

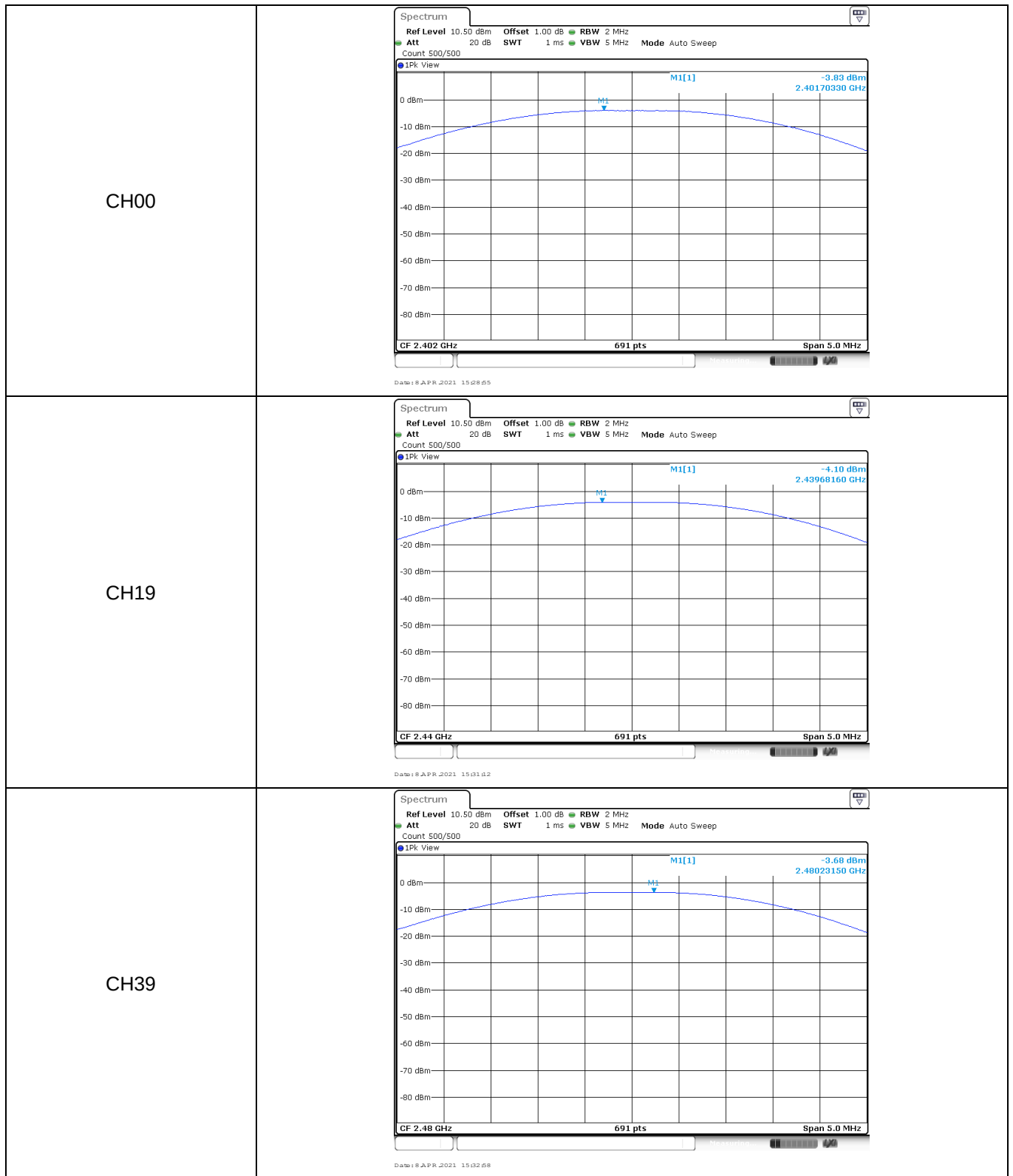
APPENDIX REPORT

Project No.	SHT2103073005EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21030730016	Model No.	C60
Start test date	2021-04-09	Finish date	2021-04-09
Temperature	25.8°C	Humidity	55%
Test Engineer	Qizhi Zhang	Auditor	Xiaodong Zhu

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

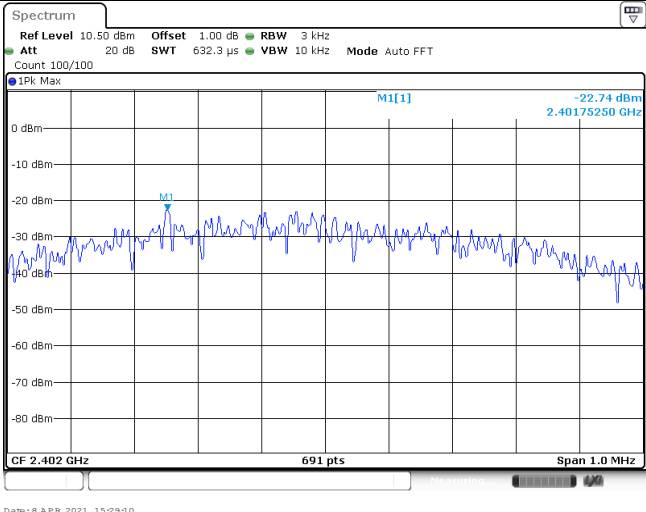
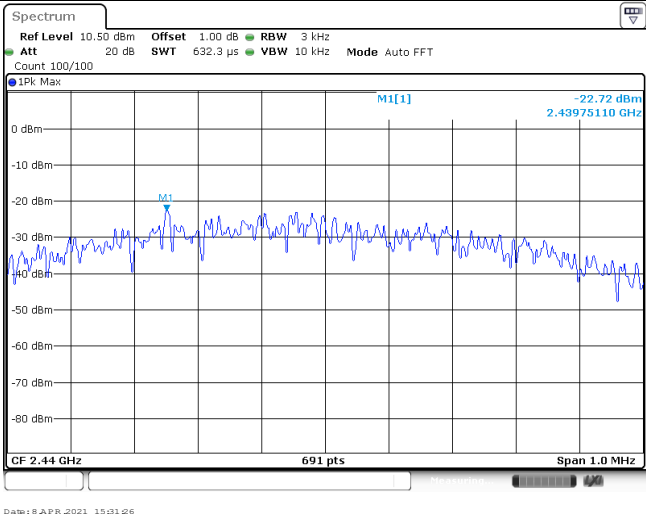
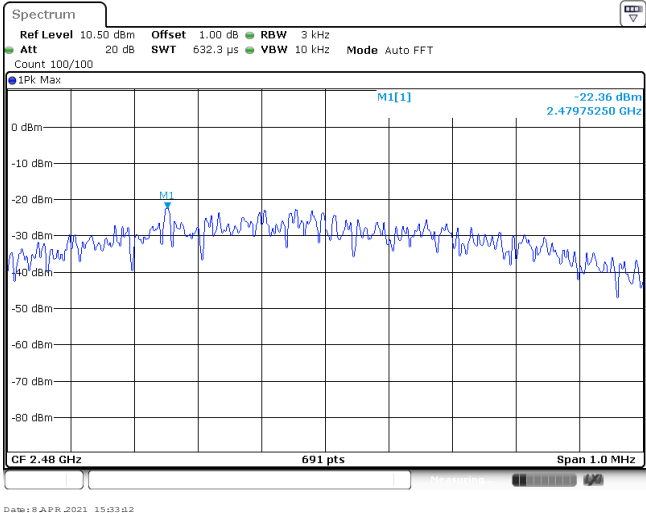
Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-3.83	-3.84	≤ 30.00	Pass
	19	-4.10	-4.11		
	39	-3.68	-3.69		



Appendix B: Power Spectral Density

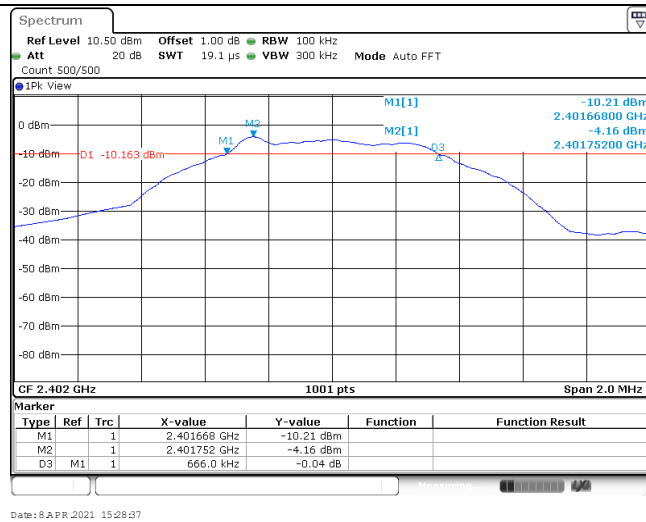
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-22.74	≤8.00	Pass
	19	-22.72		
	39	-22.36		

CH00	 Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 20 dB SWT 632.3 μs VBW 10 kHz Mode Auto FFT Count 100/100 IPk Max M1[1] -22.74 dBm 2.40175250 GHz CF 2.402 GHz 691 pts Span 1.0 MHz Date: 8 APR 2021 15:29:10
CH19	 Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 20 dB SWT 632.3 μs VBW 10 kHz Mode Auto FFT Count 100/100 IPk Max M1[1] -22.72 dBm 2.43975110 GHz CF 2.44 GHz 691 pts Span 1.0 MHz Date: 8 APR 2021 15:31:26
CH39	 Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 20 dB SWT 632.3 μs VBW 10 kHz Mode Auto FFT Count 100/100 IPk Max M1[1] -22.36 dBm 2.47975250 GHz CF 2.48 GHz 691 pts Span 1.0 MHz Date: 8 APR 2021 15:33:12

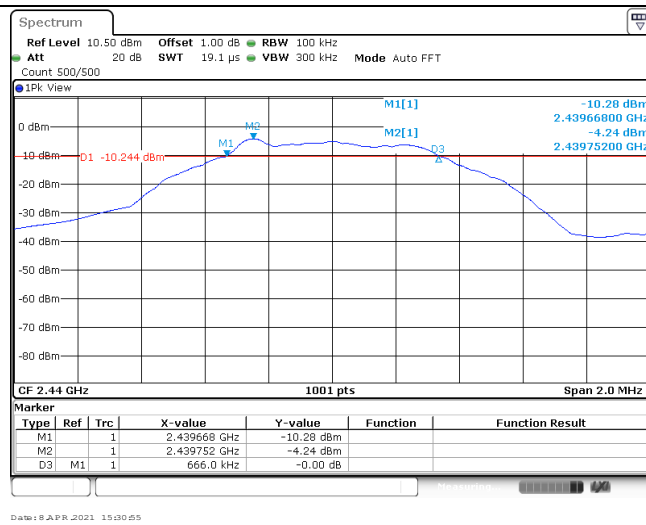
Appendix C: 6dB bandwidth

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

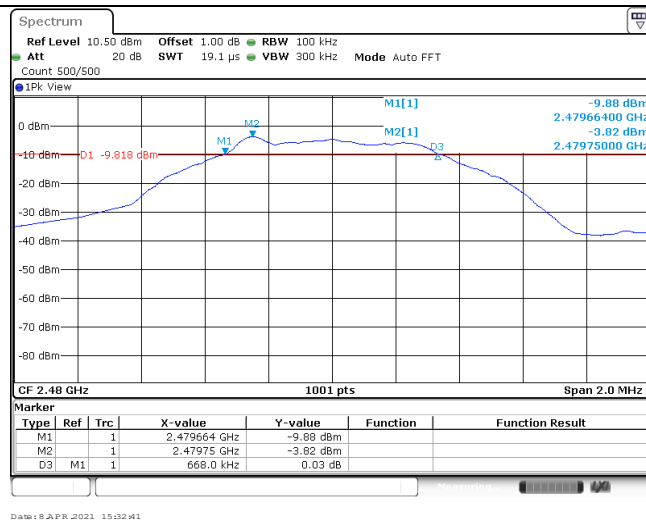
CH00



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		

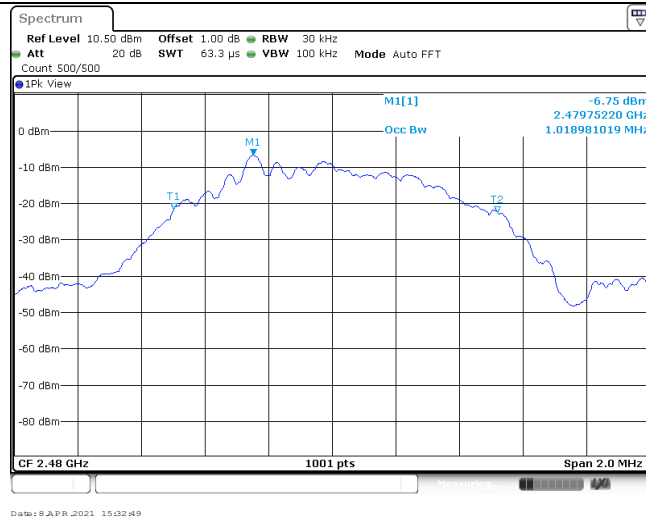
CH00



CH19

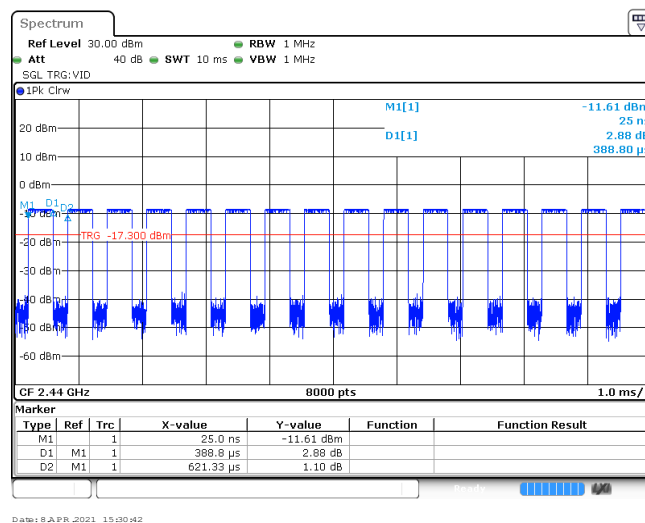


CH39



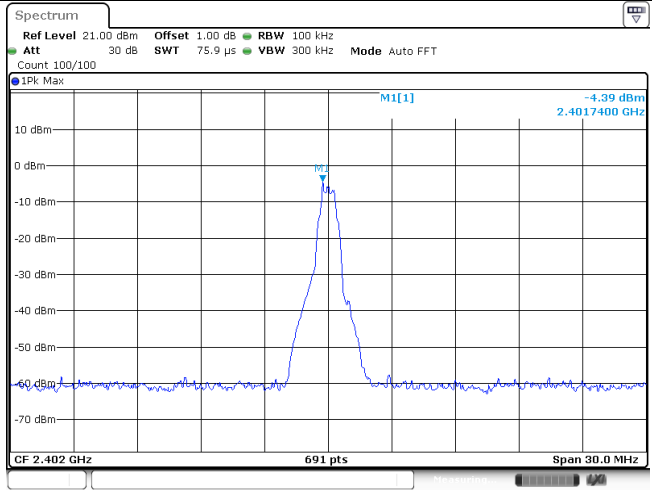
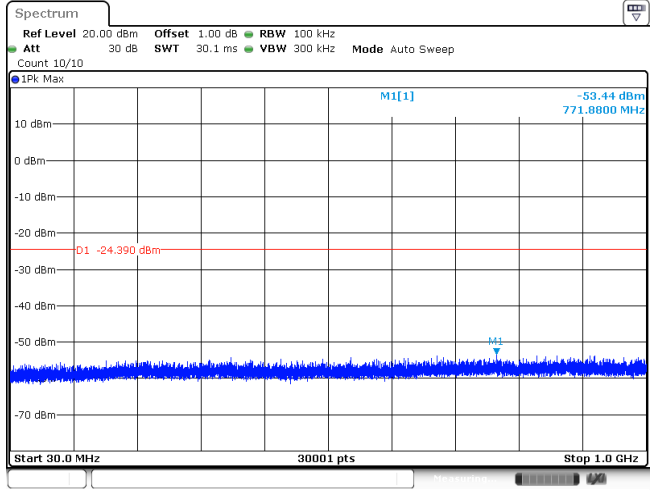
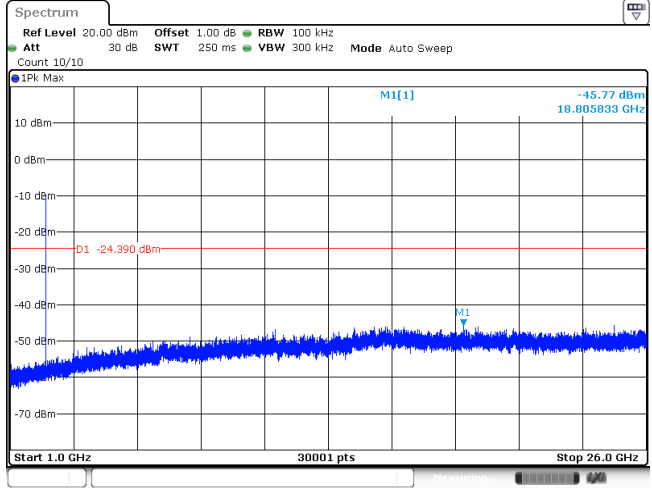
Appendix E: Duty cycle

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

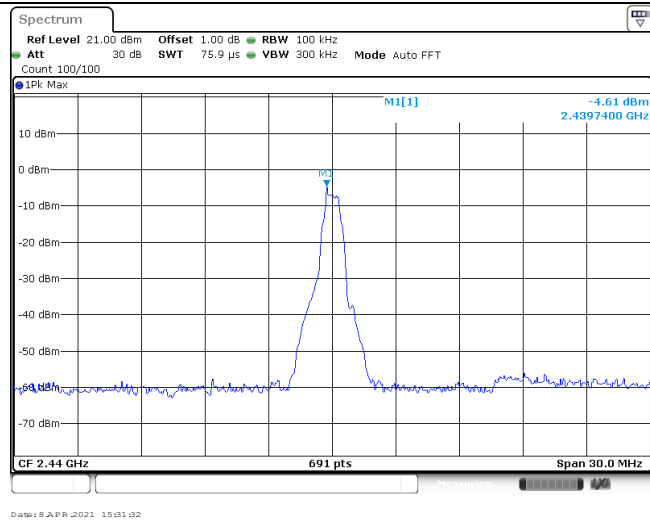


Appendix F: Band edge and Spurious Emissions (conducted)

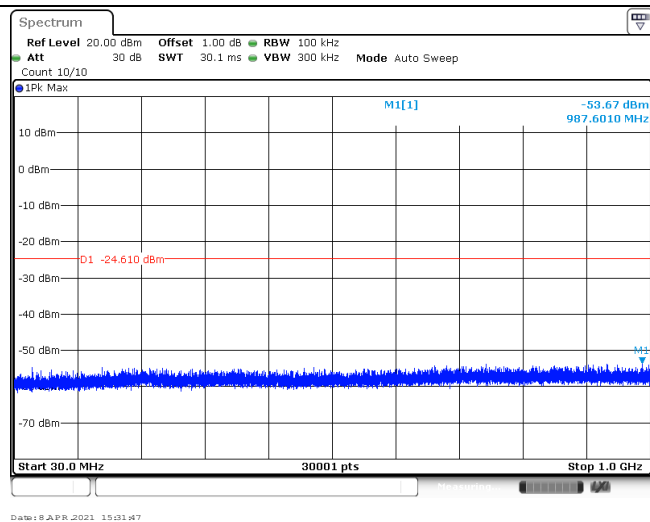
Test Item:	Band edge																																										
CH00	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm M1[1] M2[1] D1 -27.530 dBm M5 M3 M5 -7.53 dBm 2.401770 GHz -64.79 dBm 2.400000 GHz Start 2.31 GHz 691 pts Stop 2.405 GHz <table> Marker <table><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><tr><td>M1</td><td>1</td><td></td><td>2.40177 GHz</td><td>-7.53 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-64.79 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-66.93 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-65.74 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.373684 GHz</td><td>-64.58 dBm</td><td></td><td></td></tr></table> </table> Date: 8 APR 2021 15:29:19	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40177 GHz	-7.53 dBm			M2	1		2.4 GHz	-64.79 dBm			M3	1		2.39 GHz	-66.93 dBm			M4	1		2.31 GHz	-65.74 dBm			M5	1		2.373684 GHz	-64.58 dBm		
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M5	1		2.373684 GHz	-64.58 dBm																																							
CH39	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 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm M1 M2[1] D1 -23.820 dBm M2 M4 -3.82 dBm 2.4797350 GHz -67.73 dBm 2.4835000 GHz Start 2.478 GHz 691 pts Stop 2.5 GHz <table> Marker <table><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><tr><td>M1</td><td>1</td><td></td><td>2.479735 GHz</td><td>-3.82 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-67.73 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-68.43 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4858116 GHz</td><td>-66.50 dBm</td><td></td><td></td></tr></table> </table> Date: 8 APR 2021 15:33:22	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.479735 GHz	-3.82 dBm			M2	1		2.4835 GHz	-67.73 dBm			M3	1		2.5 GHz	-68.43 dBm			M4	1		2.4858116 GHz	-66.50 dBm									
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M3	1		2.5 GHz	-68.43 dBm																																							
M4	1		2.4858116 GHz	-66.50 dBm																																							

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] -4.39 dBm 2.4017400 GHz CF 2.402 GHz 691 pts Span 30.0 MHz Date: 8 APR. 2021 15:29:27
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] -53.44 dBm 771.8800 MHz D1 -24.390 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 8 APR. 2021 15:29:42
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] -45.77 dBm 18.805833 GHz D1 -24.390 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 8 APR. 2021 15:29:58

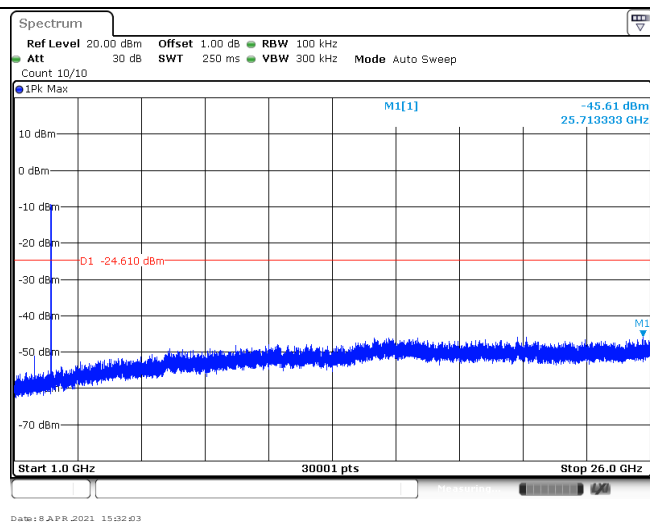
CH19
Reference level

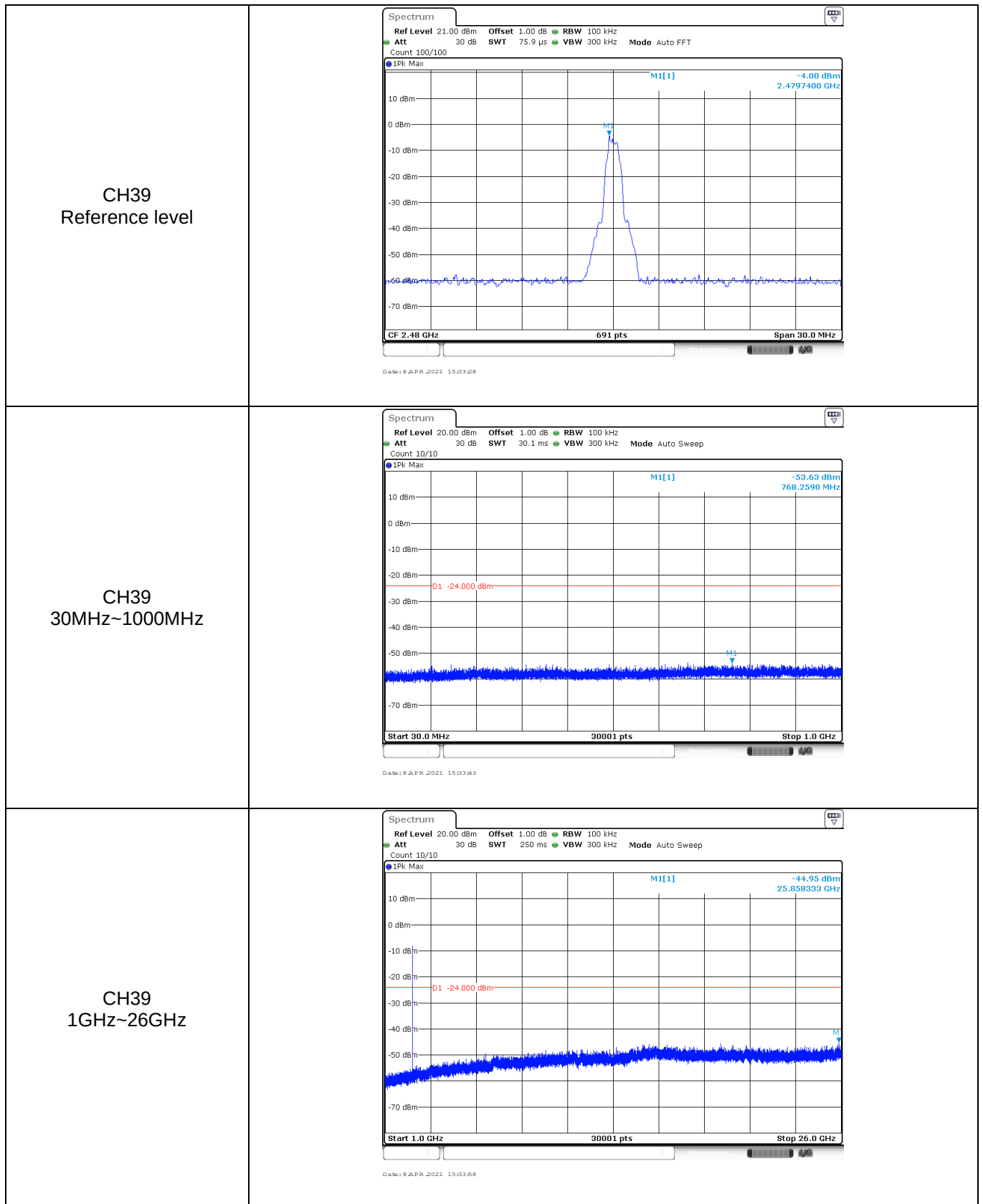


CH19
30MHz~1000MHz



CH19
1GHz~26GHz





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