

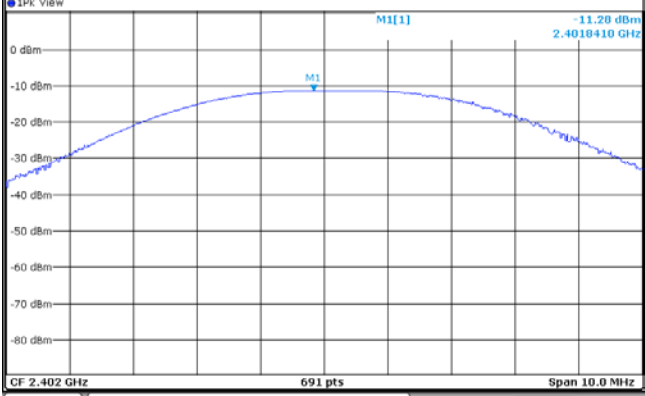
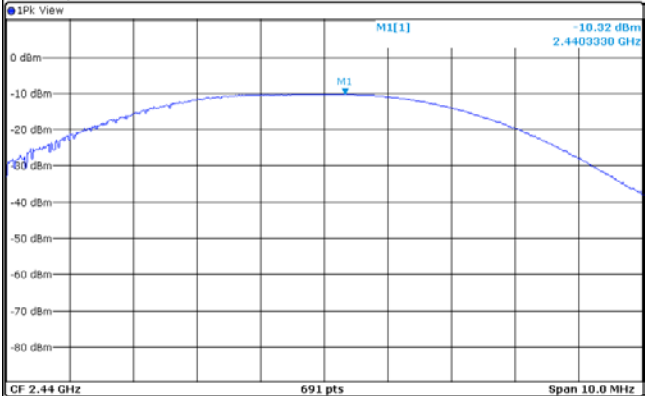
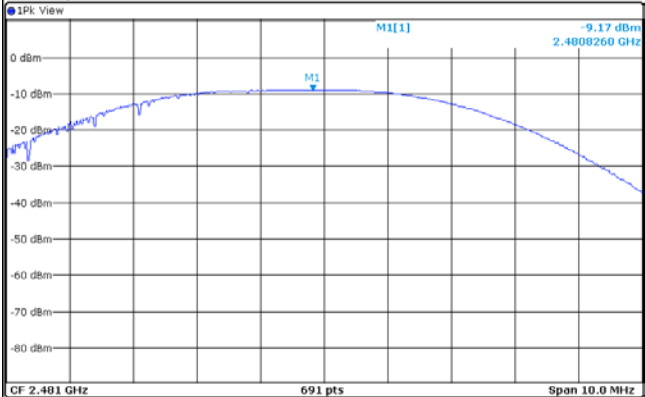
APPENDIX REPORT

Project No.	SHT2204077916EW		
Test sample No.	YPHT2204077902201	Model No.	SM9110 remote control
Start test date	2023-05-12	Finish date	2023-05-12
Temperature	24.4℃	Humidity	48%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zheo

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

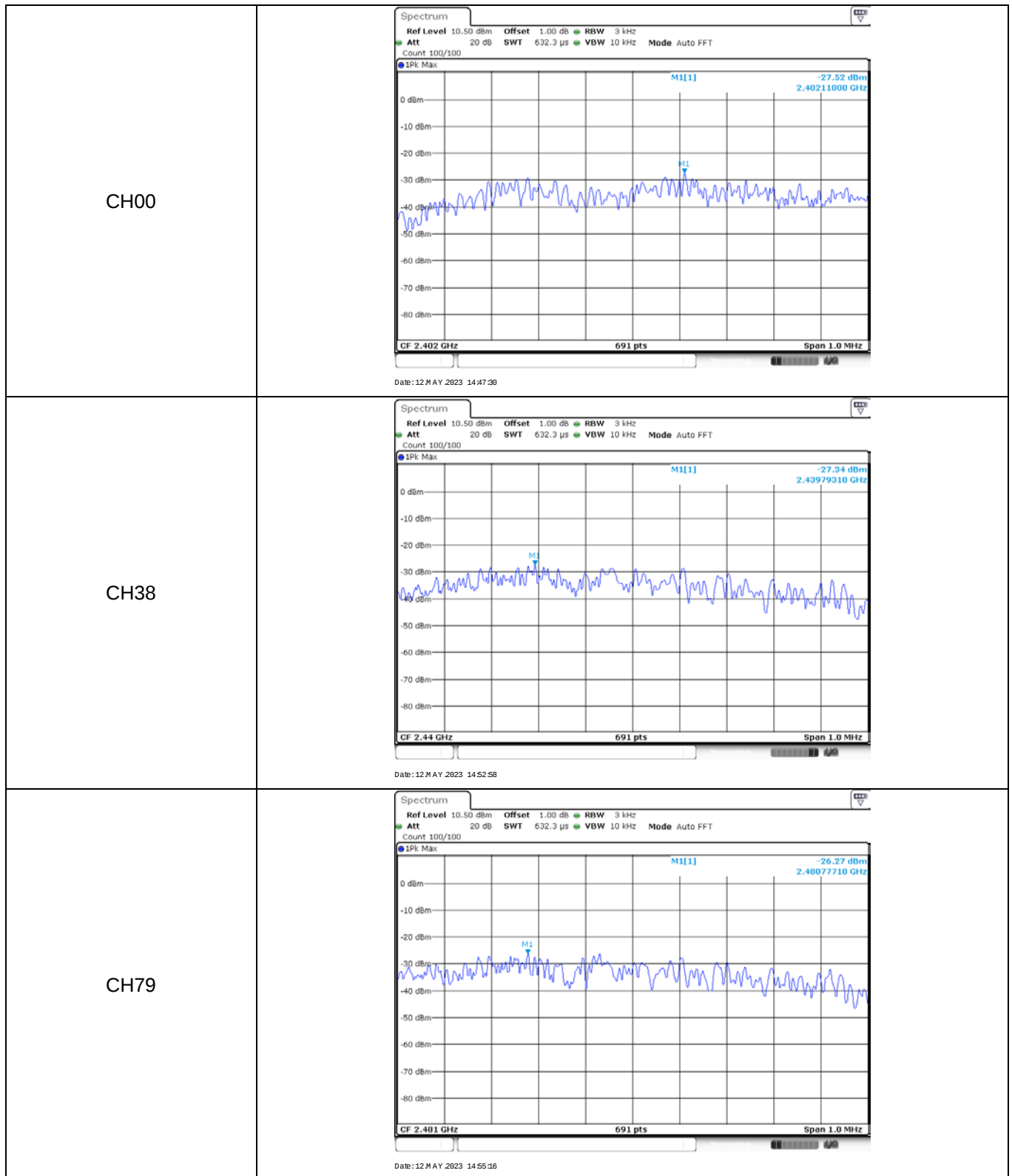
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
FSK	00	-11.28	-11.32	≤ 30.00	Pass
	38	-10.32	-10.35		
	79	-9.17	-9.21		

CH00	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 MHz Att 20 dB SWT 1 ms VBW 10 MHz Mode Auto Sweep Count 500/500 IPk View M1 -11.29 dBm 2.4018410 GHz  CF 2.402 GHz691 ptsSpan 10.0 MHz Date:12 MAY 2023 14:47:16
CH38	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 MHz Att 20 dB SWT 1 ms VBW 10 MHz Mode Auto Sweep Count 500/500 IPk View M1 -10.32 dBm 2.4403330 GHz  CF 2.44 GHz691 ptsSpan 10.0 MHz Date:12 MAY 2023 14:52:44
CH79	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 MHz Att 20 dB SWT 1 ms VBW 10 MHz Mode Auto Sweep Count 500/500 IPk View M1 -9.17 dBm 2.4008260 GHz  CF 2.401 GHz691 ptsSpan 10.0 MHz Date:12 MAY 2023 14:55:02

Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
FSK	00	-27.52	≤8.00	Pass
	38	-27.34		
	79	-26.27		



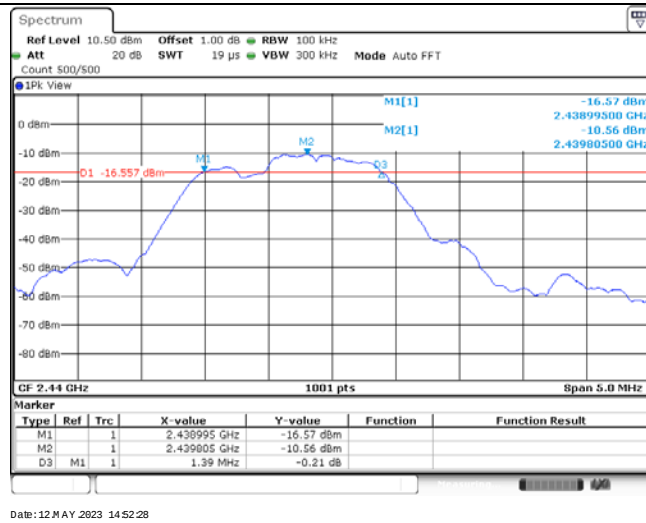
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
FSK	00	1070.00	≥500	Pass
	38	1390.00		
	79	1570.00		

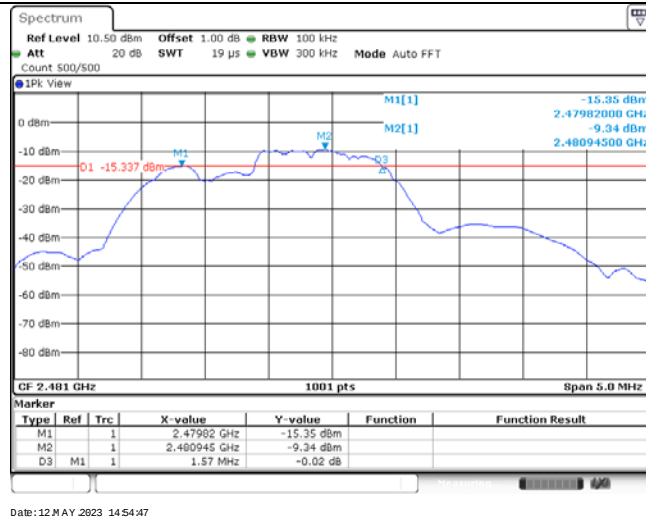
CH00



CH38



CH79



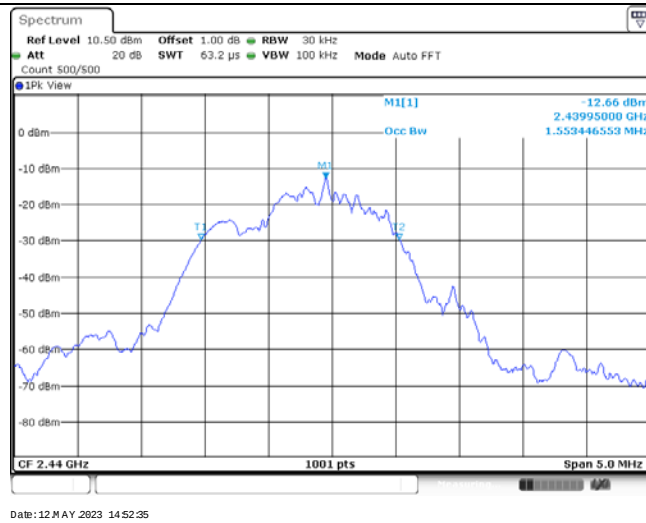
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
FSK	00	1.63	-	Pass
	38	1.55		
	79	1.85		

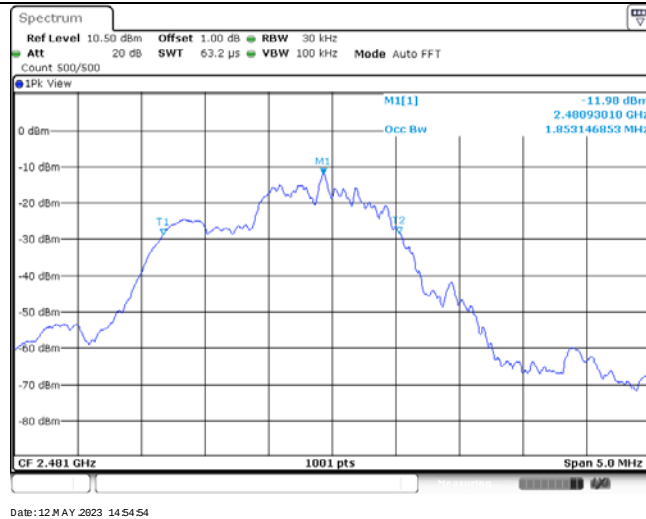
CH00



CH38

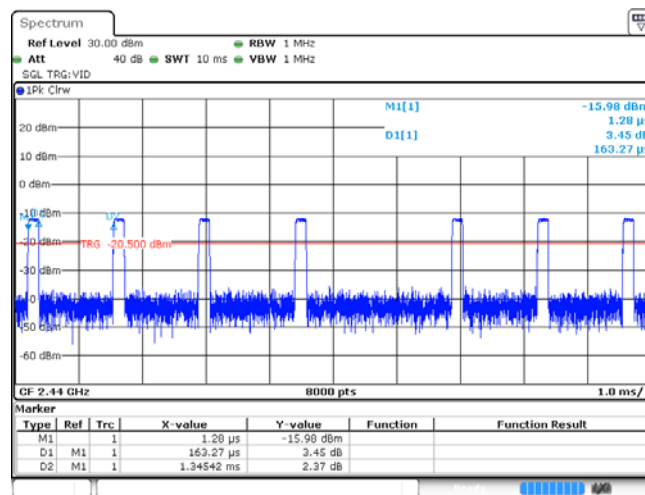


CH79



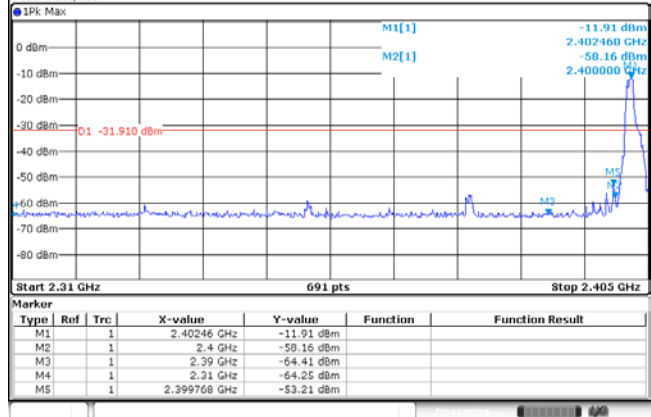
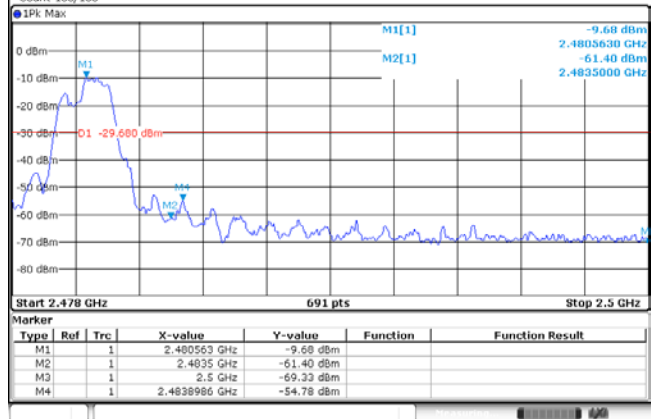
Appendix E: Duty cycle

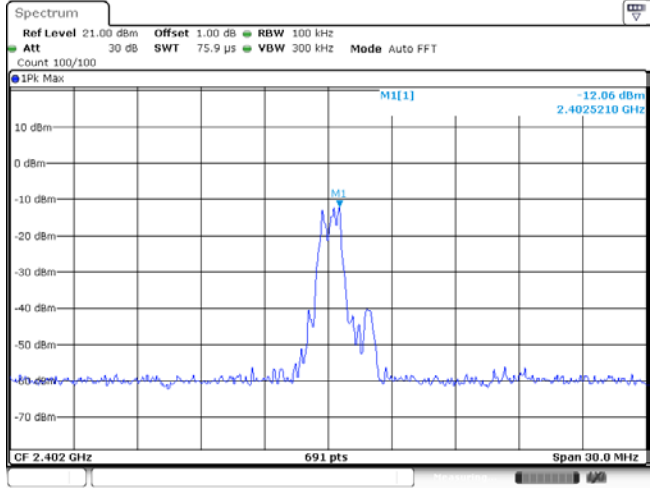
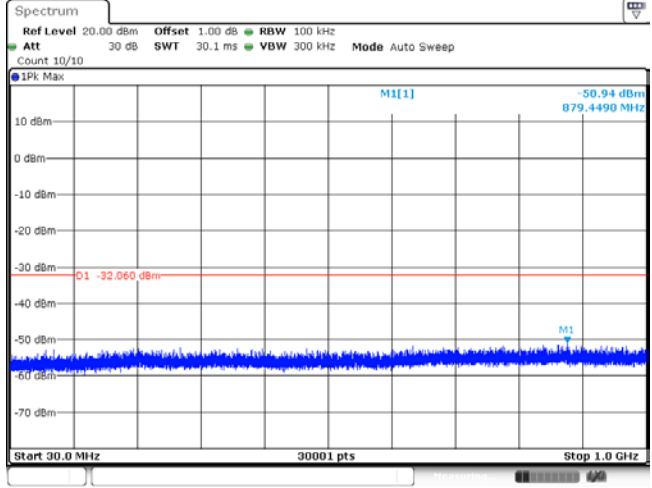
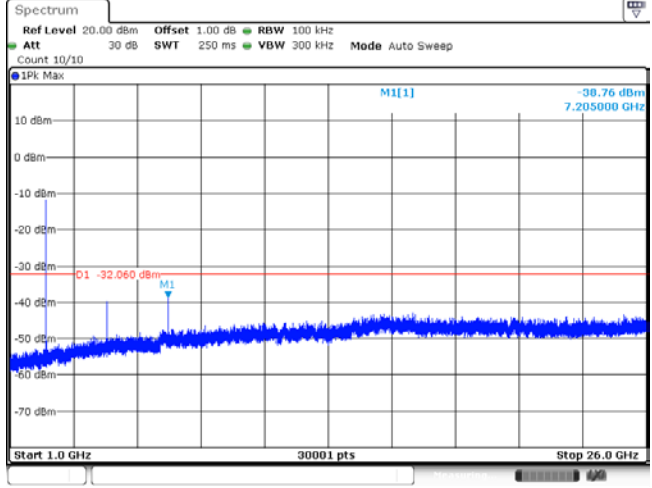
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.16	1.35	11.9%	6.25



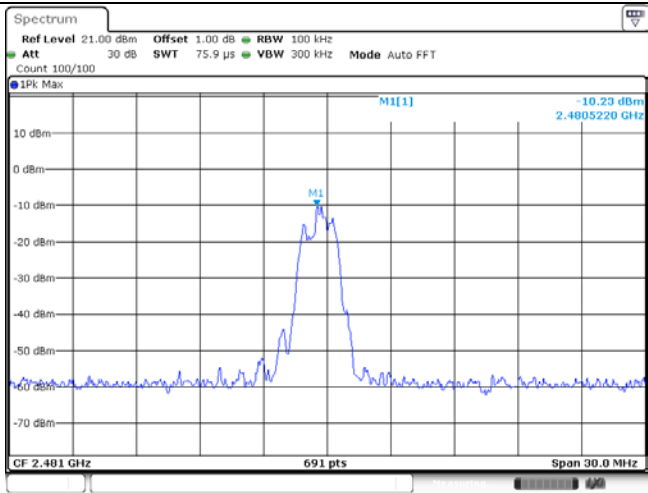
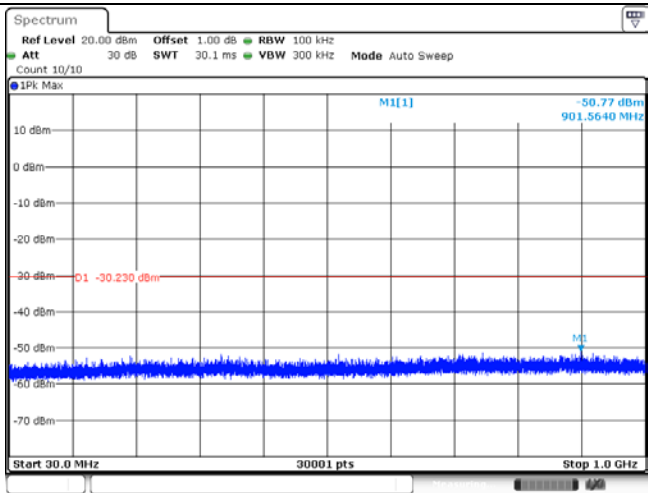
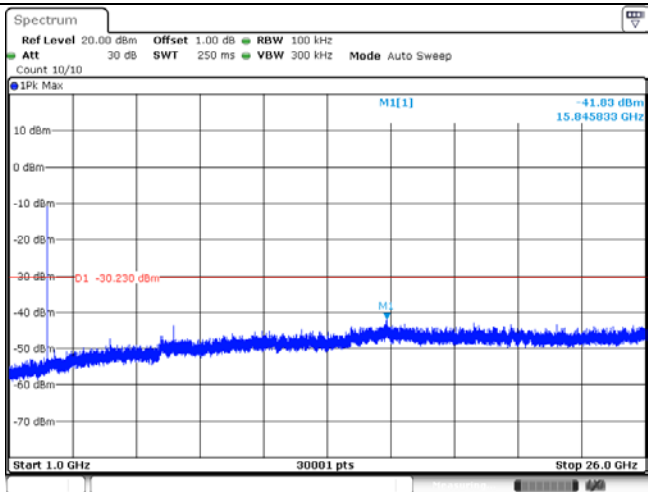
Date: 12 MAY 2023 14:52:05

Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
CH00	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1Pk Max  Start 2.31 GHz 691 pts Stop 2.405 GHz <table><thead><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td>1</td><td></td><td>2.40246 GHz</td><td>-11.91 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-50.16 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-64.41 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.25 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399768 GHz</td><td>-53.21 dBm</td><td></td><td></td></tr></tbody></table> Date: 12 MAY 2023 14:47:39	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40246 GHz	-11.91 dBm			M2	1		2.4 GHz	-50.16 dBm			M3	1		2.39 GHz	-64.41 dBm			M4	1		2.31 GHz	-64.25 dBm			M5	1		2.399768 GHz	-53.21 dBm		
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M5	1		2.399768 GHz	-53.21 dBm																																							
CH79	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max  Start 2.478 GHz 691 pts Stop 2.5 GHz <table><thead><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td>1</td><td></td><td>2.400563 GHz</td><td>-9.68 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4035 GHz</td><td>-61.40 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-69.33 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4038986 GHz</td><td>-54.78 dBm</td><td></td><td></td></tr></tbody></table> Date: 12 MAY 2023 14:55:25	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.400563 GHz	-9.68 dBm			M2	1		2.4035 GHz	-61.40 dBm			M3	1		2.5 GHz	-69.33 dBm			M4	1		2.4038986 GHz	-54.78 dBm									
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M4	1		2.4038986 GHz	-54.78 dBm																																							

Test Item:	SE
CH00 Reference level	 Date: 12 MAY 2023 14:48:33
CH00 30MHz~1000MHz	 Date: 12 MAY 2023 14:48:48
CH00 1GHz~26GHz	 Date: 12 MAY 2023 14:49:15

CH38 Reference level	Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 IPk Max M1[1] -10.91 dBm 2.4396090 GHz CF 2.44 GHz 691 pts Span 30.0 MHz Date: 12 MAY 2023 14:53:03
CH38 30MHz~1000MHz	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPk Max M1[1] -51.05 dBm 872.1740 MHz D1 -30.910 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 12 MAY 2023 14:53:18
CH38 1GHz~26GHz	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPk Max M1[1] -36.22 dBm 7.320833 GHz D1 -30.910 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 12 MAY 2023 14:54:03

CH79 Reference level	 Date: 12 MAY 2023 14:56:22
CH79 30MHz~1000MHz	 Date: 12 MAY 2023 14:56:37
CH79 1GHz~26GHz	 Date: 12 MAY 2023 14:57:12

-----End of Report-----