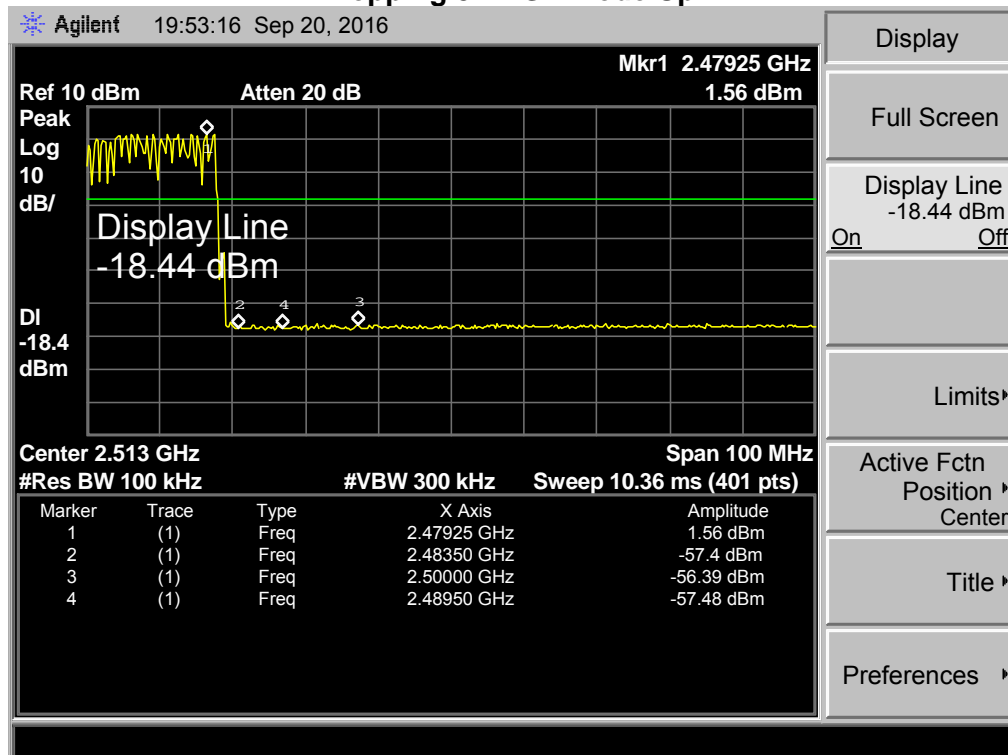
### Fixed 8-DPSK Mode Up



### Hopping 8-DPSK Mode Low



### Hopping 8-DPSK Mode Up



## 11. ANTENNA REQUIREMENT

### 11.1 REQUIREMENT

Antenna Requirement (15.203)	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
Antenna Requirement (15.247)	If transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 11.2 ANTENNA CONNECTOR CONSTRUCTION

The EUT antenna is a Internal Antenna. And the maximum gain of this antenna is 0.85 dBi. It complies with the standard requirement.

\*\*\*\*\*END OF REPORT\*\*\*\*\*