

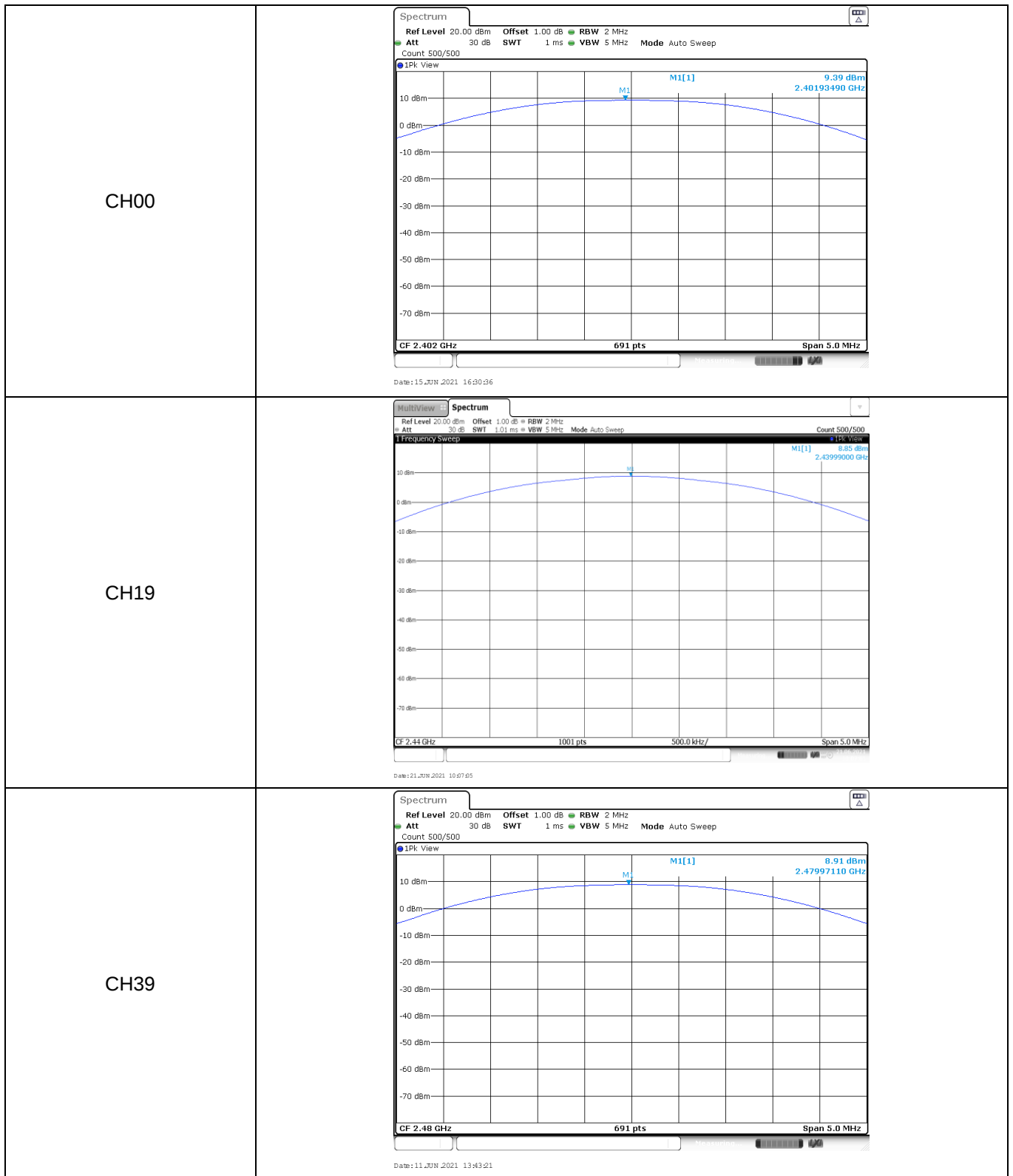
APPENDIX REPORT

Project No.	SHT2103089402EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21030894014	Model No.	SHOCKWAVE
Start test date	2021-06-11	Finish date	2021-06-11
Temperature	25.6°C	Humidity	27%
Test Engineer	Hailey Chen	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

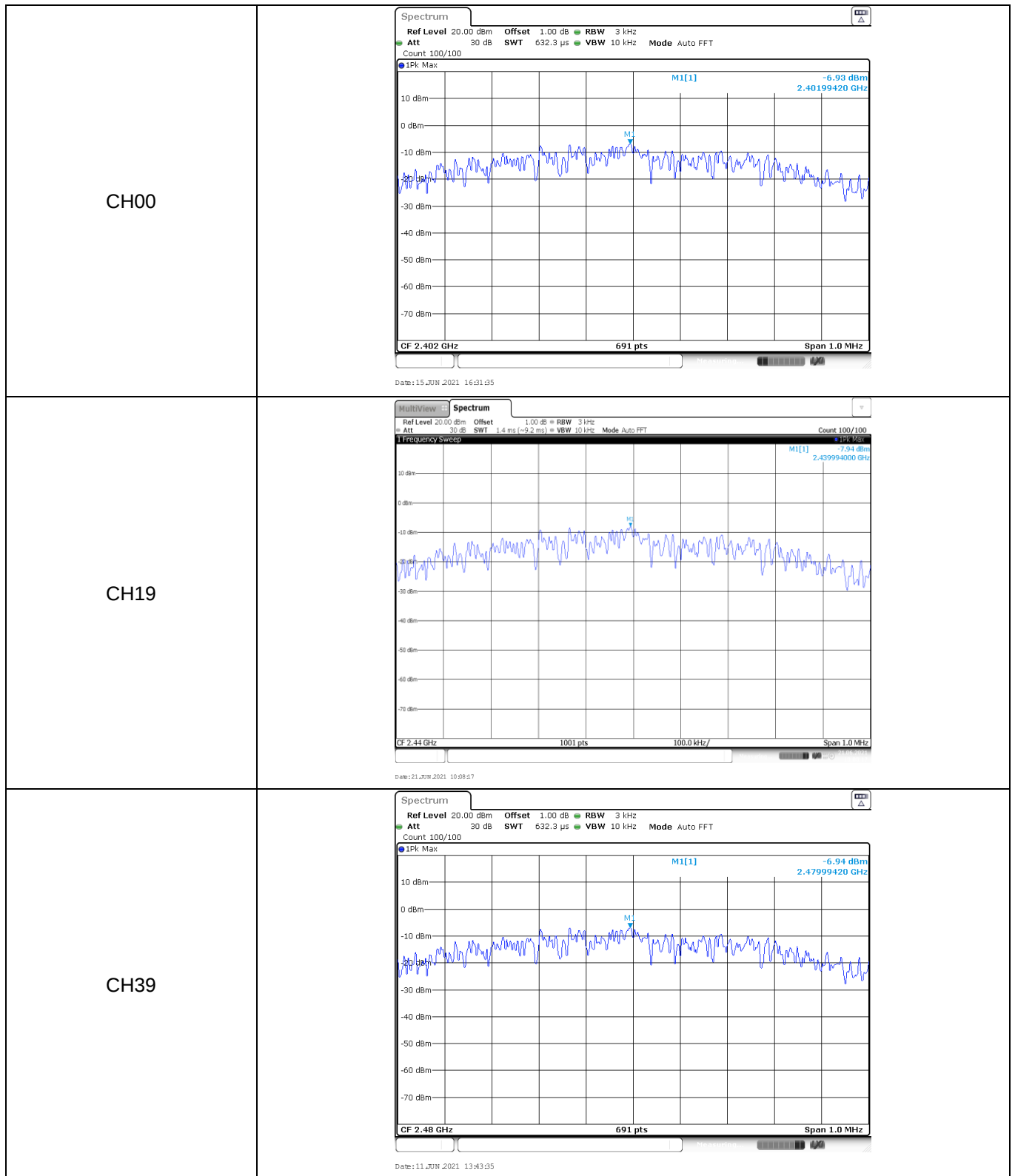
Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	9.39	9.38	≤ 30.00	Pass
	19	8.85	8.83		
	39	8.91	8.90		



Appendix B: Power Spectral Density

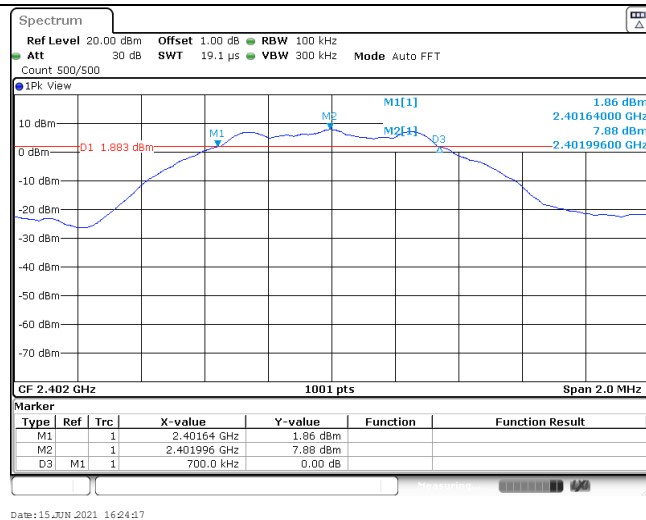
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-6.93	≤8.00	Pass
	19	-7.94		
	39	-6.94		



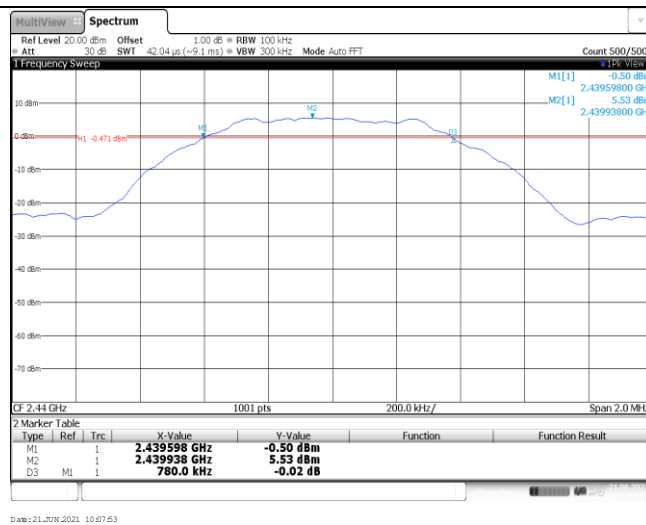
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	700.00	≥500	Pass
	19	780.00		
	39	706.00		

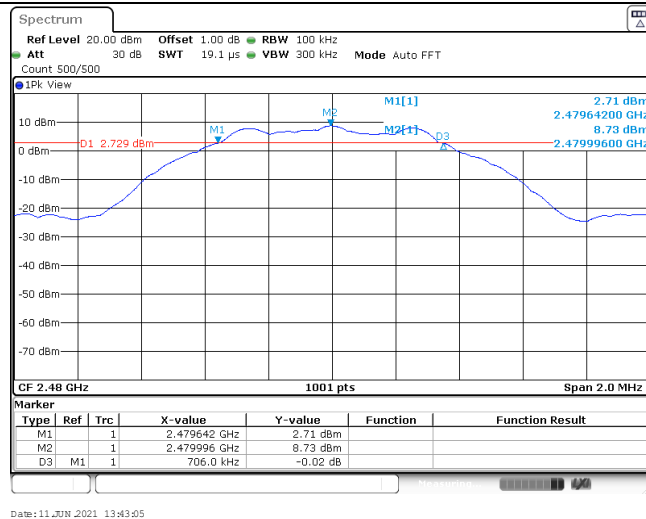
CH00



CH19



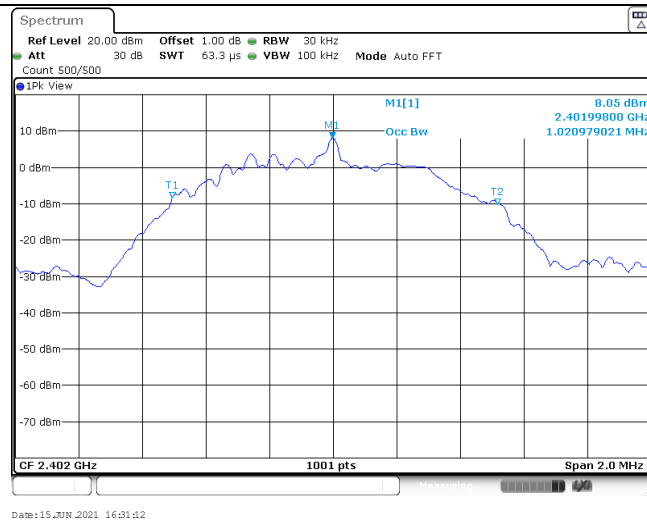
CH39



Appendix D: 99% Occupied Bandwidth

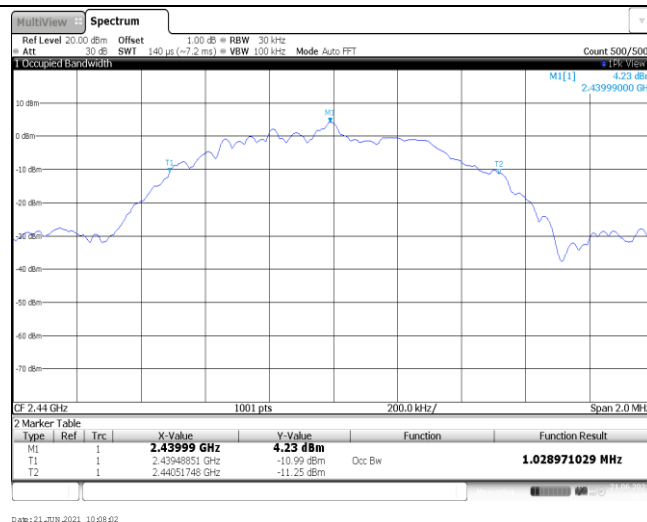
Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.02	-	Pass
	19	1.03		
	39	1.02		

CH00



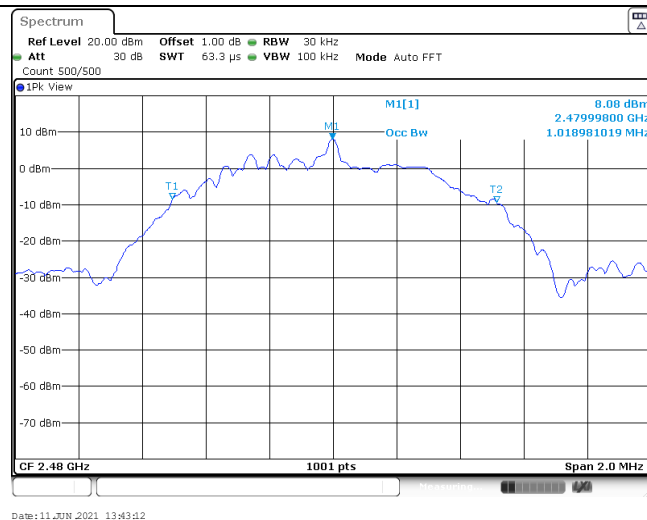
Date: 15 JUN 2021 16:31:12

CH19



Date: 21 JUN 2021 10:58:02

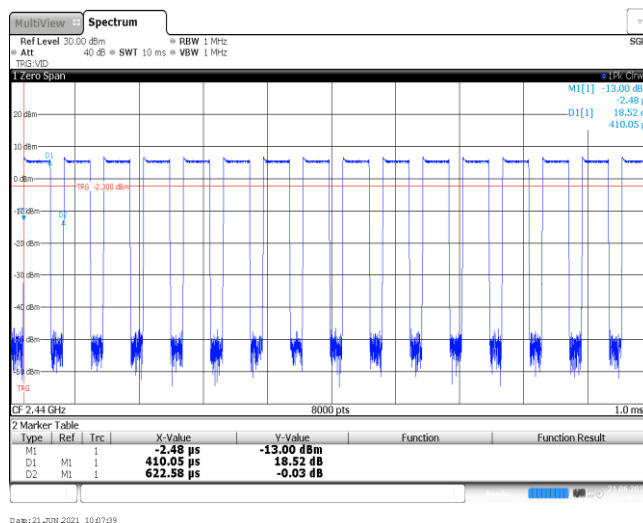
CH39



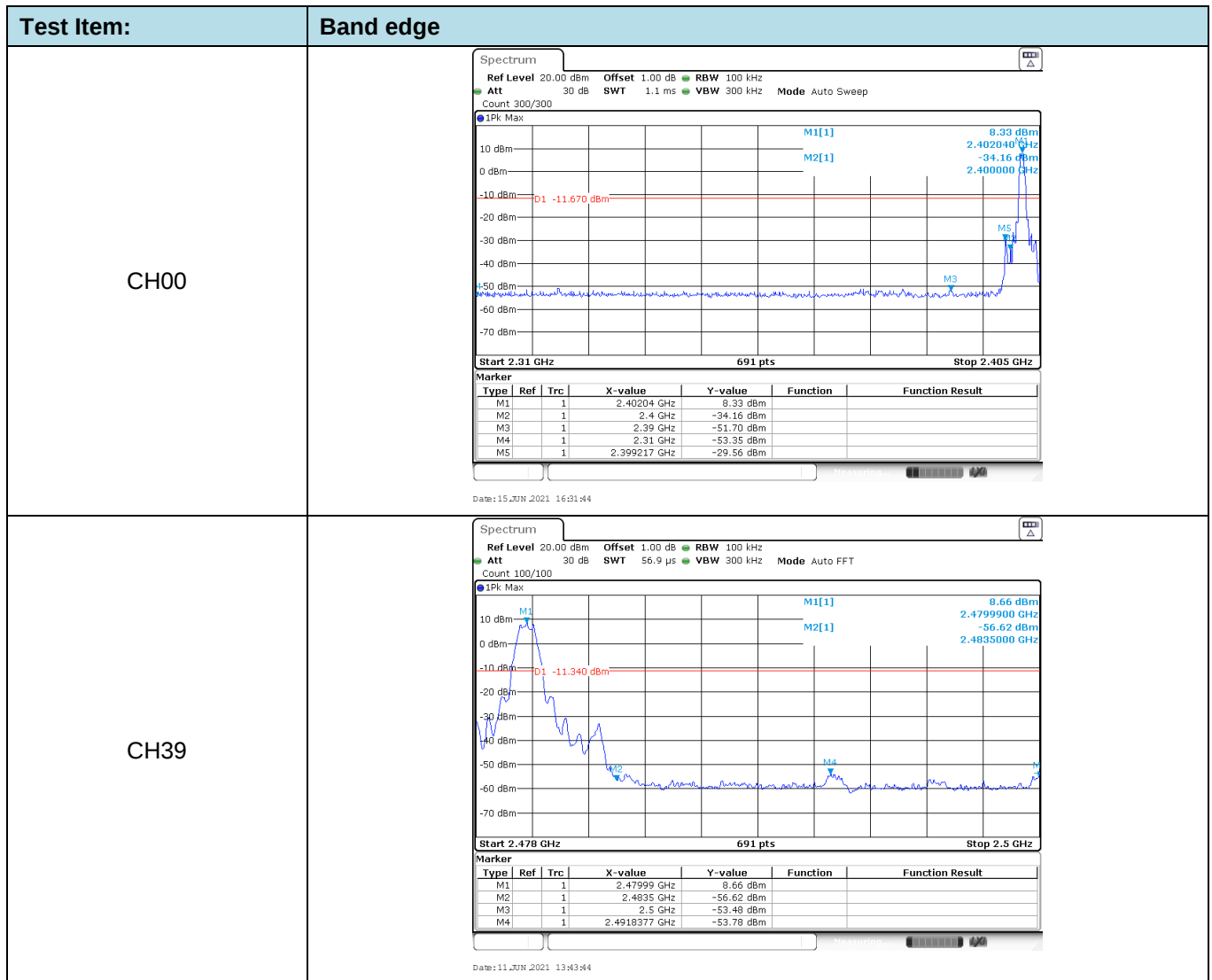
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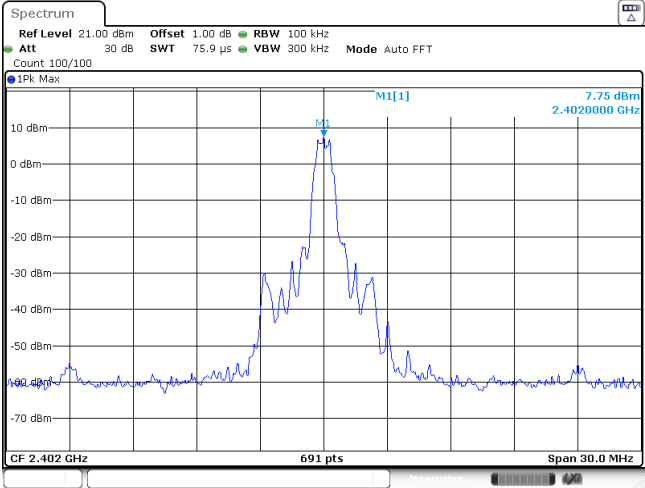
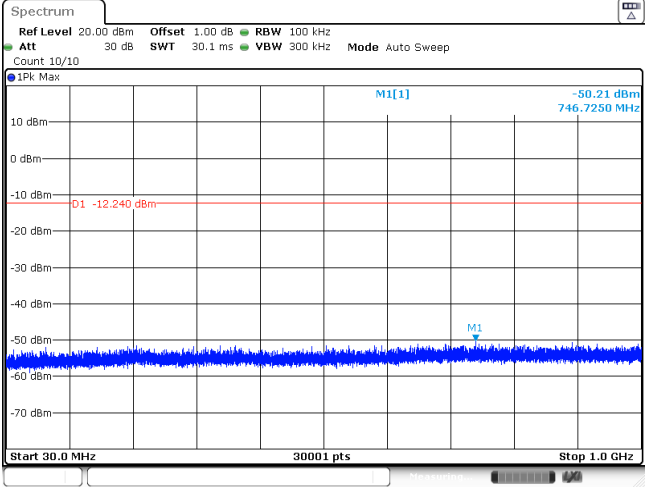
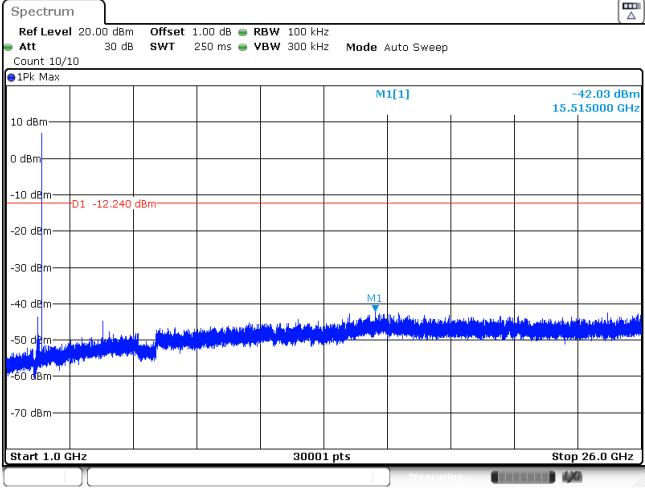
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.41	0.62	66.1%	2.4

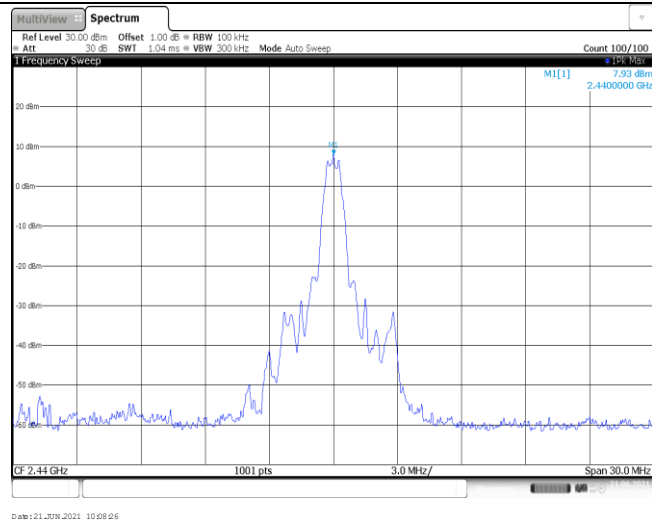


Appendix F: Band edge and Spurious Emissions (conducted)

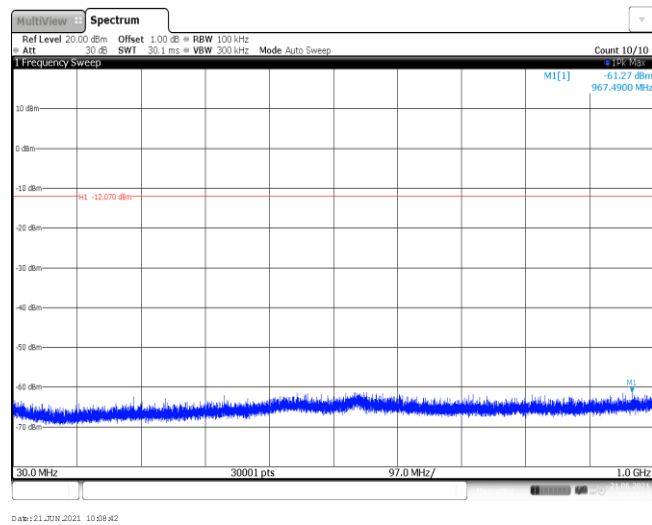


Test Item:	SE
CH00 Reference level	 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] 7.75 dBm 2.402000 GHz CF 2.402 GHz 691 pts Span 30.0 MHz Date: 15 JUN 2021 16:25:04
CH00 30MHz~1000MHz	 Spectrum Ref Level 20.00 dBm 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] -50.21 dBm 746.7250 MHz D1 -12.240 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 15 JUN 2021 16:25:19
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] -42.03 dBm 15.515000 GHz D1 -12.240 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 15 JUN 2021 16:25:34

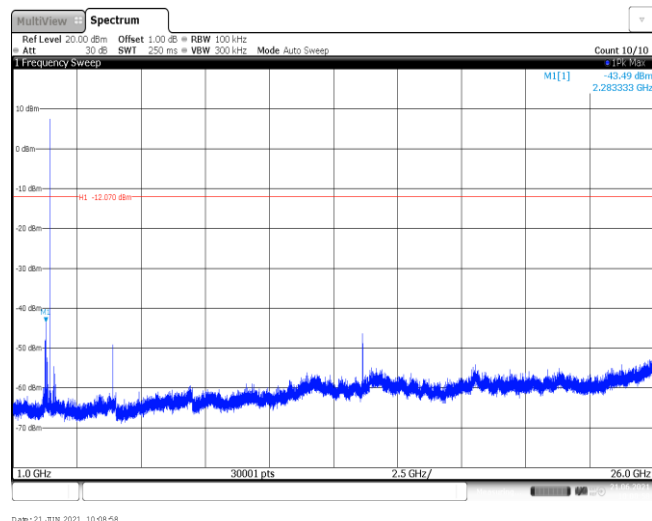
CH19
Reference level



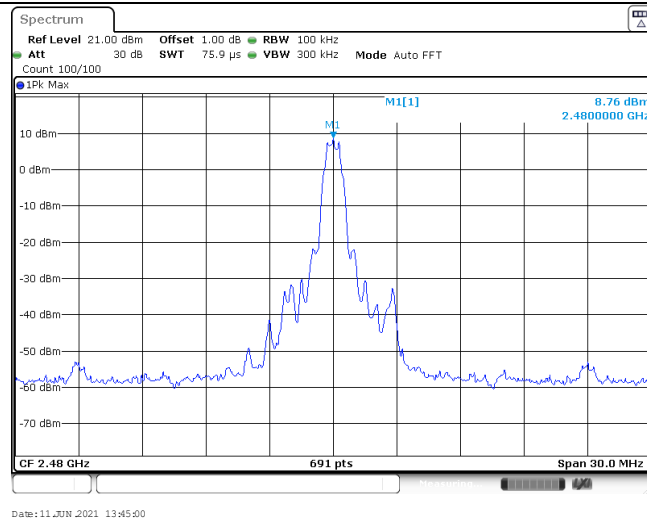
CH19
30MHz~1000MHz



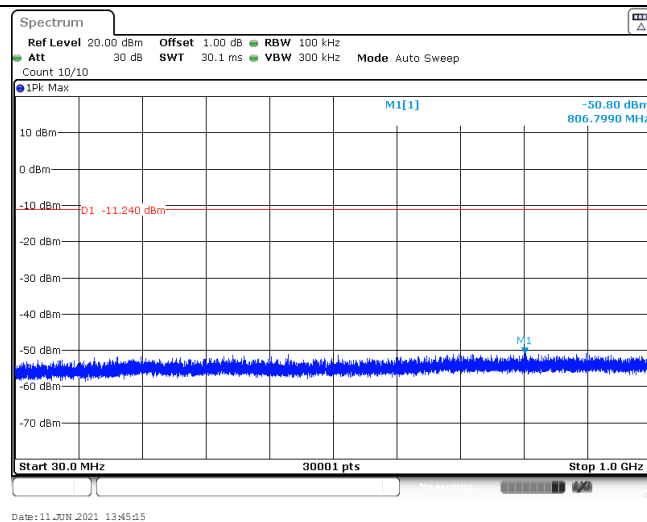
CH19
1GHz~26GHz



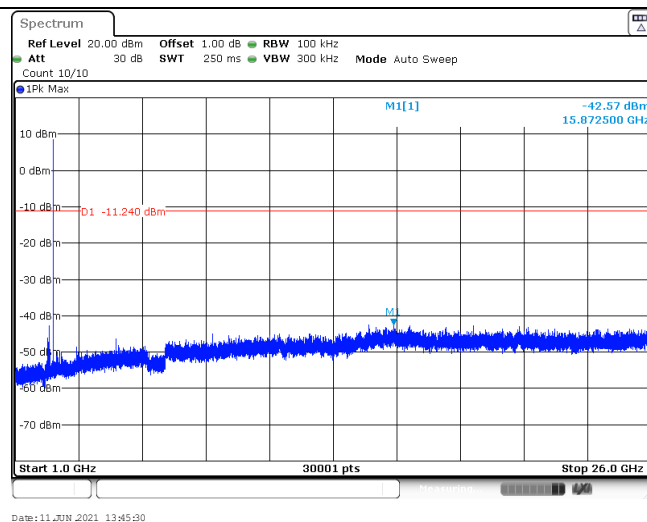
CH39
Reference level



CH39
30MHz~1000MHz



CH39
1GHz~26GHz



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