

# FCC Test Report

**FCC ID** : VQK-F05F  
**Equipment** : Mobile Phone  
**Model No.** : F-05F  
**Brand Name** : FUJITSU  
**Applicant** : FUJITSU LIMITED  
**Address** : 1-1, Kamikodanaka 4-chome, Nakahara-ku,  
Kawasaki 211-8588, Japan  
**Standard** : 47 CFR FCC Part 15.247  
**Received Date** : Dec. 25, 2013  
**Tested Date** : Mar. 03 ~ Mar. 05, 2014

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:

  
\_\_\_\_\_  
Gary Chang / Manager

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## Release Record

Report No.	Version	Description	Issued Date
FR3D2502AD	Rev. 01	Initial issue	Mar. 20, 2014

## Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.153MHz 46.82 (Margin -9.00dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 42.61MHz 34.11 (Margin -5.89dB) - PK	Pass
15.247(d)	Band Edge	Meet the requirement of limit	Pass
15.247(b)(1)	Conducted Output Power	Power [dBm]: GFSK: 8.61 8DPSK: 9.57	Pass
15.247(a)(1)(iii)	Number of Hopping Channels	Meet the requirement of limit	Pass
15.247(a)(1)	Hopping Channel Separation	Meet the requirement of limit	Pass
15.247(a)(1)(iii)	Dwell Time	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

# 1 General Description

## 1.1 Information

### 1.1.1 Product Details

Product Name	Mobile Phone
Brand Name	FUJITSU
Model Name	F-05F
IMEI Code	359401050022851, 359401050022695
H/W Version	V2.1.0
S/W Version	R18Ae

### 1.1.2 Specification of the Equipment under Test (EUT)

RF General Information				
Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number	Data Rate
2400-2483.5	BR	2402-2480	0-78 [79]	1 Mbps
2400-2483.5	EDR	2402-2480	0-78 [79]	2 Mbps
2400-2483.5	EDR	2402-2480	0-78 [79]	3 Mbps

Note 1: RF output power specifies that Maximum Peak Conducted Output Power.  
 Note 2: Bluetooth BR uses a GFSK.  
 Note 3: Bluetooth EDR uses a combination of  $\pi/4$ -DQPSK and 8DPSK.

### 1.1.3 Antenna Details

Type	Gain (dBi)	Connector	Remark
$\lambda/4$ Monopole	-6.8	---	---

### 1.1.4 EUT Operational Condition

Power Supply Type	Battery: 3.75Vdc / 3200mAh Adapter: DC5.0V 1.8A, DC9.0V 1.8A
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### 1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	Battery (Built-in battery)	Brand Name: Panasonic Model Name: CA54310-0052 Power Rating: O/P: 3.75Vdc, 3200mA

### 1.1.6 Channel List

Frequency band (MHz)				2400~2483.5			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	---	---

### 1.1.7 Test Tool and Power setting

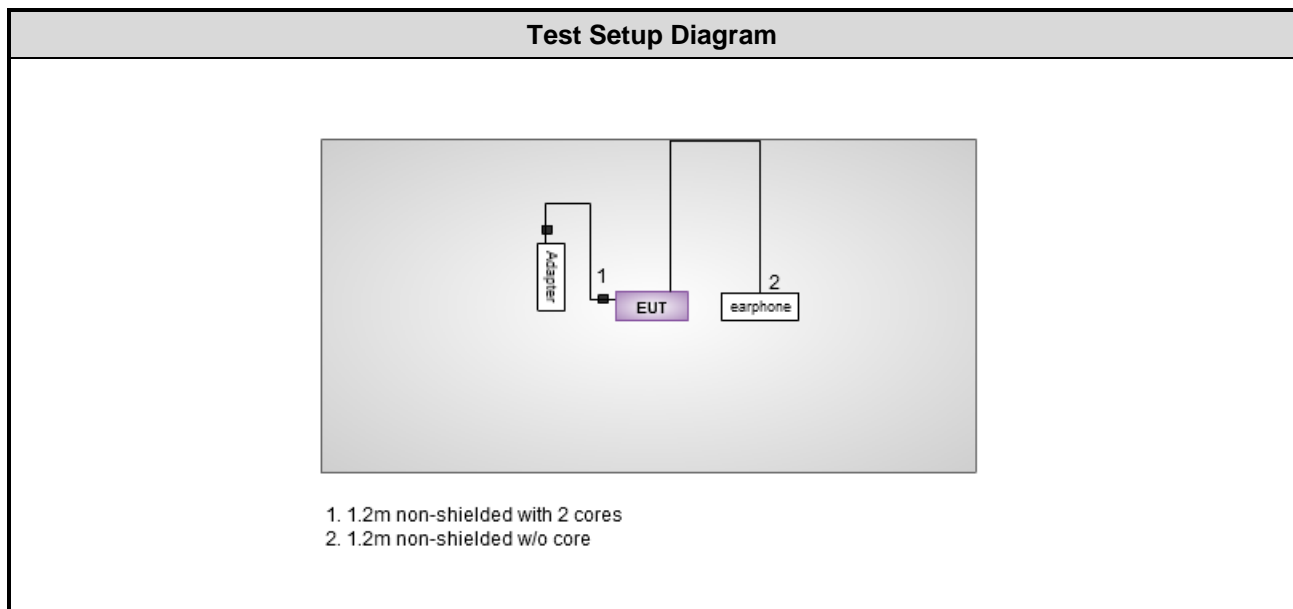
Test tool	QRCT, Ver 3.0.7.0		
Modulation Mode	Test Frequency (MHz)		
	2402	2441	2480
GFSK/1Mbps	Default	Default	Default
8DPSK/3Mbps	Default	Default	Default

## 1.2 Local Support Equipment List

Support Equipment List						
No.	Equipment	Brand	Model	S/N	FCC ID	Signal cable / Length (m)
1	Adapter	NTT docomo	AC Adaptor 05	---	---	1.2m non-shielded with 2 cores
2	Earphone	Apple	MD827FE/A	---	---	1.2m non-shielded w/o core

Note: Item 1 was provided by client.

## 1.3 Test Setup Chart



## 1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Jan. 25, 2014	Jan. 24, 2015
Receiver	R&S	ESR3	101658	Jan. 10, 2014	Jan. 09, 2015
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jan. 02, 2014	Jan. 01, 2015
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Feb. 13, 2014	Feb. 12, 2015
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Dec. 27, 2013	Dec. 26, 2014
Preamplifier	Burgeon	BPA-530	SN:100219	Nov. 22, 2013	Nov. 21, 2014
Preamplifier	Agilent	83017A	MY39501308	Dec. 16, 2013	Dec. 15, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 16, 2013	Dec. 15, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 16, 2013	Dec. 15, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 16, 2013	Dec. 15, 2014
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 16, 2013	Dec. 15, 2014
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 16, 2013	Dec. 15, 2014
Note: Calibration Interval of instruments listed above is one year.					

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014
Preamplifier	EM	EM18G40G	060572	Jun. 20, 2013	Jun. 19, 2014
Note: Calibration Interval of instruments listed above is two year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Feb. 17, 2014	Feb. 16, 2015
Power Meter	Anritsu	ML2495A	1241002	Oct. 24, 2013	Oct. 23, 2014
Power Sensor	Anritsu	MA2411B	1207366	Oct. 24, 2013	Oct. 23, 2014
Note: Calibration Interval of instruments listed above is one year.					



<b>Test Item</b>	Conducted Emission				
<b>Test Site</b>	Conduction room 1 / (CO01-WS)				
<b>Instrument</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
EMC Receiver	R&S	ESCS 30	100169	Oct. 15, 2013	Oct. 14, 2014
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 23, 2013	Nov. 22, 2014
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Dec. 04, 2013	Dec. 03, 2014
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Apr. 24, 2013	Apr. 23, 2014
50 ohm terminal (Support Unit)	NA	50	04	Apr. 22, 2013	Apr. 21, 2014
Note: Calibration Interval of instruments listed above is one year.					

## 1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

FCC Public notice DA 00-705

ANSI C63.10-2009

Note: The EUT has been tested and complied with FCC part 15B requirement. FCC Part 15B test results are issued to another report.

## 1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ( $k=2$ ))

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	$\pm 35.286$ Hz
Conducted power	$\pm 0.536$ dB
Frequency error	$\pm 35.286$ Hz
Temperature	$\pm 0.3$ °C
Conducted emission	$\pm 2.946$ dB
AC conducted emission	$\pm 2.43$ dB
Radiated emission	$\pm 2.49$ dB

## 2 Test Configuration

### 2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	13°C / 60%	Skys Huang
Radiated Emissions	03CH01-WS	23°C / 64%	Brad Wu / Haru Yang
RF Conducted	TH01-WS	22°C / 64%	Felix Sung

➤ FCC site registration No.: 657002

➤ IC site registration No.: 10807A-1

### 2.2 The Worst Test Modes and Channel Details

Test item	Mode	Test Frequency (MHz)	Data Rate (Mbps)	Test Configuration
Conducted Emissions	8DPSK	2402	3Mbps	---
Radiated Emissions ≤ 1GHz	8DPSK	2402	3Mbps	---
Radiated Emissions > 1GHz	GFSK 8DPSK	2402, 2441, 2480 2402, 2441, 2480	1Mbps 3Mbps	---
Conducted Output Power	GFSK 8DPSK	2402, 2441, 2480 2402, 2441, 2480	1Mbps 3Mbps	---
Number of Hopping Channels	GFSK 8DPSK	2402~2480 2402~2480	1Mbps 3Mbps	---
Hopping Channel Separation	GFSK 8DPSK	2402, 2441, 2480 2402, 2441, 2480	1Mbps 3Mbps	---
Dwell Time	GFSK 8DPSK	2480 2480	1Mbps 3Mbps	---

**NOTE:**

- The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** results were found as the worst case and were shown in this report.

### 3 Transmitter Test Results

#### 3.1 Conducted Emissions

##### 3.1.1 Limit of Conducted Emissions

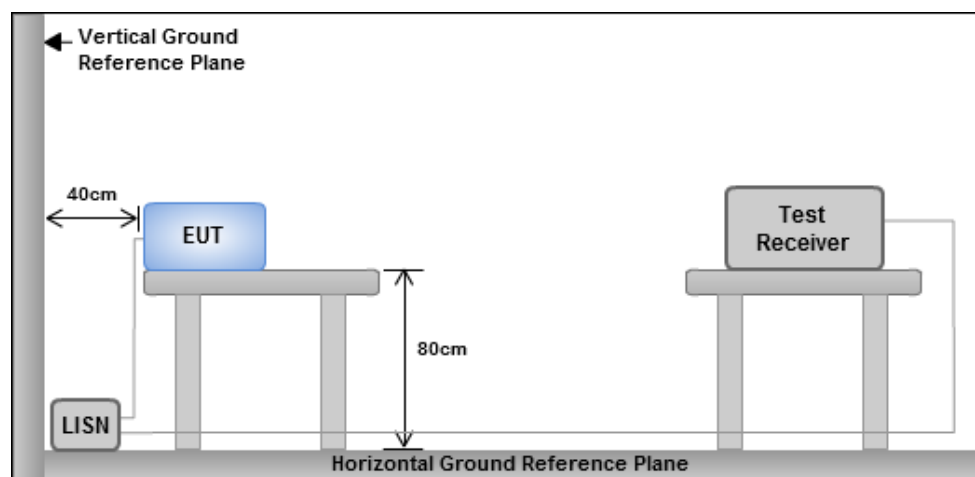
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: \* Decreases with the logarithm of the frequency.

##### 3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50  $\Omega$  LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

##### 3.1.3 Test Setup

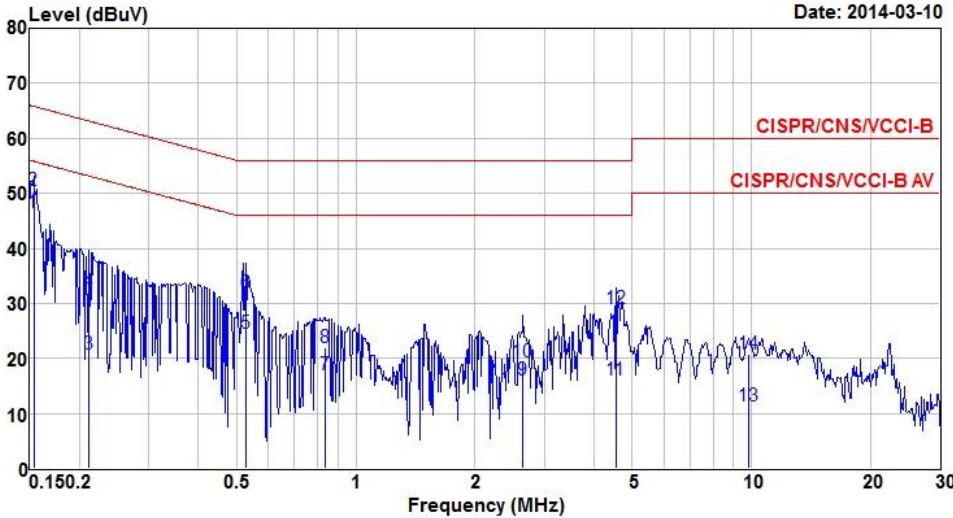


- Note: 1. Support units were connected to second LISN.  
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

### 3.1.4 Test Result of Conducted Emissions

Modulation	8DPSK	Test Freq. (MHz)	2480
Power Phase	Line		



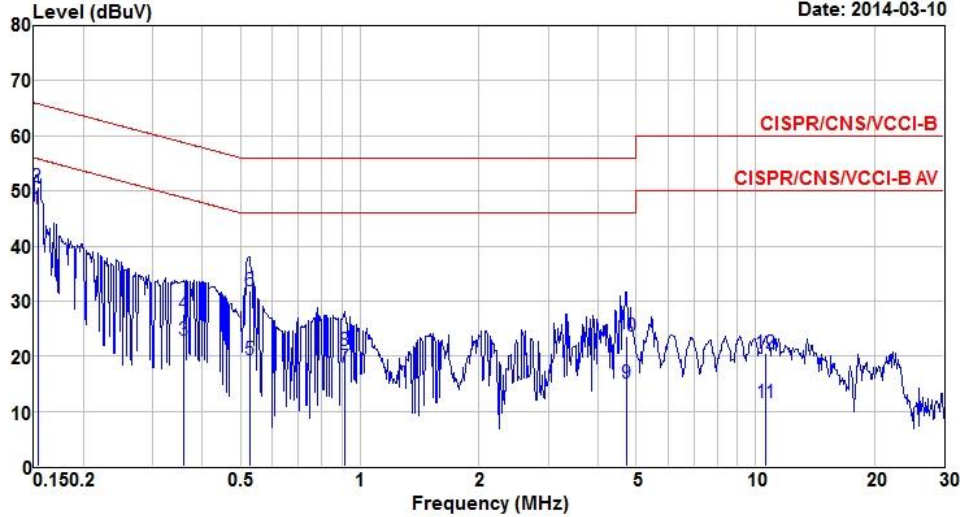
Date: 2014-03-10

	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1*	0.153	46.42	55.82	-9.40	45.94	0.41	0.07	Average
2	0.153	50.60	65.82	-15.22	50.12	0.41	0.07	QP
3	0.212	20.89	53.14	-32.25	20.29	0.43	0.17	Average
4	0.212	32.11	63.14	-31.03	31.51	0.43	0.17	QP
5	0.527	24.49	46.00	-21.51	23.85	0.59	0.05	Average
6	0.527	31.81	56.00	-24.19	31.17	0.59	0.05	QP
7	0.835	17.01	46.00	-28.99	16.28	0.69	0.04	Average
8	0.835	21.91	56.00	-34.09	21.18	0.69	0.04	QP
9	2.650	15.96	46.00	-30.04	14.74	1.03	0.19	Average
10	2.650	19.47	56.00	-36.53	18.25	1.03	0.19	QP
11	4.549	16.01	46.00	-29.99	14.64	1.15	0.22	Average
12	4.549	29.05	56.00	-26.95	27.68	1.15	0.22	QP
13	9.861	11.23	50.00	-38.77	9.43	1.69	0.11	Average
14	9.861	20.67	60.00	-39.33	18.87	1.69	0.11	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV)

Modulation	8DPSK	Test Freq. (MHz)	2480
Power Phase	Neutral		



Date: 2014-03-10

	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1*	0.153	46.82	55.82	-9.00	46.26	0.49	0.07	Average
2	0.153	50.68	65.82	-15.14	50.12	0.49	0.07	QP
3	0.358	22.85	48.78	-25.93	22.19	0.59	0.07	Average
4	0.358	27.55	58.78	-31.23	26.89	0.59	0.07	QP
5	0.527	19.29	46.00	-26.71	18.57	0.67	0.05	Average
6	0.527	31.90	56.00	-24.10	31.18	0.67	0.05	QP
7	0.918	17.97	46.00	-28.03	17.15	0.78	0.04	Average
8	0.918	20.95	56.00	-35.05	20.13	0.78	0.04	QP
9	4.721	15.02	46.00	-30.98	13.57	1.23	0.22	Average
10	4.721	23.60	56.00	-32.40	22.15	1.23	0.22	QP
11	10.620	11.65	50.00	-38.35	9.75	1.79	0.11	Average
12	10.620	20.62	60.00	-39.38	18.72	1.79	0.11	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV)

## 3.2 Unwanted Emissions into Restricted Frequency Bands

### 3.2.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

**Note 1:**  
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

**Note 2:**  
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

### 3.2.2 Test Procedures

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

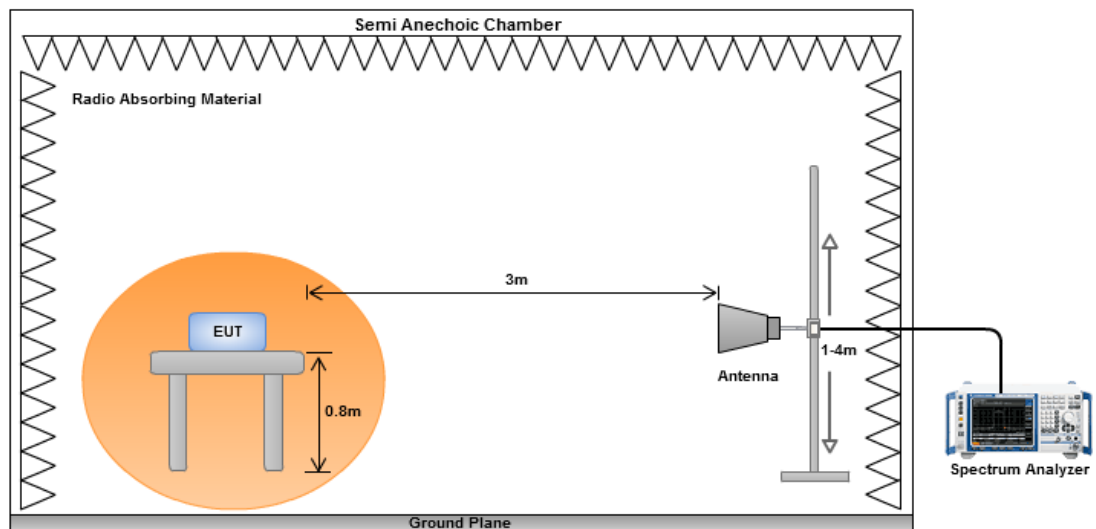
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. Radiated emission above 1GHz / Peak value  
RBW=1MHz, VBW=3MHz and Peak detector  
Radiated emission above 1GHz / Average value for harmonics  
The average value is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula for DH5 packet type which has worst duty factor:
3. 
$$20\log (\text{Duty cycle}) = 20\log \frac{1\text{s} / 1600 * 5}{100 \text{ ms}} = -30.1\text{dB}$$
4. Radiated emission above 1GHz / Average value for other emissions  
RBW=1MHz, VBW=1/T and Peak detector

### 3.2.3 Test Setup

#### Radiated Emissions below 1 GHz



#### Radiated Emissions above 1 GHz

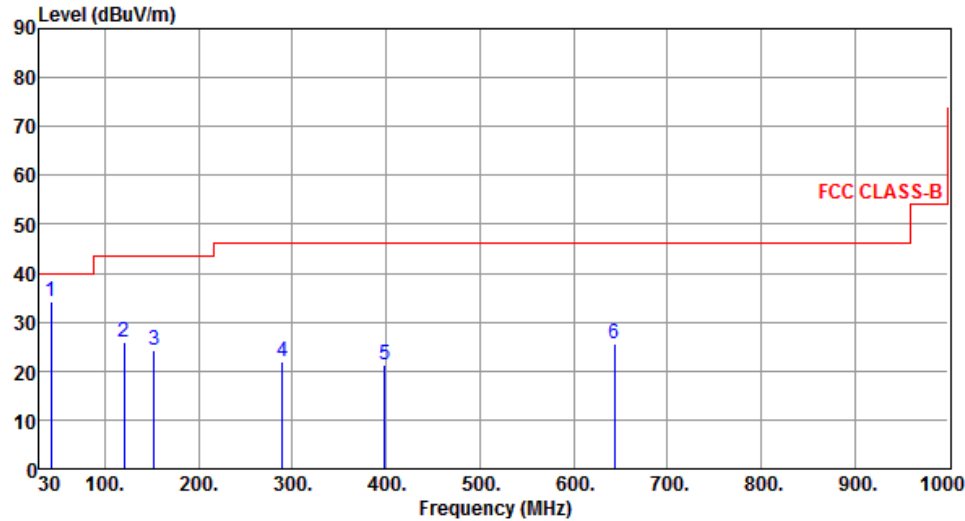


### 3.2.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	8DPSK	Test Freq. (MHz)	2402
Polarization	Horizontal		
<div><div><div>Level (dBuV/m)</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div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Modulation	8DPSK	Test Freq. (MHz)	2402
Polarization	Vertical		



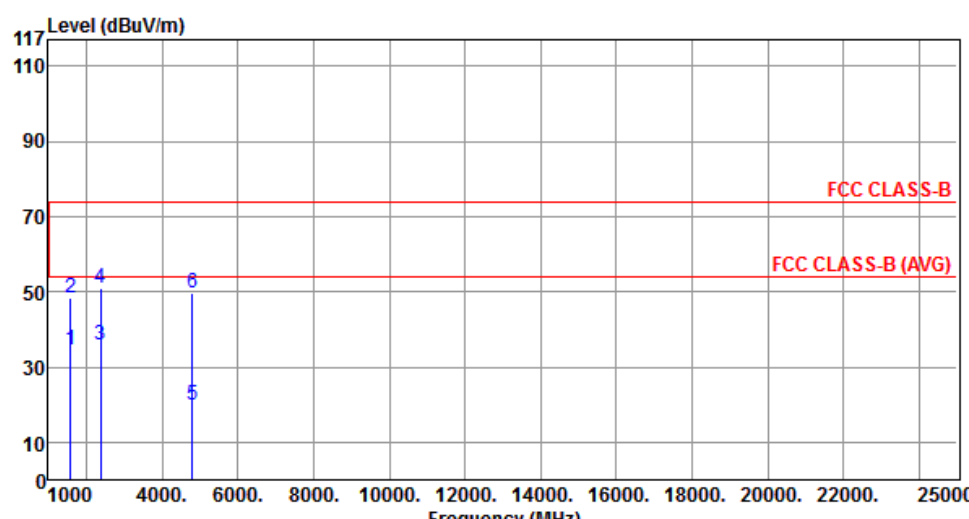
The spectrum plot shows the emission level in dBUV/m across a frequency range from 30 MHz to 1000 MHz. The y-axis ranges from 0 to 90 dBUV/m. A red step function represents the FCC CLASS-B limit, starting at 40 dBUV/m from 30 MHz to 100 MHz, rising to 45 dBUV/m from 100 MHz to 1000 MHz, and then rising to 70 dBUV/m. Six specific peaks are identified and labeled with blue numbers 1 through 6. Below the plot is a table summarizing the data for these peaks.

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	42.61	34.11	40.00	-5.89	51.04	-16.93	Peak	---	---
2	120.21	25.75	43.50	-17.75	44.87	-19.12	Peak	---	---
3	152.22	24.16	43.50	-19.34	40.97	-16.81	Peak	---	---
4	288.99	21.82	46.00	-24.18	38.32	-16.50	Peak	---	---
5	398.60	21.37	46.00	-24.63	35.06	-13.69	Peak	---	---
6	644.01	25.42	46.00	-20.58	34.33	-8.91	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).  
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

### 3.2.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for GFSK

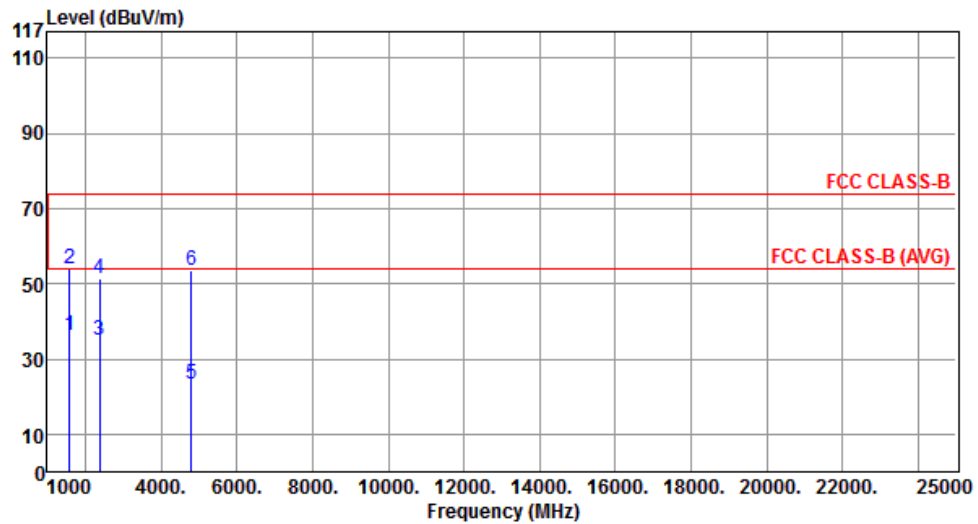
Modulation	GFSK	Test Freq. (MHz)	2402
Polarization	Horizontal		

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1594.00	34.55	54.00	-19.45	41.36	-6.81	Average	---	---
2	1594.00	48.40	74.00	-25.60	55.21	-6.81	Peak	---	---
3	2390.00	35.78	54.00	-18.22	39.46	-3.68	Average	---	---
4	2390.00	51.10	74.00	-22.90	54.78	-3.68	Peak	---	---
5	4804.00	19.72	54.00	-34.28	14.76	4.96	Average	---	---
6	4804.00	49.82	74.00	-24.18	44.86	4.96	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	GFSK	Test Freq. (MHz)	2402
Polarization	Vertical		



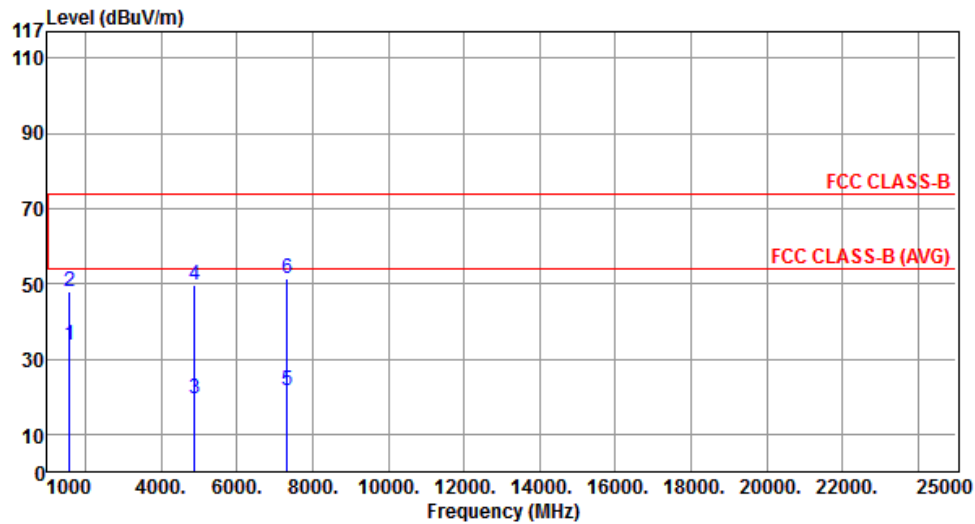
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1594.00	36.15	54.00	-17.85	42.96	-6.81	Average	---	---
2	1594.00	53.86	74.00	-20.14	60.67	-6.81	Peak	---	---
3	2390.00	34.87	54.00	-19.13	38.55	-3.68	Average	---	---
4	2390.00	51.23	74.00	-22.77	54.91	-3.68	Peak	---	---
5	4804.00	23.46	54.00	-30.54	18.50	4.96	Average	---	---
6	4804.00	53.56	74.00	-20.44	48.60	4.96	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	GFSK	Test Freq. (MHz)	2441
Polarization	Horizontal		



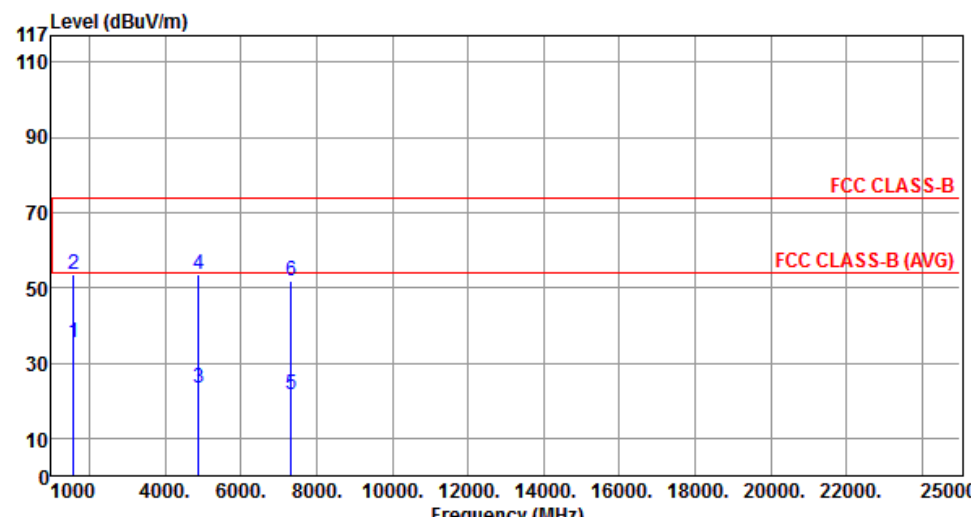
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1594.00	33.64	54.00	-20.36	40.45	-6.81	Average	---	---
2	1594.00	48.03	74.00	-25.97	54.84	-6.81	Peak	---	---
3	4882.00	19.36	54.00	-34.64	14.24	5.12	Average	---	---
4	4882.00	49.46	74.00	-24.54	44.34	5.12	Peak	---	---
5	7323.00	21.38	54.00	-32.62	12.04	9.34	Average	---	---
6	7323.00	51.48	74.00	-22.52	42.14	9.34	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	GFSK	Test Freq. (MHz)	2441
Polarization	Vertical		



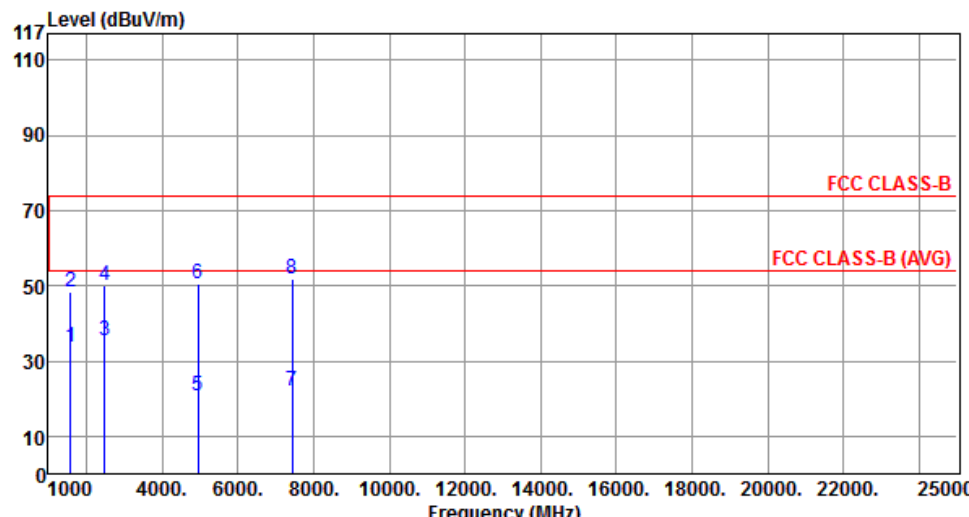
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1594.00	35.56	54.00	-18.44	42.37	-6.81	Average	---	---
2	1594.00	53.47	74.00	-20.53	60.28	-6.81	Peak	---	---
3	4882.00	23.26	54.00	-30.74	18.14	5.12	Average	---	---
4	4882.00	53.36	74.00	-20.64	48.24	5.12	Peak	---	---
5	7323.00	21.51	54.00	-32.49	12.17	9.34	Average	---	---
6	7323.00	51.61	74.00	-22.39	42.27	9.34	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	GFSK	Test Freq. (MHz)	2480
Polarization	Horizontal		

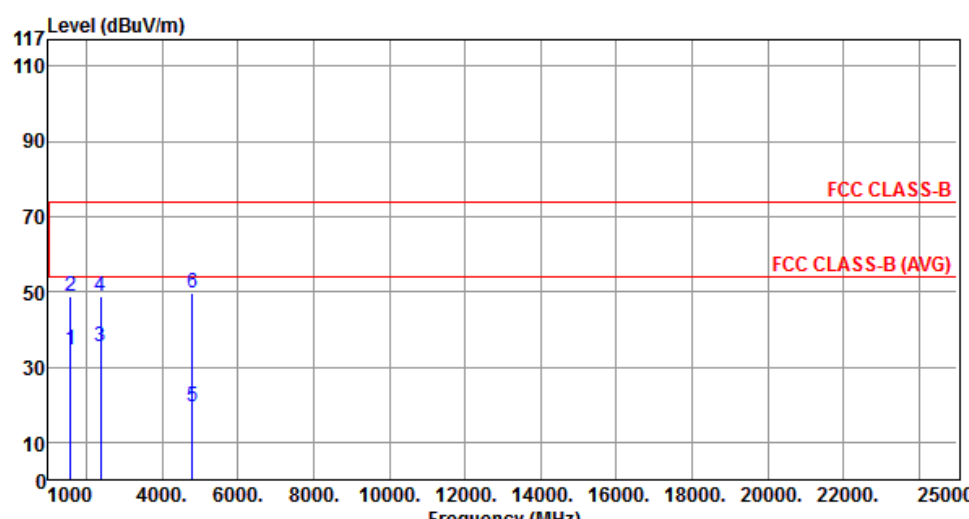
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1594.00	33.80	54.00	-20.20	40.61	-6.81	Average	---	---
2	1594.00	48.32	74.00	-25.68	55.13	-6.81	Peak	---	---
3	2483.50	35.49	54.00	-18.51	38.79	-3.30	Average	---	---
4	2483.50	49.98	74.00	-24.02	53.28	-3.30	Peak	---	---
5	4960.00	20.59	54.00	-33.41	15.31	5.28	Average	---	---
6	4960.00	50.69	74.00	-23.31	45.41	5.28	Peak	---	---
7	7440.00	21.86	54.00	-32.14	12.27	9.59	Average	---	---
8	7440.00	51.96	74.00	-22.04	42.37	9.59	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	GFSK	Test Freq. (MHz)	2480
Polarization	Vertical		
<div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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### 3.2.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 8DPSK

Modulation	8DPSK	Test Freq. (MHz)	2402
Polarization	Horizontal		

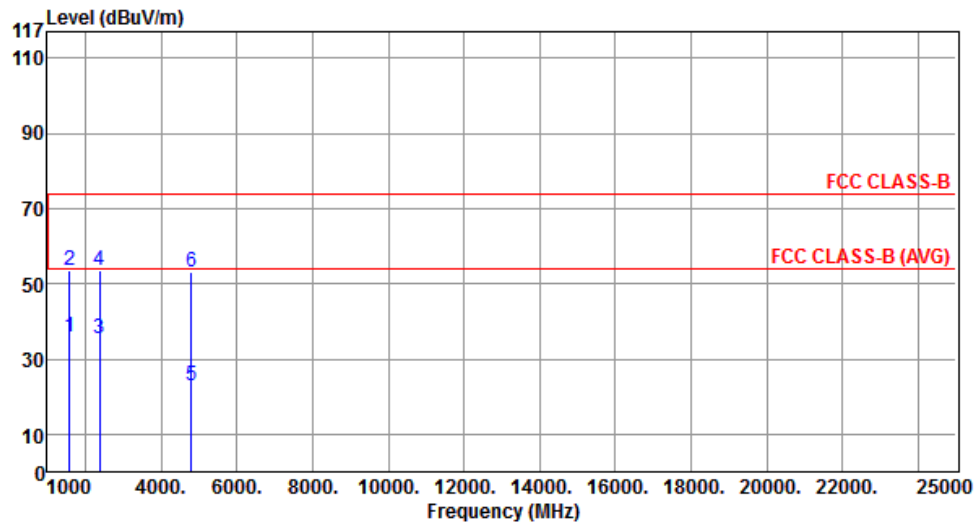
  


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1594.00	34.74	54.00	-19.26	41.55	-6.81	Average	---	---
2	1594.00	48.58	74.00	-25.42	55.39	-6.81	Peak	---	---
3	2390.00	35.51	54.00	-18.49	39.19	-3.68	Average	---	---
4	2390.00	48.87	74.00	-25.13	52.55	-3.68	Peak	---	---
5	4804.00	19.42	54.00	-34.58	14.46	4.96	Average	---	---
6	4804.00	49.52	74.00	-24.48	44.56	4.96	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	8DPSK	Test Freq. (MHz)	2402
Polarization	Vertical		



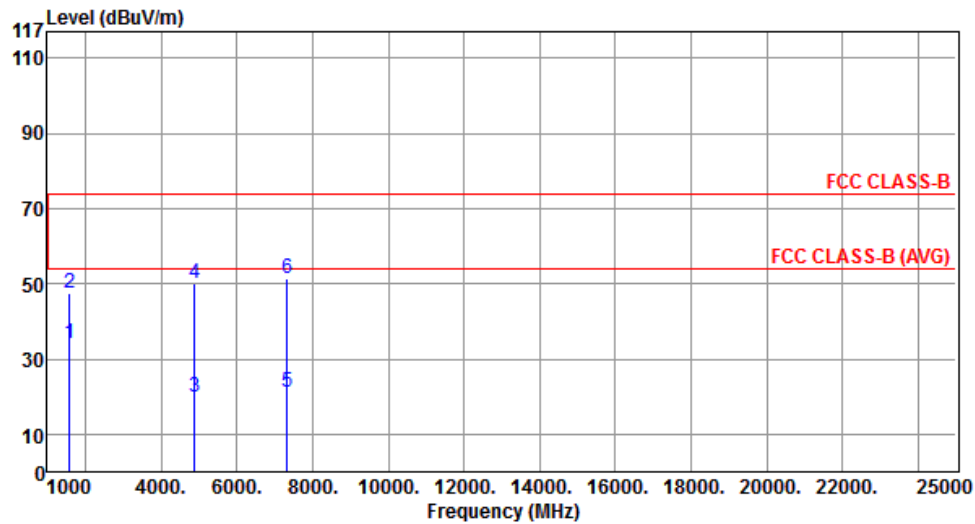
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1594.00	36.00	54.00	-18.00	42.81	-6.81	Average	---	---
2	1594.00	53.43	74.00	-20.57	60.24	-6.81	Peak	---	---
3	2390.00	35.44	54.00	-18.56	39.12	-3.68	Average	---	---
4	2390.00	53.41	74.00	-20.59	57.09	-3.68	Peak	---	---
5	4804.00	23.07	54.00	-30.93	18.11	4.96	Average	---	---
6	4804.00	53.17	74.00	-20.83	48.21	4.96	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	8DPSK	Test Freq. (MHz)	2441
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1594.00	34.08	54.00	-19.92	40.89	-6.81	Average	---	---
2	1594.00	47.51	74.00	-26.49	54.32	-6.81	Peak	---	---
3	4882.00	19.77	54.00	-34.23	14.65	5.12	Average	---	---
4	4882.00	49.87	74.00	-24.13	44.75	5.12	Peak	---	---
5	7323.00	21.21	54.00	-32.79	11.87	9.34	Average	---	---
6	7323.00	51.31	74.00	-22.69	41.97	9.34	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	8DPSK	Test Freq. (MHz)	2441																																																																						
Polarization	Vertical																																																																								
<div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div>117</div><div>110</div><div>90</div><div>70</div><div>50</div><div>30</div><div>10</div><div>0</div></div></div><div><div><div><div>1000</div><div>4000</div><div>6000</div><div>8000</div><div>10000</div><div>12000</div><div>14000</div><div>16000</div><div>18000</div><div>20000</div><div>22000</div><div>25000</div></div></div><div>Frequency (MHz)</div></div></div><div><div><div><div><div>2</div><div>4</div><div>6</div></div><div><div>1</div><div>3</div><div>5</div></div></div><div><div><div><div>FCC CLASS-B</div><div>FCC CLASS-B (AVG)</div></div></div></div></div><table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>1594.00</td><td>35.98</td><td>54.00</td><td>-18.02</td><td>42.79</td><td>-6.81</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>2</td><td>1594.00</td><td>54.03</td><td>74.00</td><td>-19.97</td><td>60.84</td><td>-6.81</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>4882.00</td><td>23.10</td><td>54.00</td><td>-30.90</td><td>17.98</td><td>5.12</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>4</td><td>4882.00</td><td>53.20</td><td>74.00</td><td>-20.80</td><td>48.08</td><td>5.12</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>7323.00</td><td>21.88</td><td>54.00</td><td>-32.12</td><td>12.54</td><td>9.34</td><td>Average</td><td>---</td><td>---</td></tr><tr><td>6</td><td>7323.00</td><td>51.98</td><td>74.00</td><td>-22.02</td><td>42.64</td><td>9.34</td><td>Peak</td><td>---</td><td>---</td></tr></table><div><div>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain</div><div>Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</div></div></div></div></div></div></div>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1594.00	35.98	54.00	-18.02	42.79	-6.81	Average	---	---	2	1594.00	54.03	74.00	-19.97	60.84	-6.81	Peak	---	---	3	4882.00	23.10	54.00	-30.90	17.98	5.12	Average	---	---	4	4882.00	53.20	74.00	-20.80	48.08	5.12	Peak	---	---	5	7323.00	21.88	54.00	-32.12	12.54	9.34	Average	---	---	6	7323.00	51.98	74.00	-22.02	42.64	9.34	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																
1	1594.00	35.98	54.00	-18.02	42.79	-6.81	Average	---	---																																																																
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5	7323.00	21.88	54.00	-32.12	12.54	9.34	Average	---	---																																																																
6	7323.00	51.98	74.00	-22.02	42.64	9.34	Peak	---	---																																																																

Modulation	8DPSK	Test Freq. (MHz)	2480
Polarization	Horizontal		
<div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div>117</div><div>110</div><div>90</div><div>70</div><div>50</div><div>30</div><div>10</div><div>0</div></div></div><div><div><div><div>1000</div><div>4000</div><div>6000</div><div>8000</div><div>10000</div><div>12000</div><div>14000</div><div>16000</div><div>18000</div><div>20000</div><div>22000</div><div>25000</div></div></div><div>Frequency (MHz)</div></div></div><div><div><div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div><div><div><div><div><div>1594.00</div><div>1594.00</div><div>2483.50</div><div>2483.50</div><div>4960.00</div><div>4960.00</div><div>7440.00</div><div>7440.00</div></div></div><div><div><div><div><div>33.62</div><div>48.87</div><div>35.86</div><div>49.59</div><div>20.32</div><div>50.42</div><div>21.53</div><div>51.63</div></div></div><div><div><div><div><div>54.00</div><div>74.00</div><div>54.00</div><div>74.00</div><div>54.00</div><div>74.00</div><div>54.00</div><div>74.00</div></div></div><div><div><div><div><div>-20.38</div><div>-25.13</div><div>-18.14</div><div>-24.41</div><div>-33.68</div><div>-23.58</div><div>-32.47</div><div>-22.37</div></div></div><div><div><div><div><div>40.43</div><div>55.68</div><div>39.16</div><div>52.89</div><div>15.04</div><div>45.14</div><div>11.94</div><div>42.04</div></div></div><div><div><div><div><div>-6.81</div><div>-6.81</div><div>-3.30</div><div>-3.30</div><div>5.28</div><div>5.28</div><div>9.59</div><div>9.59</div></div></div><div><div><div><div><div>Average</div><div>Peak</div><div>Average</div><div>Peak</div><div>Average</div><div>Peak</div><div>Average</div><div>Peak</div></div></div><div><div><div><div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div></div></div><div><div><div><div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div></div></div></div></div></div><div><div><div><div><div><div>Freq.</div><div>Emission</div><div>Limit</div><div>Margin</div><div>SA</div><div>Factor</div><div>Remark</div><div>ANT</div><div>Turn</div></div><div><div>level</div><div></div><div></div><div></div><div>reading</div><div></div><div></div><div>High</div><div>Table</div></div><div><div>MHz</div><div>dBuV/m</div><div>dBuV/m</div><div>dB</div><div>dBuV</div><div>dB</div><div></div><div>cm</div><div>deg</div></div></div></div></div></div><div><div><div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div><div><div><div><div><div>1594.00</div><div>1594.00</div><div>2483.50</div><div>2483.50</div><div>4960.00</div><div>4960.00</div><div>7440.00</div><div>7440.00</div></div></div><div><div><div><div><div>33.62</div><div>48.87</div><div>35.86</div><div>49.59</div><div>20.32</div><div>50.42</div><div>21.53</div><div>51.63</div></div></div><div><div><div><div><div>54.00</div><div>74.00</div><div>54.00</div><div>74.00</div><div>54.00</div><div>74.00</div><div>54.00</div><div>74.00</div></div></div><div><div><div><div><div>-20.38</div><div>-25.13</div><div>-18.14</div><div>-24.41</div><div>-33.68</div><div>-23.58</div><div>-32.47</div><div>-22.37</div></div></div><div><div><div><div><div>40.43</div><div>55.68</div><div>39.16</div><div>52.89</div><div>15.04</div><div>45.14</div><div>11.94</div><div>42.04</div></div></div><div><div><div><div><div>-6.81</div><div>-6.81</div><div>-3.30</div><div>-3.30</div><div>5.28</div><div>5.28</div><div>9.59</div><div>9.59</div></div></div><div><div><div><div><div>Average</div><div>Peak</div><div>Average</div><div>Peak</div><div>Average</div><div>Peak</div><div>Average</div><div>Peak</div></div></div><div><div><div><div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div></div></div><div><div><div><div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div><div>---</div></div></div></div></div></div><div><div><div><div><div><div>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)</div><div>*Factor includes antenna factor , cable loss and amplifier gain</div><div>Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div>			

Modulation	8DPSK	Test Freq. (MHz)	2480																																																																																																														
Polarization	Vertical																																																																																																																
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### 3.3 Unwanted Emissions into Non-Restricted Frequency Bands

#### 3.3.1 Limit of Unwanted Emissions into Non-Restricted Frequency Bands

The peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz.

#### 3.3.2 Test Procedures

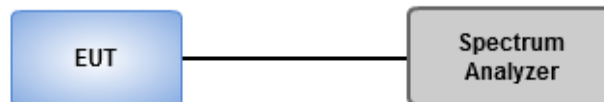
##### Reference Level Measurement

1. Set the RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
2. Set Sweep time = auto couple, Trace mode = max hold.
3. Allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

##### Unwanted Emissions Level Measurement

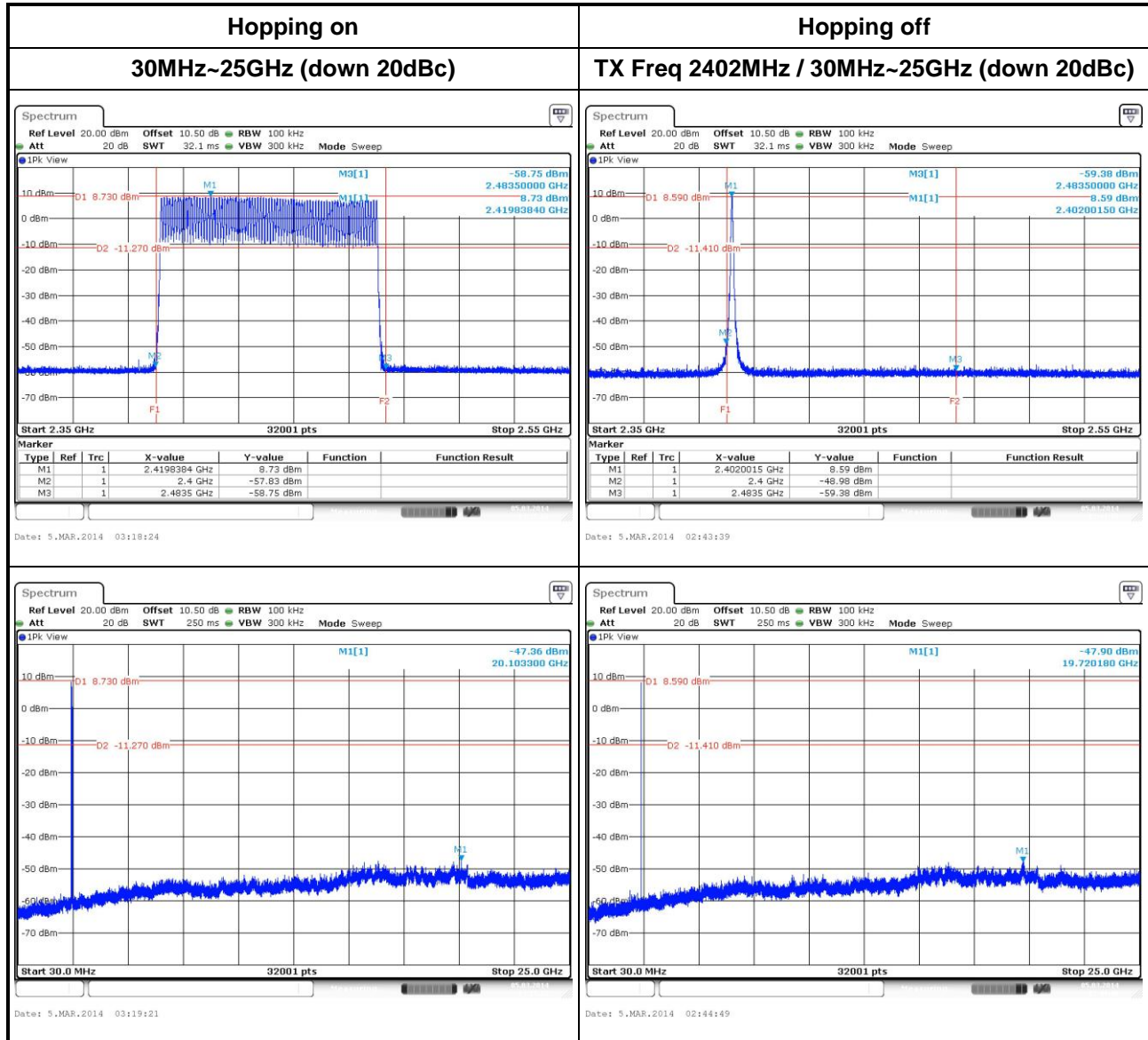
1. Set RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
2. Trace Mode = max hold, Sweep = auto couple.
3. Allow the trace to stabilize.
4. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

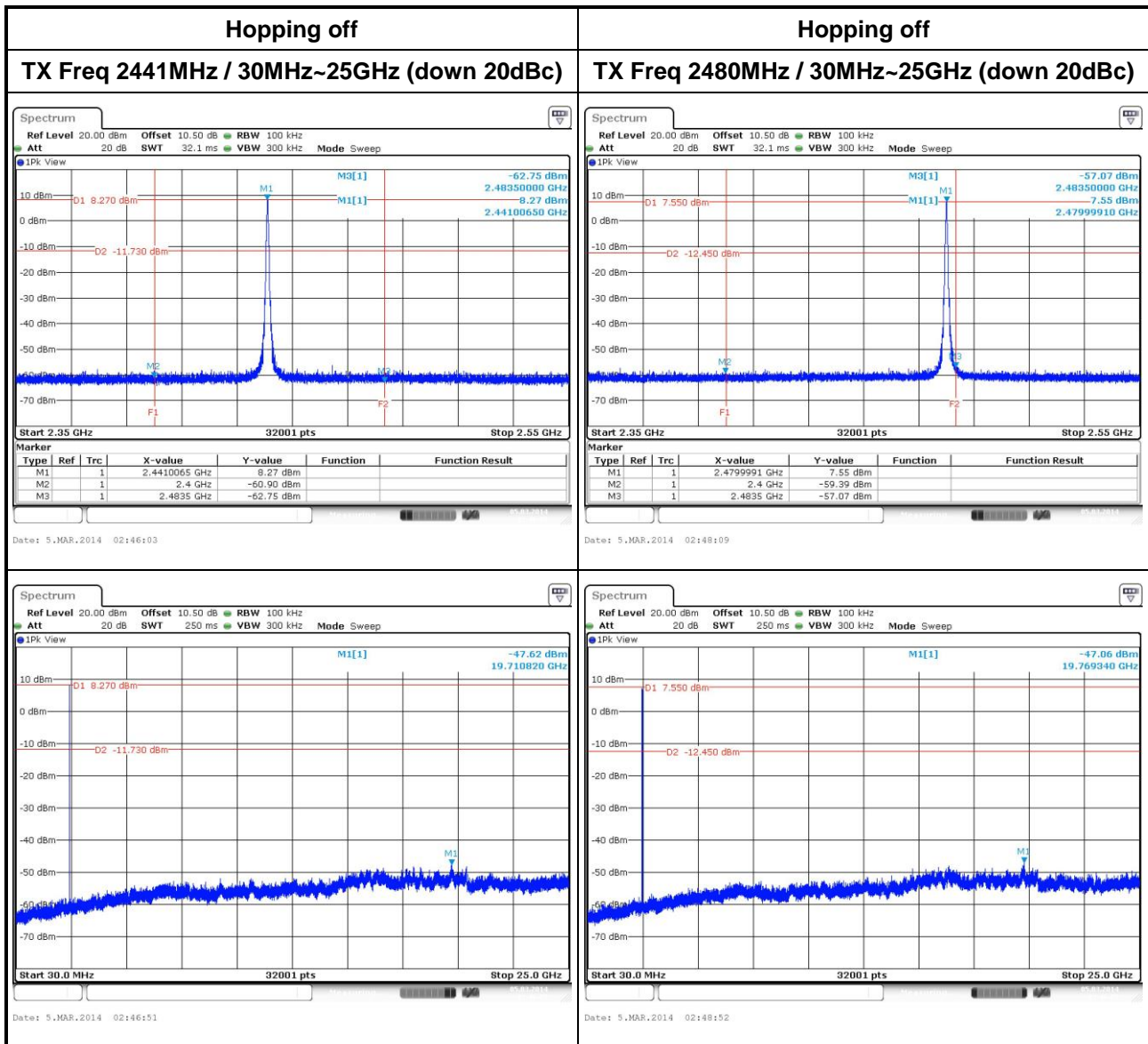
#### 3.3.3 Test Setup



### 3.3.4 Unwanted Emissions into Non-Restricted Frequency Bands

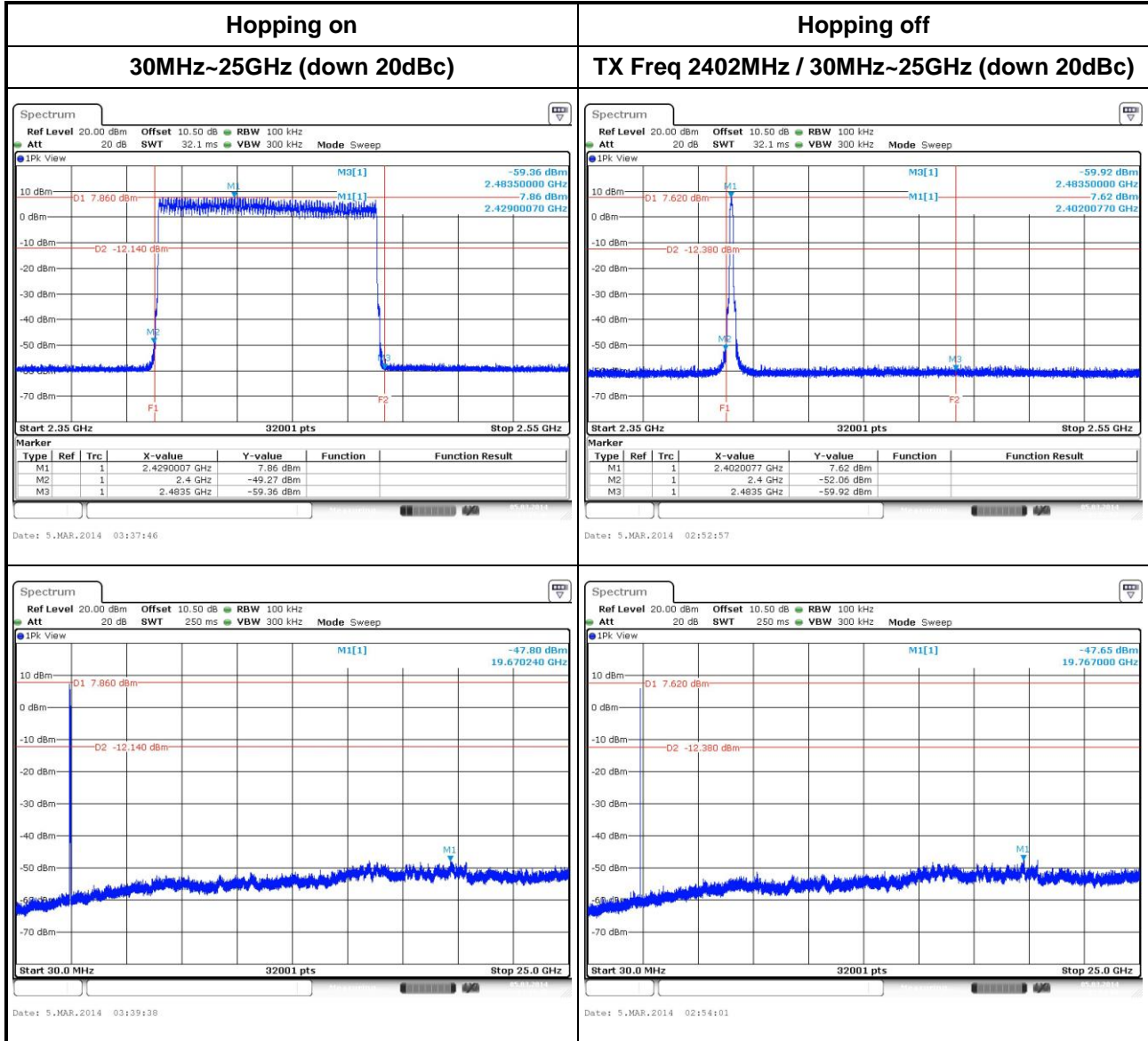
#### GFSK

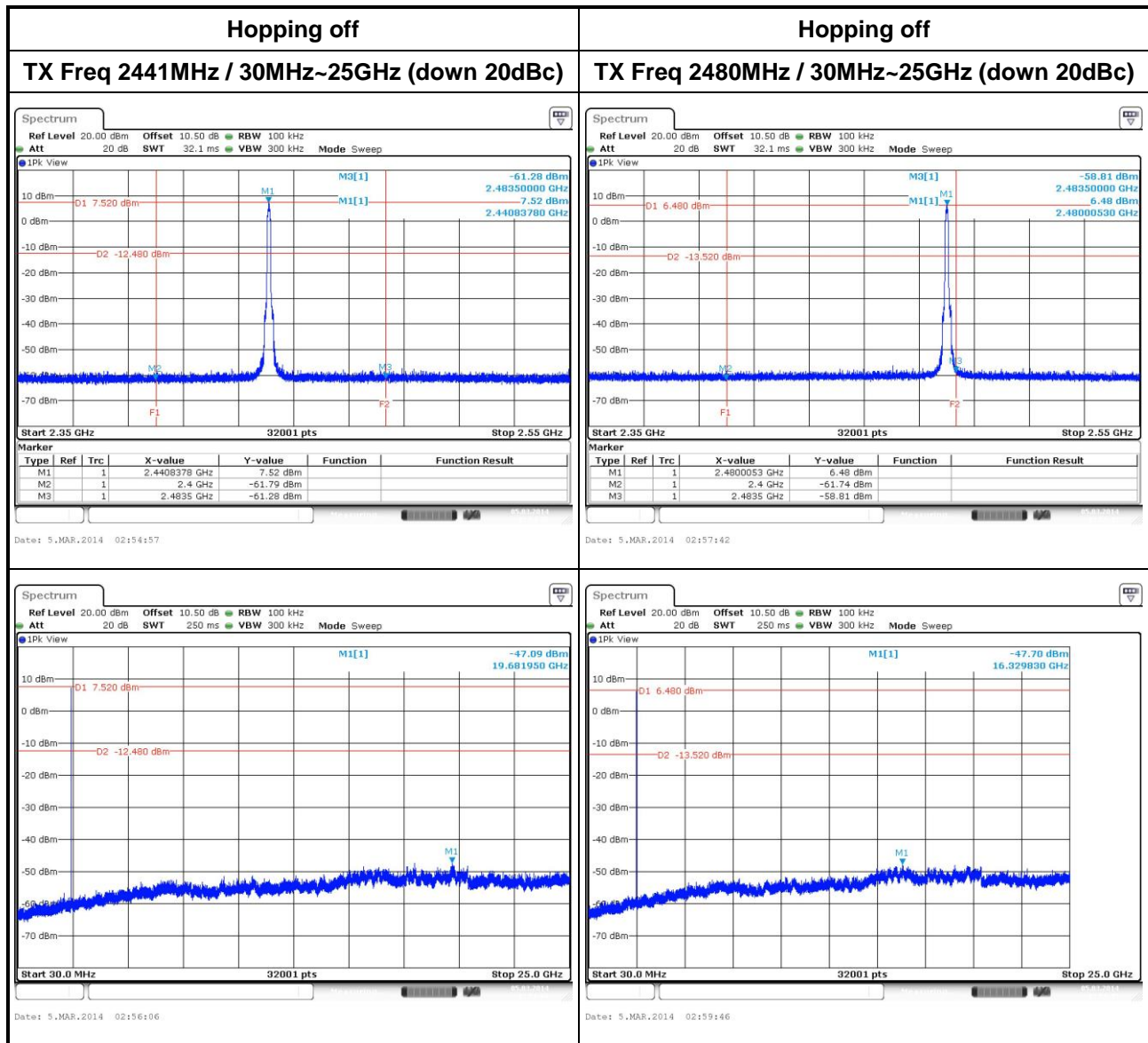






## 8DPSK





### 3.4 Conducted Output Power

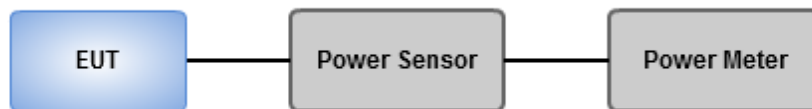
#### 3.4.1 Limit of Unwanted Emissions into Non-Restricted Frequency Bands

- ☐ 1 Watt  
For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band.
- ☒ 0.125 Watt  
For all other frequency hopping systems in the 2400–2483.5 MHz band.
- ☐ 0.125 Watt  
For Frequency hopping systems operating in the 2400–2483.5 MHz band have hopping channel carrier frequencies that are separated by two-thirds of the 20 dB bandwidth of the hopping channel.

#### 3.4.2 Test Procedures

1. A wideband power meter is used for power measurement. Bandwidth of power sensor and meter is 50MHz
2. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power

#### 3.4.3 Test Setup



### 3.4.4 Test Result of Conducted Output Power

Modulation Mode	Freq. (MHz)	Output Power (mW)	Output Power (dBm)	Limit (mW)
GFSK	2402	7.26	8.61	125
GFSK	2441	6.79	8.32	125
GFSK	2480	5.98	7.77	125
8DPSK	2402	9.06	9.57	125
8DPSK	2441	8.18	9.13	125
8DPSK	2480	7.26	8.61	125

Modulation Mode	Freq. (MHz)	AV Output Power (mW)	AV Output Power (dBm)
GFSK	2402	7.03	8.47
GFSK	2441	6.58	8.18
GFSK	2480	5.81	7.64
8DPSK	2402	5.56	7.45
8DPSK	2441	5.18	7.14
8DPSK	2480	4.53	6.56

Note: Average power is for reference only

### 3.5 Number of Hopping Frequency

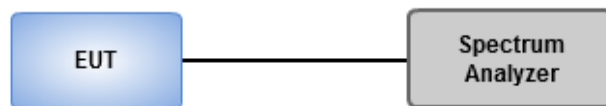
#### 3.5.1 Limit of Number of Hopping Frequency

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

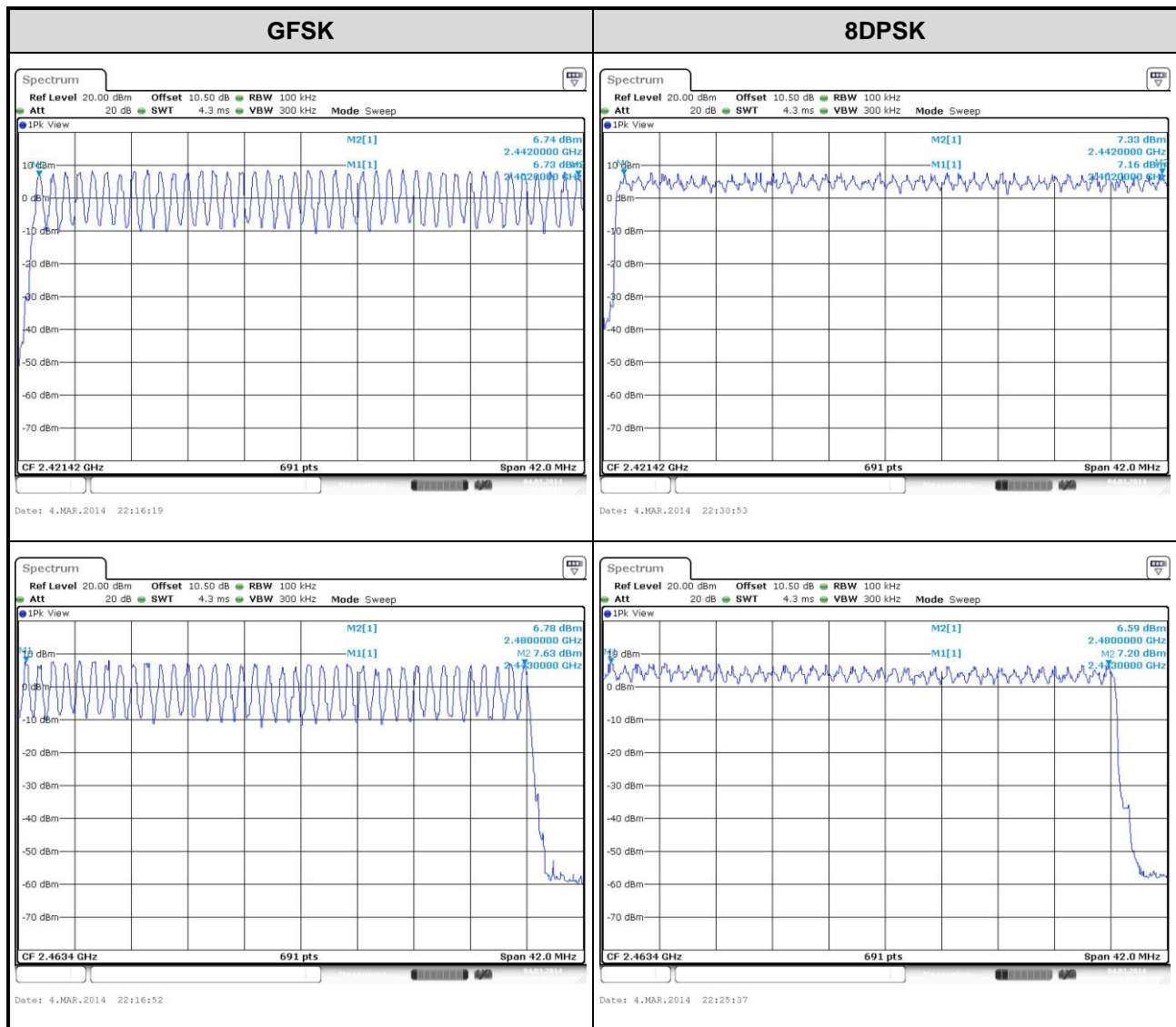
#### 3.5.2 Test Procedures

1. Set RBW = 100kHz, VBW = 300kHz, Sweep time = Auto, Detector = Peak Trace max hold.
2. Allow trace to stabilize.

#### 3.5.3 Test Setup



### 3.5.4 Test Result of Number of Hopping Frequency

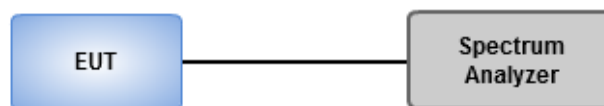


## 3.6 20dB and Occupied Bandwidth

### 3.6.1 Test Procedures

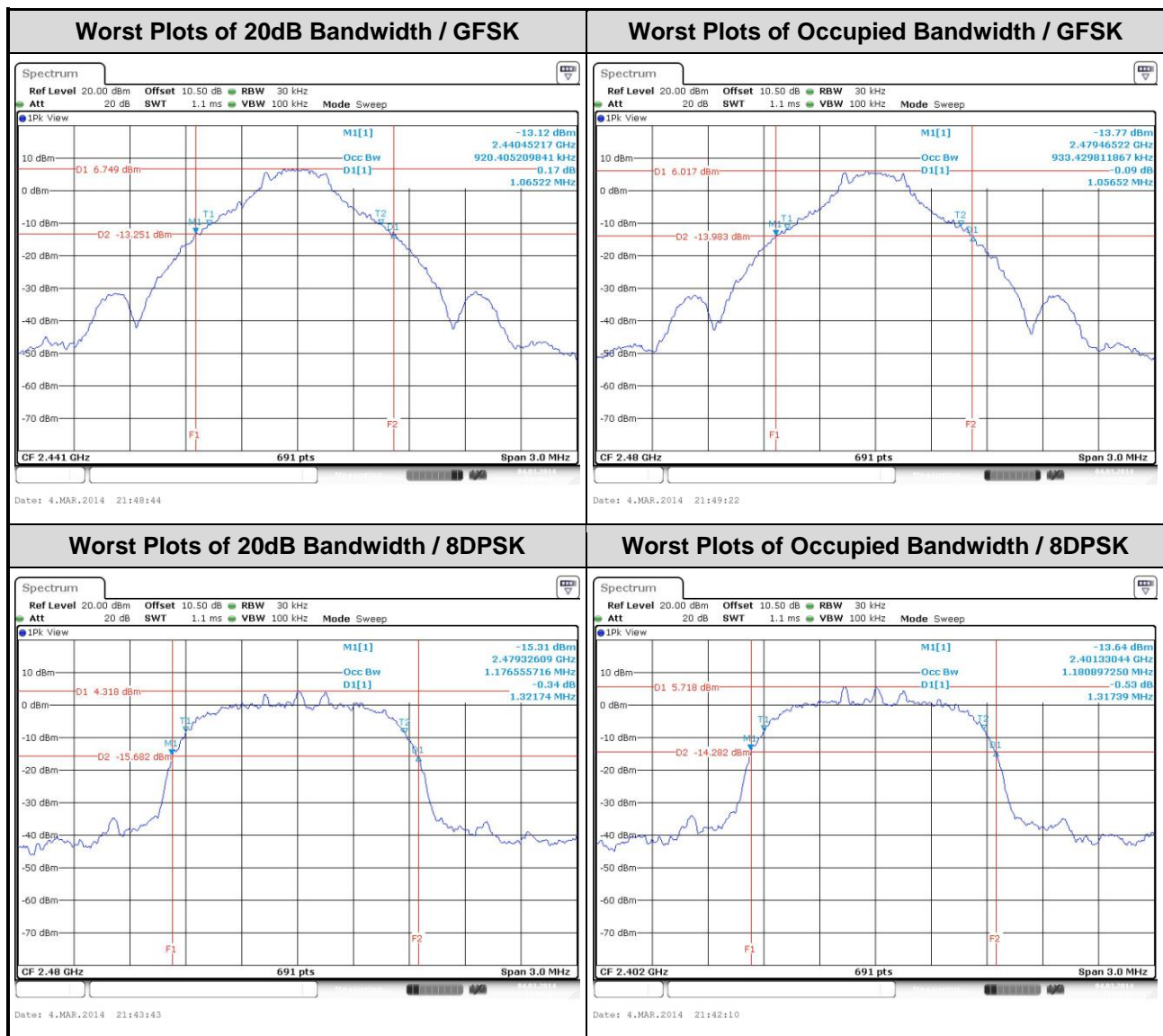
1. Set RBW=30kHz, VBW=100kHz, Sweep time = Auto, Detector=Peak Trace max hold
2. Allow trace to stabilize
3. Use N dB function of spectrum analyzer to measuring 20 dB bandwidth
4. Use Occupied bandwidth function of spectrum analyzer to measuring 99% occupied bandwidth

### 3.6.2 Test Setup



### 3.6.3 Test result of 20dB and Occupied Bandwidth

Modulation Mode	Freq. (MHz)	20dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
GFSK	2402	1.039	0.929
GFSK	2441	1.065	0.920
GFSK	2480	1.057	0.933
8DPSK	2402	1.317	1.181
8DPSK	2441	1.309	1.181
8DPSK	2480	1.322	1.177





## 3.7 Channel Separation

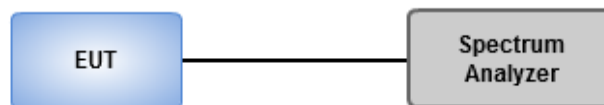
### 3.7.1 Limit of Channel Separation

- ☐ Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.
- ☒ Frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

### 3.7.2 Test Procedures

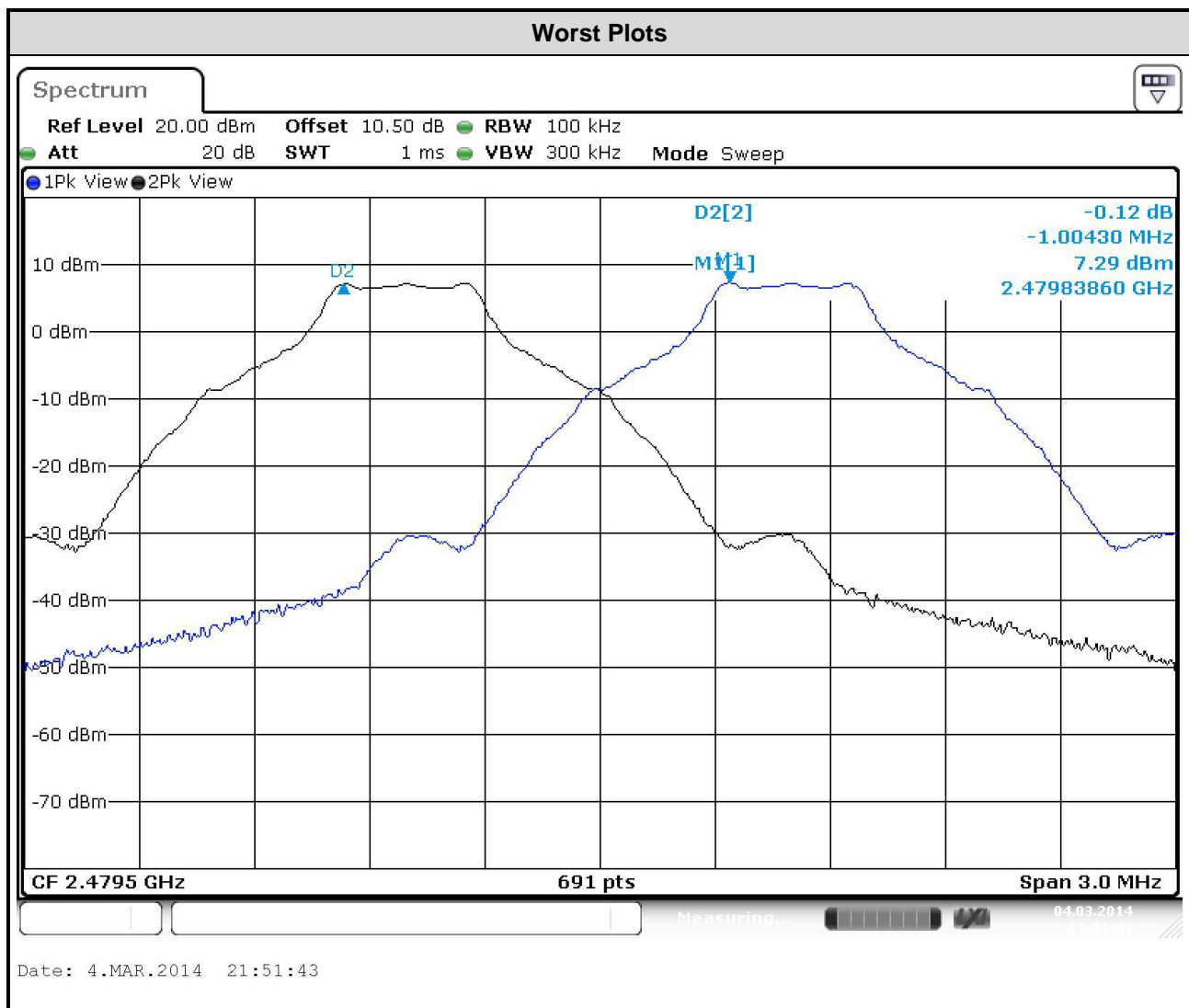
1. Set RBW=100kHz, VBW=300kHz, Sweep time = Auto, Detector=Peak Trace max hold
2. Allow trace to stabilize
3. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The EUT shall show compliance with the appropriate regulatory limit

### 3.7.3 Test Setup



### 3.7.4 Test result of Channel Separation

Modulation Mode	Freq. (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Minimum Limit (MHz)
GFSK	2402	1.003	1.039	0.693
GFSK	2441	1.003	1.065	0.710
GFSK	2480	1.004	1.057	0.705
8DPSK	2402	1.003	1.317	0.878
8DPSK	2441	1.003	1.309	0.873
8DPSK	2480	1.003	1.322	0.881



## 3.8 Number of Dwell Time

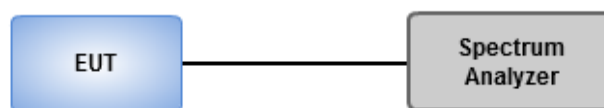
### 3.8.1 Limit of Dwell time

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

### 3.8.2 Test Procedures

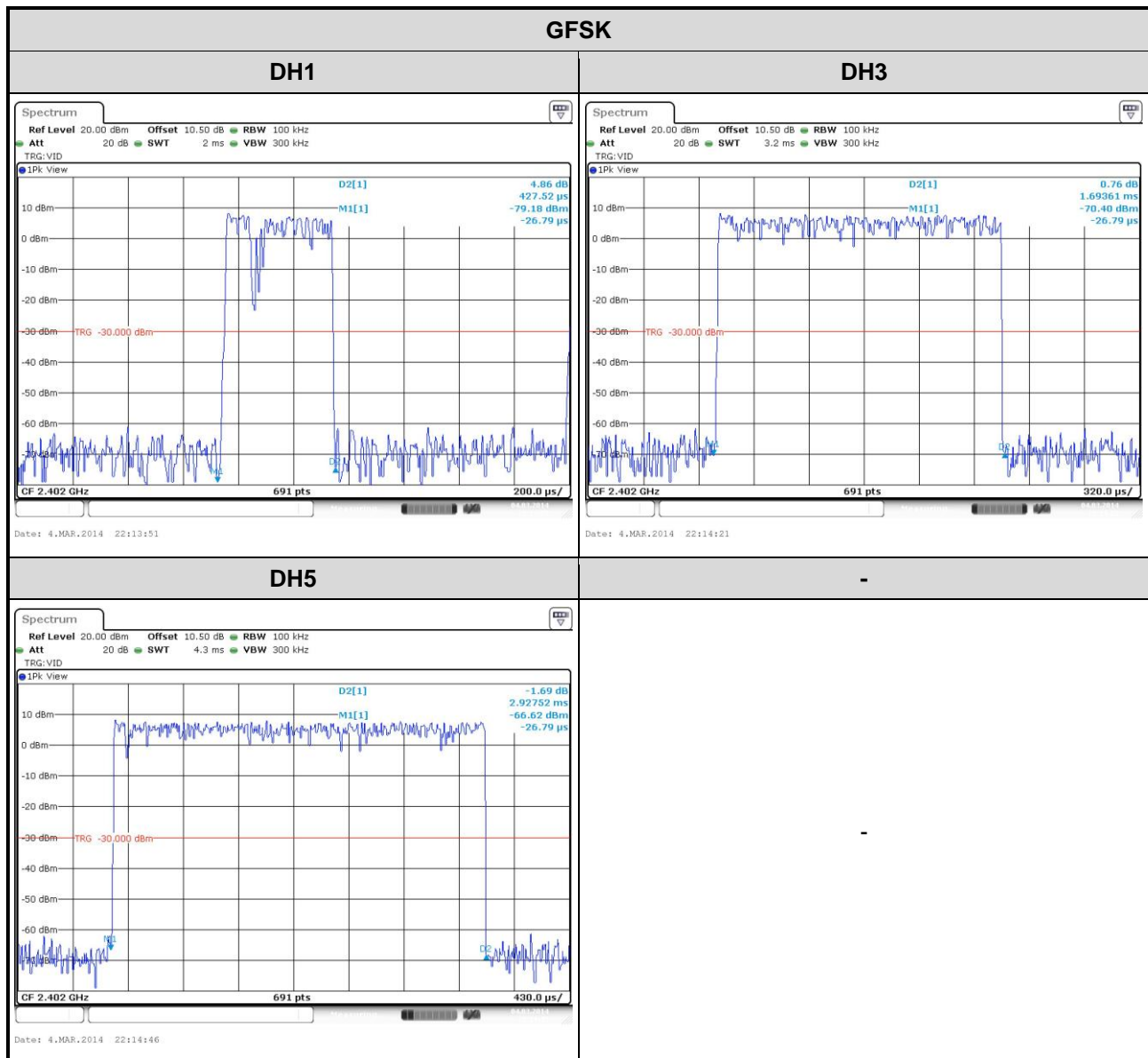
1. Set RBW=100kHz,VBW=300kHz,Sweep time = 500us(DH1),2ms(DH3),4ms(DH5), Detector=Peak, Span=0Hz,Trace max hold
2. Enable gating and trigger function of spectrum analyzer to measure burst on time.
3. The DH1 packet can cover a single time slot. A maximum length packet has duration of 1 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is 1/1600 seconds, or 0.625ms. DH1 Packet permit maximum  $1600 / 79 / 2 = 10.12$  hops per second in each channel (1 time slot RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times  $10.12 \times 31.6 = 320$  within 31.6 seconds.
4. The DH3 packet can cover up to 3 time slots. A maximum length packet has duration of 3 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is 3/1600 seconds, or 1.875ms. DH3 Packet permit maximum  $1600 / 79 / 4 = 5.06$  hops per second in each channel (3 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times  $5.06 \times 31.6 = 160$  within 31.6 seconds.
5. The DH5 packet can cover up to 5 time slots. Operate DH5 at maximum dwell time and maximum duty cycle. A maximum length packet has duration of 5 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is 5/1600 seconds, or 3.125ms. DH5 Packet permit maximum  $1600 / 79 / 6 = 3.37$  hops per second in each channel (5 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times  $3.37 \times 31.6 = 106.6$  within 31.6 seconds

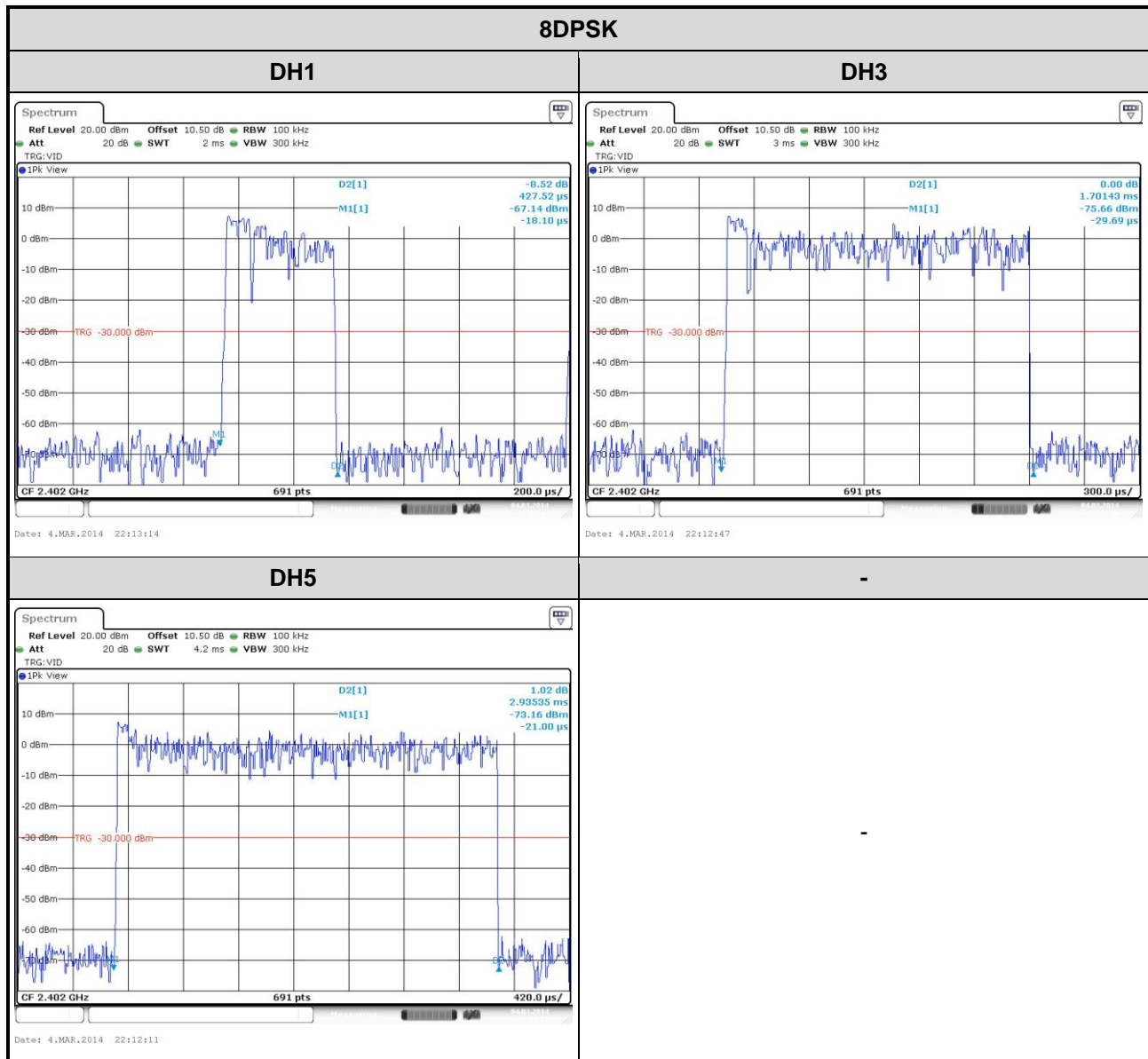
### 3.8.3 Test Setup



### 3.8.4 Test Result of Dwell Time

Time of Occupancy (Dwell Time) Result					
Modulation Mode	Freq. (MHz)	Pulse Time per Hop (ms)	Number of Pulse in [0.4 x N sec]	Dwell Time in [0.4 x N sec] (s)	Dwell Time Limits (s)
GFSK-DH1	2480	0.42752	320	0.137	0.4
GFSK-DH3	2480	1.69361	160	0.271	0.4
GFSK-DH5	2480	2.92752	106.6	0.312	0.4
8DPSK-DH1	2480	0.42752	320	0.137	0.4
8DPSK-DH3	2480	1.70143	160	0.272	0.4
8DPSK-DH5	2480	2.93535	106.6	0.313	0.4





## 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp, it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website <http://www.icertifi.com.tw>.

### **Linkou**

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No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C.

### **Kwei Shan**

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC\_Service@icertifi.com.tw

==END==