

APPENDIX REPORT

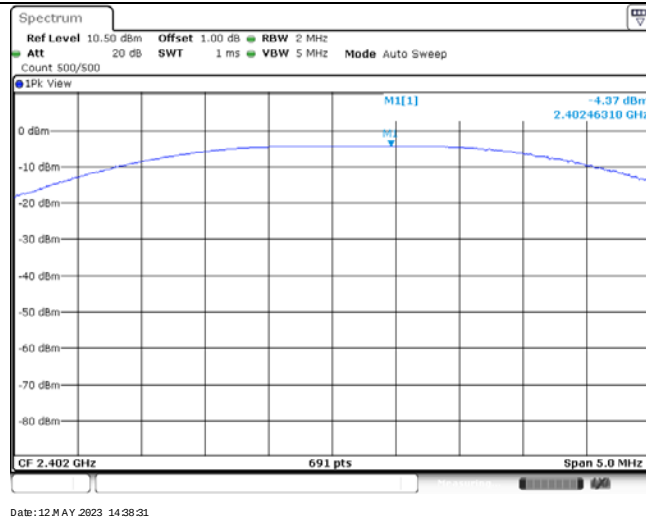
Project No.	SHT2204077913EW		
Test sample No.	YPHT22040779022	Model No.	SM9110 main unit
Start test date	2023-05-12	Finish date	2023-05-12
Temperature	24.4℃	Humidity	48%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zheo

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

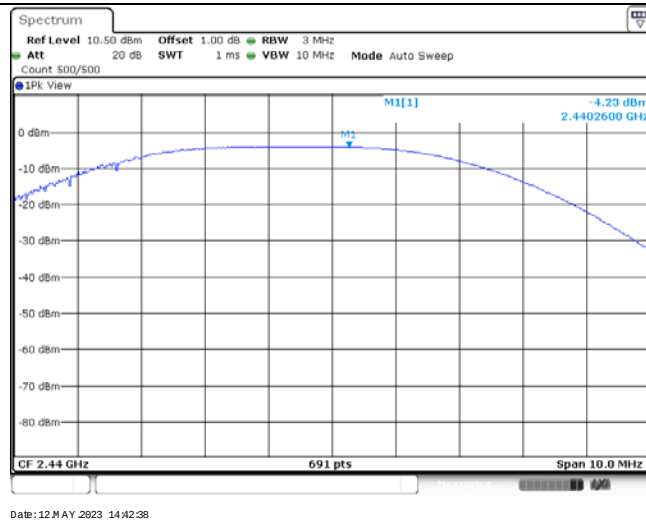
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
FSK	00	-4.37	-4.40	≤ 30.00	Pass
	38	-4.23	-4.26		
	79	-3.83	-3.86		

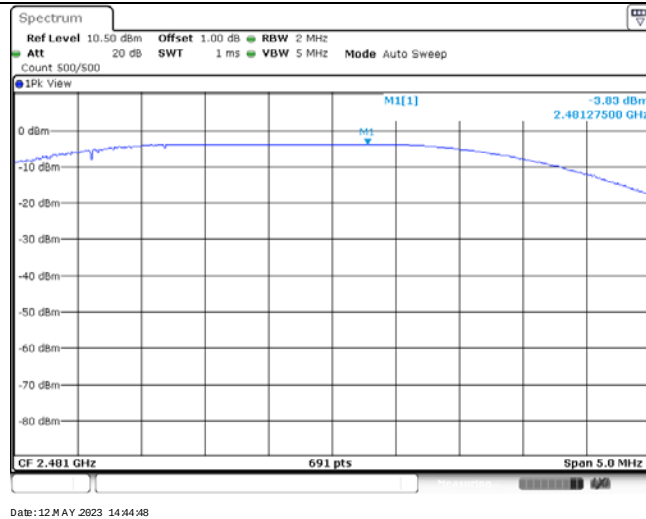
CH00



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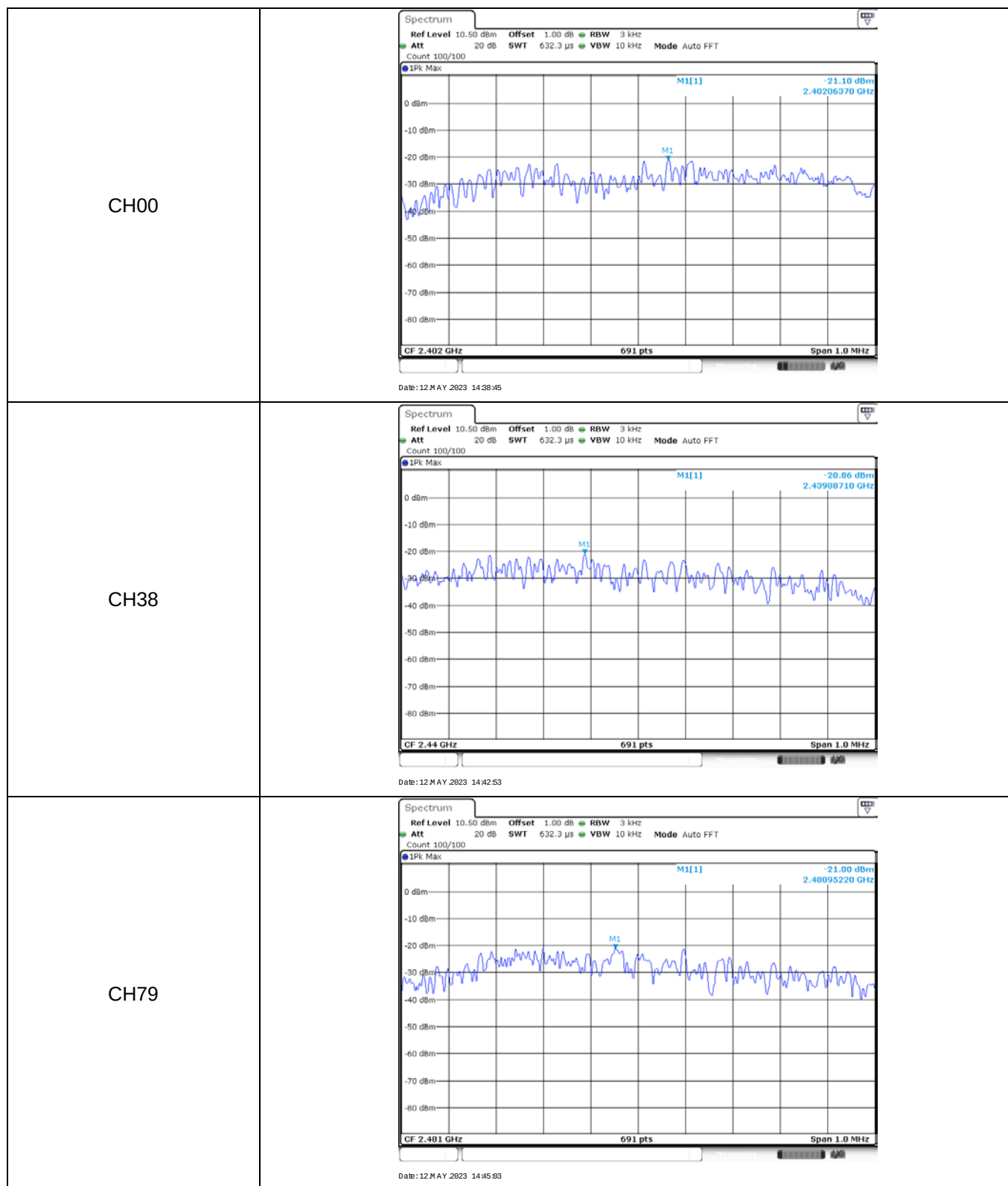


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Appendix B: Power Spectral Density

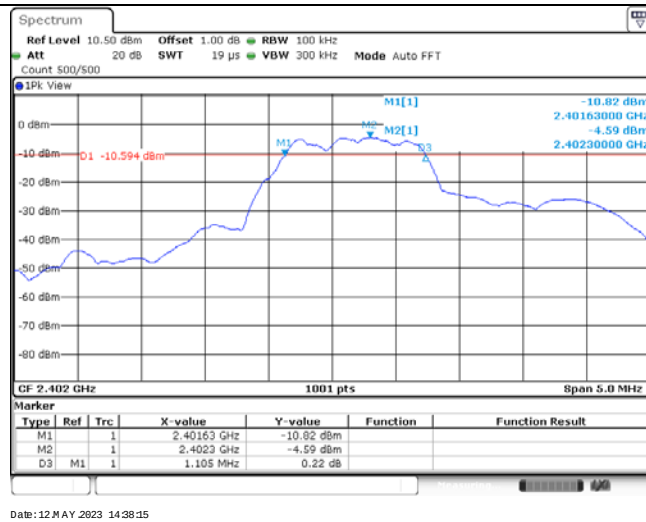
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
FSK	00	-21.10	≤8.00	Pass
	38	-20.86		
	79	-21.00		



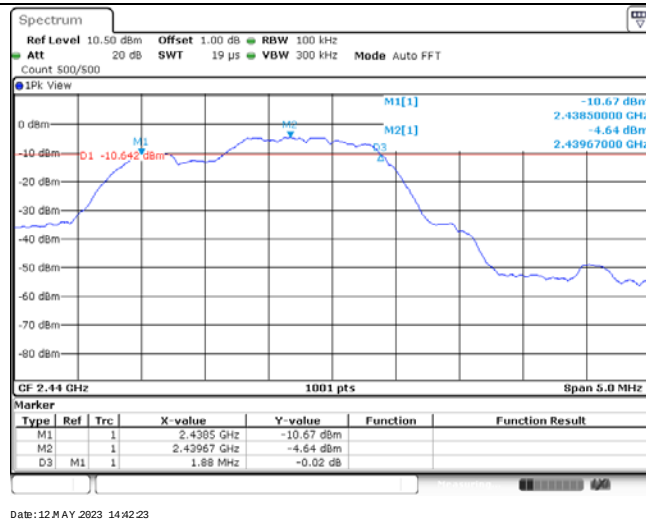
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
FSK	00	1105.00	≥500	Pass
	38	1880.00		
	79	1380.00		

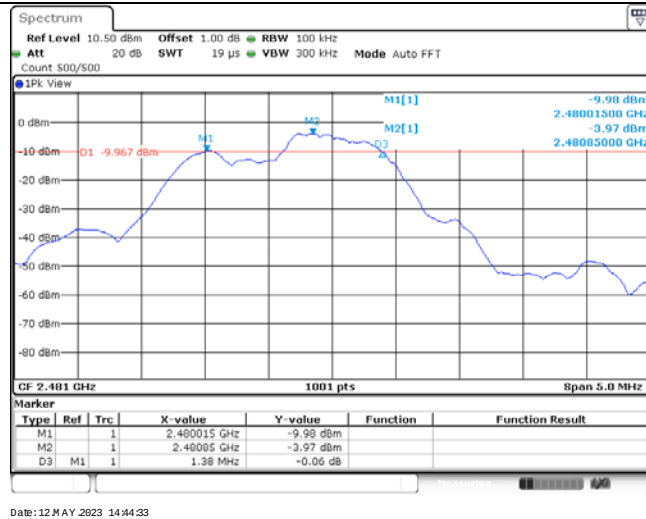
CH00



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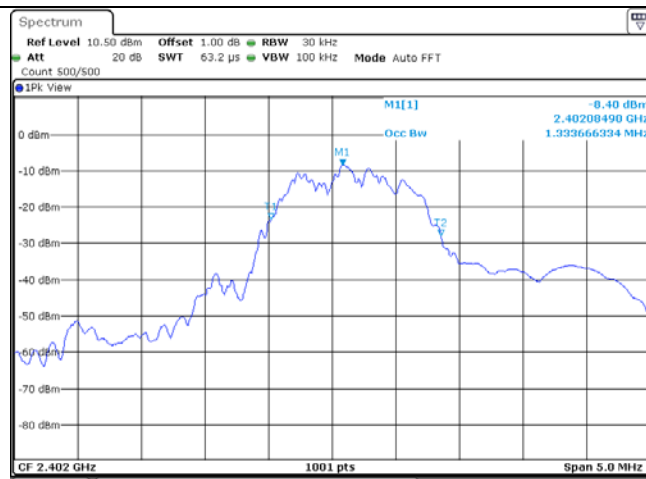
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Appendix D: 99% Occupied Bandwidth

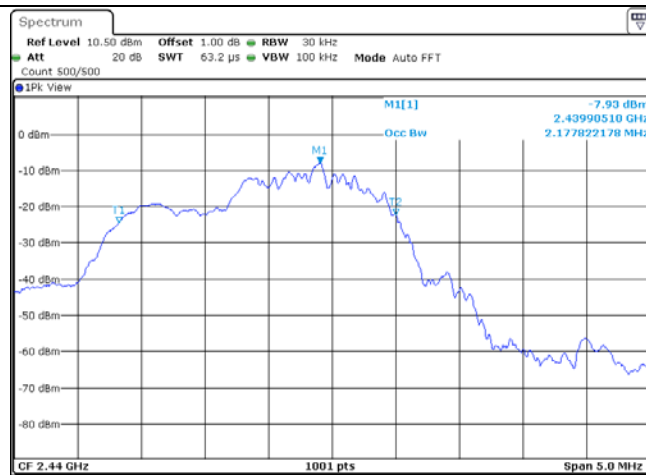
Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
FSK	00	1.33	-	Pass
	38	2.18		
	79	1.70		

CH00



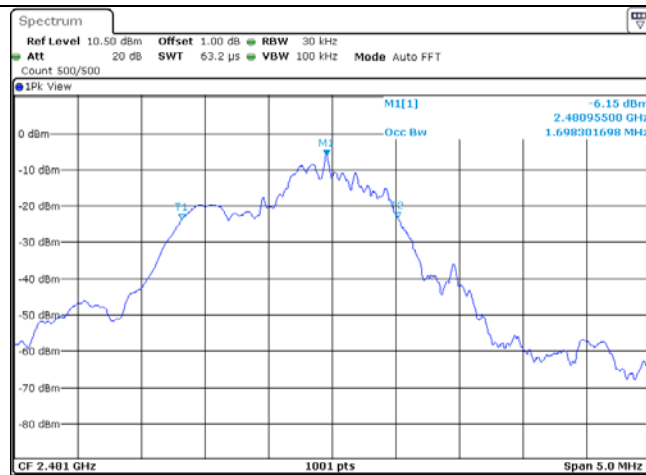
Date: 12 MAY 2023 14:38:23

CH38



Date: 12 MAY 2023 14:42:30

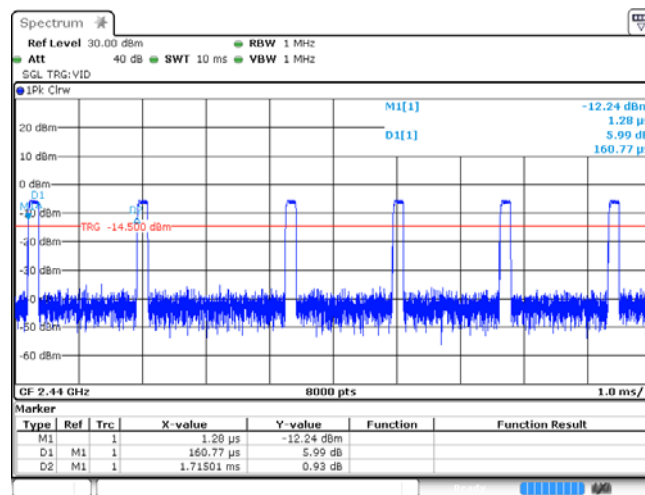
CH79



Date: 12 MAY 2023 14:44:40

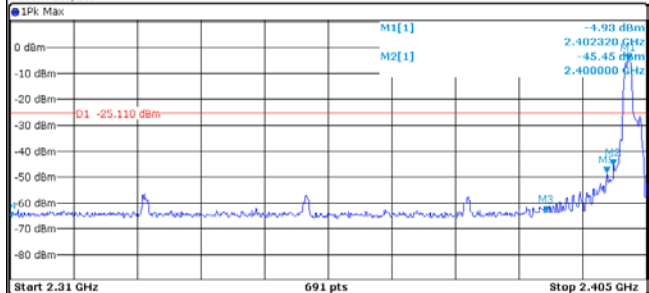
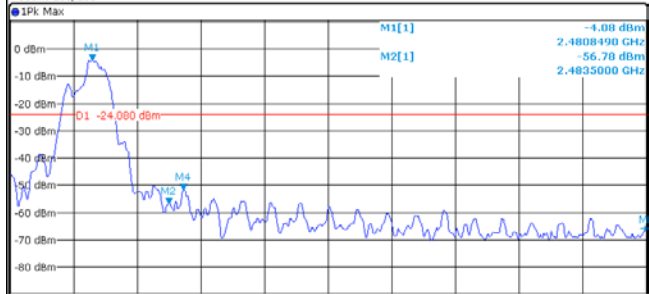
Appendix E: Duty cycle

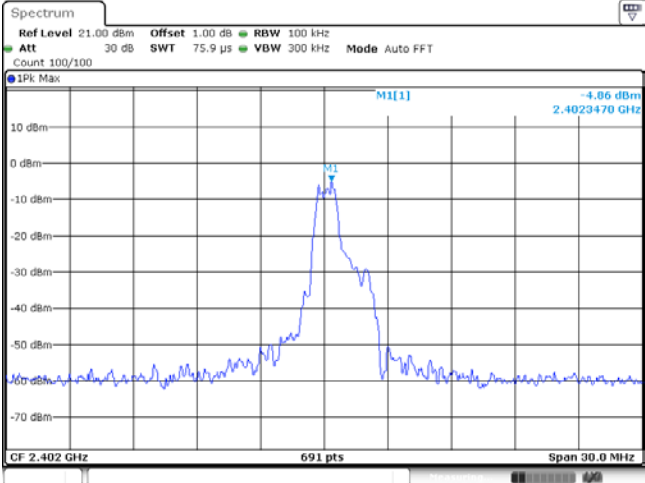
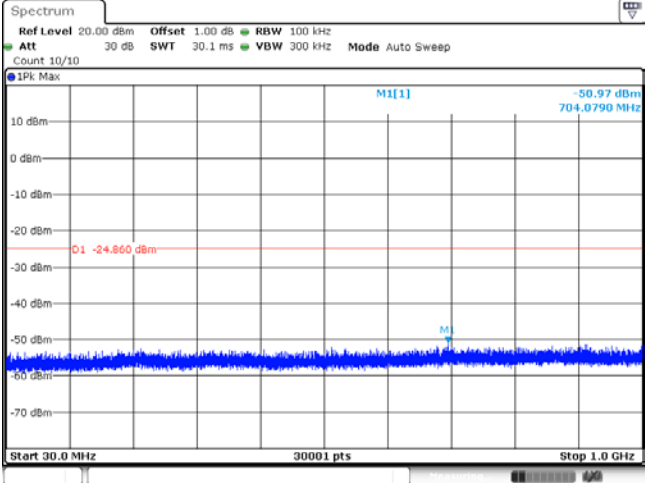
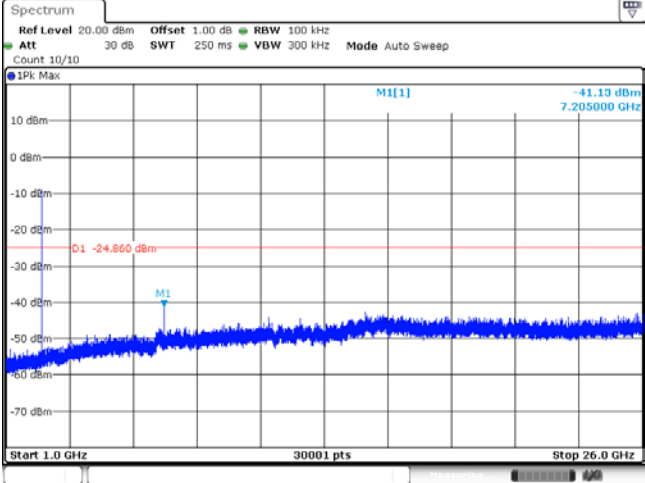
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.16	1.72	9.3%	6.25

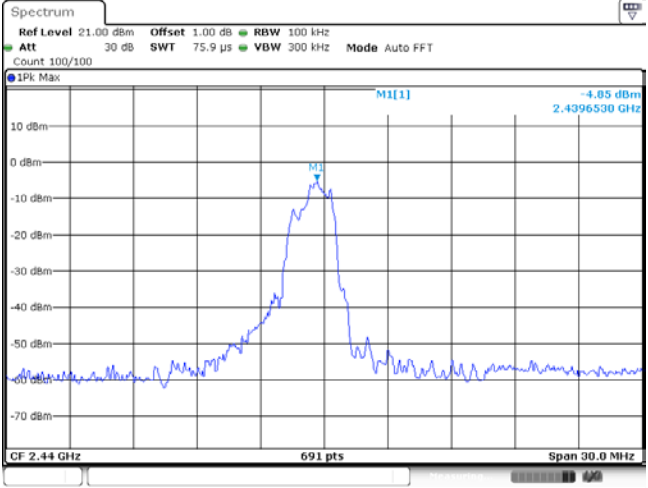
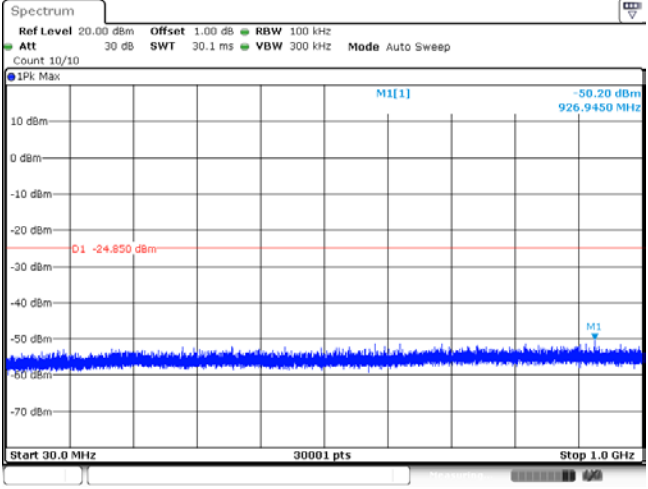
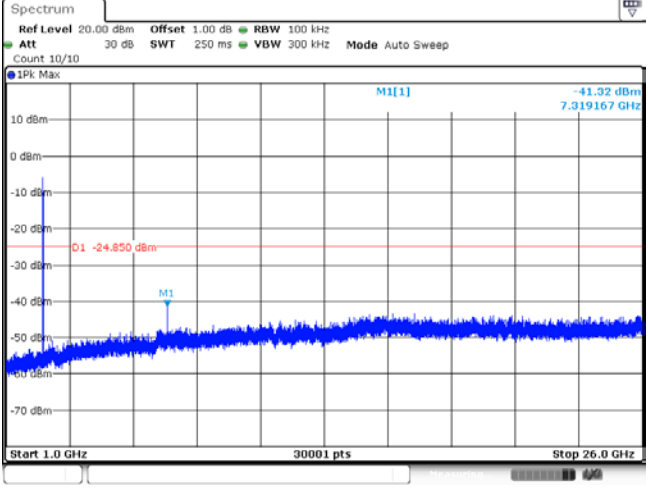


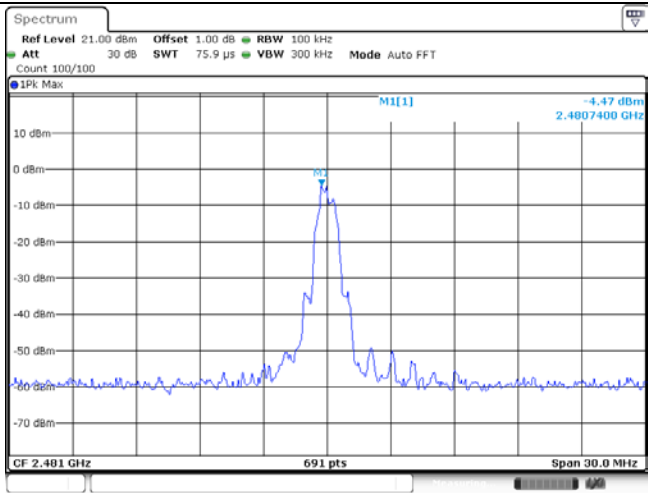
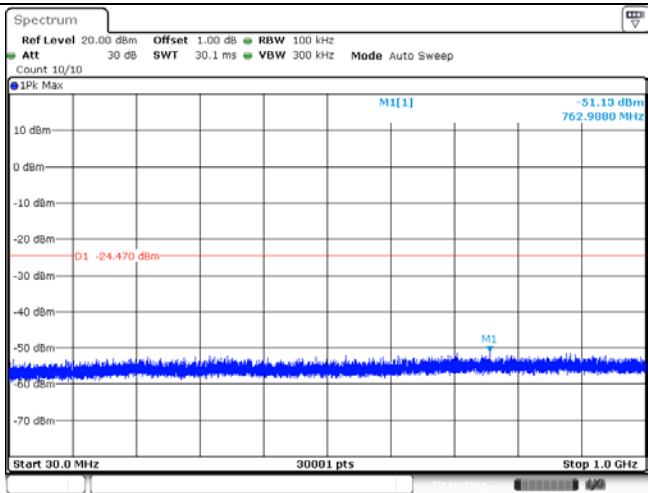
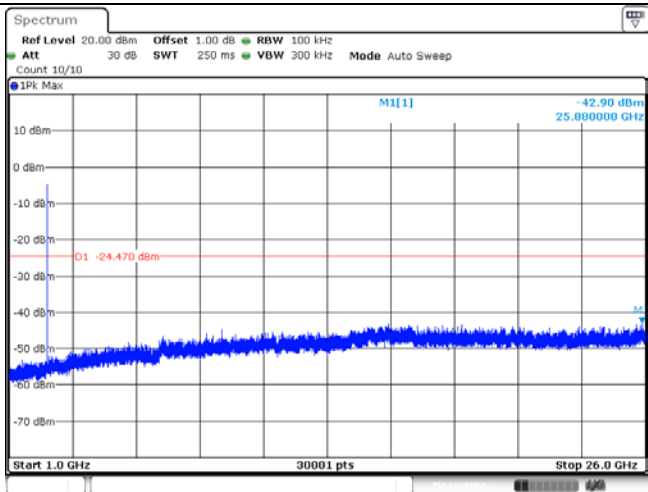
Date: 12 MAY 2023 14:41:56

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><tr><th>Marker</th><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><tr><td>M1</td><td>1</td><td></td><td></td><td>2.40232 GHz</td><td>-4.93 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td></td><td>2.4 GHz</td><td>-45.45 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td></td><td>2.39 GHz</td><td>-63.68 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td></td><td>2.31 GHz</td><td>-64.55 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td></td><td>2.39908 GHz</td><td>-48.38 dBm</td><td></td><td></td></tr></table> Date: 12 MAY 2023 14:38:54	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.40232 GHz	-4.93 dBm			M2	1			2.4 GHz	-45.45 dBm			M3	1			2.39 GHz	-63.68 dBm			M4	1			2.31 GHz	-64.55 dBm			M5	1			2.39908 GHz	-48.38 dBm		
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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><tr><th>Marker</th><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><tr><td>M1</td><td>1</td><td></td><td></td><td>2.480849 GHz</td><td>-4.08 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td></td><td>2.4835 GHz</td><td>-56.78 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td></td><td>2.5 GHz</td><td>-65.64 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td></td><td>2.4839942 GHz</td><td>-51.47 dBm</td><td></td><td></td></tr></table> Date: 12 MAY 2023 14:45:12	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.480849 GHz	-4.08 dBm			M2	1			2.4835 GHz	-56.78 dBm			M3	1			2.5 GHz	-65.64 dBm			M4	1			2.4839942 GHz	-51.47 dBm										
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M4	1			2.4839942 GHz	-51.47 dBm																																												

Test Item:	SE
CH00 Reference level	
CH00 30MHz~1000MHz	
CH00 1GHz~26GHz	

CH38 Reference level	 Date: 12 MAY 2023 14:42:58
CH38 30MHz~1000MHz	 Date: 12 MAY 2023 14:43:13
CH38 1GHz~26GHz	 Date: 12 MAY 2023 14:43:28

CH79 Reference level	 Date: 12 MAY 2023 14:45:17
CH79 30MHz~1000MHz	 Date: 12 MAY 2023 14:45:32
CH79 1GHz~26GHz	 Date: 12 MAY 2023 14:45:55

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