

APPENDIX REPORT

Project No.	SHT2008051701EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT20080517004	Model No.	CN6Q15
Start test date	2020/8/24	Finish date	2020/8/24
Temperature	25°C	Humidity	50%
Test Engineer	Jiongsheng.Feng	Auditor	Xiaodong Zheo

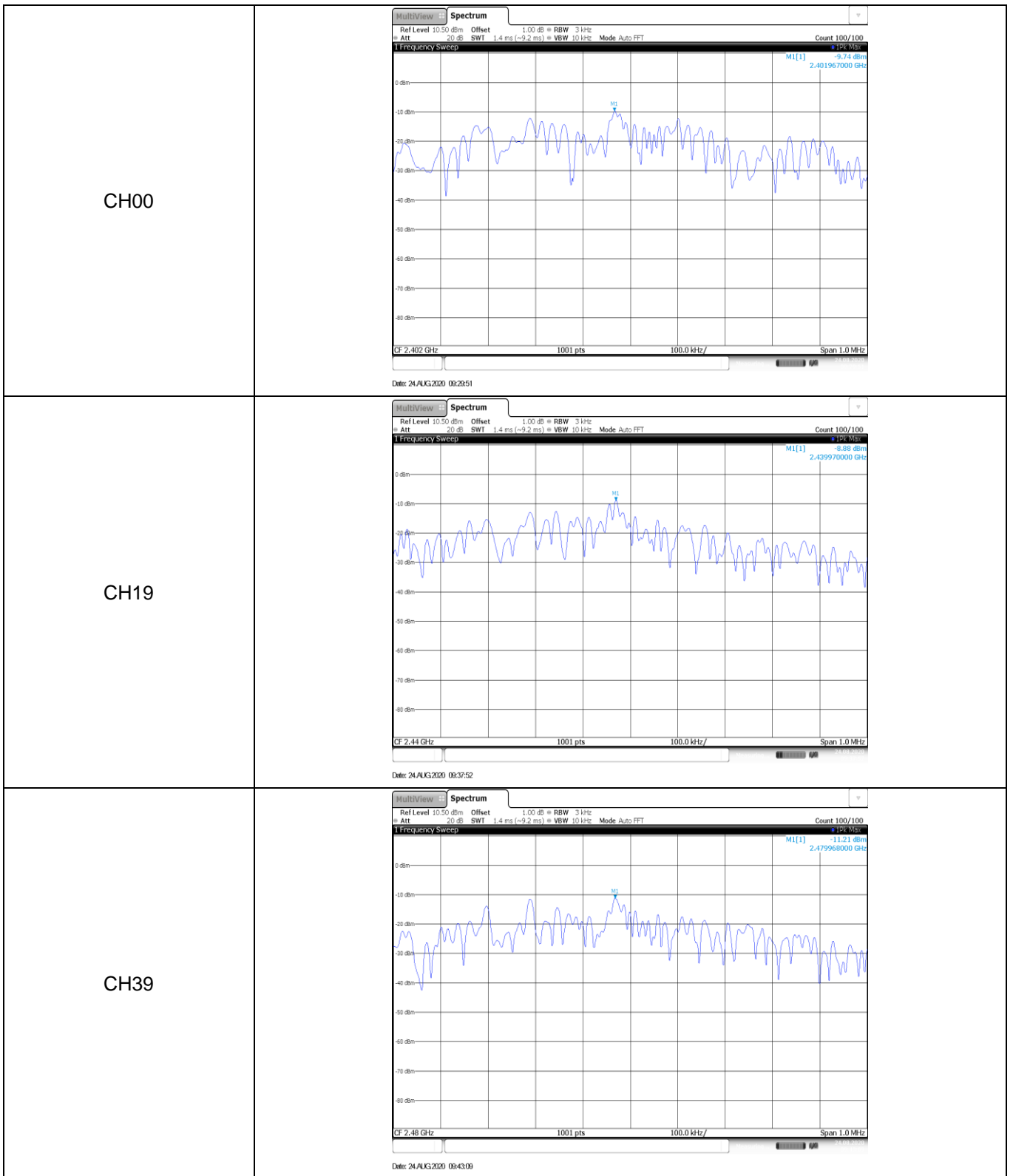
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	7.92	7.90	≤ 30.00	Pass
	19	6.86	6.84		
	39	5.85	5.82		

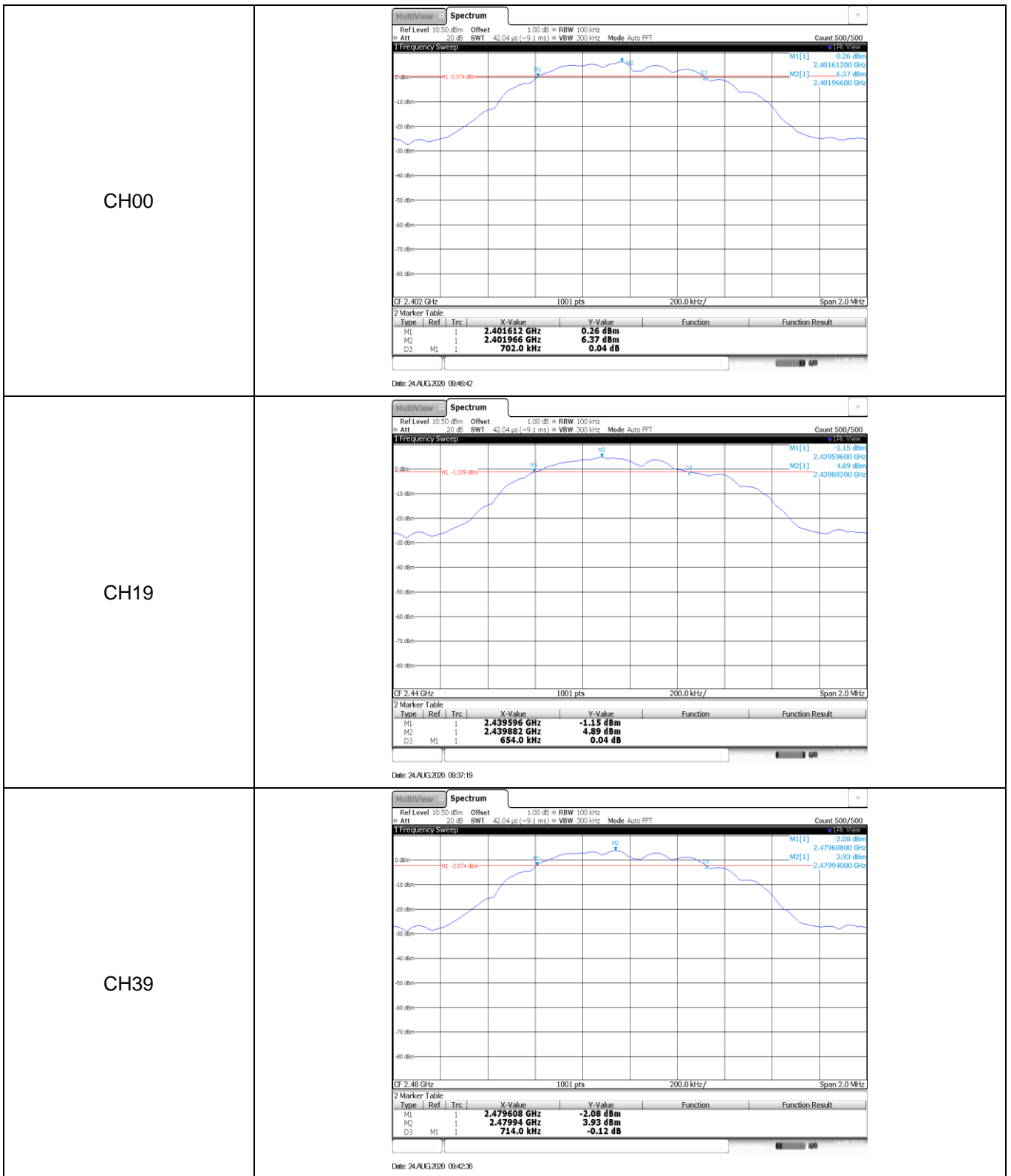
Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-9.74	≤8.00	Pass
	19	-8.88		
	39	-11.21		



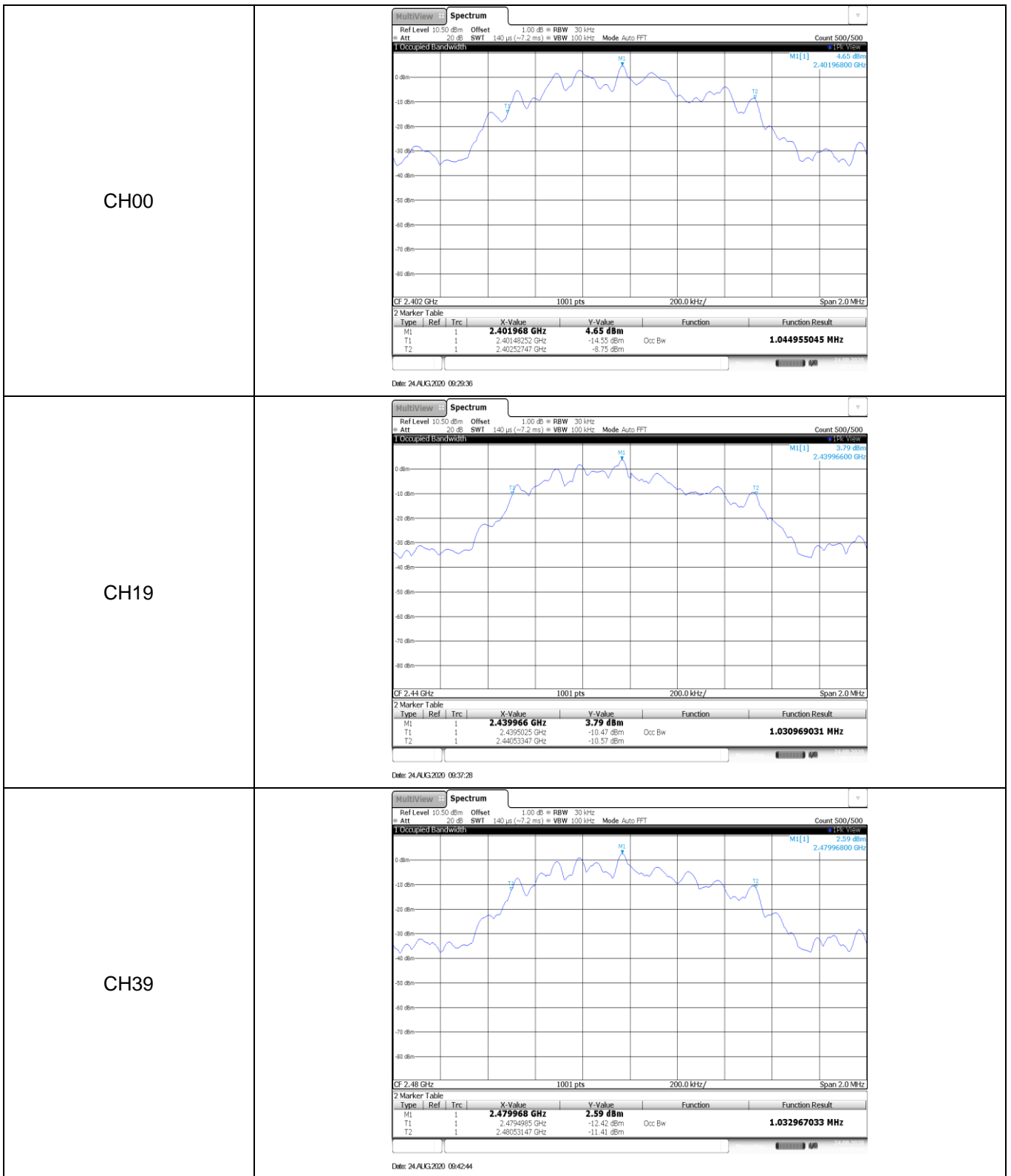
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	702.00	≥500	Pass
	19	654.00		
	39	714.00		



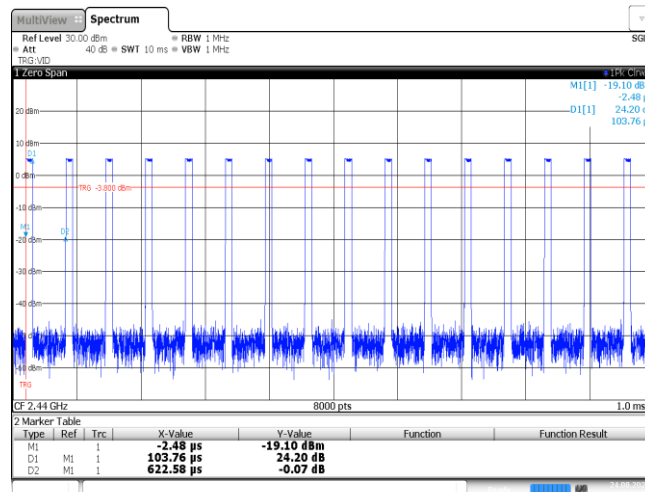
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.04	-	Pass
	19	1.03		
	39	1.03		



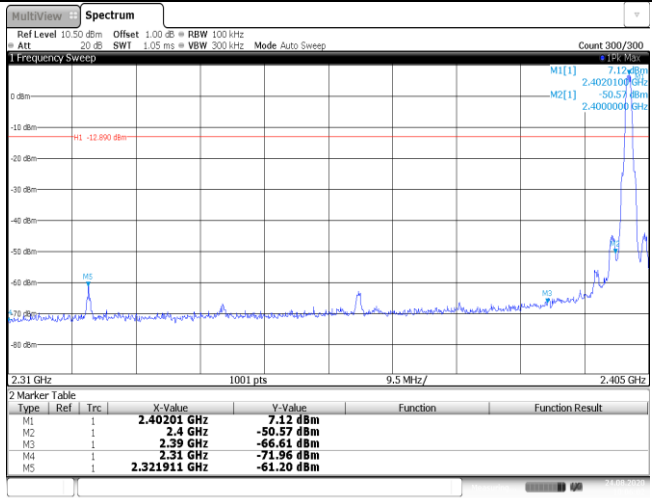
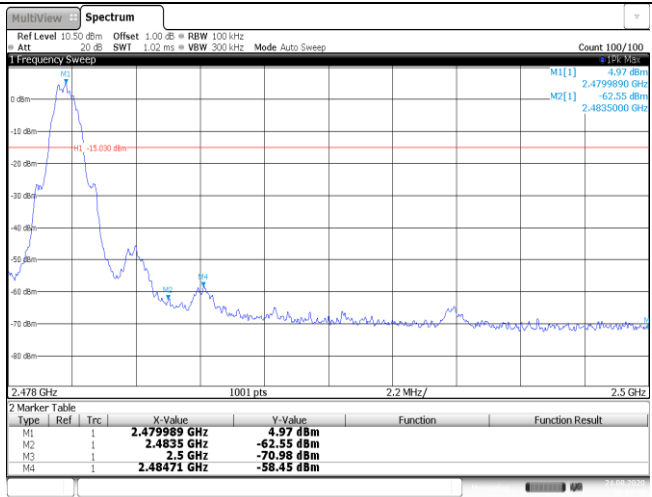
Appendix E: Duty cycle

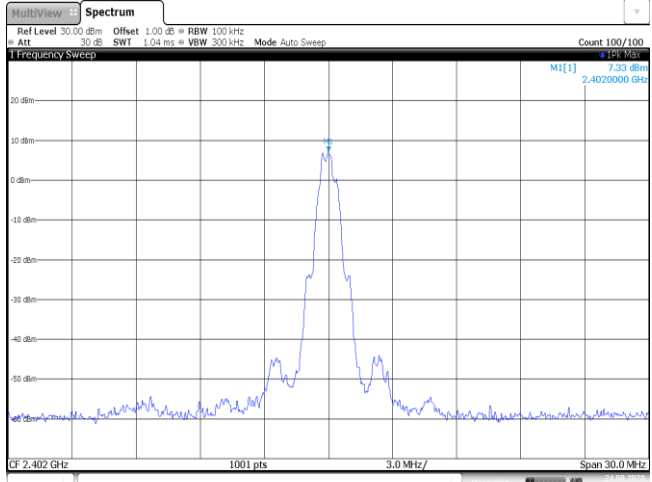
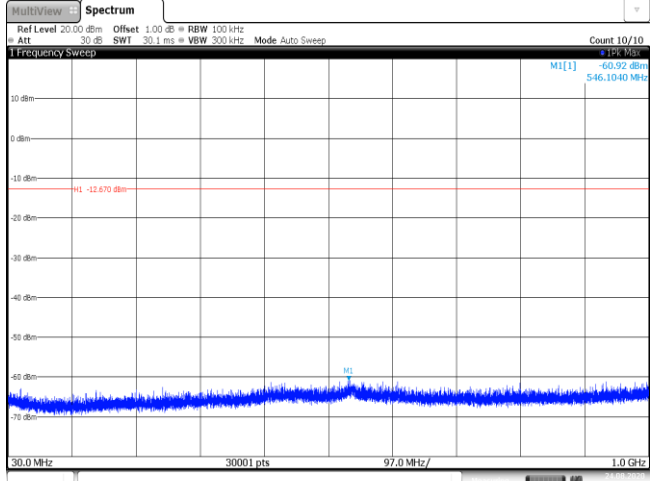
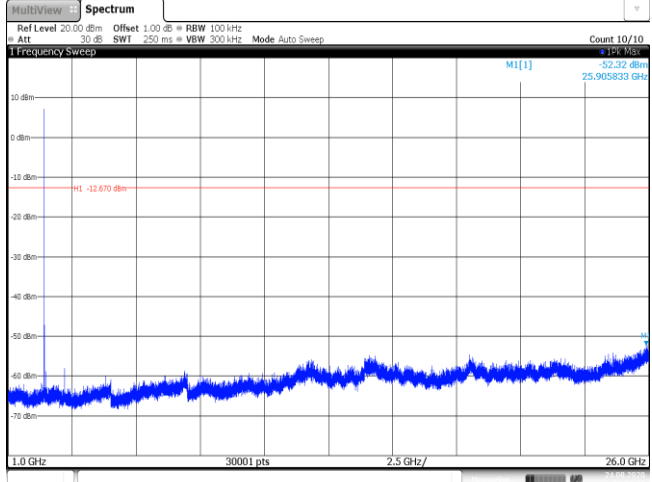
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.10	0.62	16.1%	10.0

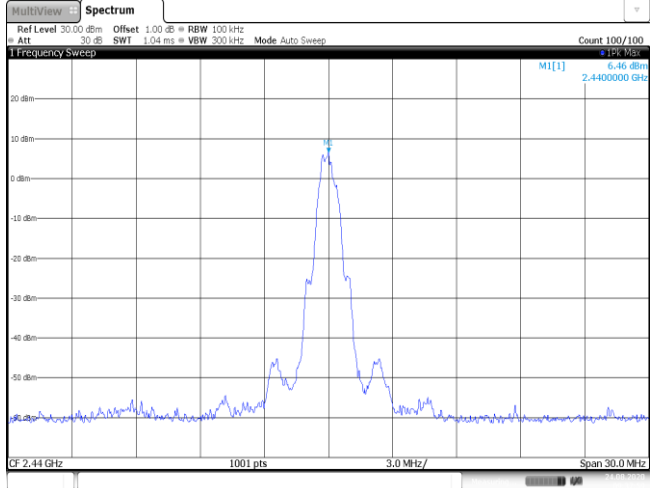
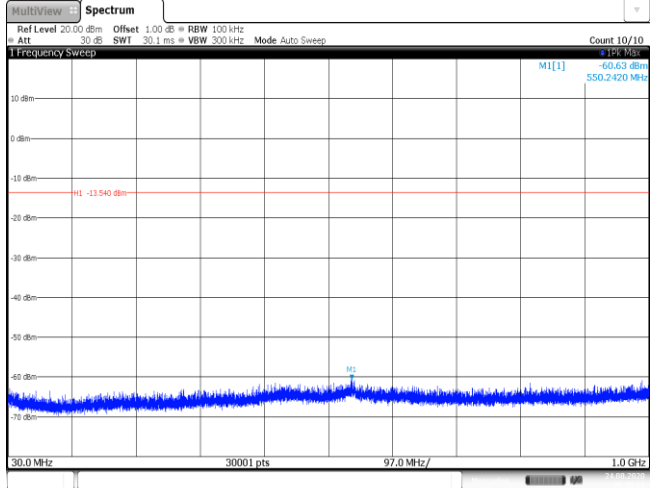
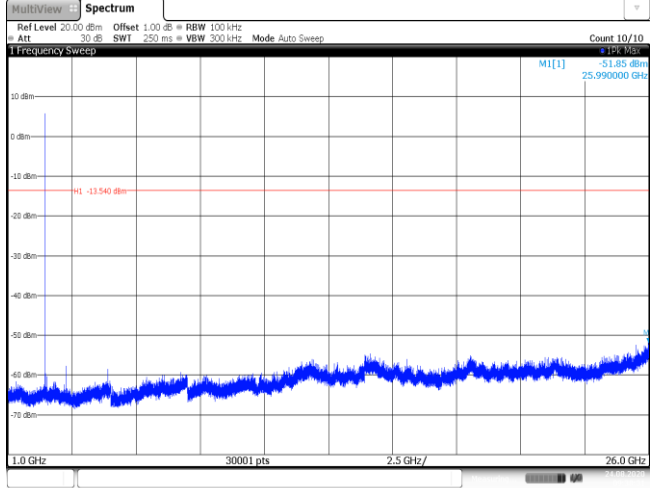


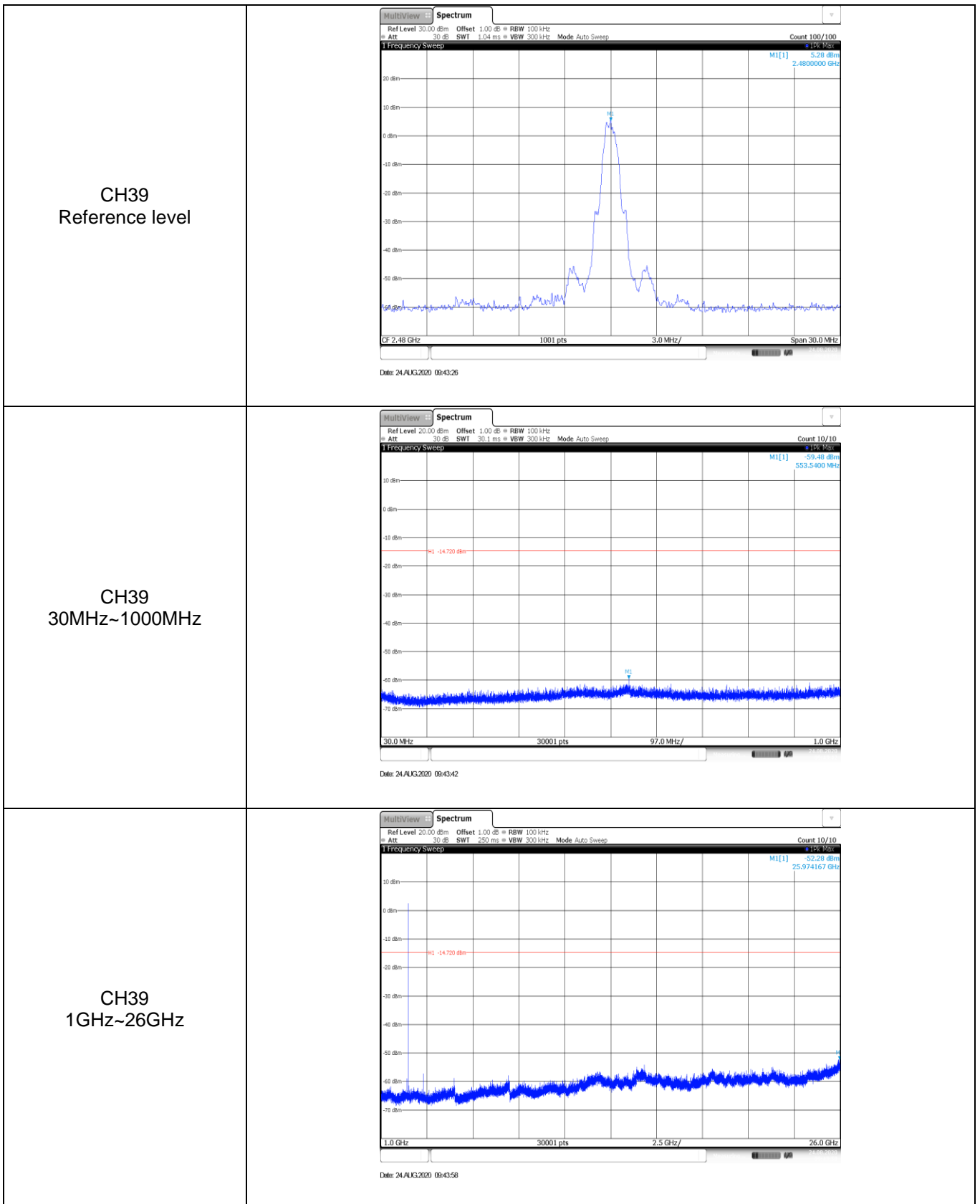
Date: 24 AUG 2020 08:34:31

Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge
<p style="text-align: center;">CH00</p>	 <p style="text-align: right;">Date: 24 JULG2020 10:06:02</p>
<p style="text-align: center;">CH39</p>	 <p style="text-align: right;">Date: 24 JULG2020 09:43:19</p>

Test Item:	SE
<p>CH00 Reference level</p>	
<p>CH00 30MHz~1000MHz</p>	
<p>CH00 1GHz~26GHz</p>	

<p>CH19 Reference level</p>	 <p>The plot shows a spectrum with a prominent peak at 2.44 GHz. The y-axis represents power in dBm, ranging from -80 to 20. The x-axis represents frequency in GHz, with a span of 30.0 MHz. The peak is labeled with a count of 100/100 and a power level of 6.46 dBm. The plot title is 'Spectrum' and it includes parameters like Ref Level 30.00 dBm, Offset 1.00 dB, and RBW 100 kHz.</p>
<p>CH19 30MHz~1000MHz</p>	 <p>The plot shows a wide frequency range from 30.0 MHz to 1.0 GHz. The power level is consistently low, around -60 dBm, with a noise floor. A red horizontal line is drawn at -13.540 dBm. The plot title is 'Spectrum' and it includes parameters like Ref Level 20.00 dBm, Offset 1.00 dB, and RBW 100 kHz.</p>
<p>CH19 1GHz~26GHz</p>	 <p>The plot shows a wide frequency range from 1.0 GHz to 26.0 GHz. The power level is consistently low, around -50 dBm, with a noise floor. A red horizontal line is drawn at -13.540 dBm. The plot title is 'Spectrum' and it includes parameters like Ref Level 20.00 dBm, Offset 1.00 dB, and RBW 100 kHz.</p>



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