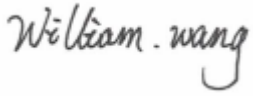
APPENDIX REPORT

Project No.	SHT2006000604EW		
Test sample No.	YPHT20060006009	Model No.	E22-900T30S
Start test date	2020/6/24	Finish date	2020/6/24
Temperature	25°C	Humidity	50%
Test Engineer	Jiongsheng.Feng	Auditor	

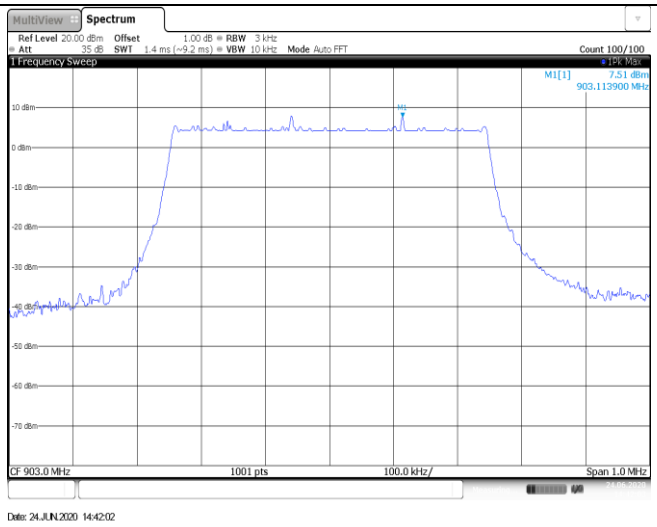
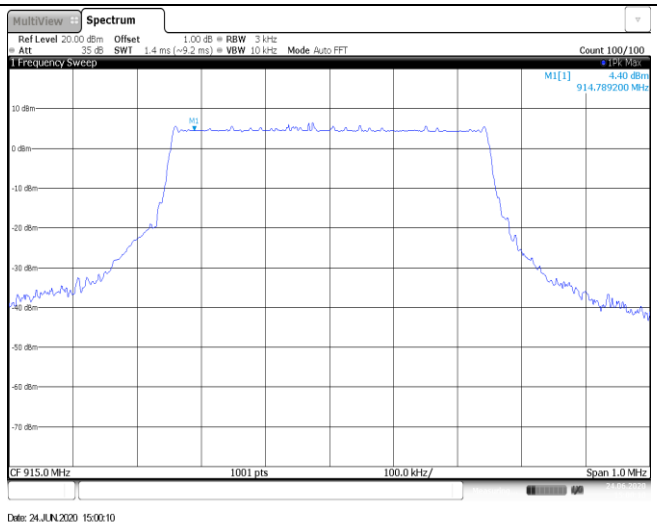
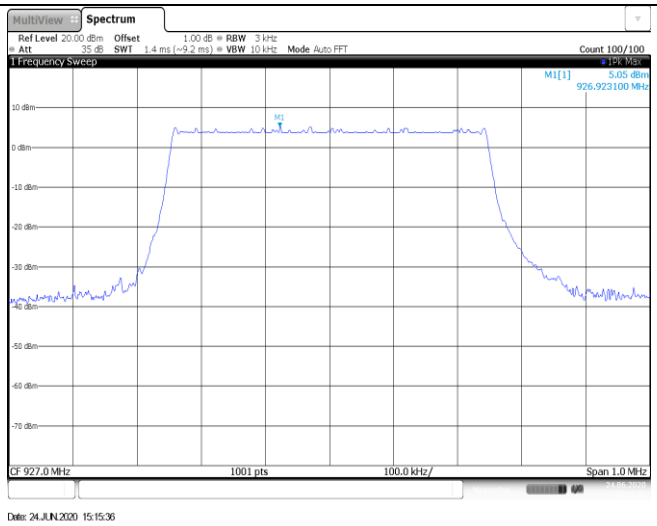
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

Appendix A：Peak Output Power

Type	Channel	Output power (dBm)	Limit (dBm)	Result
GFSK	CH_L	13.37	≤30.00	Pass
	CH_M	12.19		
	CH_H	11.89		

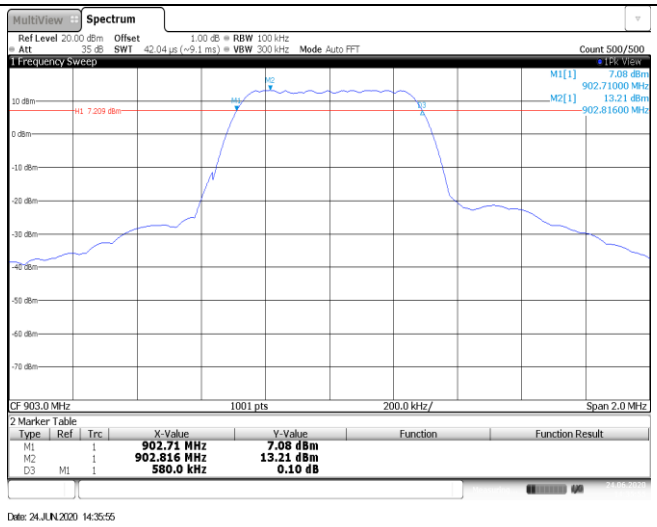
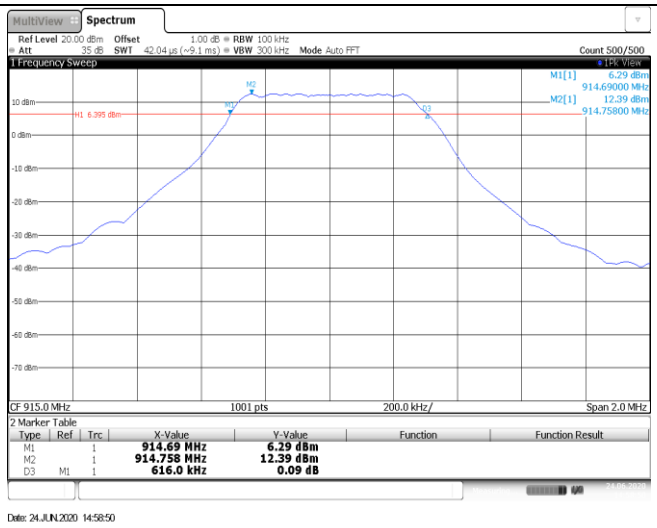
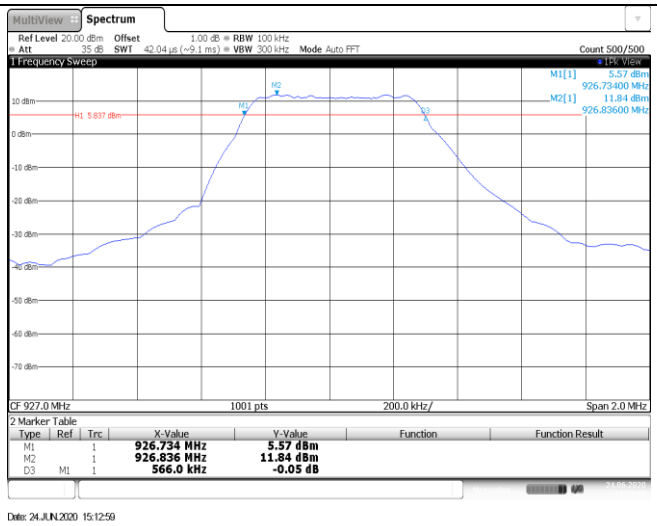
Appendix B：Power Spectral Density

Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
GFSK	CH_L	7.51	≤8.00	Pass
	CH_M	4.40		
	CH_H	5.05		

CH_L	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 3 kHz Att 35 dB SWT 1.4 ms (~9.2 ms) VBW 10 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep 1Pk Max M1[1] 7.51 dBm 903.113900 MHz CF 903.0 MHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 24.JUN.2020 14:42:02
CH_M	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 3 kHz Att 35 dB SWT 1.4 ms (~9.2 ms) VBW 10 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep 1Pk Max M1[1] 4.40 dBm 914.789200 MHz CF 915.0 MHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 24.JUN.2020 15:00:10
CH_H	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 3 kHz Att 35 dB SWT 1.4 ms (~9.2 ms) VBW 10 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep 1Pk Max M1[1] 5.05 dBm 926.923100 MHz CF 927.0 MHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 24.JUN.2020 15:15:36

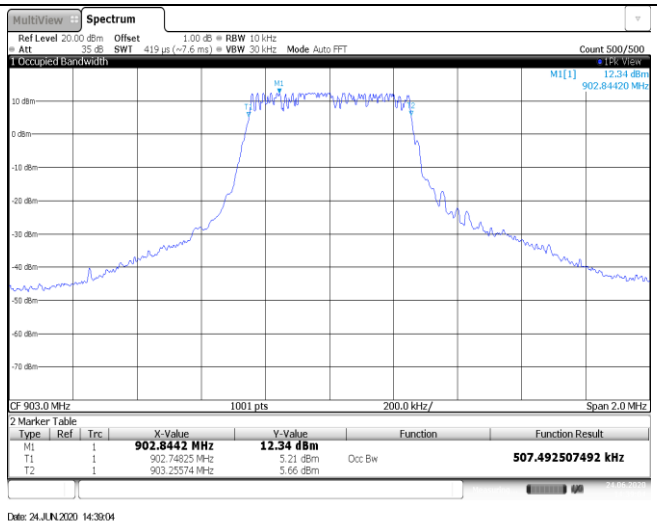
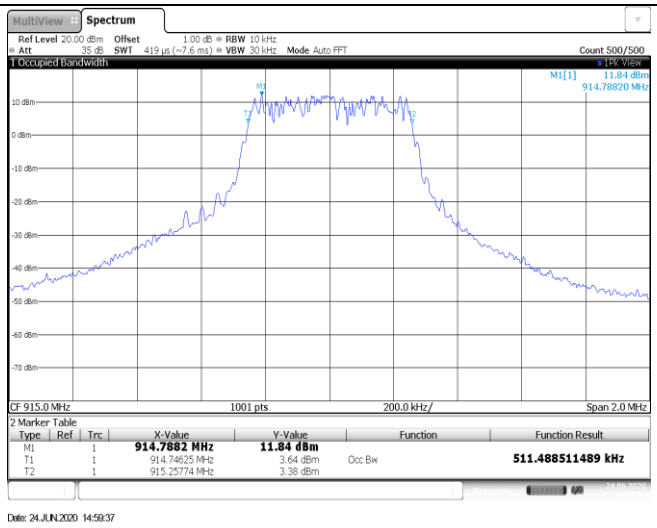
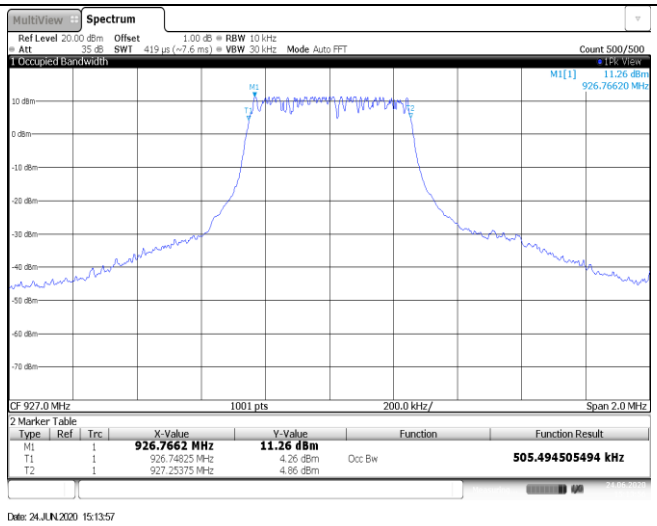
Appendix C：6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
GFSK	CH_L	580.00	≥500	Pass
	CH_M	616.00		
	CH_H	566.00		

CH_L	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWT 42.04 µs (~9.1 ms) VBW 300 kHz Mode Auto FFT Count 500/500 1 Frequency Sweep 1Pk View M1[1] 7.08 dBm 902.71000 MHz M2[1] 13.21 dBm 902.81600 MHz H1 7.209 dBm CF 903.0 MHz 1001 pts 200.0 kHz/ Span 2.0 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 902.71 MHz 7.08 dBm M2 1 902.816 MHz 13.21 dBm D3 M1 1 580.0 kHz 0.10 dB Date: 24.JUN.2020 14:35:55
CH_M	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWT 42.04 µs (~9.1 ms) VBW 300 kHz Mode Auto FFT Count 500/500 1 Frequency Sweep 1Pk View M1[1] 6.29 dBm 914.69000 MHz M2[1] 12.39 dBm 914.75800 MHz H1 6.395 dBm CF 915.0 MHz 1001 pts 200.0 kHz/ Span 2.0 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 914.69 MHz 6.29 dBm M2 1 914.758 MHz 12.39 dBm D3 M1 1 616.0 kHz 0.09 dB Date: 24.JUN.2020 14:58:50
CH_H	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWT 42.04 µs (~9.1 ms) VBW 300 kHz Mode Auto FFT Count 500/500 1 Frequency Sweep 1Pk View M1[1] 5.57 dBm 926.73400 MHz M2[1] 11.84 dBm 926.83600 MHz H1 5.837 dBm CF 927.0 MHz 1001 pts 200.0 kHz/ Span 2.0 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 926.734 MHz 5.57 dBm M2 1 926.836 MHz 11.84 dBm D3 M1 1 566.0 kHz -0.05 dB Date: 24.JUN.2020 15:12:59

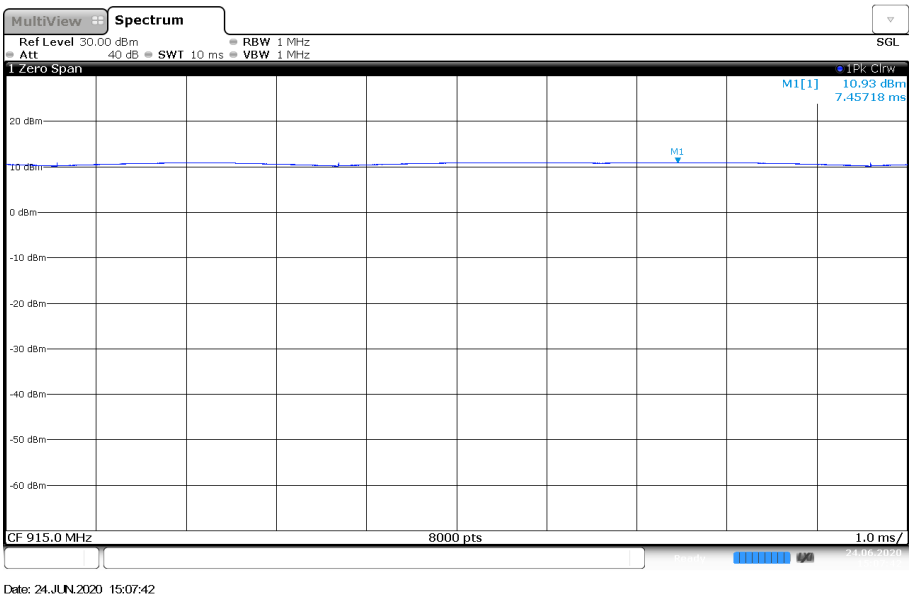
Appendix D：99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
GFSK	CH_L	0.51	-	Pass
	CH_M	0.51		
	CH_H	0.51		

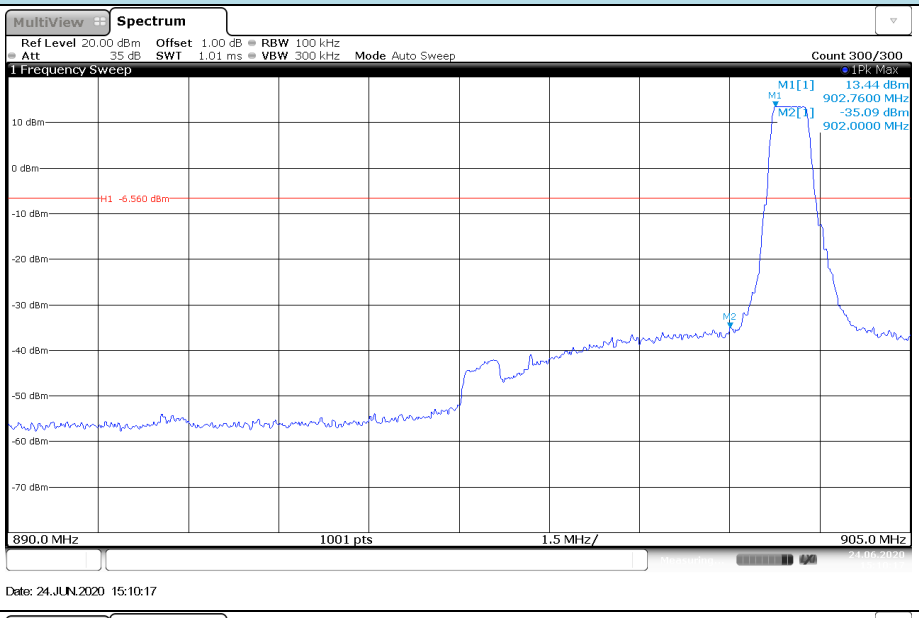
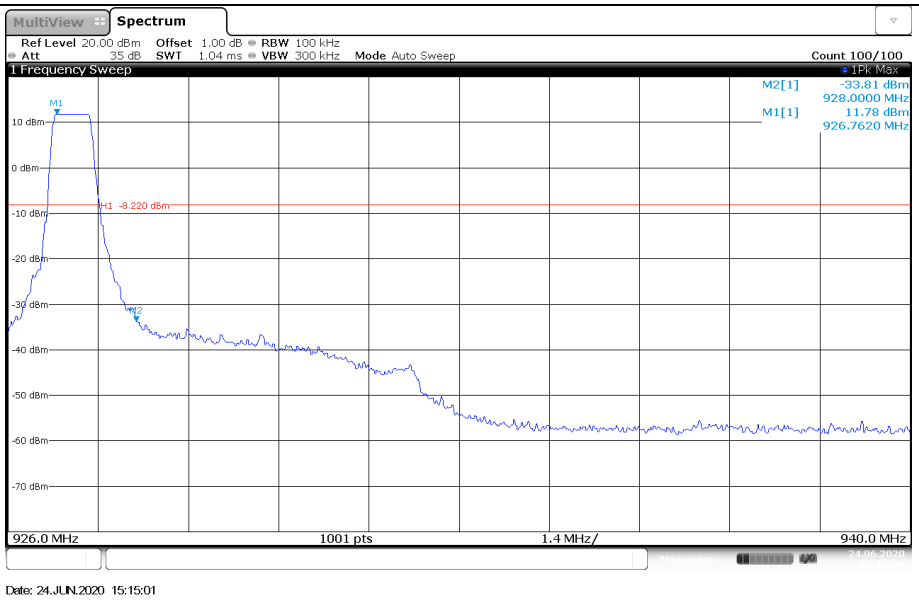
CH_L	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 10 kHz Att 35 dB SWT 419 µs (~7.6 ms) VBW 30 kHz Mode Auto FFT Count 500/500 1 Occupied Bandwidth 1Pk View M1[1] 12.34 dBm 902.84420 MHz CF 903.0 MHz 1001 pts 200.0 kHz/ Span 2.0 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 902.8442 MHz 12.34 dBm T1 1 902.74825 MHz 5.21 dBm Occ Bw 507.492507492 kHz T2 1 903.25574 MHz 5.66 dBm Date: 24.JUN.2020 14:39:04
CH_M	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 10 kHz Att 35 dB SWT 419 µs (~7.6 ms) VBW 30 kHz Mode Auto FFT Count 500/500 1 Occupied Bandwidth 1Pk View M1[1] 11.84 dBm 914.78820 MHz CF 915.0 MHz 1001 pts 200.0 kHz/ Span 2.0 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 914.7882 MHz 11.84 dBm T1 1 914.74625 MHz 3.64 dBm Occ Bw 511.488511489 kHz T2 1 915.25774 MHz 3.38 dBm Date: 24.JUN.2020 14:59:37
CH_H	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 10 kHz Att 35 dB SWT 419 µs (~7.6 ms) VBW 30 kHz Mode Auto FFT Count 500/500 1 Occupied Bandwidth 1Pk View M1[1] 11.26 dBm 926.76620 MHz CF 927.0 MHz 1001 pts 200.0 kHz/ Span 2.0 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 926.7662 MHz 11.26 dBm T1 1 926.74825 MHz 4.26 dBm Occ Bw 505.494505494 kHz T2 1 927.25375 MHz 4.86 dBm Date: 24.JUN.2020 15:13:57

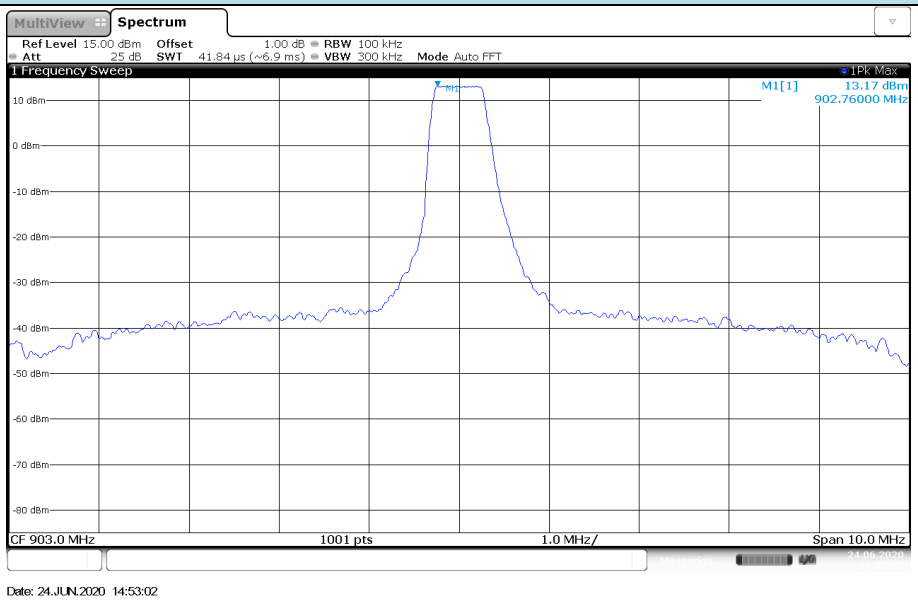
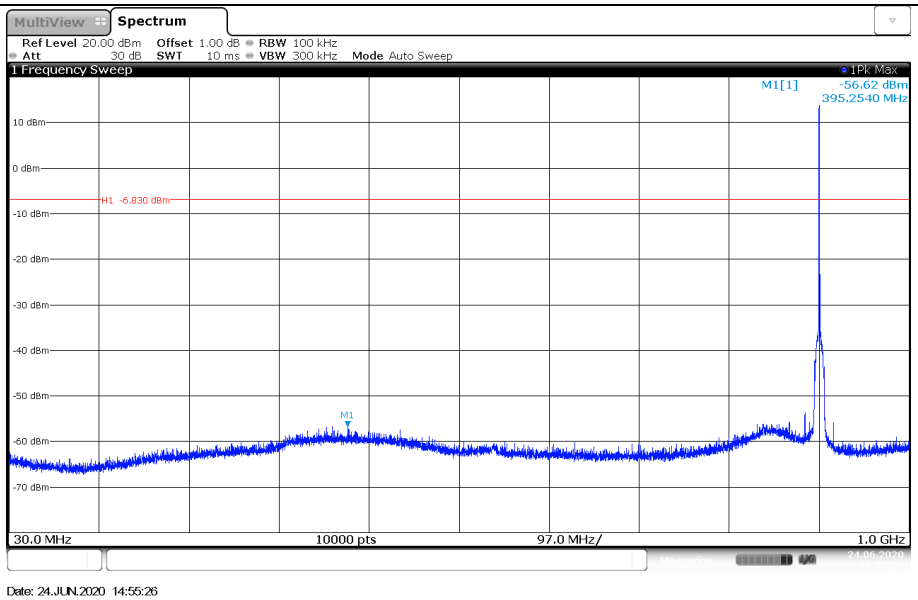
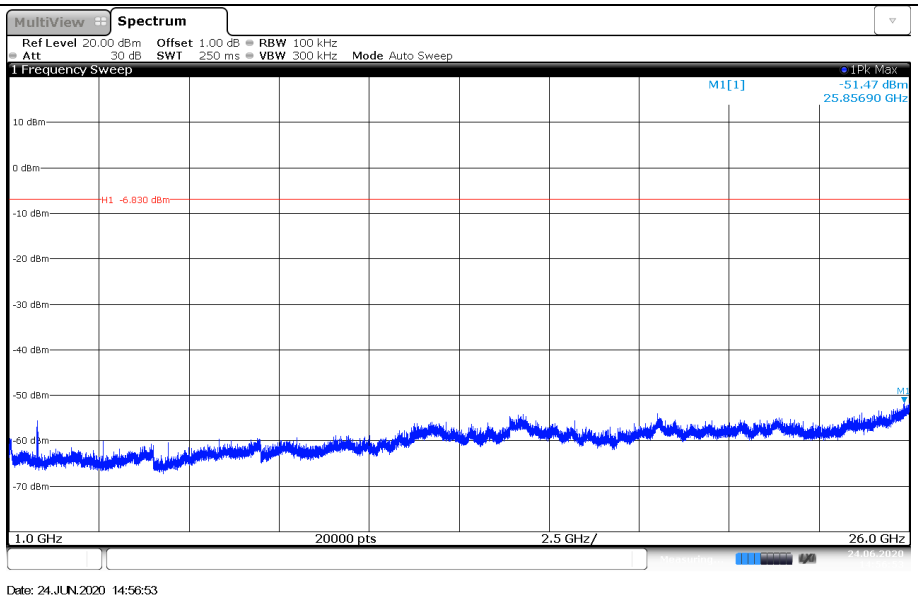
Appendix E：Duty cycle

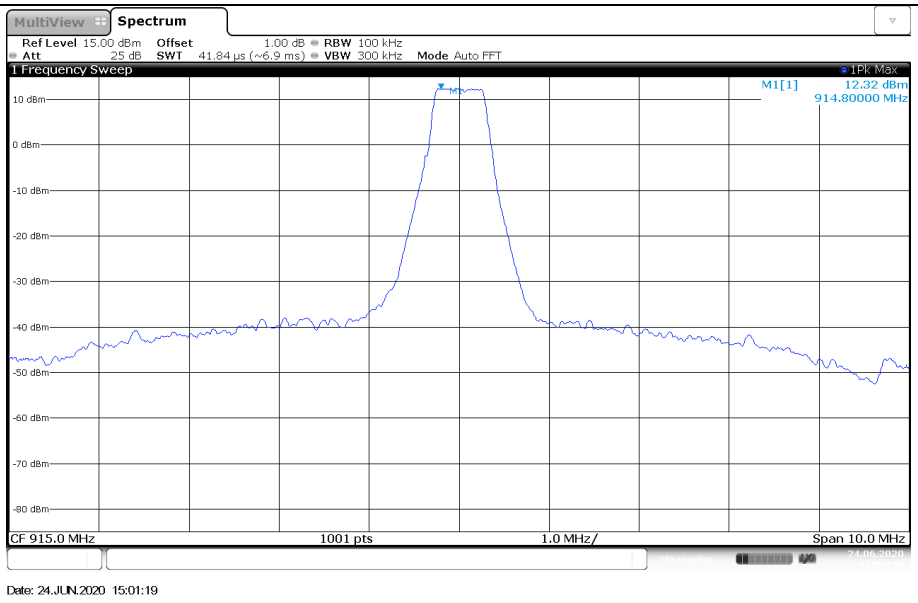
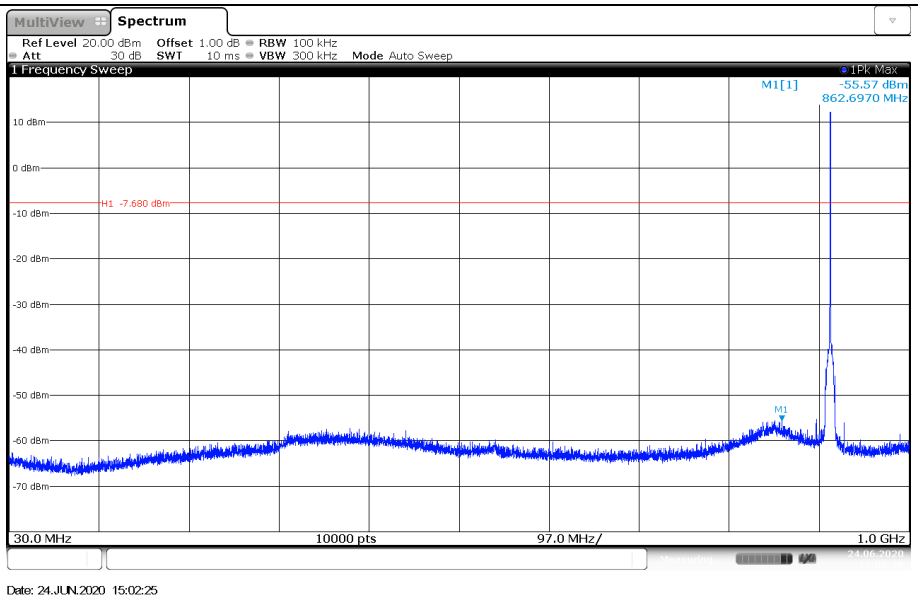
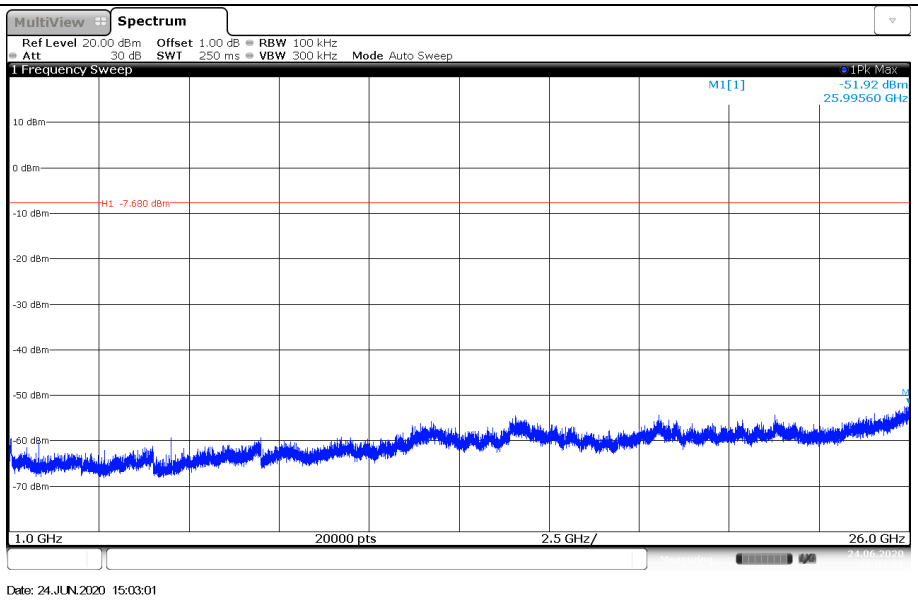
Test Frequency（MHz）	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
915	1	1	100%	1.0

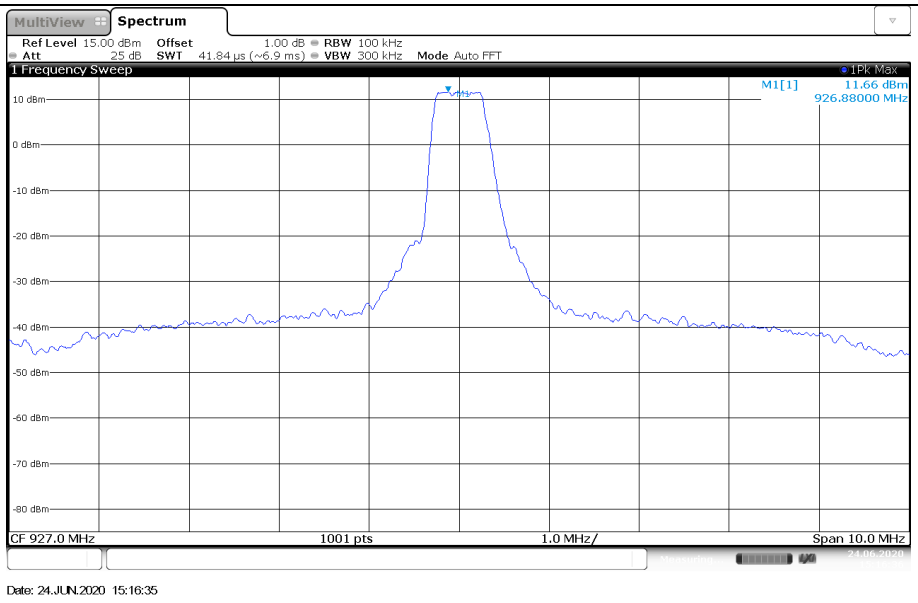
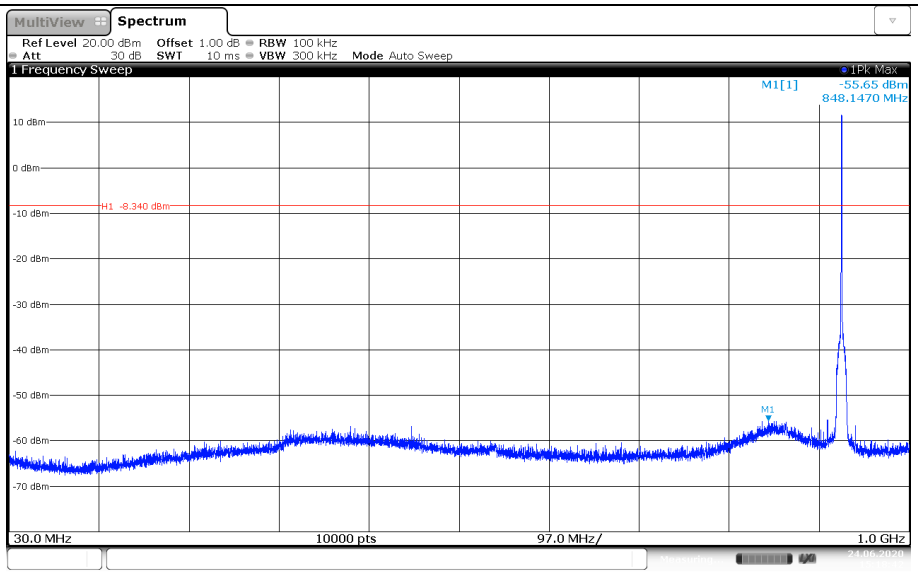
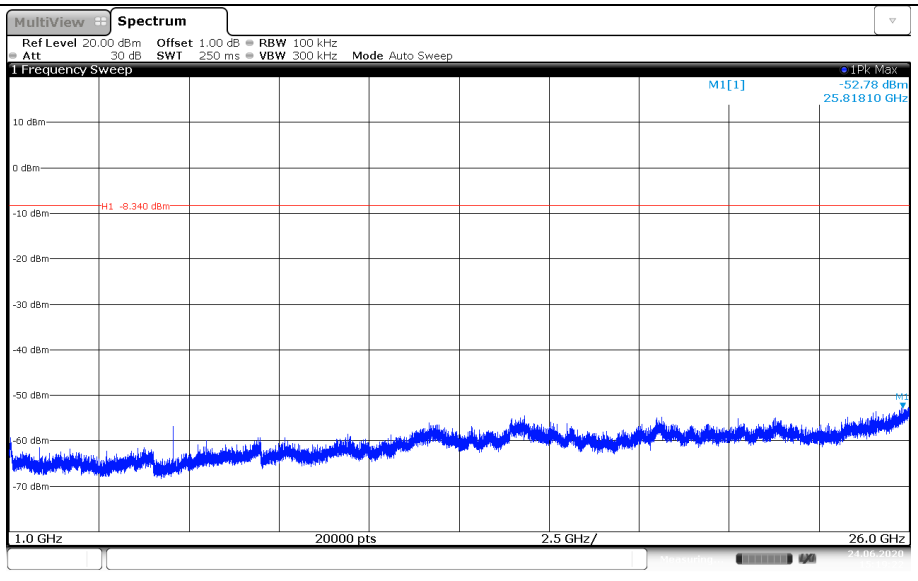


Appendix F：Band edge and Spurious Emissions (conducted)

Test Item:	Band edge
CH_L	
CH_H	

Test Item:	SE
CH_L Reference level	
CH_L 30MHz~1000MHz	
CH_L 1GHz~26GHz	

CH_M Reference level	
CH_M 30MHz~1000MHz	
CH_M 1GHz~26GHz	

CH_H Reference level	
CH_H 30MHz~1000MHz	
CH_H 1GHz~26GHz	

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