

APPENDIX REPORT

Project No.	SHT2004026301EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT20030829008	Model No.	SouLink Zero
Start test date	2020/7/2	Finish date	2020/7/2
Temperature	25°C	Humidity	50%
Test Engineer	<i>Patrick . Liu</i>	Auditor	<i>William . wang</i>

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

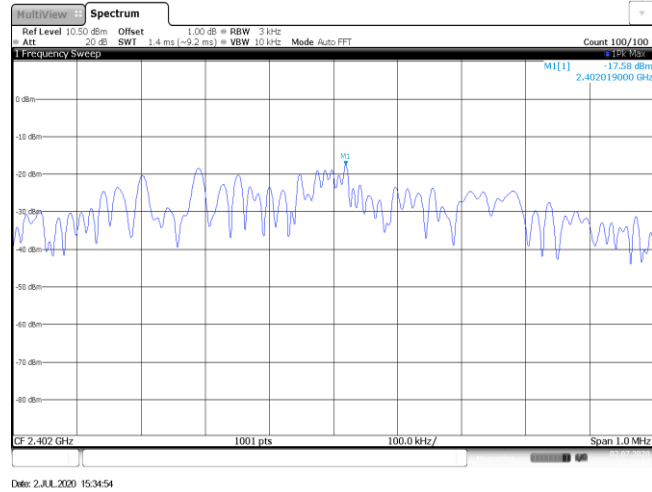
Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)
BT-BLE	00	-0.56	-0.88	≤ 30.00
	19	-0.09	-0.51	
	39	-0.67	-0.93	

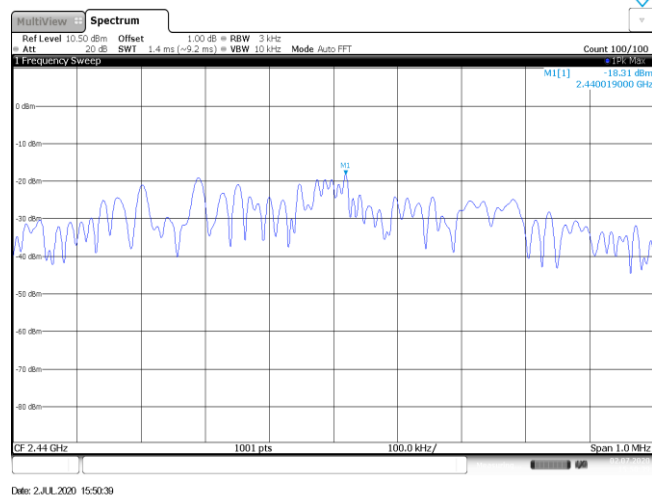
Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-17.58	≤8.00	Pass
	19	-18.31		
	39	-18.37		

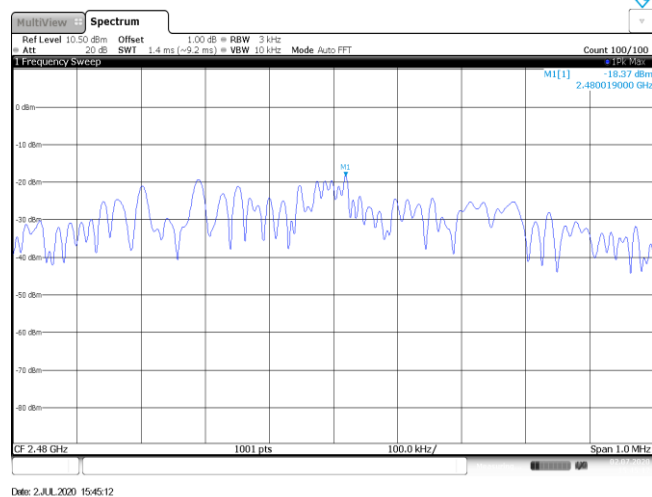
CH00



CH19

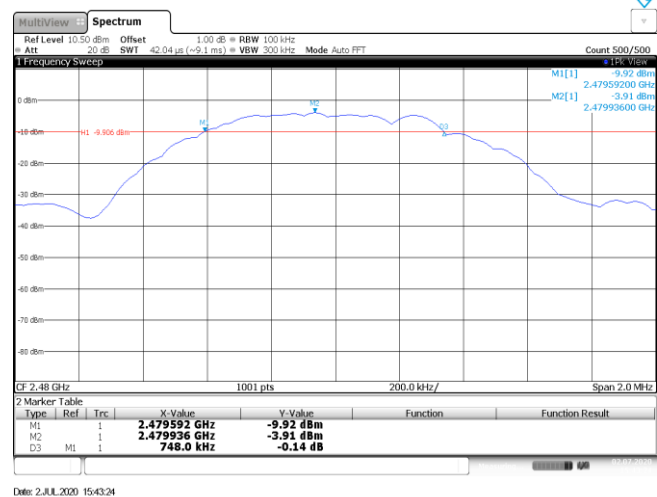
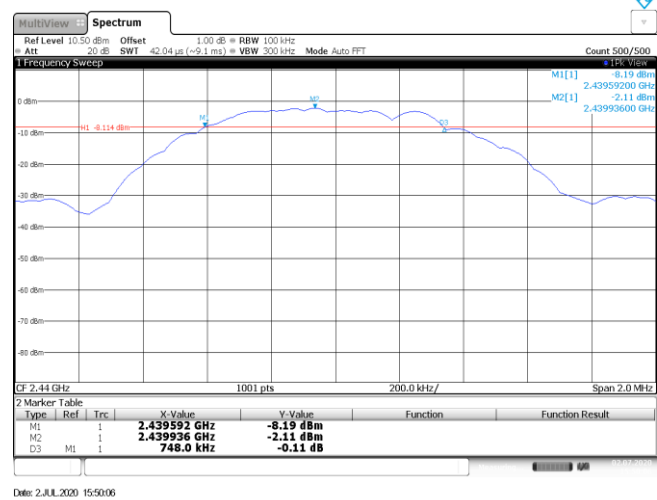
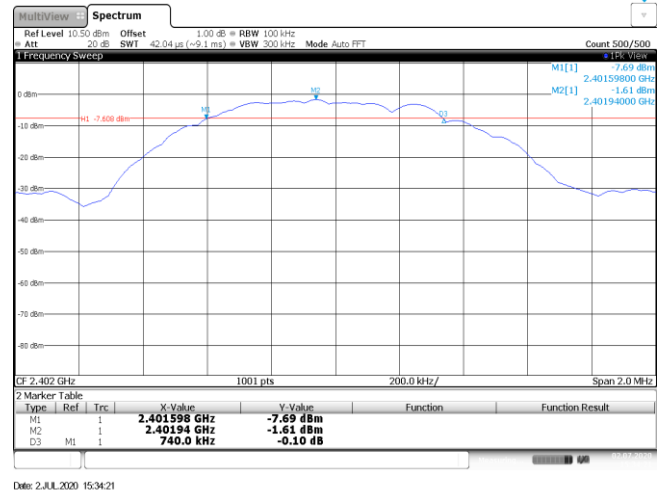


CH39



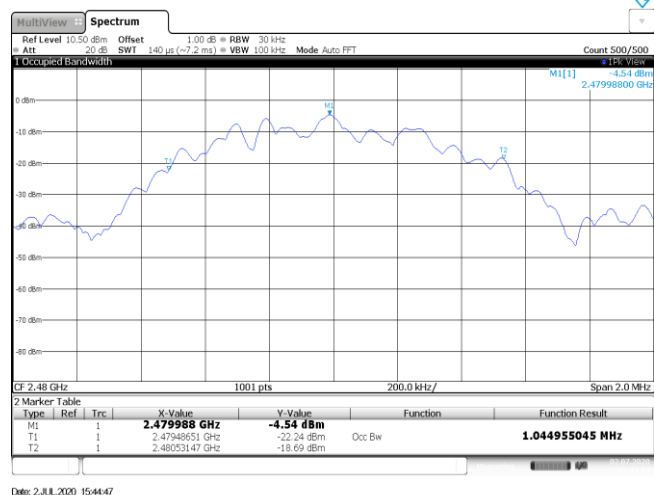
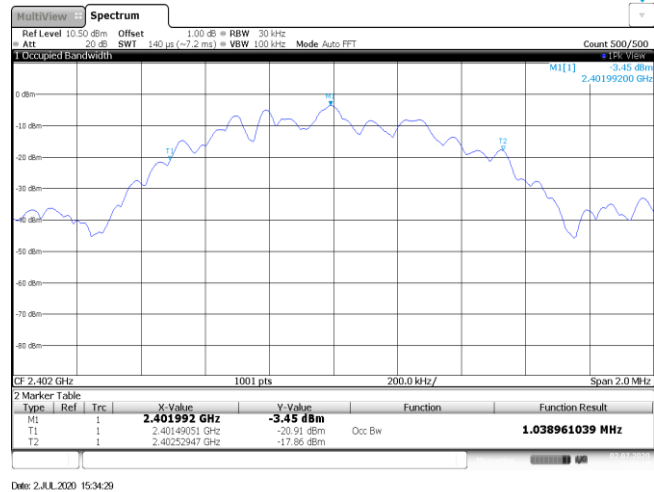
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	740.00	≥500	Pass
	19	748.00		
	39	748.00		



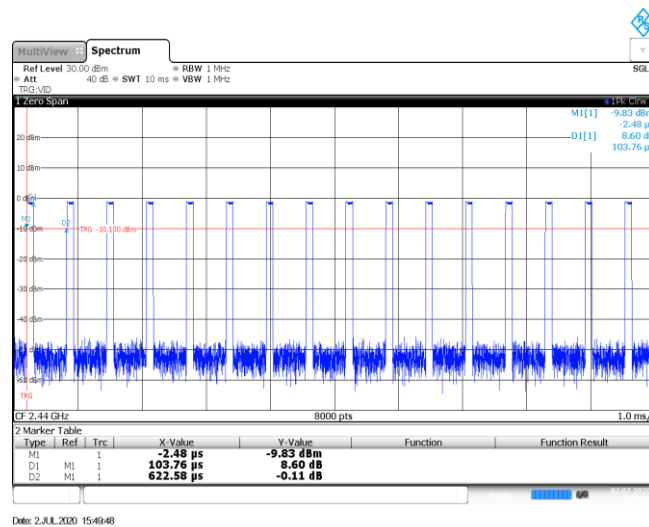
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.04	-	Pass
	19	1.04		
	39	1.05		

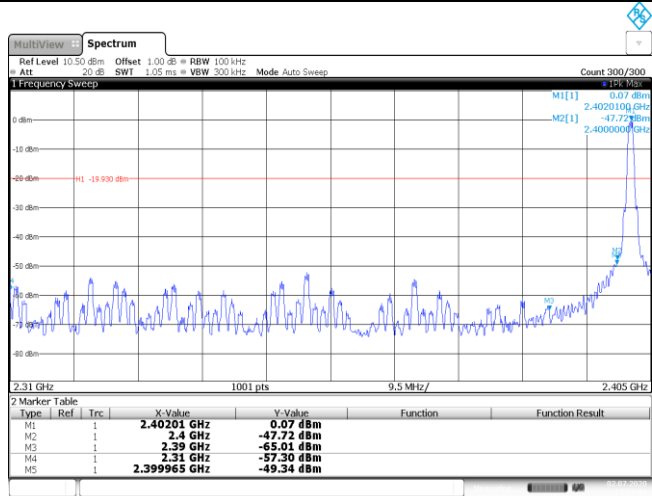
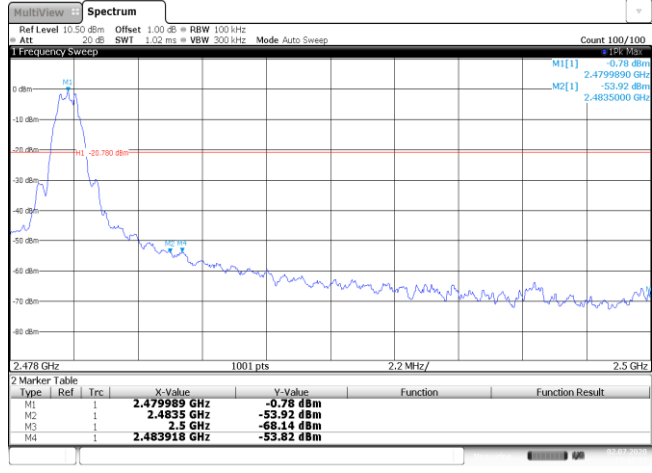


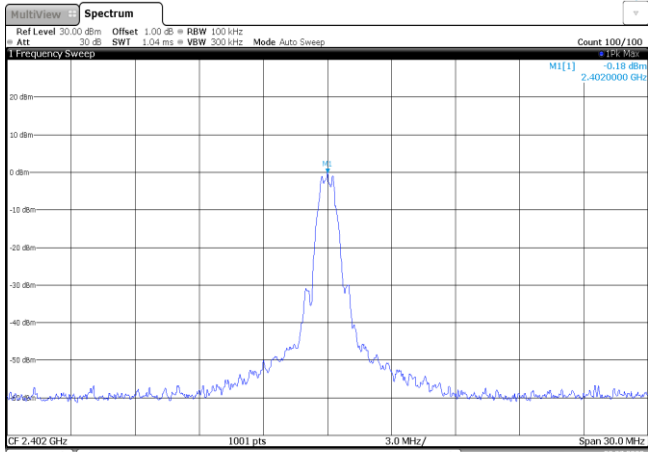
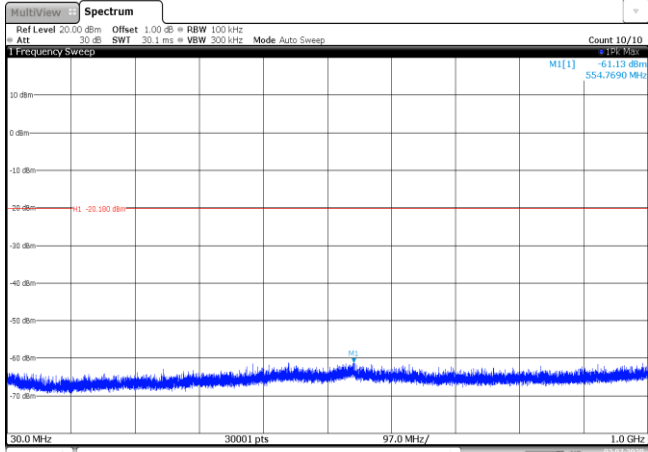
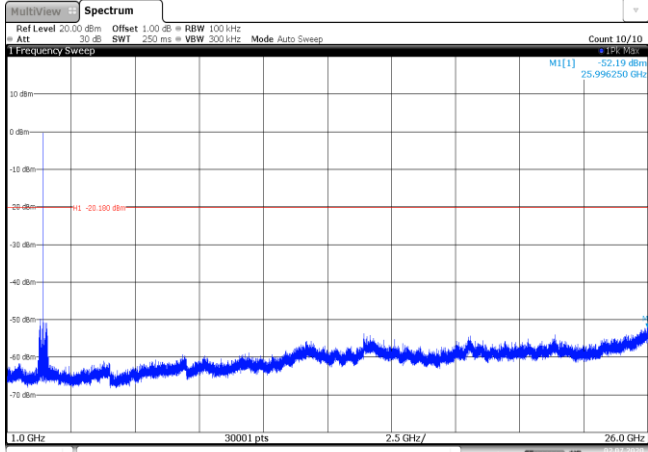
Appendix E: Duty cycle

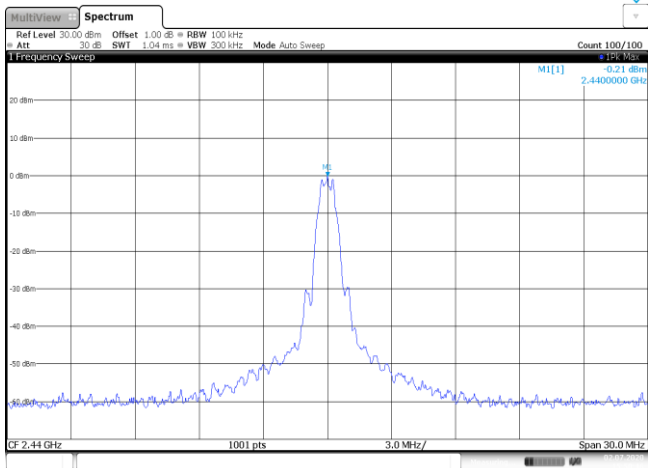
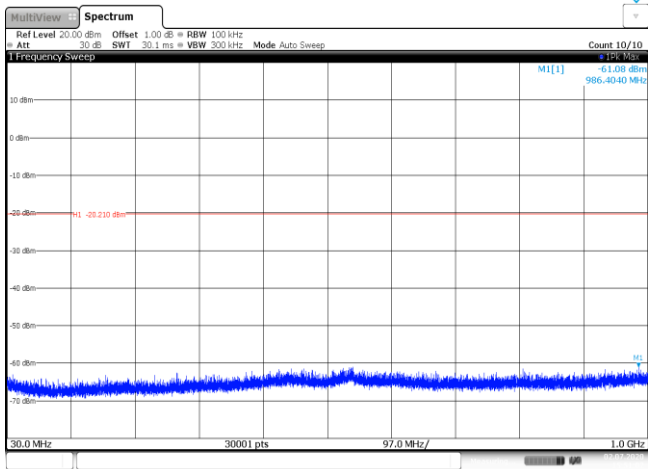
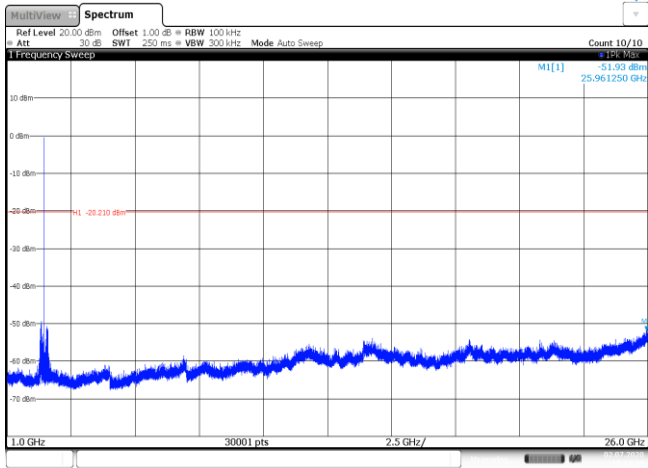
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.10	0.62	16.1%	10.0

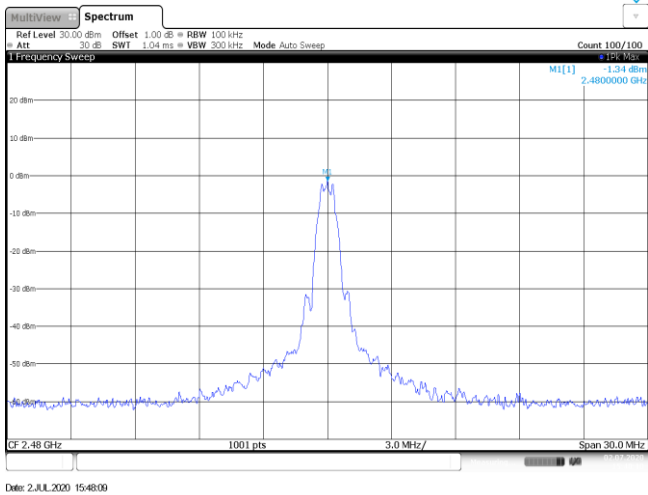
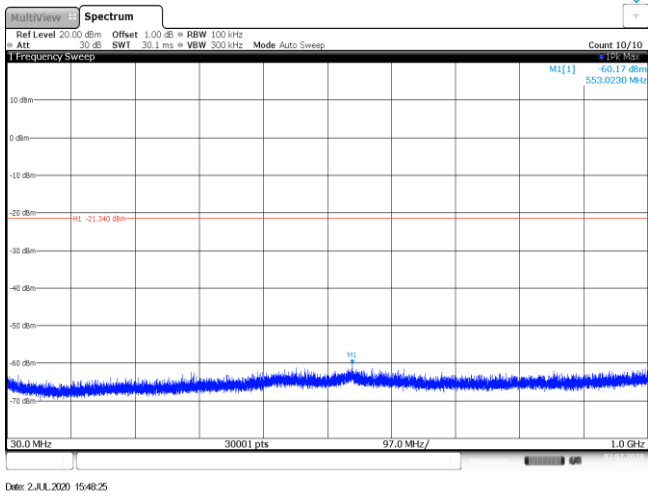
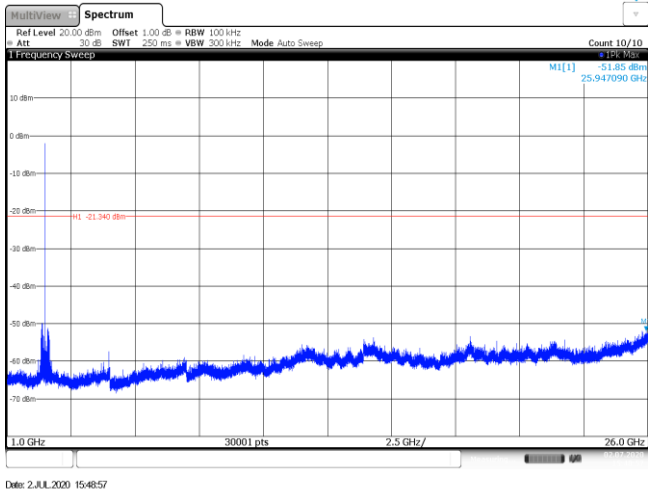


Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
CH00	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.05 ms VBW 300 kHz Mode Auto Sweep Count 300/300 115.420 0.07 dBm 2.402100 GHz -47.72 dBm 2.400000 GHz  2.31 GHz1001 pts9.5 MHz2.405 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>2.40201 GHz</td><td>0.07 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-47.72 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-65.01 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-57.30 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.39965 GHz</td><td>-49.34 dBm</td><td></td><td></td></tr></table> Date: 2.JUL.2020 15:35:04	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	0.07 dBm			M2	1		2.4 GHz	-47.72 dBm			M3	1		2.39 GHz	-65.01 dBm			M4	1		2.31 GHz	-57.30 dBm			M5	1		2.39965 GHz	-49.34 dBm		
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CH39	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.02 ms VBW 300 kHz Mode Auto Sweep Count 100/100 115.420 -0.78 dBm 2.479989 GHz -53.92 dBm 2.483500 GHz  2.478 GHz1001 pts2.2 MHz2.5 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>2.479989 GHz</td><td>-0.78 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-53.92 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-68.14 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483918 GHz</td><td>-53.82 dBm</td><td></td><td></td></tr></table> Date: 2.JUL.2020 15:45:22	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479989 GHz	-0.78 dBm			M2	1		2.4835 GHz	-53.92 dBm			M3	1		2.5 GHz	-68.14 dBm			M4	1		2.483918 GHz	-53.82 dBm									
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Test Item:	SE
CH00 Reference level	 2.402 GHz
CH00 30MHz~1000MHz	 30.0 MHz
CH00 1GHz~26GHz	 1.0 GHz

CH19 Reference level	 2.44 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 2.JUL.2020 15:50:46
CH19 30MHz~1000MHz	 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 2.JUL.2020 15:51:02
CH19 1GHz~26GHz	 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 2.JUL.2020 15:51:40

CH39 Reference level	
CH39 30MHz~1000MHz	
CH39 1GHz~26GHz	

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