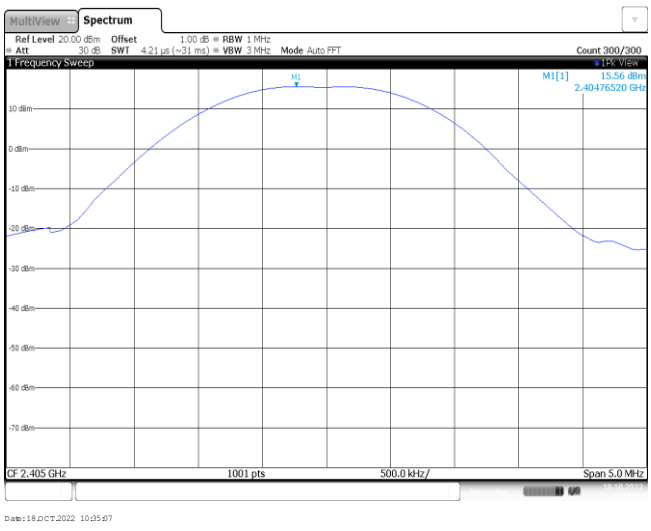
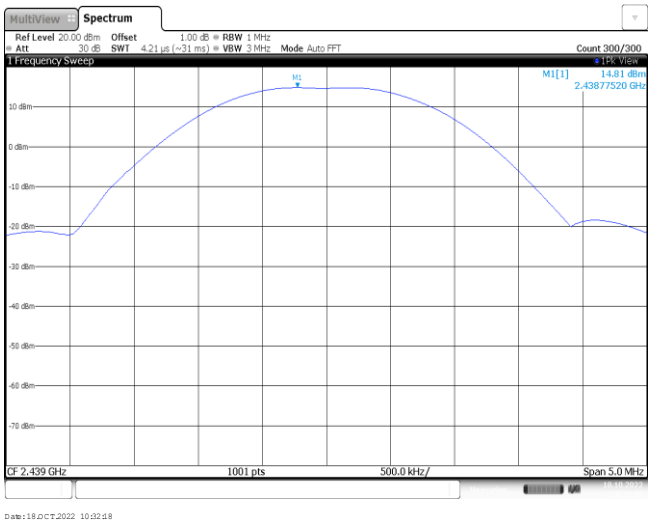
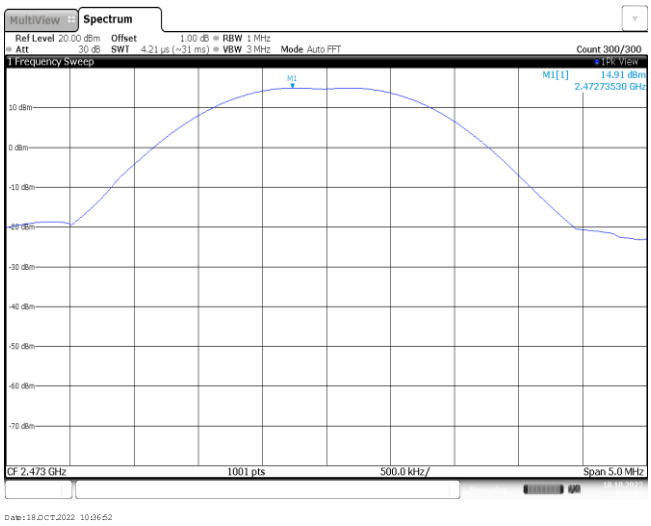
APPENDIX REPORT

Project No.	SHT2208178408EW		
Test sample No.	YPHT22081784001	Model No.	RC 101
Start test date	2022-10-18	Finish date	2022-10-18
Temperature	24.7℃	Humidity	27%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zhao

Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	20 dB Bandwidth	PASS
C	99% Occupied Bandwidth	PASS
D	Carrier Frequencies Separation	PASS
E	Hopping Channel Number	PASS
F	Dwell Time	PASS
G	Duty Cycle Correction Factor (DCCF)	PASS
H	Band edge and Spurious Emissions(coducted)	PASS

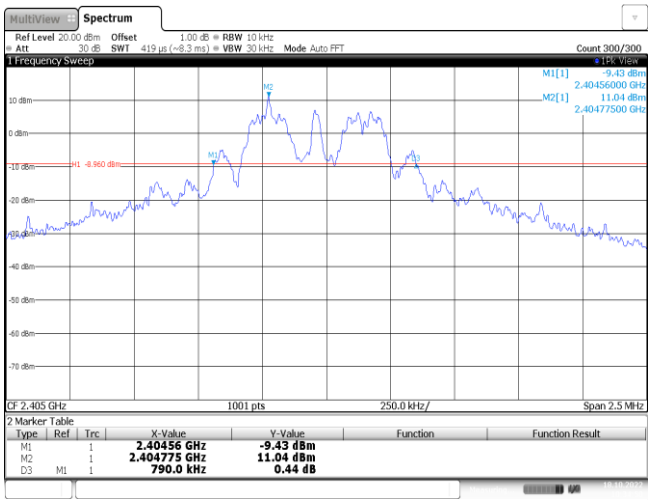
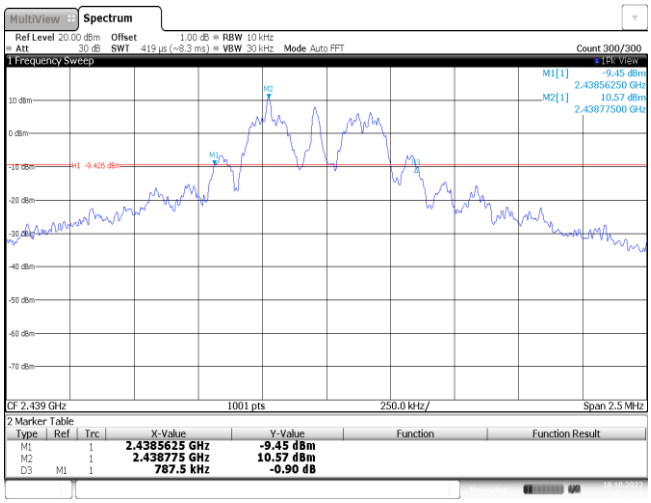
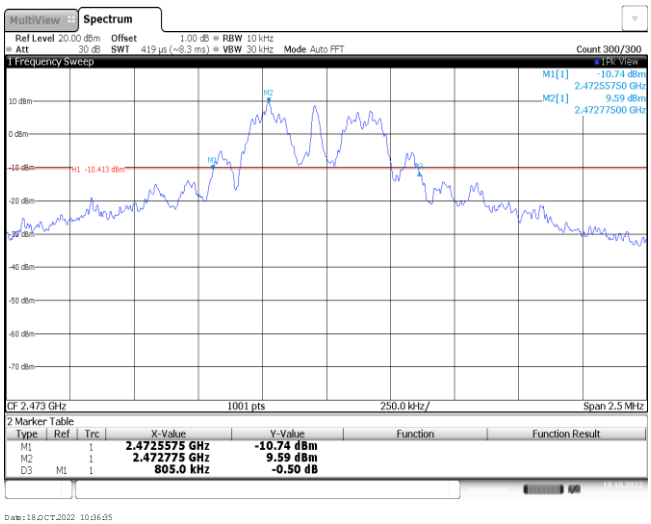
Appendix A: Peak Output Power

Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
CH-L	15.56	15.45	≤ 30.00	Pass
CH-M	14.81	14.76		
CH-H	14.91	14.84		

CH-L	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 4.21 µs (~31 ms) VBW 3 MHz Mode Auto FFT Count 300/300 1 Frequency Sweep 1Pk View M1[1] 15.56 dBm 2.40476520 GHz M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.405 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date:18.OCT.2022 10:35:07
CH-M	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 4.21 µs (~31 ms) VBW 3 MHz Mode Auto FFT Count 300/300 1 Frequency Sweep 1Pk View M1[1] 14.81 dBm 2.43877520 GHz M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.439 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date:18.OCT.2022 10:32:18
CH-H	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 4.21 µs (~31 ms) VBW 3 MHz Mode Auto FFT Count 300/300 1 Frequency Sweep 1Pk View M1[1] 14.91 dBm 2.47273530 GHz M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.473 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date:18.OCT.2022 10:36:52

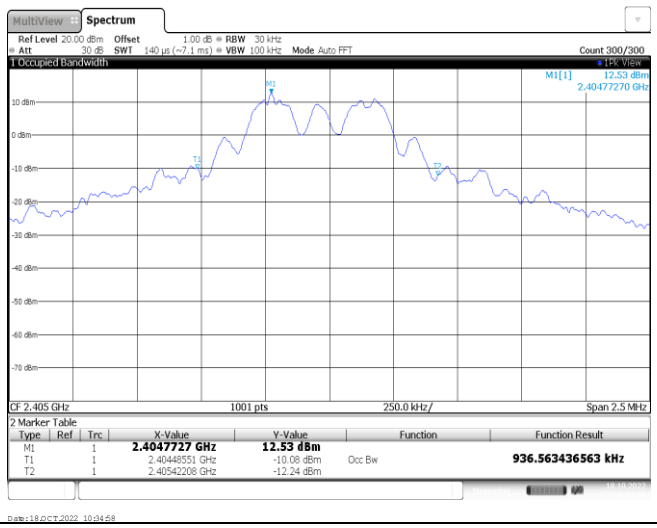
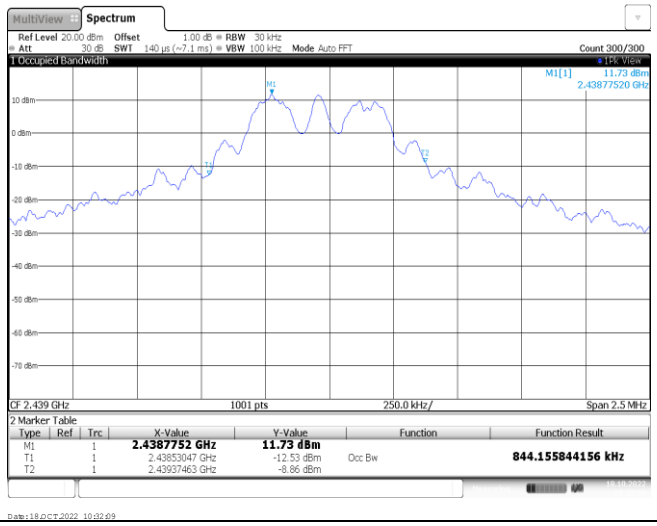
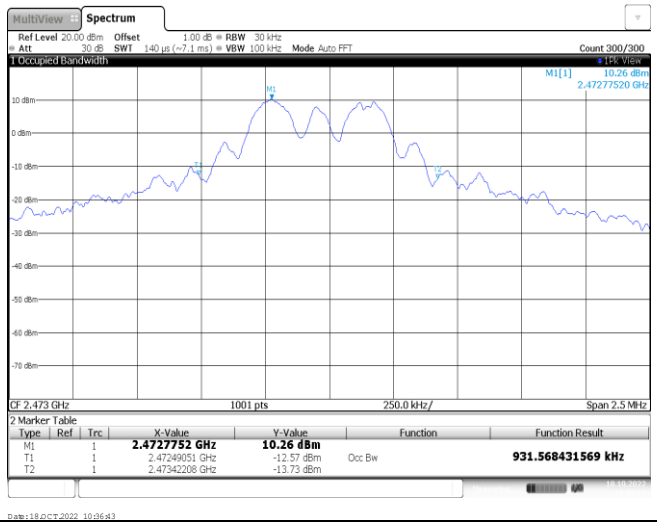
Appendix B : 20 dB Bandwidth

Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
CH-L	790.00	-	Pass
CH-M	787.50		
CH-H	805.00		

CH-L	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 10 kHz Att 30 dB SWT 419 µs (~8.3 ms) VBW 30 kHz Mode Auto FFT Count 300/300 1 Frequency Sweep 1Pk View M1[1] -9.43 dBm 2.40456000 GHz M2[1] 11.04 dBm 2.40477500 GHz CF 2.405 GHz 1001 pts 250.0 kHz/ Span 2.5 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 2.40456 GHz -9.43 dBm M2 1 2.404775 GHz 11.04 dBm D3 M1 1 790.0 kHz 0.44 dB Date:18.OCT.2022 10:34:50
CH-M	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 10 kHz Att 30 dB SWT 419 µs (~8.3 ms) VBW 30 kHz Mode Auto FFT Count 300/300 1 Frequency Sweep 1Pk View M1[1] -9.45 dBm 2.43856250 GHz M2[1] 10.57 dBm 2.43877500 GHz CF 2.439 GHz 1001 pts 250.0 kHz/ Span 2.5 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 2.4385625 GHz -9.45 dBm M2 1 2.438775 GHz 10.57 dBm D3 M1 1 787.5 kHz -0.90 dB Date:18.OCT.2022 10:31:57
CH-H	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 10 kHz Att 30 dB SWT 419 µs (~8.3 ms) VBW 30 kHz Mode Auto FFT Count 300/300 1 Frequency Sweep 1Pk View M1[1] -10.74 dBm 2.47255750 GHz M2[1] 9.59 dBm 2.47277500 GHz CF 2.473 GHz 1001 pts 250.0 kHz/ Span 2.5 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 2.4725575 GHz -10.74 dBm M2 1 2.472775 GHz 9.59 dBm D3 M1 1 805.0 kHz -0.50 dB Date:18.OCT.2022 10:36:35

Appendix C：99% Occupied Bandwidth

Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
CH-L	0.94	-	Pass
CH-M	0.84		
CH-H	0.93		

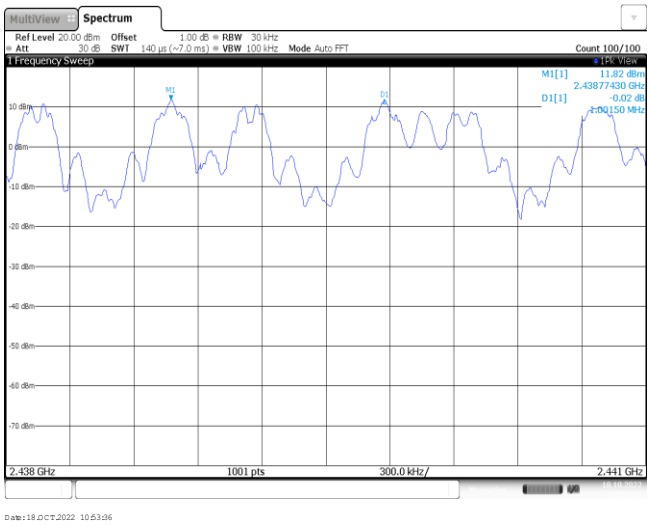
CH-L	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 140 µs (~7.1 ms) VBW 100 kHz Mode Auto FFT Count 300/300 1 Occupied Bandwidth 1Pk View M1[1] 12.53 dBm 2.40477270 GHz CF 2.405 GHz 1001 pts 250.0 kHz/ Span 2.5 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 2.4047727 GHz 12.53 dBm T1 1 2.40448551 GHz -10.08 dBm Occ Bw 936.563436563 kHz T2 1 2.40542208 GHz -12.24 dBm Date:18.OCT.2022 10:34:58
CH-M	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 140 µs (~7.1 ms) VBW 100 kHz Mode Auto FFT Count 300/300 1 Occupied Bandwidth 1Pk View M1[1] 11.73 dBm 2.43877520 GHz CF 2.439 GHz 1001 pts 250.0 kHz/ Span 2.5 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 2.4387752 GHz 11.73 dBm T1 1 2.43853047 GHz -12.53 dBm Occ Bw 844.155844156 kHz T2 1 2.43937463 GHz -8.86 dBm Date:18.OCT.2022 10:32:09
CH-H	 MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 140 µs (~7.1 ms) VBW 100 kHz Mode Auto FFT Count 300/300 1 Occupied Bandwidth 1Pk View M1[1] 10.26 dBm 2.47277520 GHz CF 2.473 GHz 1001 pts 250.0 kHz/ Span 2.5 MHz 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 2.4727752 GHz 10.26 dBm T1 1 2.47249051 GHz -12.57 dBm Occ Bw 931.568431569 kHz T2 1 2.47342208 GHz -13.73 dBm Date:18.OCT.2022 10:36:43

Appendix D：Carrier Frequencies Separation

Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
CH-M	1.00	≥805.00	Pass

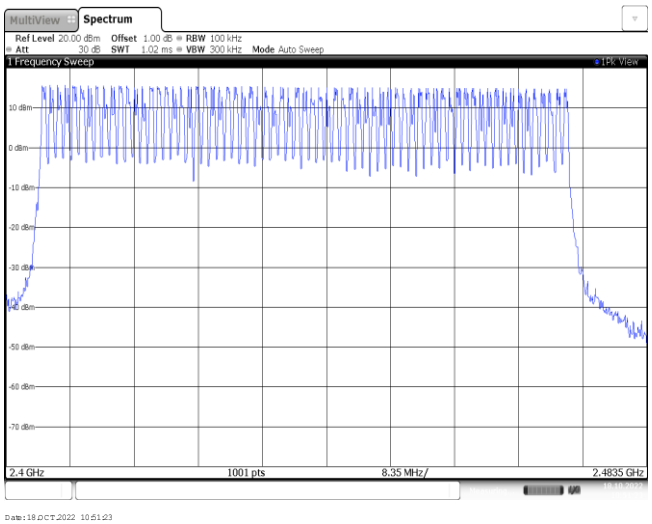
Note:

*: limit = The maximum 20 dB Bandwidth on the appendix B.

CH-M	

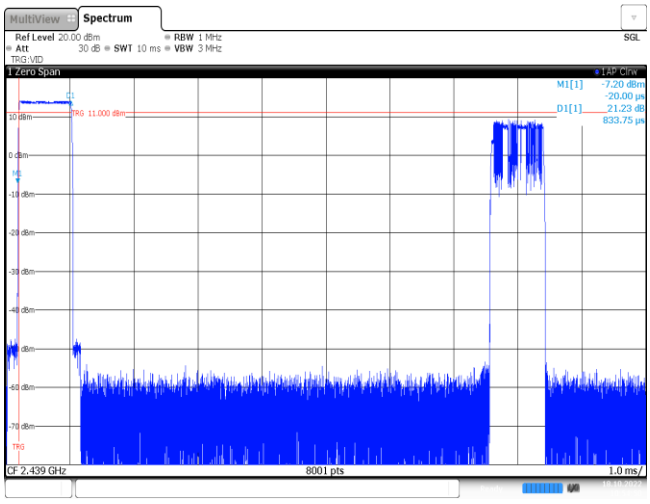
Appendix E：Hopping Channel Number

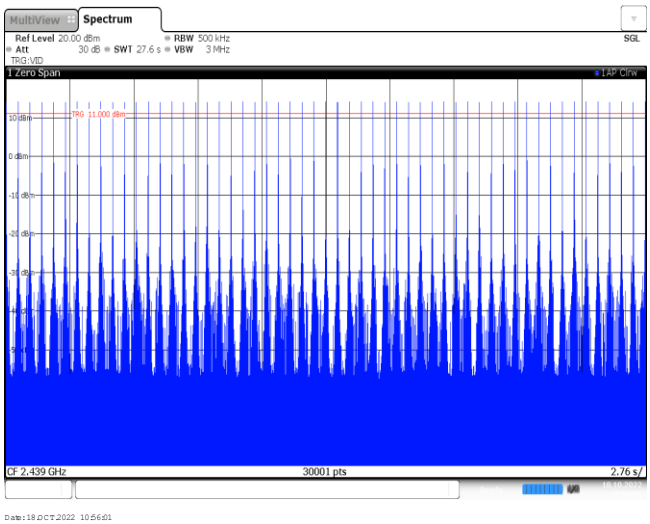
Channel number	Limit	Result
69	≥15.00	Pass



Appendix F：Dwell Time

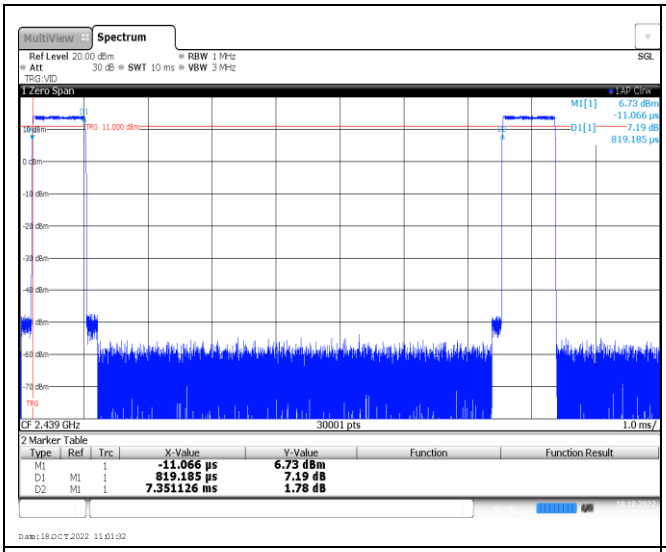
Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
0.83	54	0.05	≤ 0.40	PASS



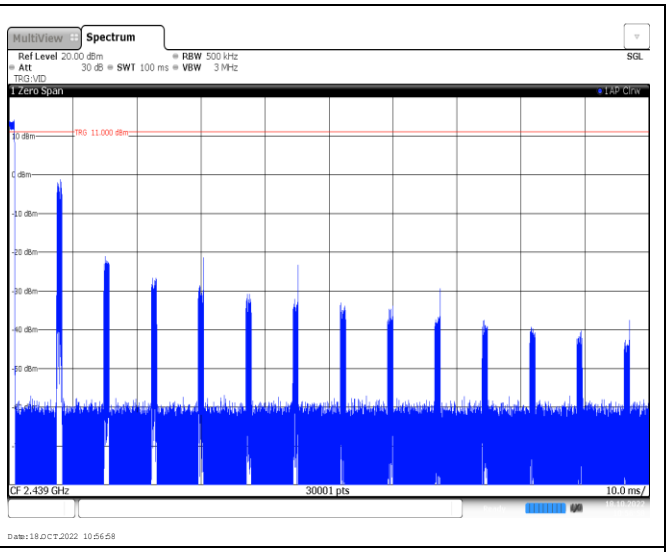


Appendix G: Duty Cycle Correction Factor (DCCF)

Test Frequency	$T_{on\ time}$ for single burst [ms]	T_{period} [ms]	Burst Quantity	DCCF [dB]
CH-M	0.82	100	1	-41.72

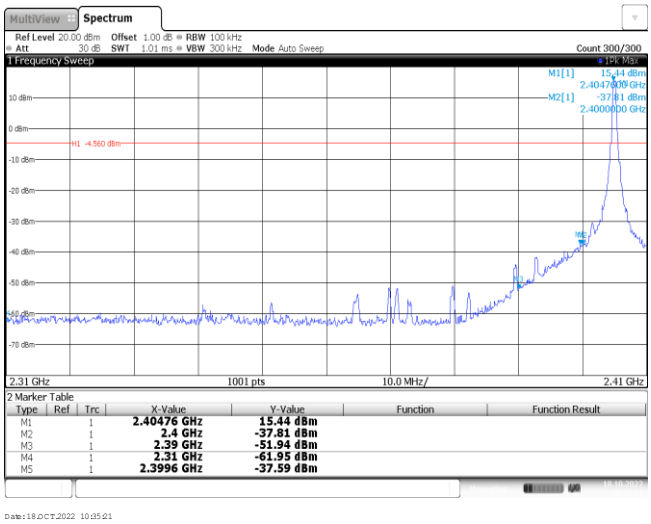
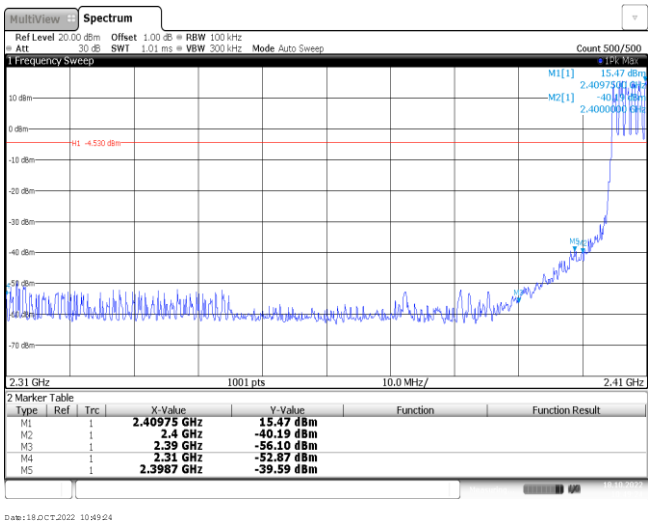
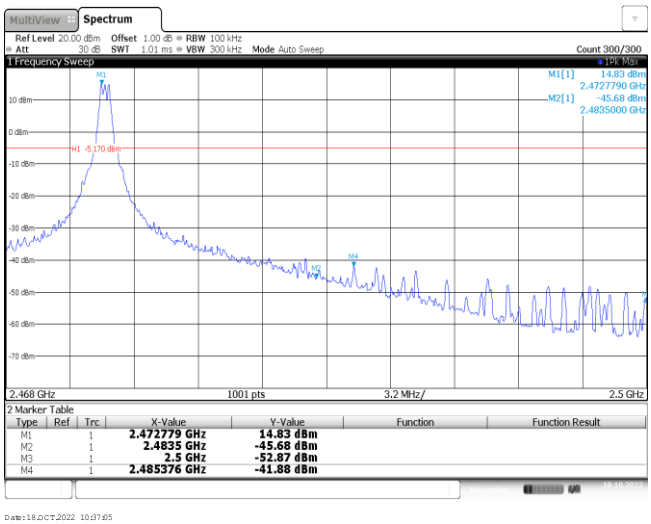


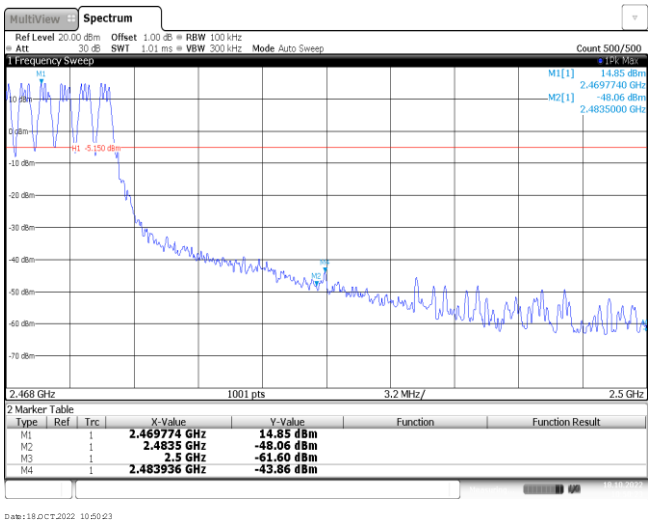
$T_{on\ time}$ for single burst

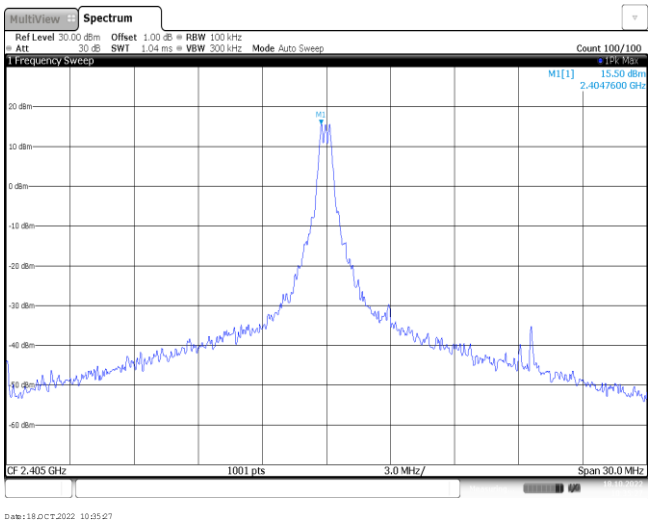
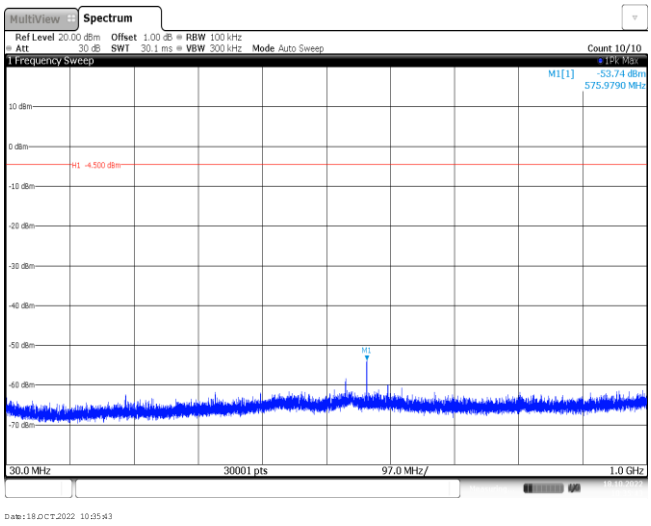
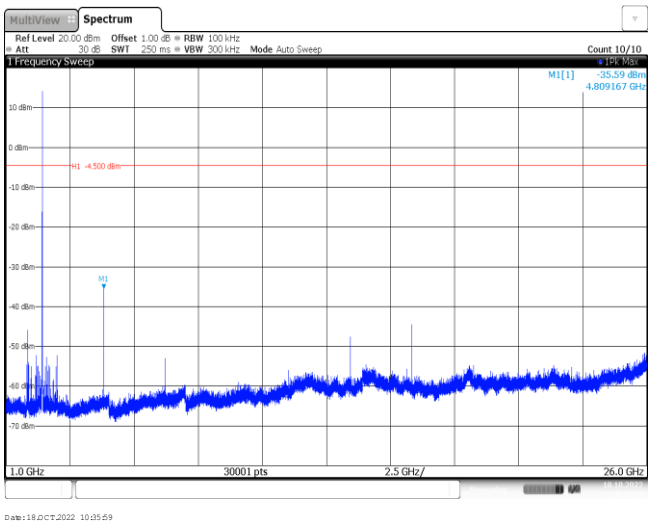


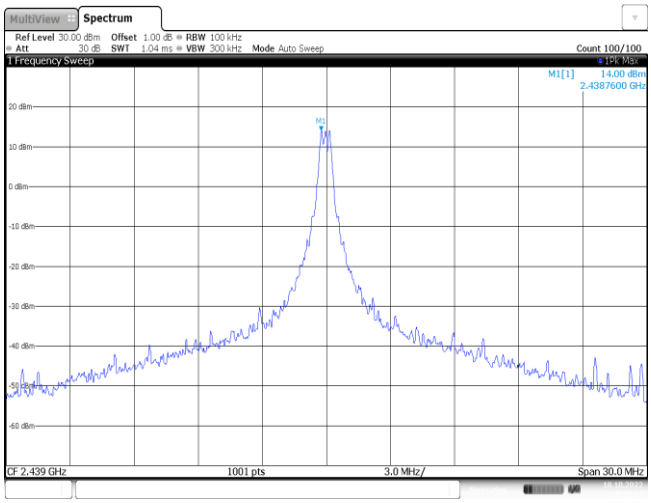
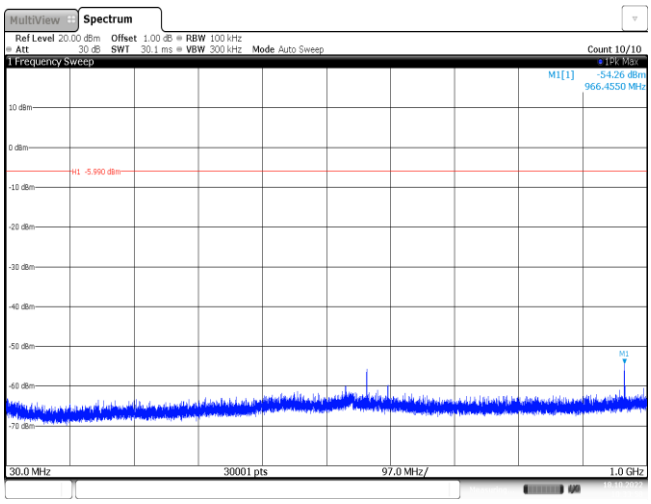
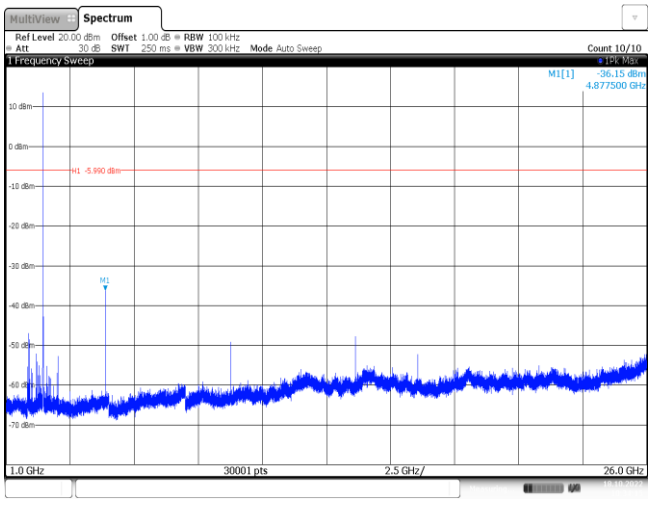
Burst Quantity

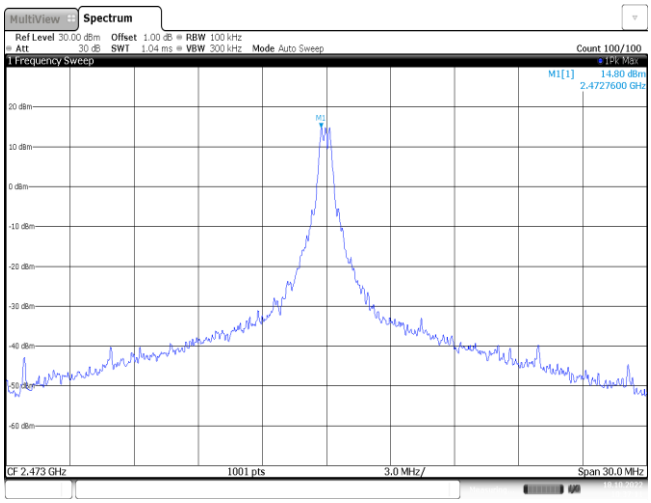
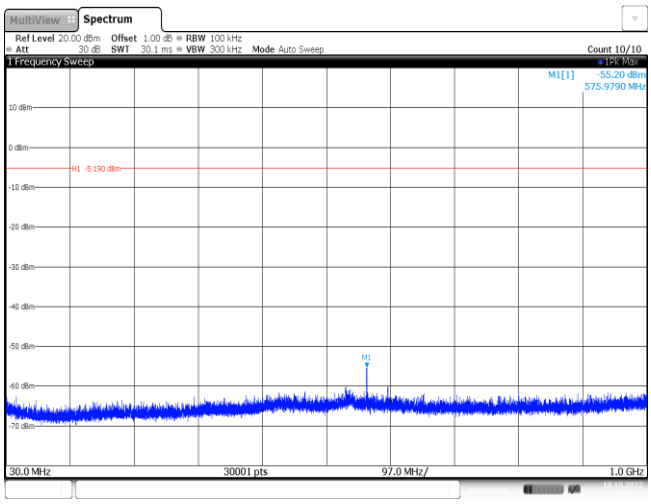
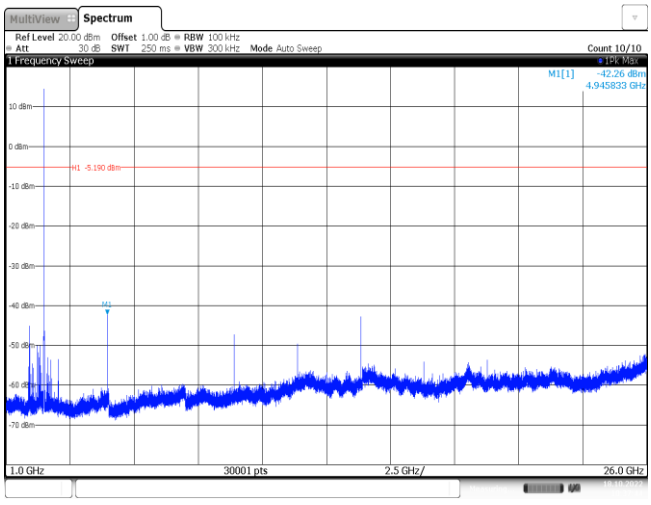
Appendix H：Band edge and Spurious Emissions (conducted)

Test Item:	Band edge
CH-L No hopping mode	
CH-L Hopping mode	
CH-H No hopping mode	

CH-H Hopping mode	

Test Item:	Spurious Emission
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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