

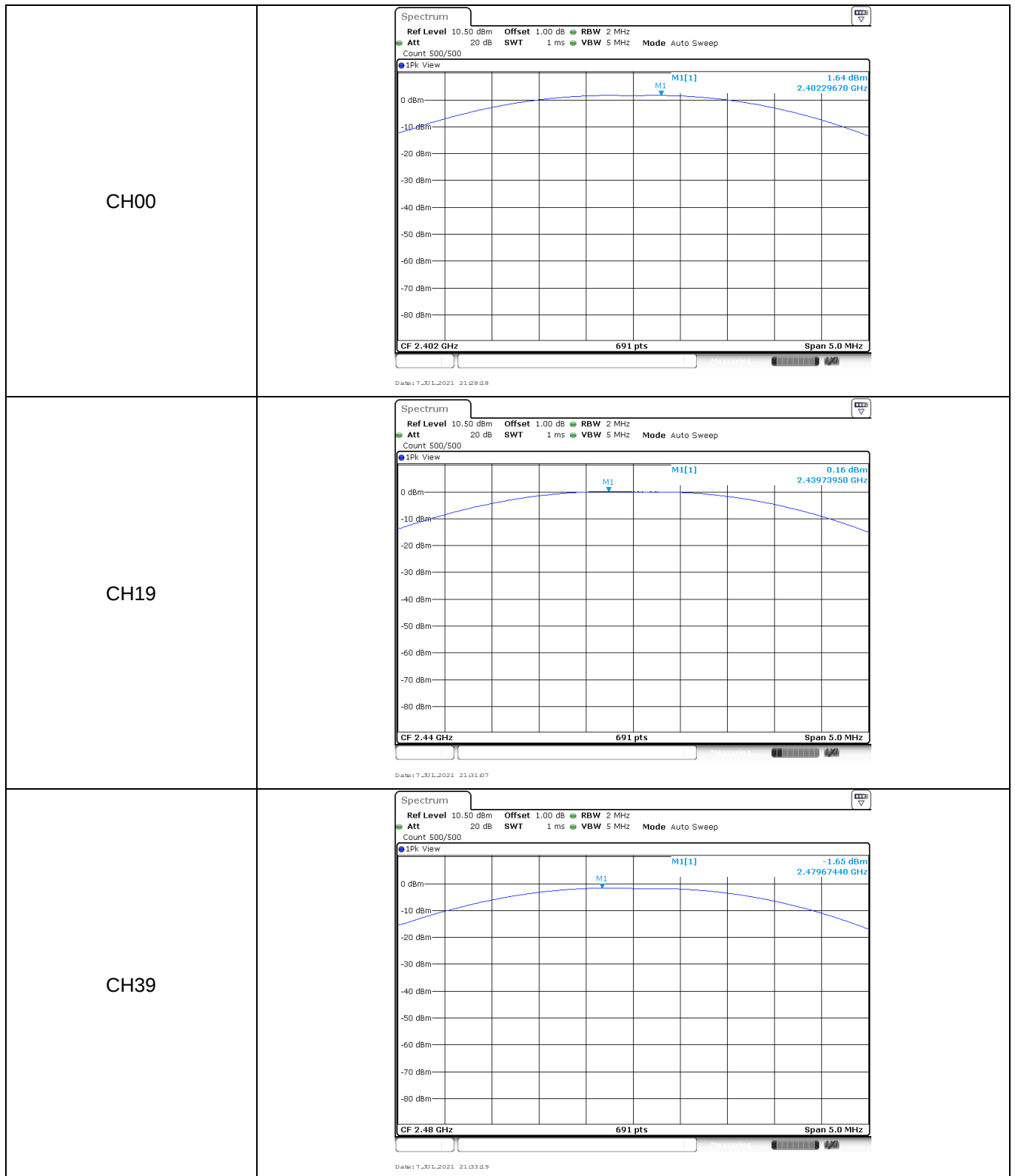
APPENDIX REPORT

Project No.	SHT2107001007EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21070010004	Model No.	L506
Start test date	2021-07-08	Finish date	2021-07-08
Temperature	25.4°C	Humidity	29%
Test Engineer	Weiyang Xiang	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

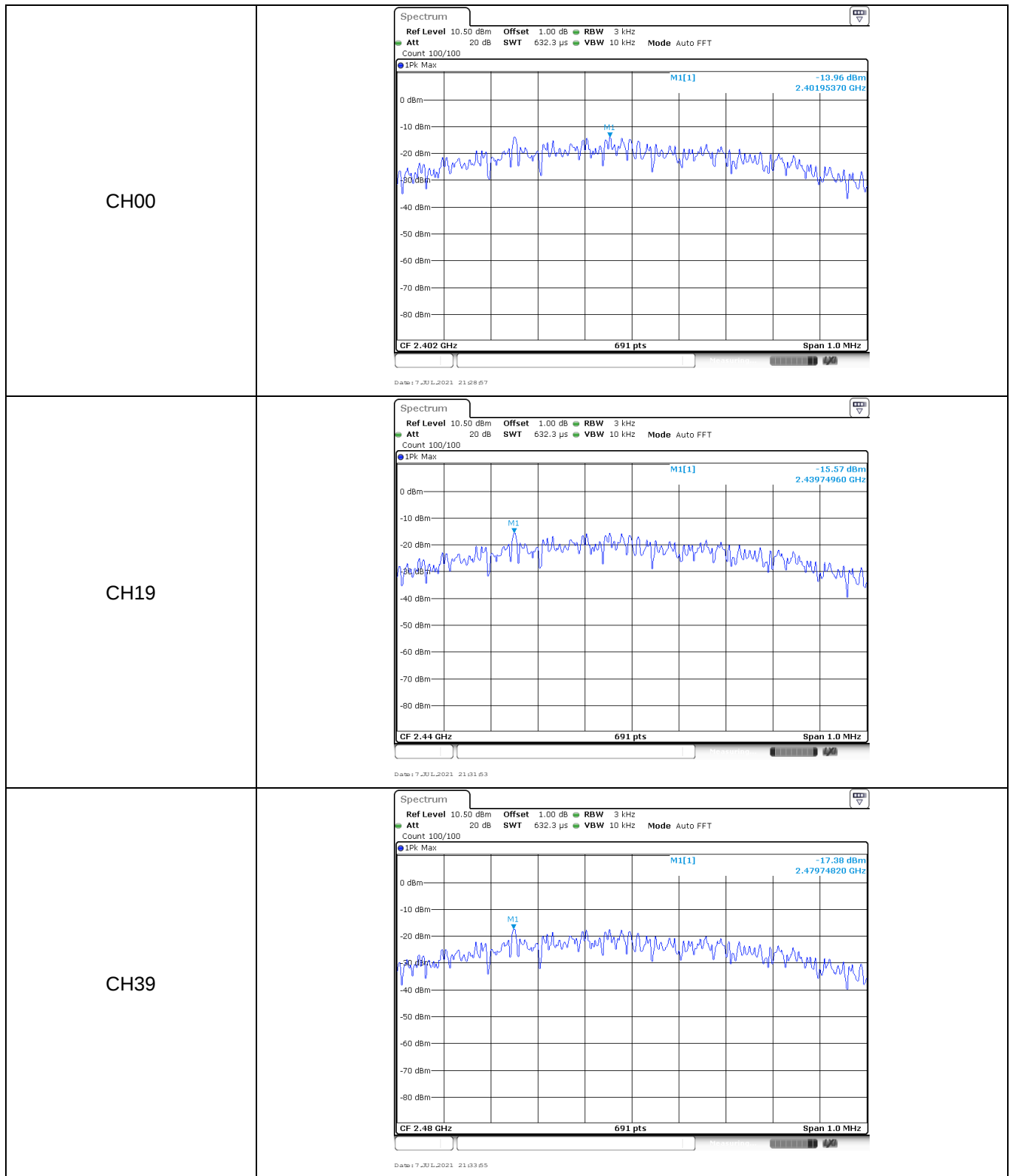
Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	1.64	1.56	≤ 30.00	Pass
	19	0.16	-0.06		
	39	-1.65	-1.90		



Appendix B: Power Spectral Density

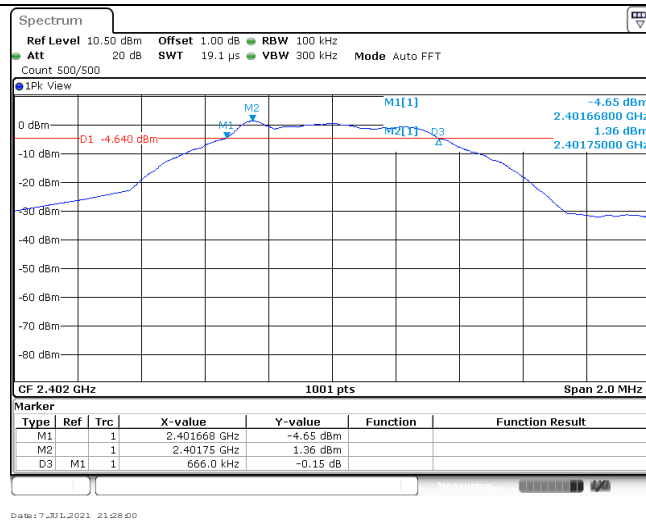
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-13.96	≤8.00	Pass
	19	-15.57		
	39	-17.38		



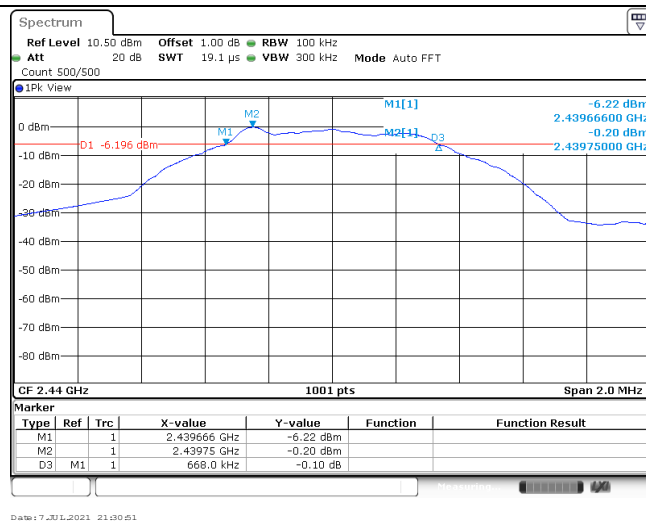
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	666.00	≥500	Pass
	19	668.00		
	39	668.00		

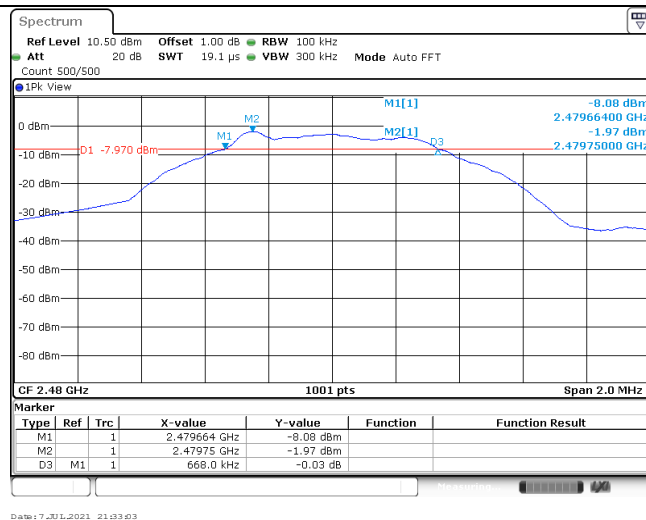
CH00



CH19

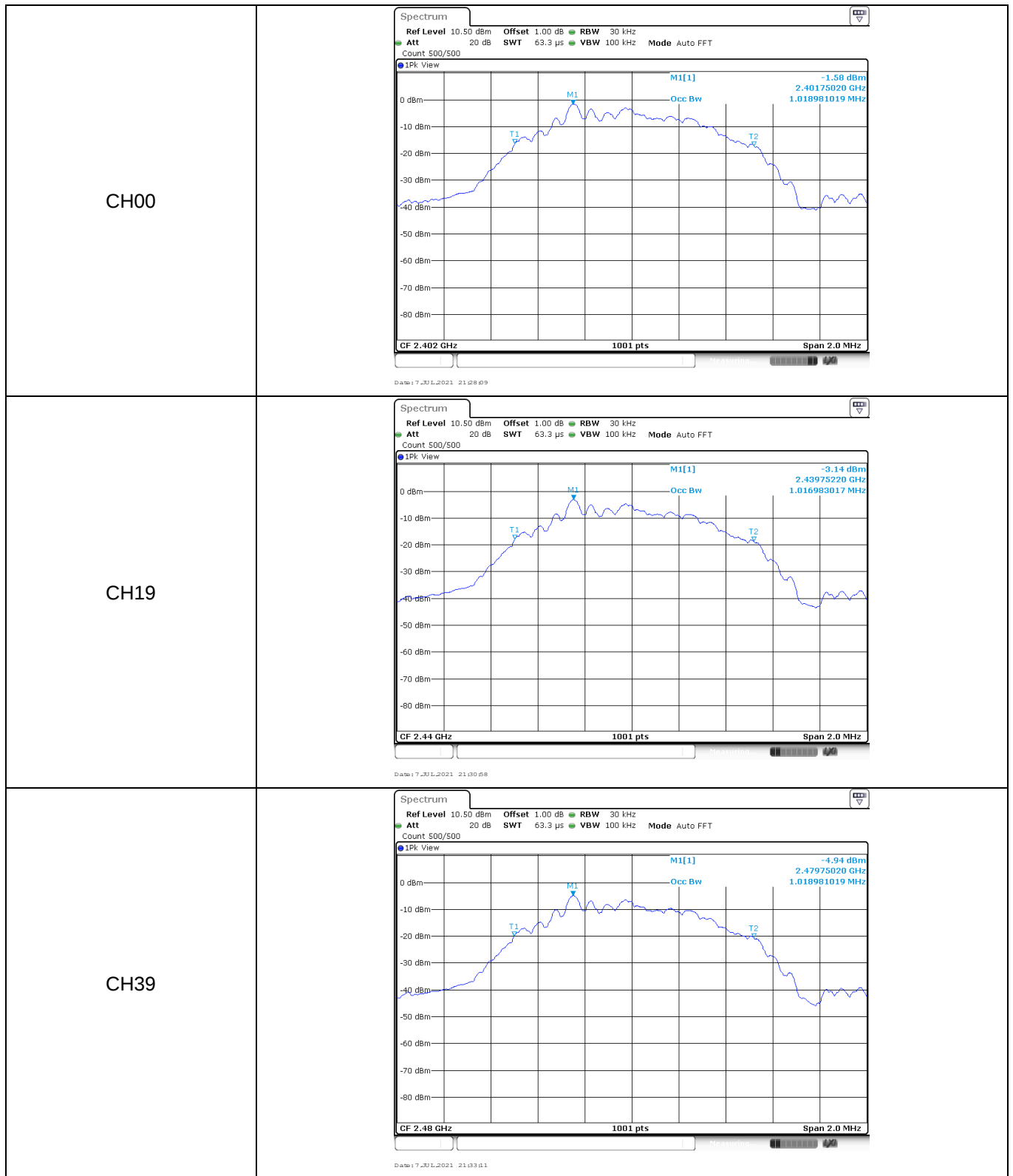


CH39



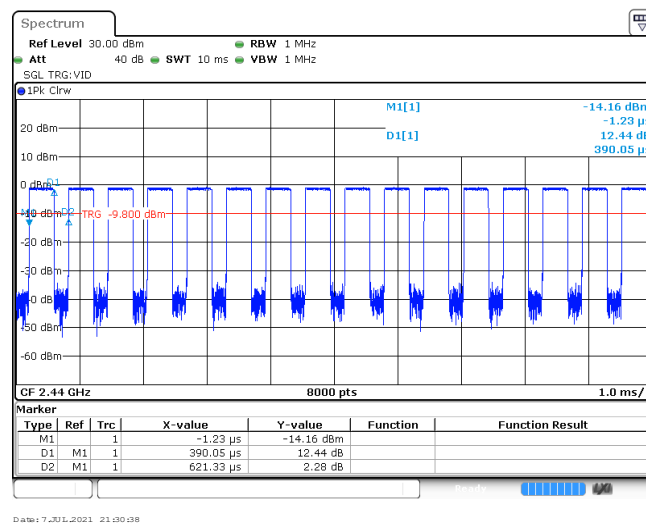
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.02	-	Pass
	19	1.02		
	39	1.02		



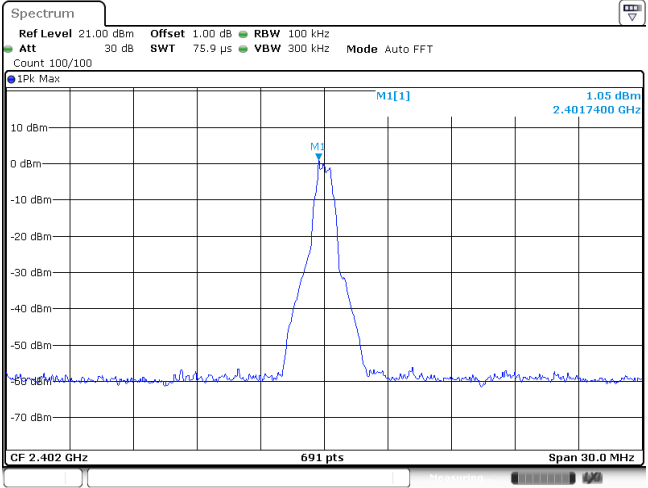
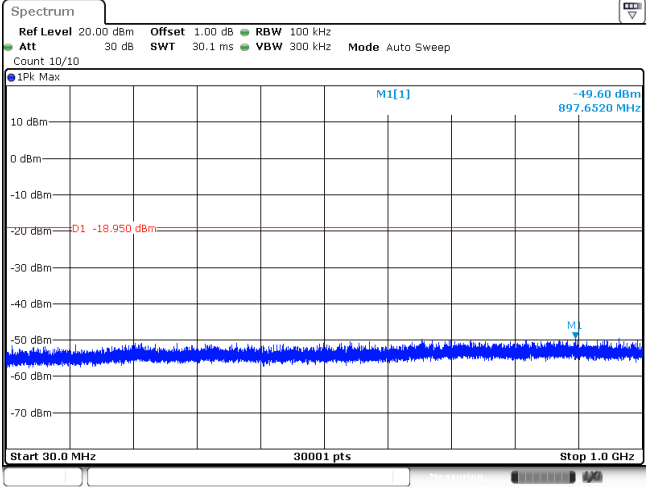
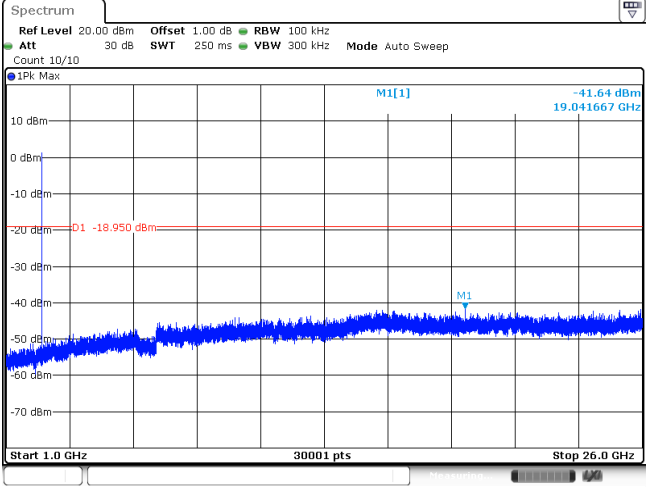
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.39	0.62	62.9%	2.6

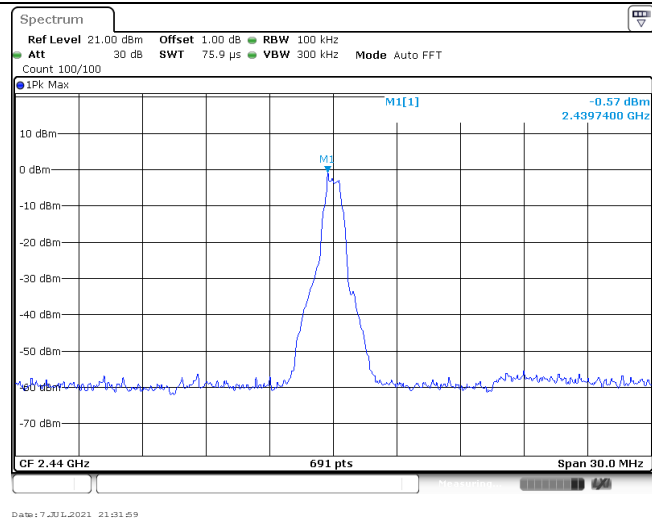


Appendix F: Band edge and Spurious Emissions (conducted)

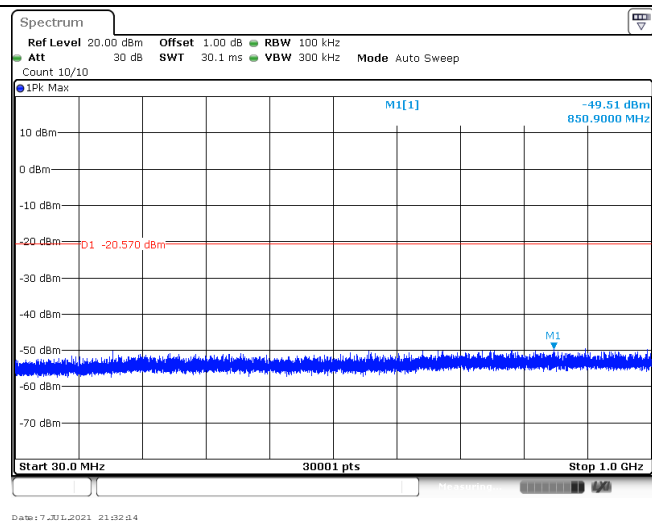
Test Item:	Band edge																																										
CH00	Spectrum Ref Level 10.50 dBm Att 20 dB Count 300/300 Offset 1.00 dB SWT 1.1 ms RBW 100 kHz VBW 300 kHz Mode Auto Sweep 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm M1[1] M2[1] D1 -16.730 dBm M3 M5 1.27 dBm 2.401770 GHz -57.69 dBm 2.400000 GHz Start 2.31 GHz 691 pts Stop 2.405 GHz Marker <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>2.40177 GHz</td><td>1.27 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-57.69 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-63.50 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-62.72 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399493 GHz</td><td>-58.18 dBm</td><td></td><td></td></tr></tbody></table> Date: 7 JUL 2021 21:29:06	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40177 GHz	1.27 dBm			M2	1		2.4 GHz	-57.69 dBm			M3	1		2.39 GHz	-63.50 dBm			M4	1		2.31 GHz	-62.72 dBm			M5	1		2.399493 GHz	-58.18 dBm		
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CH39	Spectrum Ref Level 10.50 dBm Att 20 dB Count 100/100 Offset 1.00 dB SWT 56.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm M1 M2[1] D1 -22.000 dBm M3 M4 -2.00 dBm 2.4797350 GHz -65.73 dBm 2.4835000 GHz Start 2.478 GHz 691 pts Stop 2.5 GHz Marker <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>2.479735 GHz</td><td>-2.00 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-65.73 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-68.94 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4875652 GHz</td><td>-64.66 dBm</td><td></td><td></td></tr></tbody></table> Date: 7 JUL 2021 21:34:07	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.479735 GHz	-2.00 dBm			M2	1		2.4835 GHz	-65.73 dBm			M3	1		2.5 GHz	-68.94 dBm			M4	1		2.4875652 GHz	-64.66 dBm									
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Test Item:	SE
CH00 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 1Pk Max M1[1] 1.05 dBm 2.4017400 GHz CF 2.402 GHz 691 pts Span 30.0 MHz Date: 7 JUL 2021 21:29:17
CH00 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 1Pk Max M1[1] -49.60 dBm 897.6520 MHz D1 -18.950 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 7 JUL 2021 21:29:32
CH00 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 1Pk Max M1[1] -41.64 dBm 19.041667 GHz D1 -18.950 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 7 JUL 2021 21:29:48

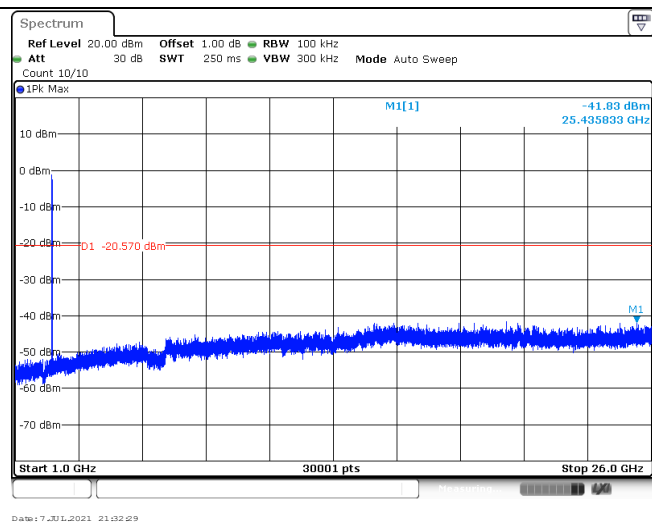
CH19
Reference level

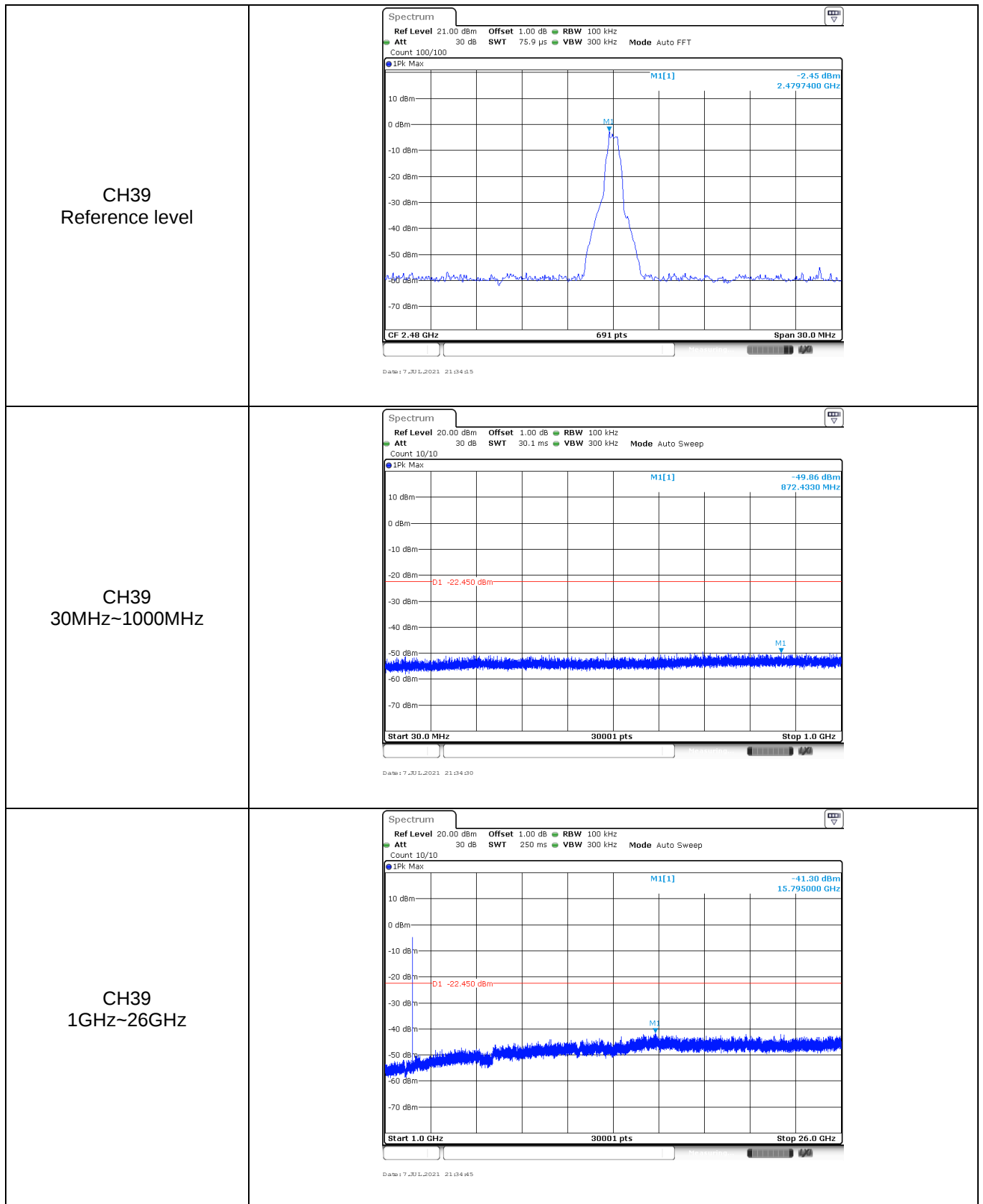


CH19
30MHz~1000MHz



CH19
1GHz~26GHz





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