

APPENDIX REPORT

Project No.	SHT2009016002EW	Radio Specification	Bluetooth BLE
Test sample No.		Model No.	BF-TM8500
Start test date	2020/10/30	Finish date	2020/10/30
Temperature	25°C	Humidity	50%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhuo

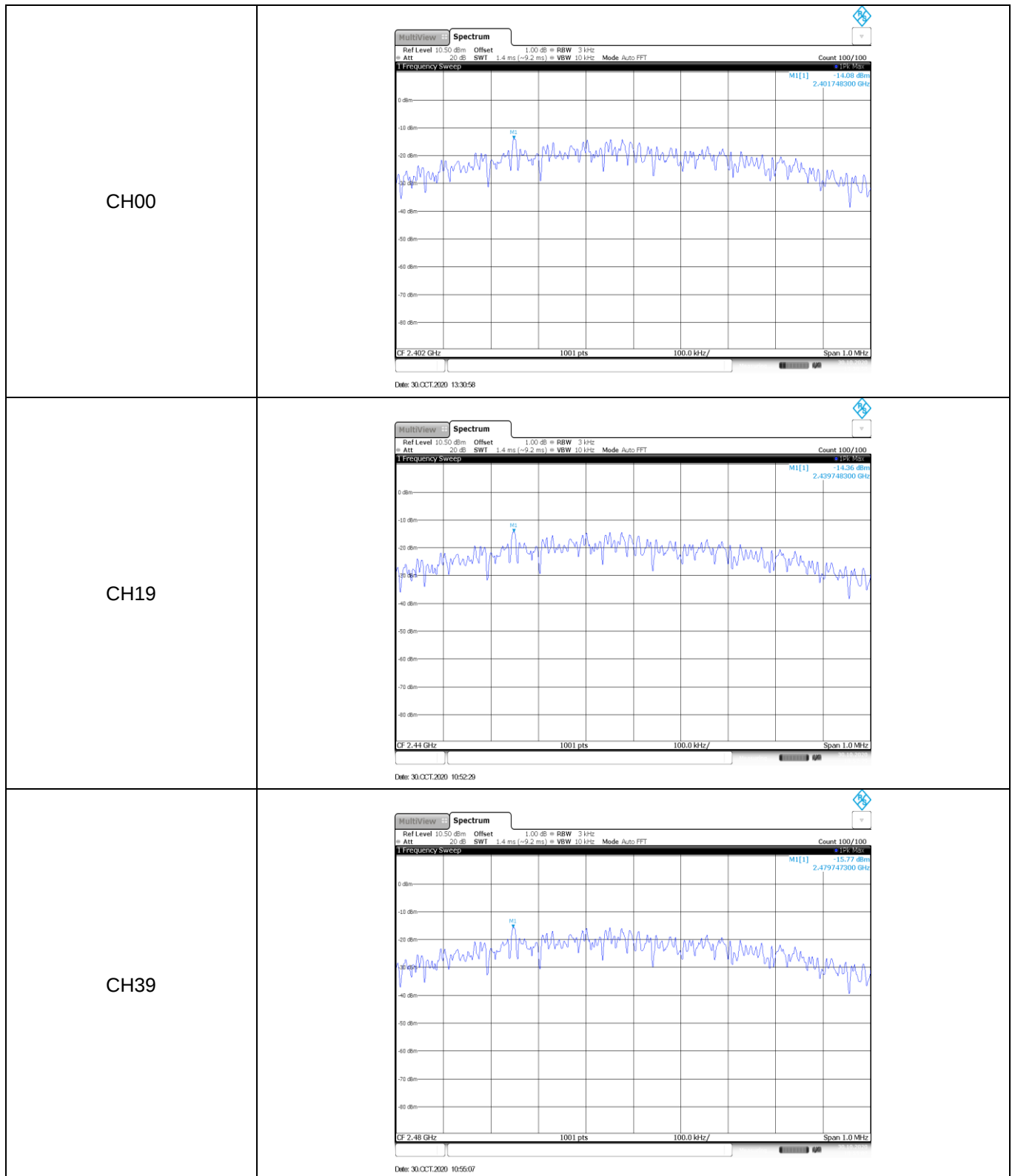
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	1.88	1.86	≤ 30.00	Pass
	19	1.53	1.52		
	39	0.31	0.30		

Appendix B: Power Spectral Density

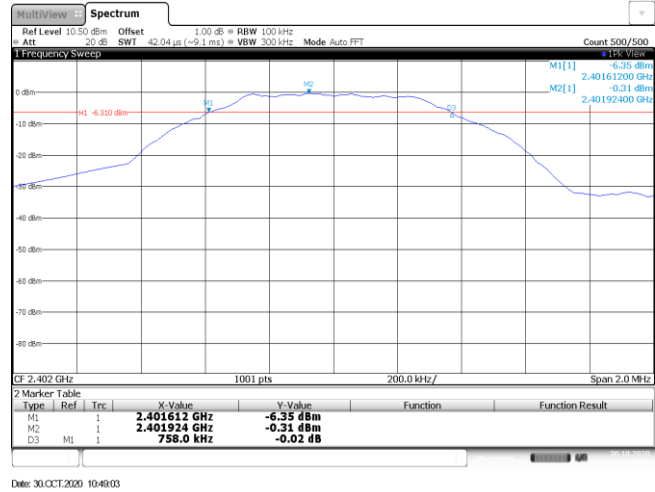
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-14.08	≤8.00	Pass
	19	-14.36		
	39	-15.77		



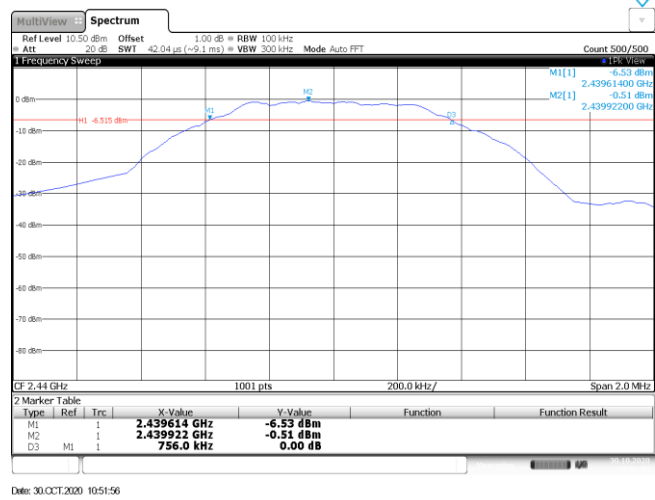
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	758.00	≥500	Pass
	19	756.00		
	39	756.00		

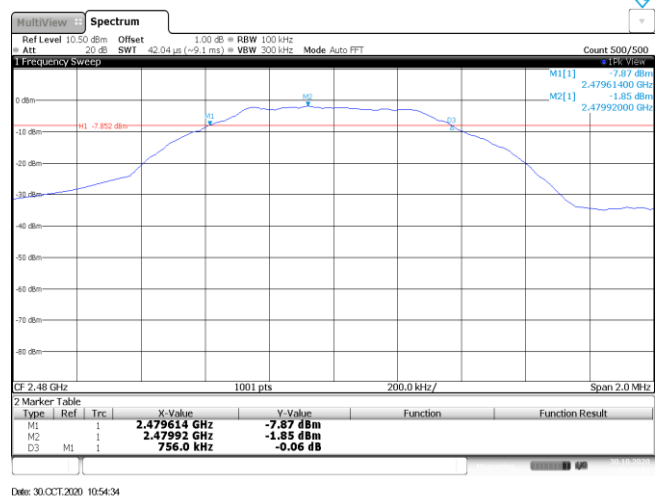
CH00



CH19

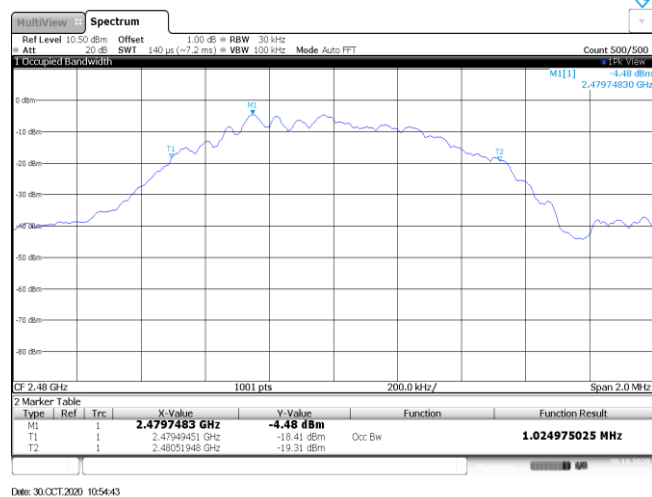
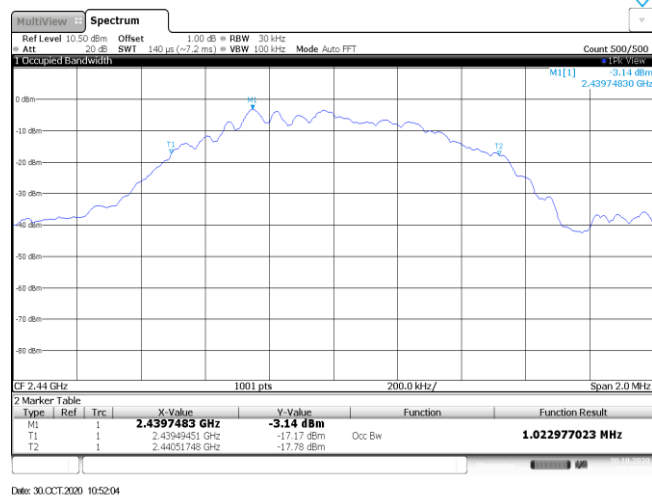
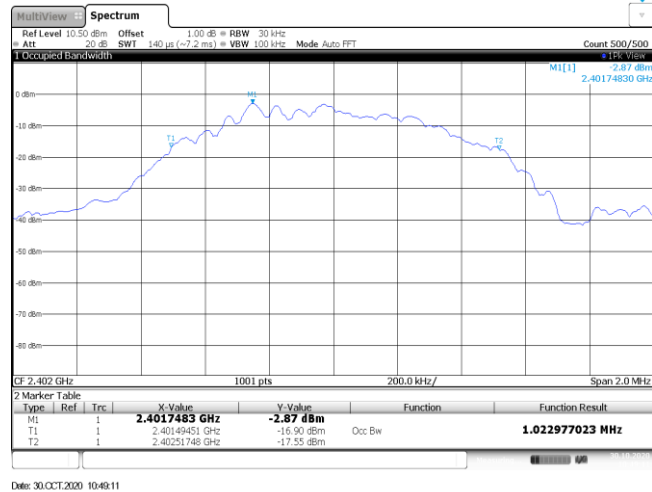


CH39



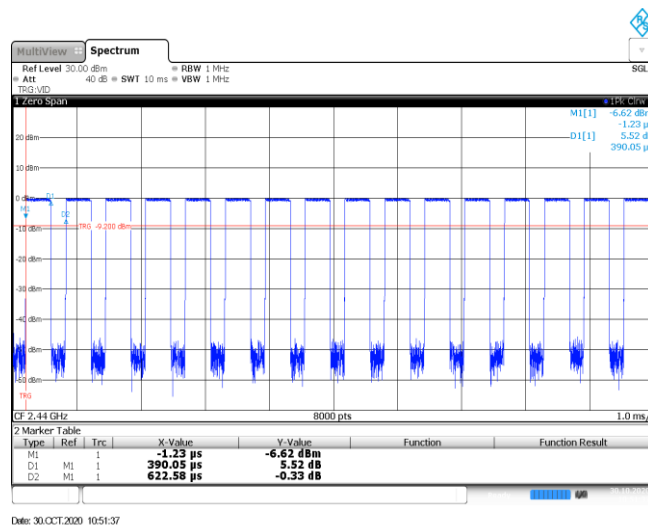
Appendix D: 99% Occupied Bandwidth

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



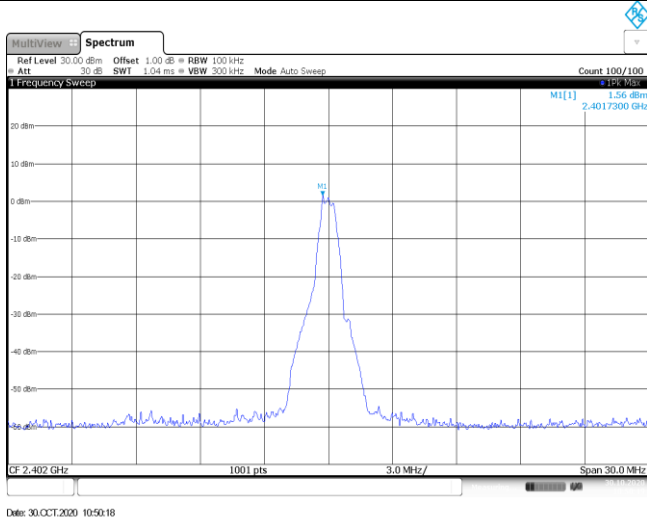
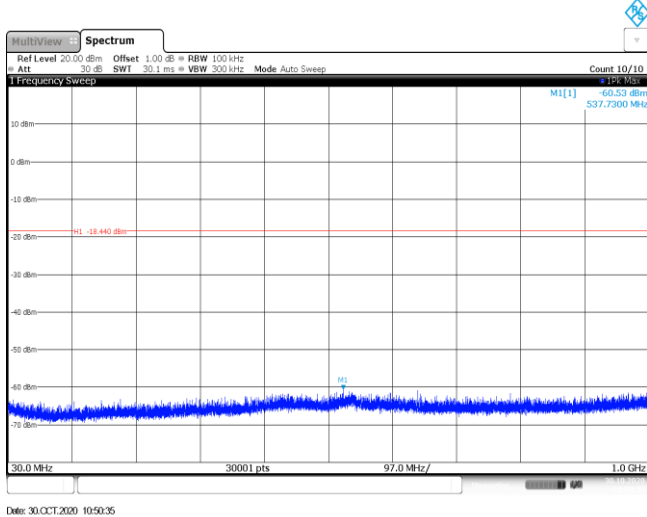
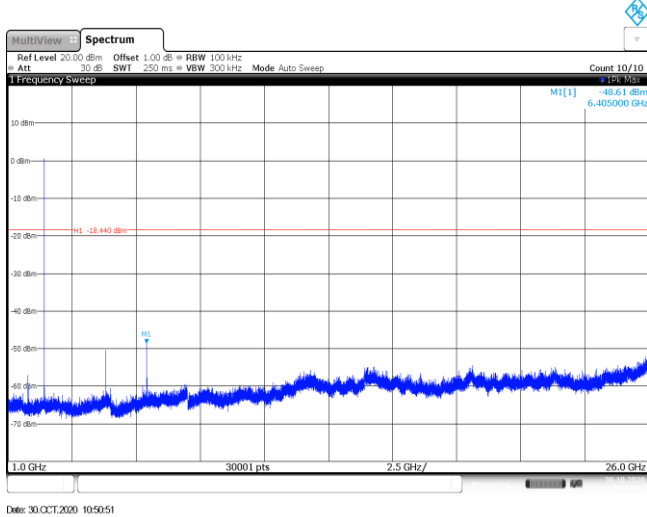
Appendix E: Duty cycle

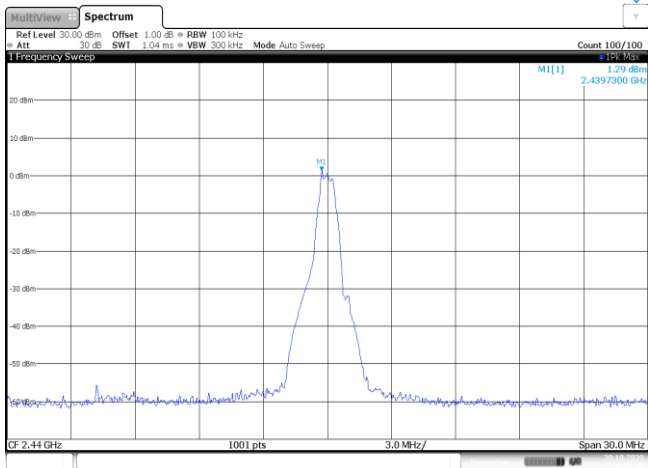
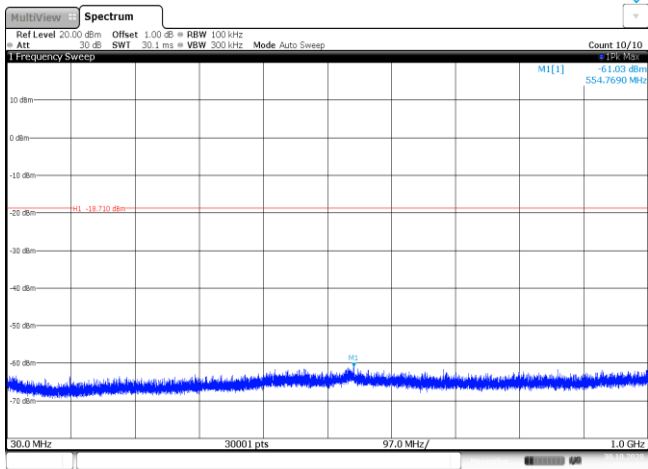
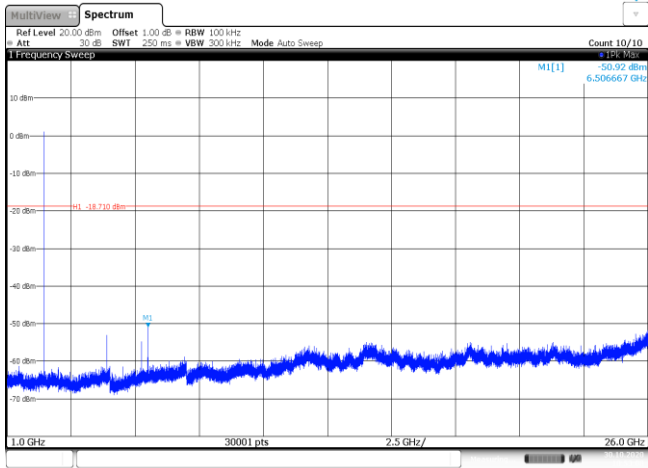
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.39	0.62	62.9%	2.6



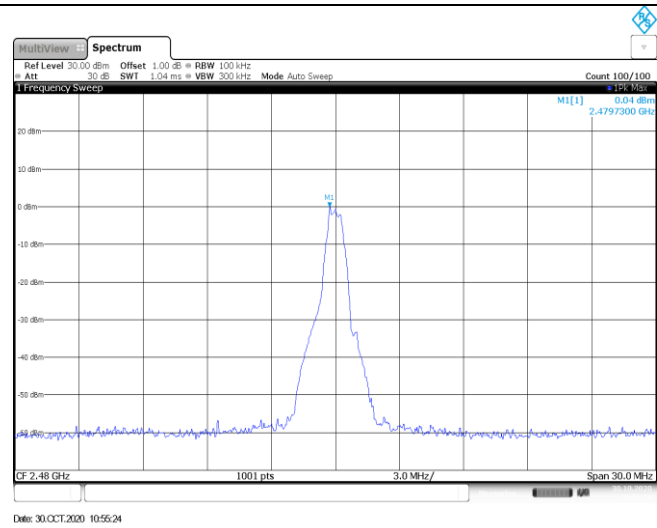
Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
CH00	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB BW 100 kHz Att 20 dB SWT 1.05 ms VBW 300 kHz Mode Auto Sweep Count 300/300 Frequency Sweep 8 dBm -18 dBm -28 dBm -38 dBm -48 dBm -58 dBm -68 dBm -78 dBm -88 dBm M1 -18.700 dBm M1[1] 1.51 dBm M2[1] 2.401726 GHz M2[1] -53.15 dBm M2[1] 2.400000 GHz 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz 2 Marker Table <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>2.401726 GHz</td><td>1.51 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-53.15 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-69.13 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-75.13 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.3497618 GHz</td><td>-66.89 dBm</td><td></td><td></td></tr></table> Date: 30.OCT.2020 10:50:12	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401726 GHz	1.51 dBm			M2	1		2.4 GHz	-53.15 dBm			M3	1		2.39 GHz	-69.13 dBm			M4	1		2.31 GHz	-75.13 dBm			M5	1		2.3497618 GHz	-66.89 dBm		
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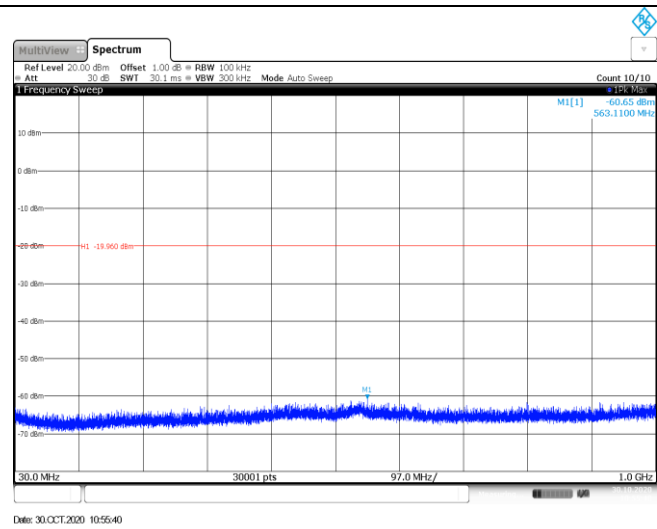
Test Item:	SE
CH00 Reference level	
CH00 30MHz~1000MHz	
CH00 1GHz~26GHz	

CH19 Reference level	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 1.29 dBm 2.4397300 GHz CF 2.44 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 30.OCT.2020 10:52:35
CH19 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -61.03 dBm 554.7690 MHz M1 -18.710 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 30.OCT.2020 10:52:51
CH19 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -50.92 dBm 6.506667 GHz M1 -18.710 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 30.OCT.2020 10:53:08

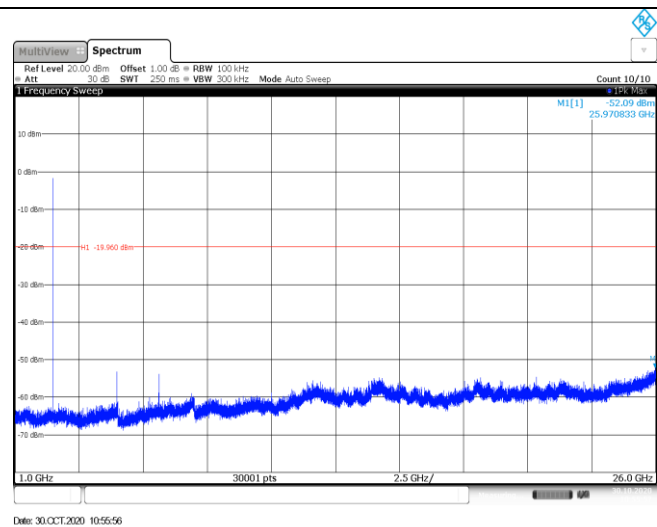
CH39
Reference level



CH39
30MHz~1000MHz



CH39
1GHz~26GHz



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