

APPENDIX REPORT

Project No.	SHT2006146102EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT20061461003,	Model No.	T450
Start test date	2020/7/10	Finish date	2020/7/20
Temperature	25°C	Humidity	50%
Test Engineer	Caspar Chen	Auditor	Xiaodong Zheo

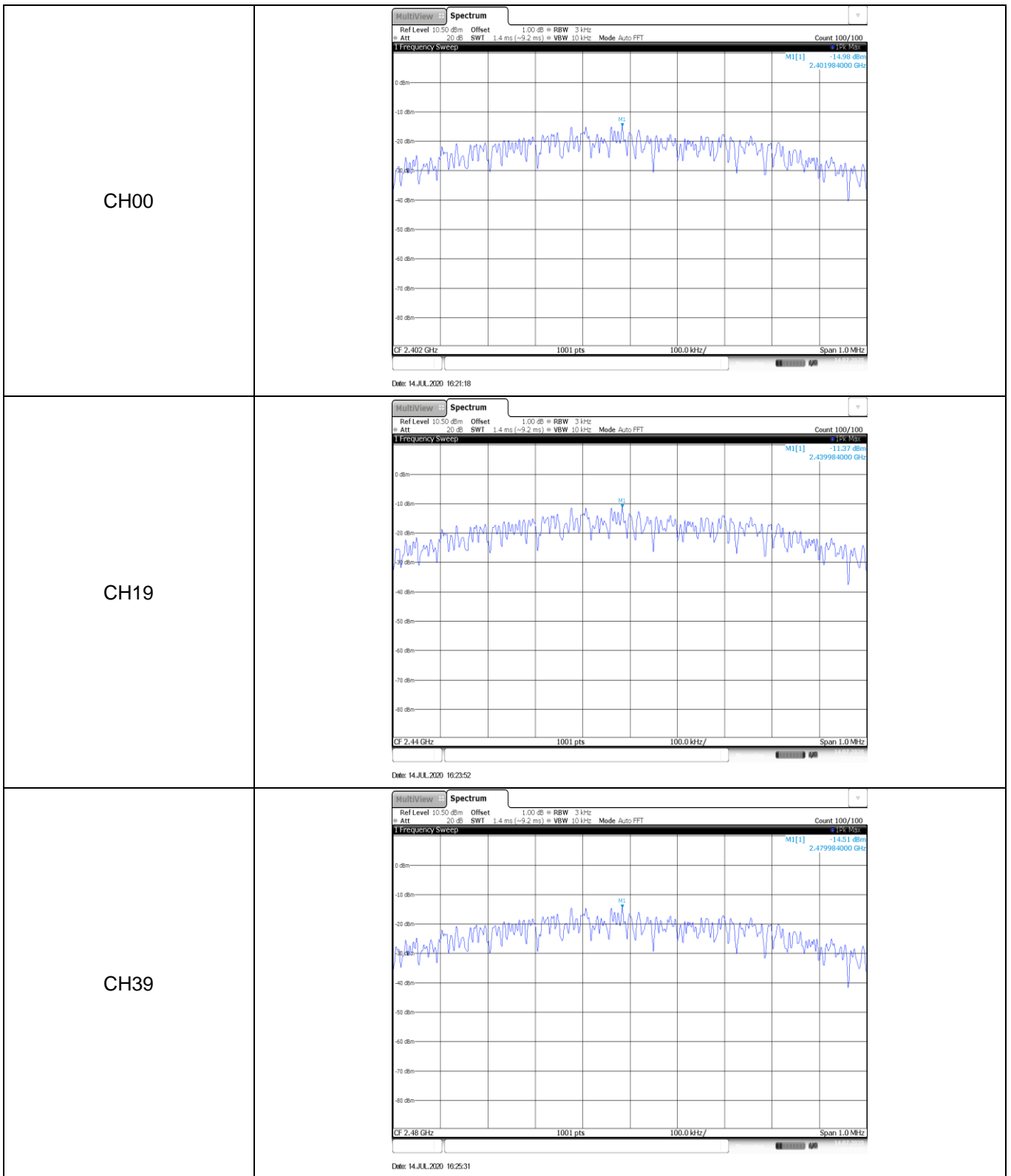
Appendix clause	Test item	Result
A	Peak Output Power	Pass
B	Power Spectral Density	Pass
C	6 dB Bandwidth	Pass
D	99% Occupied Bandwidth	Pass
E	Duty cycle	Pass
F	Band edge and Spurious Emissions (conducted)	Pass

Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	0.68	0.66	≤ 30.00	Pass
	19	4.16	4.13		
	39	1.04	1.01		

Appendix B: Power Spectral Density

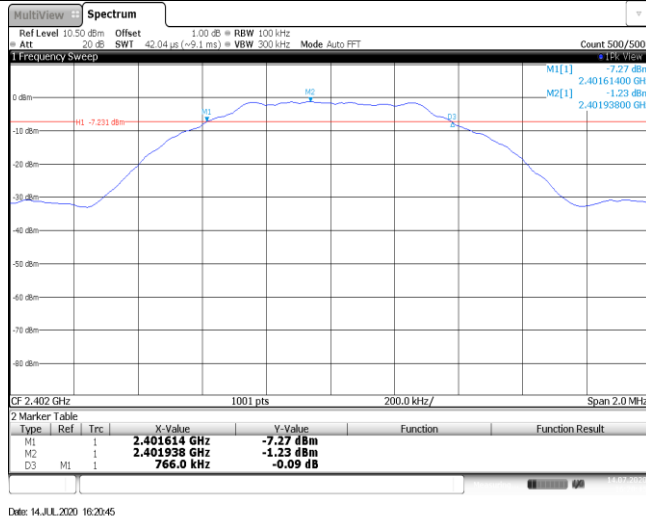
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-14.98	≤8.00	Pass
	19	-11.37		
	39	-14.51		



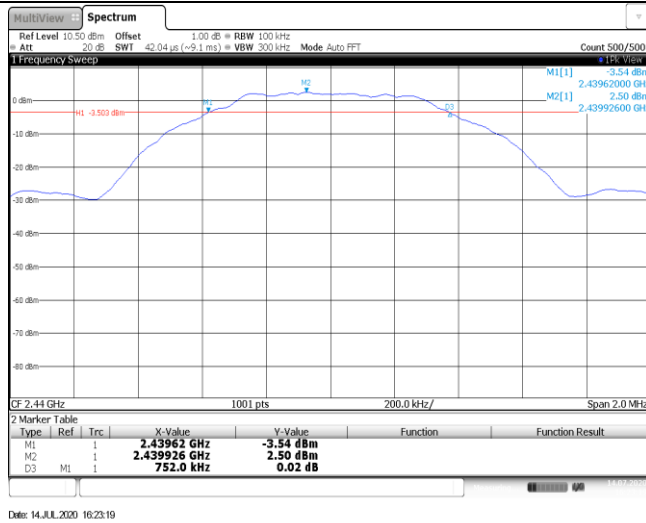
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	766.00	≥500	Pass
	19	752.00		
	39	758.00		

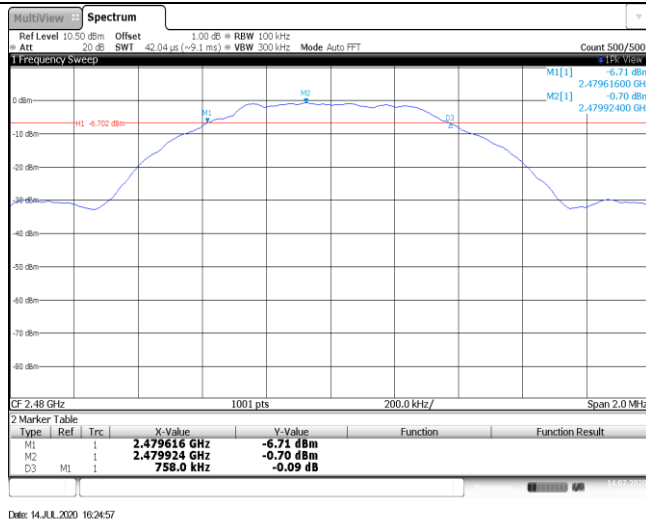
CH00



CH19



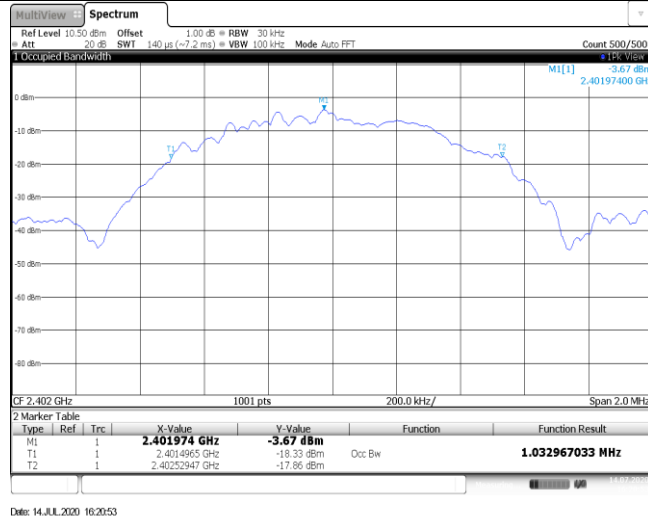
CH39



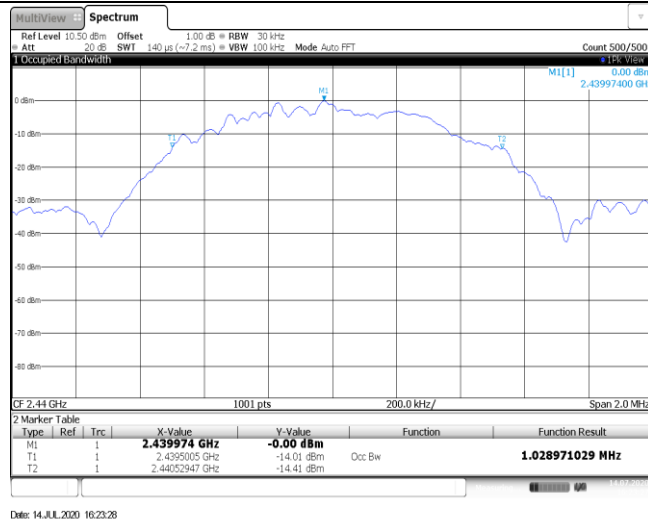
Appendix D: 99% Occupied Bandwidth

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

CH00



CH19

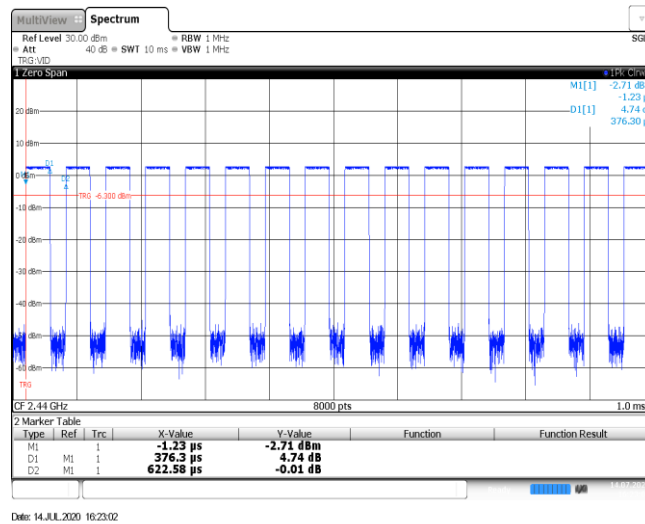


CH39

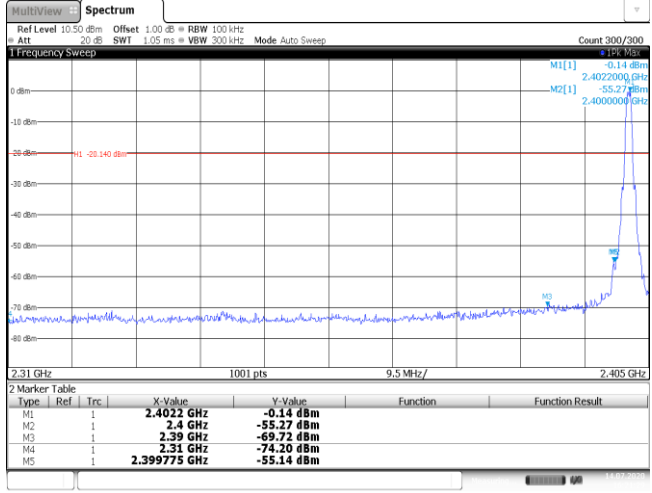
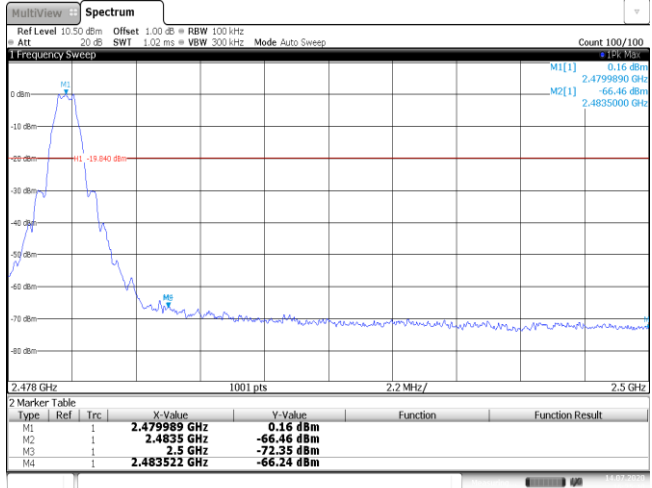


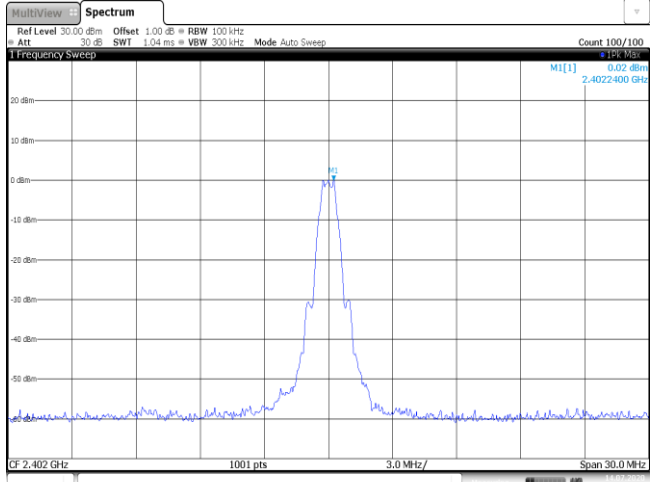
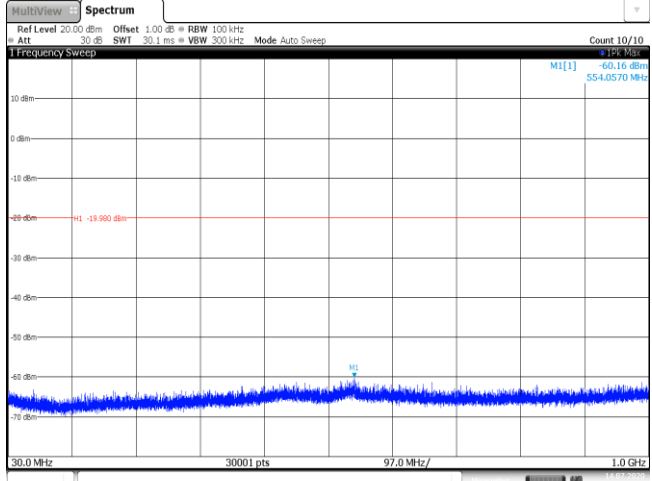
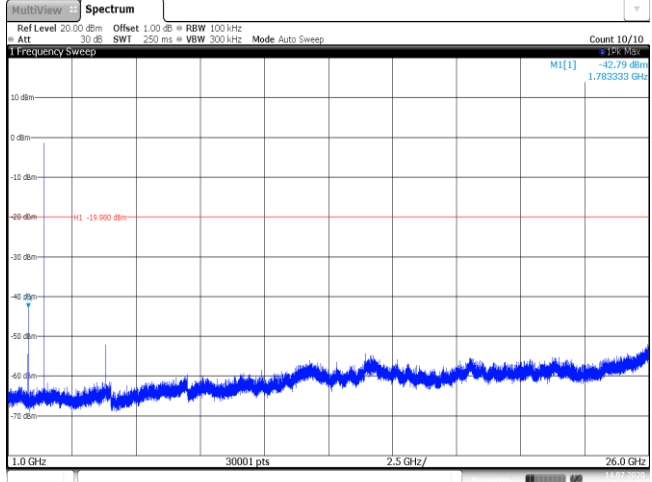
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.38	0.62	61.3%	2.6

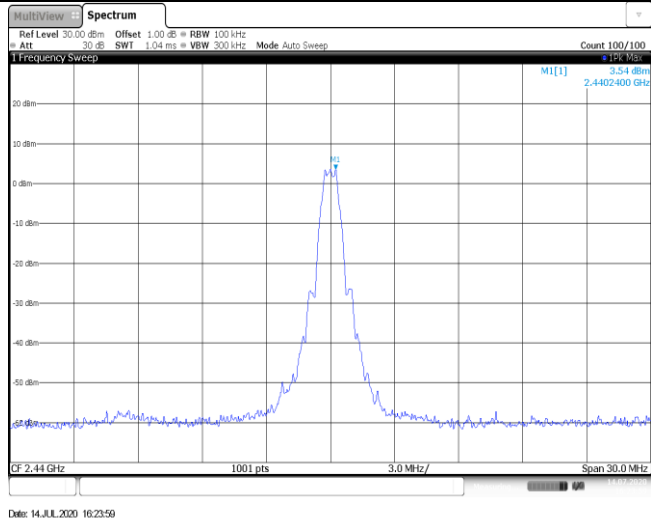


Appendix F: Band edge and Spurious Emissions (conducted)

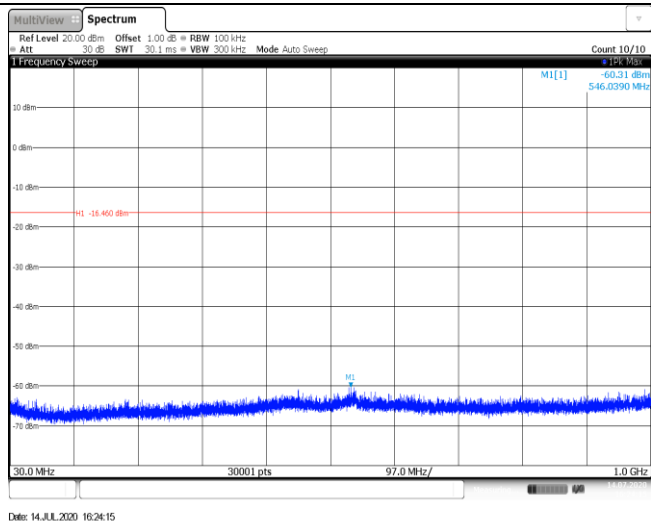
Test Item:	Band edge																																										
<p>CH00</p>	 <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.4022 GHz</td> <td>-0.14 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-55.27 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-69.72 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-74.20 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.39975 GHz</td> <td>-55.14 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 14.JUL.2020 16:21:28</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4022 GHz	-0.14 dBm			M2	1		2.4 GHz	-55.27 dBm			M3	1		2.39 GHz	-69.72 dBm			M4	1		2.31 GHz	-74.20 dBm			M5	1		2.39975 GHz	-55.14 dBm		
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Test Item:	SE
<p>CH00 Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 0.02 dBm 2.4022400 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 14.JUL.2020 16:21:35</p>
<p>CH00 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -60.16 dBm 554.8570 MHz CF 30.0 MHz 30001 pts 97.0 MHz/ Span 1.0 GHz Date: 14.JUL.2020 16:21:51</p>
<p>CH00 1GHz~26GHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -42.79 dBm 1.785533 GHz CF 1.0 GHz 30001 pts 2.5 GHz/ Span 26.0 GHz Date: 14.JUL.2020 16:22:08</p>

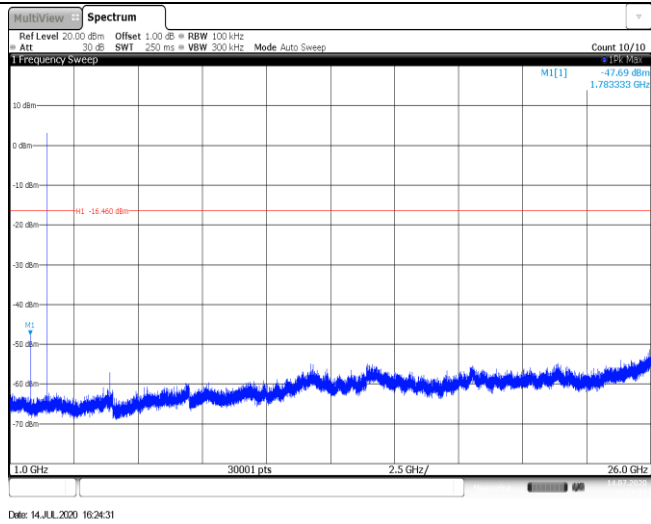
CH19
Reference level

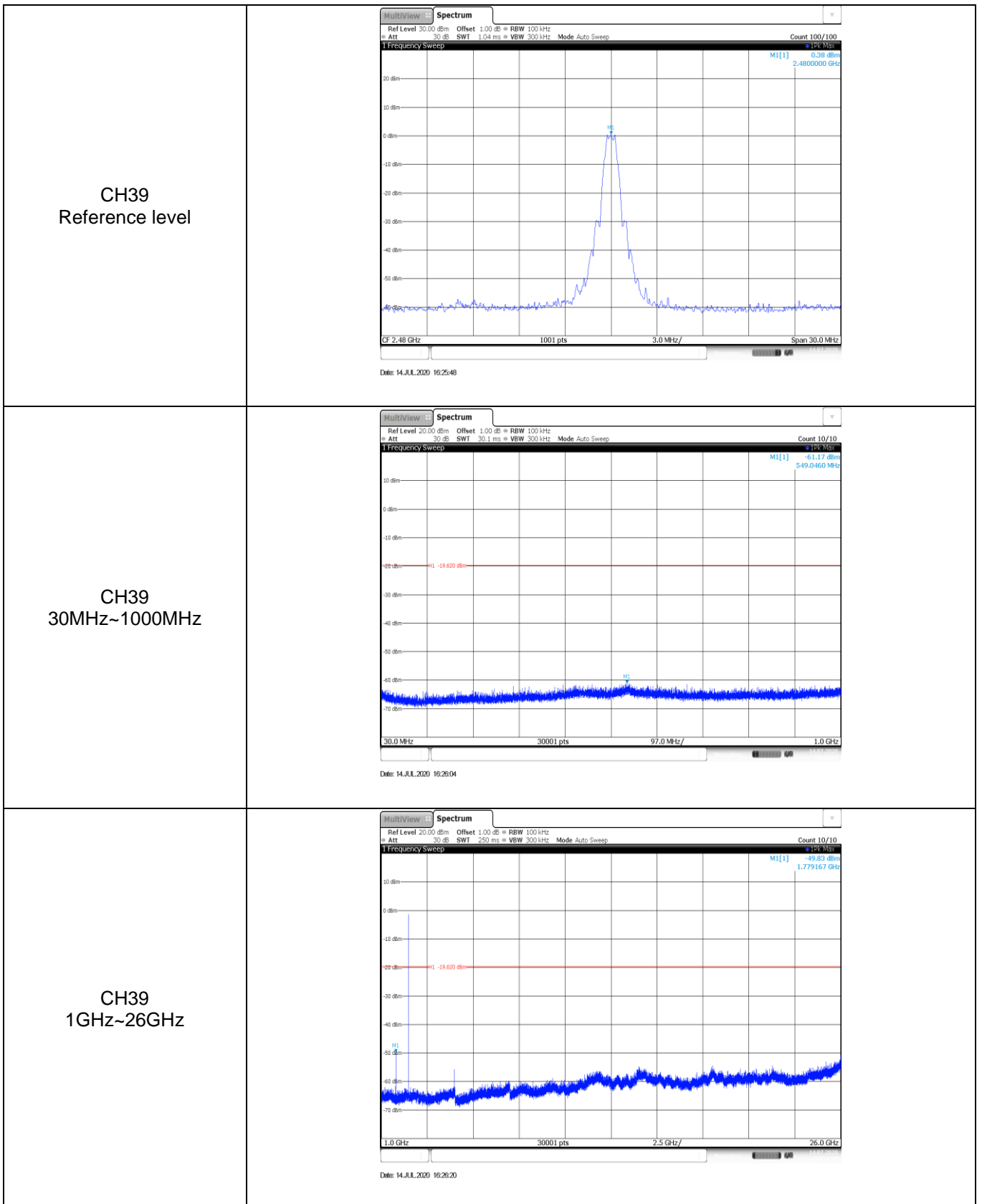


CH19
30MHz~1000MHz



CH19
1GHz~26GHz





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