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# 6.7. Dwell Time

# 6.7.1. Test Specification

FCC Part15 C Section 15.247 (a)(1)
ANSI C63.10:2013
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.
Spectrum Analyzer EUT
Hopping mode
<ol> <li>The testing follows ANSI C63.10:2013 Measurement Guidelines.</li> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Enable the EUT hopping function.</li> <li>Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set &gt;&gt; 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.</li> <li>Measure and record the results in the test report.</li> </ol>
PASS

## 6.7.2. Test Instruments

Equipment	nent Manufacturer		Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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### 6.7.3. Test Data

Mode	Packet	Hops Over Occupancy Time (hops)	Package Transfer Time (ms)	Dwell time (second)	Limit (second)	Result
GFSK	DH1	320	0.428	0.137	0.4	PASS
GFSK	DH3	160	1.692	0.271	0.4	PASS
GFSK	DH5	106.67	2.944	0.314	0.4	PASS
Pi/4 DQPSK	2-DH1	320	0.442	0.141	0.4	PASS
Pi/4 DQPSK	2-DH3	160	1.701	0.272	0.4	PASS
Pi/4 DQPSK	2-DH5	106.67	2.960	0.316	0.4	PASS
8DPSK	3-DH1	320	0.446	0.143	0.4	PASS
8DPSK	3-DH3	160	1.704	0.273	0.4	PASS
8DPSK	3-DH5	106.67	2.948	0.314	0.4	PASS

Note: 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels.

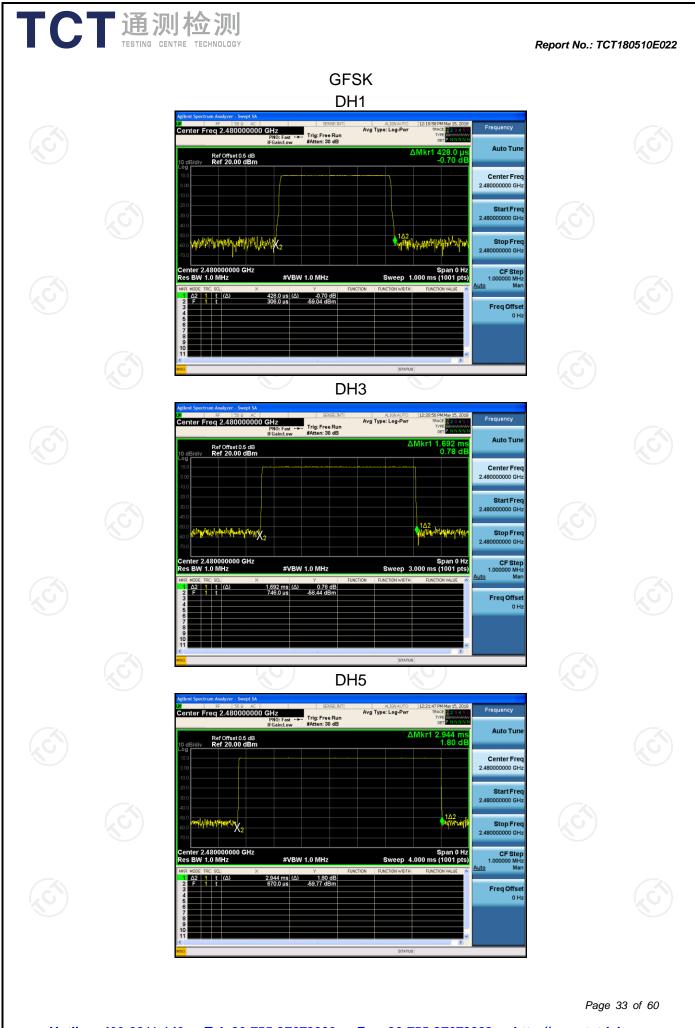
For DH1, With channel hopping rate (1600 / 2 / 79) in Occupancy Time Limit  $(0.4 \times 79)$  (s), Hops Over Occupancy Time comes to  $(1600 / 2 / 79) \times (0.4 \times 79) = 320$  hops

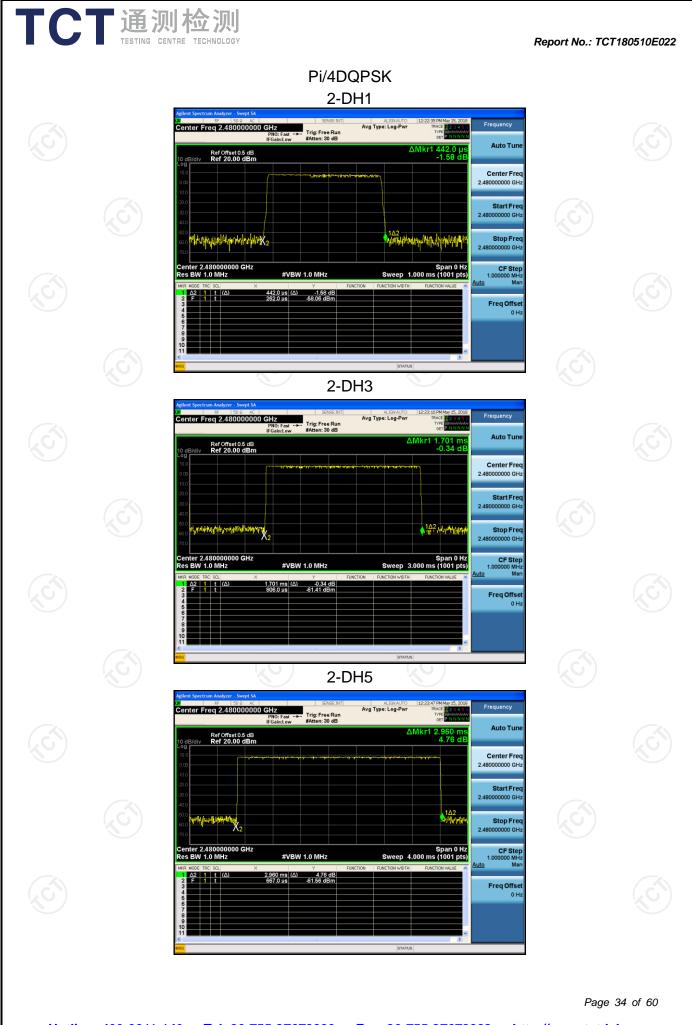
For DH3, With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit  $(0.4 \times 79)$  (s), Hops Over Occupancy Time comes to  $(1600 / 4 / 79) \times (0.4 \times 79) = 160$  hops

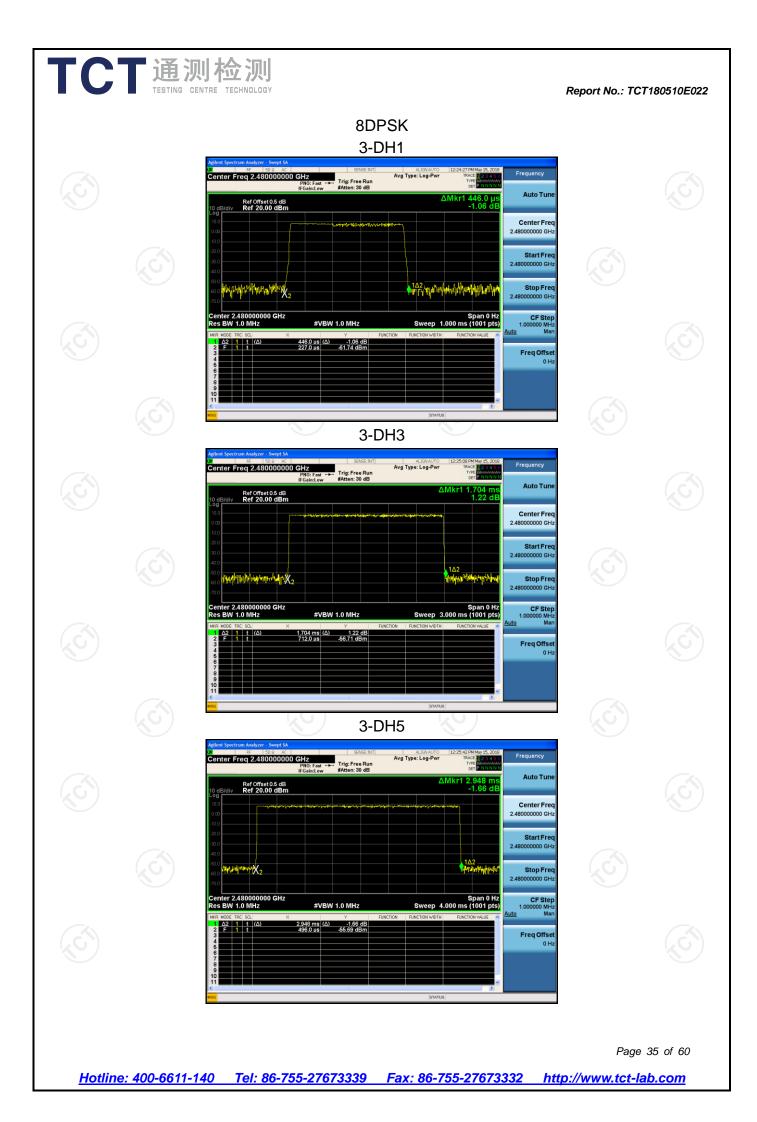
For DH5, With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit  $(0.4 \times 79)$  (s), Hops Over Occupancy Time comes to  $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$  hops

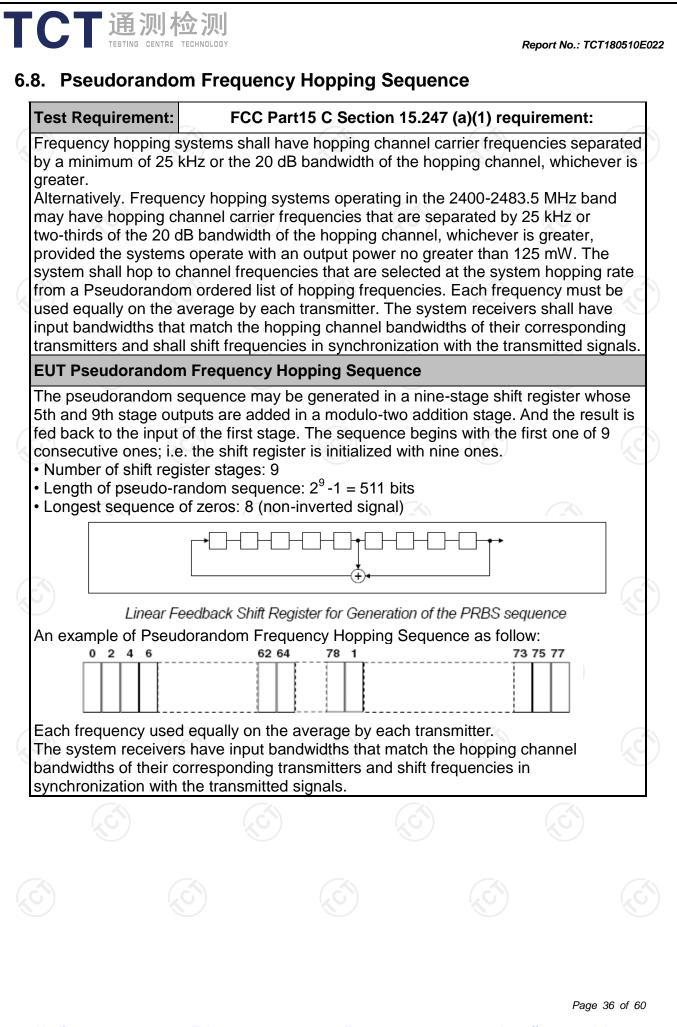
2. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

#### Test plots as follows:













# 6.9. Conducted Band Edge Measurement

## 6.9.1. Test Specification

FCC Part15 C Section 15.247 (d)					
ANSI C63.10:2013					
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.					
Spectrum Analyzer EUT					
Transmitting mode with modulation					
<ol> <li>The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of ANSI C63.10:2013 Measurement Guidelines.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.</li> <li>Enable hopping function of the EUT and then repeat step 2 and 3.</li> <li>Measure and record the results in the test report.</li> </ol>					
PASS					

## 6.9.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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#### Report No.: TCT180510E022 6.9.3. Test Data **GFSK Modulation** Test channel: Lowest channel tart Freq 2.310000000 GHz Aug Type: Log-Pwr Avg Hold>100/100 RF 50 9 AC tart Freq 2.310000000 GHz Avg Type: Log-Pwr Avg|Hold>100/100 Trig: Free Run Trig: Free Run Auto Tu Ref Offset 0.5 dB Ref 20.00 dBm Ref Offset 0.5 dB Ref 20.00 dBm Center Fre Start Fre 8 ภายไฟฟ์ (41/14) ไปประกาศ (14/14) (14/14) (14/14) (14/14) Stop Fre CF Step 9.400000 MH Ma Stop 2.40400 GH2 ep 9.000 ms (1001 pts Start 2.31000 GHz #Res BW 100 kHz Stop 2.40400 GH Sweep 9.000 ms (1001 pt Start 2.31000 GHz #VBW 300 kHz

Freq Offse

tart Freq 2.478000000 GHz PNO:Fast C #EColution wy #Ecolution wy #Atten: 30 dB art Freq 2.478000000 GHz Avg Type: Log-Pwr Avg[Hold>100/100 : Fast Trig: Free Run Auto Tu Ref Offset 0.5 dB Ref 20.00 dBm Ref Offset 0.5 dB Ref 20.00 dBm Center Fr Start Fr Stop Fr Stop 2.50500 GHz Sweep 2.600 ms (1001 pts Start 2.47800 GHz Start 2.47800 GHz CF St #VBW 300 kHz #VBW 300 kHz 2.479 836 GHz 10.433 dBm 2.483 500 GHz 50.665 dBm 2.484 021 GHz 49.487 dBm 2.478 000 GHz 10.296 dBm 2.483 500 GHz -53.128 dBm 2.486 991 GHz -49.728 dBm N 1 F Freq Offse 0 Hi

No-hopping mode

No-hopping mode

2.402 026 GHz 6.345 dBm 2.400 000 GHz -41.245 dBm 2.383 320 GHz -57.409 dBm

Test channel:

Frequency

Auto Tur

Center Fre

Start Fre

Stop Fr

CF Ste

Freq Offs

Auto Tur

Start Fre

Stop Fr

CF Ste

Freq Offse

Center Fr 2 491500000 G

2.403 154 GHz 9.836 dBm 2.400 000 GHz -25.680 dBm 2.371 852 GHz -53.462 dBm

Hopping mode

Hopping mode

Avg Type: Log-Pwr Avg[Hold>100/100

Stop 2.50500 GF Sweep 2.600 ms (1001 pt

N 1 f N 1 f

Highest channel

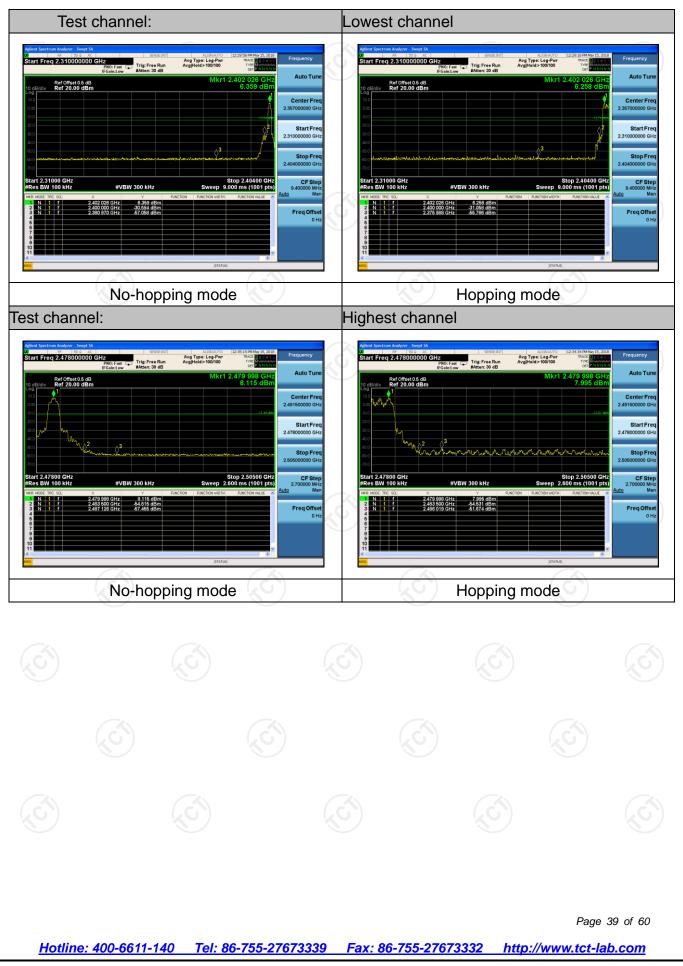
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Report No.: TCT180510E022

#### **Pi/4DQPSK Modulation**



# TCT通测检测 TESTING CENTRE TECHNOLOGY

Report No.: TCT180510E022

### 8DPSK Modulation

Test ch	annel:		Lowest char	nnel		
Agless Spectrum Androw         Send SA.           100         100         X           Start Freq 2.310000000 GHz         100           100         100         100           100         100         100           100         100         100           100         100         100           100         100         100           100         100         100           100         100         100           100         100         100           101         1         1           101         10         10	#VBW 300 kHz         Sweep           GHz         649 dBm           GHz         20 565 dBm	1227231MM015,018 Trequency Trequency Auto Tune 6.459 dBn Center Freq 2.35700000 GHz 2.35700000 GHz Stop 2.40400 GHz 9.000 ms (1001 pts) MUCTORVAULT Prequency Center Freq 2.35700000 GHz Center Greg 2.40400000 GHz Center Greg Center Greg Cent	800 7000 Start 2,31000 GHz #Res BW 100 KHz ₩// MODE THC SCU	BVCB HAT PRO, Fast Control Trig: Free Run Program Control C	ALISAMPO Type: LegaPor Midd: 1009400 Mkr1 2.402 968 GHz 7.514 dBm Company Stop 2.40400 GHz Stop 2.40400 GHz Stop 2.40400 GHz Stop 2.40400 GHz	Frequency       Auto Tune       Center Freq       2.357000000 GHz       2.31000000 GHz       Stop Freq       2.40400000 GHz       GF Step       9.400000 GHz       GF Step       9.400000 GHz       OHZ       Freq Offset       0 Hz
MSC				Llonging	STATUS	
Fest channel:	No-hopping mod		Highest cha	Hopping n nnel	node	
Start Freq .4.75000000 GHz           9 dBob           10 dBob	#VBW 300 kHz Sweep	Freq Offset 0 Hz	April 1 with anythe med 2           Start Freq 2.478000000           Start Freq 2.478000000           Image: start	#GainLow #Adden: 30 dB	Image: Non-State         Image: Non-State           Type: Log-Port         Type: Log-Port           Type: Log-Port         Type: Log-Port           Mkr:1         2.478           Mkr:1         2.478           Mkr:1         2.478           Stop 2.50500         CH2           Stop 2.50500         CH2 </td <td>Frequency           Auto Tune           Center Freq           2.491500000 GHz           Start Freq           2.478000000 GHz           Stop Freq           2.50500000 GHz           2.700000 GHz           CF Step           2.700000 MHz           2.700000 MHz           Man           Freq Offset           0 Hz</td>	Frequency           Auto Tune           Center Freq           2.491500000 GHz           Start Freq           2.478000000 GHz           Stop Freq           2.50500000 GHz           2.700000 GHz           CF Step           2.700000 MHz           2.700000 MHz           Man           Freq Offset           0 Hz
	No-hopping mod	de 🕜	(C	Hopping n	node	
	0-6611-140 Tel: (	86-755-27673339	Fax: 86-755-2		Page 4	40 of 60



# 6.10. Conducted Spurious Emission Measurement

### 6.10.1. Test Specification

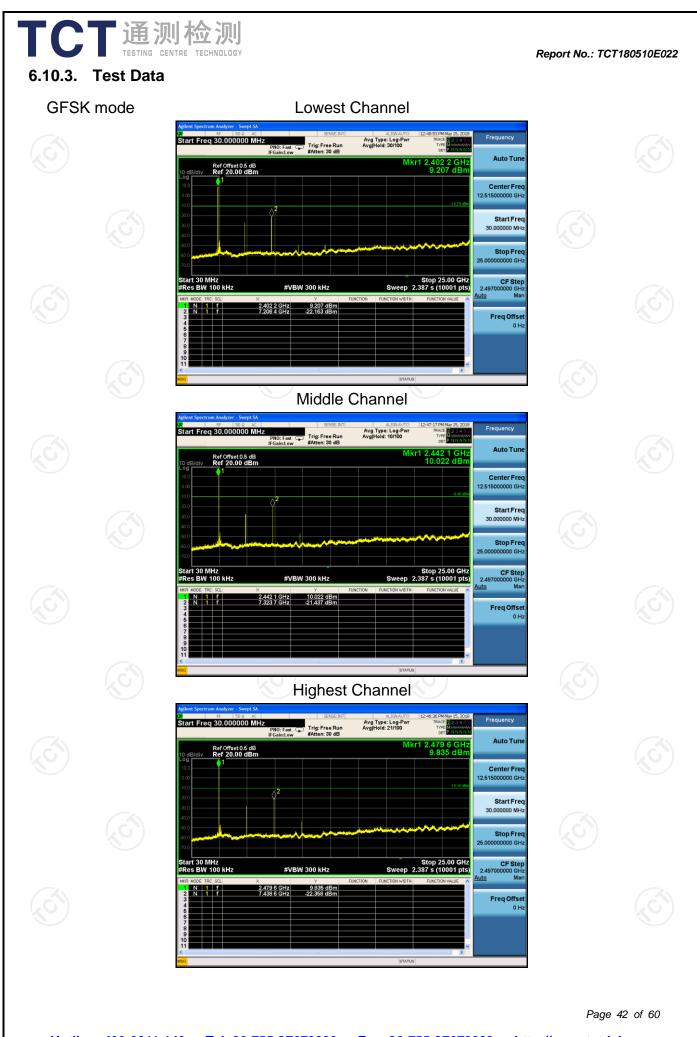
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>The testing follows the guidelines in Spurious RF Conducted Emissions of ANSI C63.10:2013 Measurement Guidelines</li> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.</li> <li>Measure and record the results in the test report.</li> <li>The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol>
Test Result:	PASS

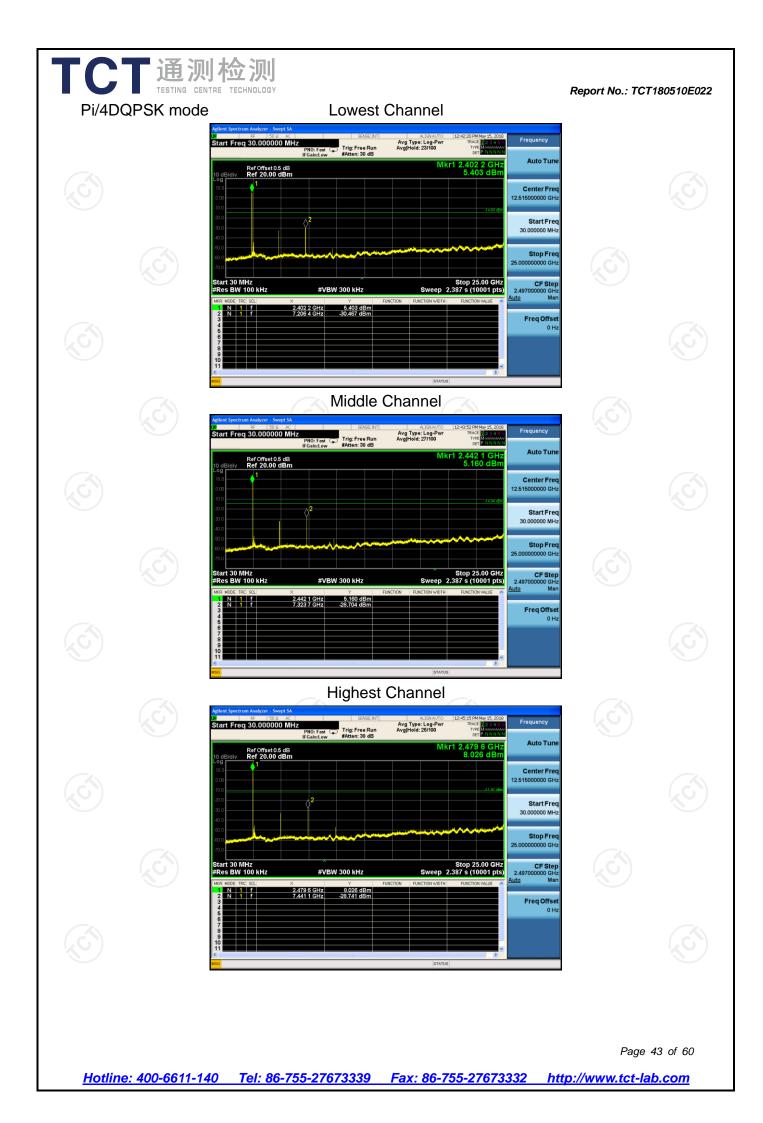
#### 6.10.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
Spectrum Analyzer	ctrum Analyzer ROHDE&SCH FSQ 200061		200061	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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# 6.11. Radiated Spurious Emission Measurement

### 6.11.1. Test Specification

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Test Requirement:	FCC Part15	C Section	15.209			No.		
Test Method:	ANSI C63.10	ANSI C63.10:2013						
Frequency Range:	9 kHz to 25 (	9 kHz to 25 GHz						
Measurement Distance:	3 m	3 m						
Antenna Polarization:	Horizontal &	Horizontal & Vertical						
	Frequency	Detector	RBW	VBW		Remark		
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quas	i-peak Value		
Receiver Setup:	150kHz- 30MHz	Quasi-peal	k 9kHz	30kHz	Quas	i-peak Value		
	30MHz-1GHz	Quasi-peal	100KHz	300KHz	Quas	i-peak Value		
	Above 1GHz	Peak	1MHz	3MHz		eak Value		
	Above IGHZ	Peak	1MHz	10Hz	Ave	rage Value		
			Field Str	ength	Mea	asurement		
	Frequen	ісу	(microvolts	s/meter)		nce (meters)		
	0.009-0.4		2400/F(			300		
	0.490-1.7		24000/F	· · · ·		30		
	1.705-3		30			<u>30</u> 3		
	88-216		100			3		
Limit:	216-96		200		1 KU	3		
	Above 9		500			3		
	Frequency Above 1GH:	(micro	crovolts/meter)         Distance           500         3           5000         3		ice rs)	Detector Average Peak		
Test setup:	EUT	stance = 3m			Comput			
$\mathcal{O}$		5)	(,	S				
						_		
						Page 45 of 0		

CT通测检测 TESTING CENTRE TECHNOLOGY	Report No.: TCT180510E
	EUT Antenna Tower EUT Antenna Tower Tum 0.8m 1m Table 0.8m 1m Tum 0.8m 1m
	Ground Plane Above 1GHz
	AE EUT Horn Antenna Tower Horn Antenna Tower (Turntable) Ground Reference Plane Test Receiver
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>The testing follows the guidelines in Spurious Radiated Emissions of ANSI C63.10:2013 Measurement Guidelines.</li> <li>For the radiated emission test below 1GHz: The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT,</li> </ol>

	and rece mai ante rest abo 3. Se EU 4. Us (1 (2)	= max hol 3) For avera- correction 15.35(c). D On time =N Where N1 length of t Average E	hed at the e aximum signatenna ele emissions. on for max ange of hei nd or refere kimum pow continuously ng spectrum wide enou eing meas 100 kHz fo z; VBW $\geq$ RE auto; Detect d for peak ge measure factor met Duty cycle = N1*L1+N2* I is number type 1 pulse Emission Le D*log(Duty	n pattern o emission so gnal. The f evation sha The meas imum emis ights of fro ence grour ver setting y. m analyze gh to fully ured; r f < 1 GH: BW; ctor function ement: use hod per = On time/ $^{2}$ L2++Nn- r of type 1 es, etc. evel = Pea cycle)	ource for inal all be that we surement ssions shal of plane. and enabl r settings: capture the z, RBW=1N on = peak; <sup>-1</sup> e duty cycle 100 millised -1*LNn-1+N pulses, L1 ak Emission	ion /hich I be m e the e /Hz Trace e conds \n*Ln is
Test results:	PASS	Loss + Rea	•			
Ś	Ś		Ś			



Report No.: TCT180510E022

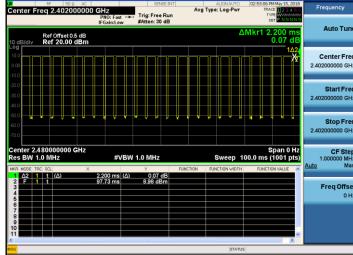
# 6.11.2. Test Instruments

Radiated Emission Test Site (966)								
Name of Equipment	Manufacturer		Serial Number	Calibration Due				
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018				
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018				
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018				
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018				
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018				
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018				
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018				
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018				
Antenna Mast	Keleto	CC-A-4M	N/A	N/A				
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 27, 2018				
Coax cable (9KHz-40GHz)	отст	RE-high-02	N/A	Sep. 27, 2018				
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 27, 2018				
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 27, 2018				
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A				

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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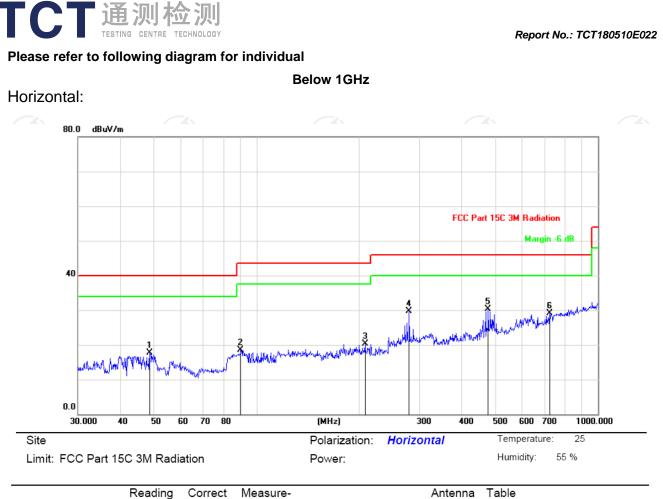
#### 通测检测 TESTING CENTRE TECHNOLOGY [ ] Report No.: TCT180510E022 6.11.3. Test Data Duty cycle correction factor for average measurement 2DH5 on time (One Pulse) Plot on Channel 78 Frequency Avg Type: Log-Pw Trig: Free Run #Atten: 30 dB Auto Tun Ref Offset 0.5 dB Ref 20.00 dBm 4.76 d Center Fre 2.48000000 GH Start Fre Stop Fre 2.48000000 GH 2.4800 N 1.0 N 00000 GHz Span 0 H s (1001 pt CF Step #VBW 1.0 MH2 Sweep 4.000 r 1.00 2.960 ms (∆) 4.76 db 667.0 µs -61.56 dBn Freq Offse 0 H 2DH5 on time (Count Pulses) Plot on Channel 78



#### Note:

- 1. Worst case Duty cycle = on time/100 milliseconds = (2.960\*26+2.200)/100=0.7916
- 2. Worst case Duty cycle correction factor =  $20*\log (Duty cycle) = -2.03dB$
- 3. 2DH5 has the highest duty cycle worst case and is reported.
- 4. The average levels were calculated from the peak level corrected with duty cycle correction factor (-2.03dB) derived from 20log (dwell time/100ms). This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

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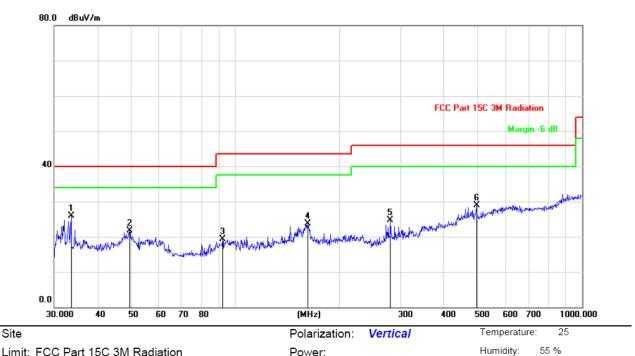


No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		Antenna Height	l able Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		48.6719	30.26	-12.65	17.61	40.00	-22.39	peak			
2		89.9047	32.22	-13.70	18.52	43.50	-24.98	peak			
3		207.8500	32.76	-12.44	20.32	43.50	-23.18	peak			
4		280.0237	39.15	-9.54	29.61	46.00	-16.39	peak			
5	*	477.1693	34.01	-3.71	30.30	46.00	-15.70	peak			
6		721.7259	28.75	0.41	29.16	46.00	-16.84	peak			

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#### Vertical:



Limit: FCC Part 15C 3M Radiation

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	*	33.5623	39.41	-13.45	25.96	40.00	-14.04	peak			
2		49.5328	34.31	-12.63	21.68	40.00	-18.32	peak			
3		91.8162	32.57	-13.34	19.23	43.50	-24.27	peak			
4		161.4740	38.85	-15.10	23.75	43.50	-19.75	peak			
5	1	280.0237	34.17	-9.54	24.63	46.00	-21.37	peak			
6		495.9343	32.07	-3.21	28.86	46.00	-17.14	peak			

Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK) and the worst case Mode (Middle channel and GFSK) was submitted only.

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#### Above 1GHz

Μ	lodulation	Type: GF	SK									
Low channel: 2402 MHz												
F	requency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
	2390	Н	48.17		-8.27	39.90		74	54	-14.10		
	4804	Н	45.83		0.66	46.49		74	54	-7.51		
	7206	Н	36.95		9.5	46.45	~~	74	54	-7.55		
		, GH		-+-, C	•)	(	$G^{+}$		(			
						1						
	2390	V	46.67		-8.27	38.40		74	54	-15.60		
	4804	V	44.63		0.66	45.29		74	54	-8.71		
	7206	V	37.52		9.5	47.02		74	54	-6.98		
L	)	V			&	)						

#### Middle channel: 2441 MHz

TCT通测检测 TESTING CENTRE TECHNOLOGY

Frequency	Ant Pol	Peak	AV	Correction	Emissic	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)		(dBµV/m)		(dB)
4882	Ŧ	47.36		0.99	48.35		74	54	-5.65
7323	Н	38.42		9.87	48.29		74	54	-5.71
	Н								
				( (	$\mathcal{O}$				( ć
4882	V	46.77		0.99	47.76		74	54	-6.24
7323	V	38.24		9.87	48.11		74	54	-5.89
	V								

#### High channel: 2480 MHz

i ligit chaffi	ICI. 2400 IN	/11.12							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2483.5	Н	47.58		-7.83	39.75		74	54	-14.25
4960	Н	46.30		1.33	47.63		74	54	-6.37
7440	Н	36.47		10.22	46.69		74	54	-7.31
	Н								
								,,	
2483.5	V	48.17		-7.83	40.34		74	54	-13.66
4960	<b>S</b> V	48.22	-XC	1.33	49.55		74	54	-4.45
7440	V	36.65		10.22	46.87		74	54	-7.13
	V								

#### Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dB $\mu$ V/m)-Average limit (dB $\mu$ V/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
- 6. Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (GFSK) was submitted only.







