

APPENDIX REPORT

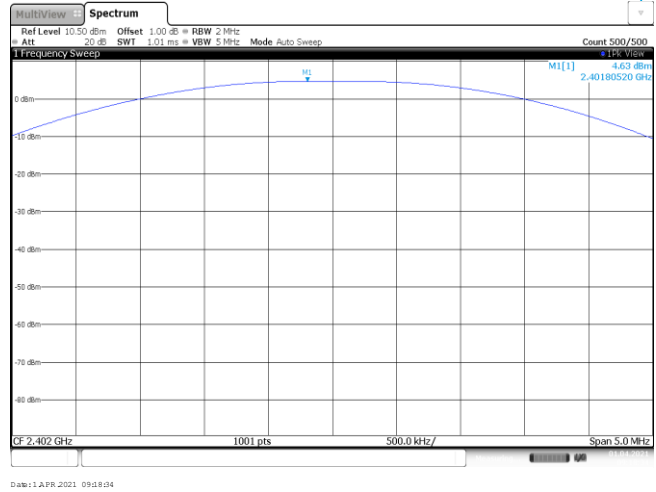
Project No.	SHT2103073001EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21030730004	Model No.	X4
Start test date	2021-04-01	Finish date	2021-04-01
Temperature	24.6°C	Humidity	47%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhu

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

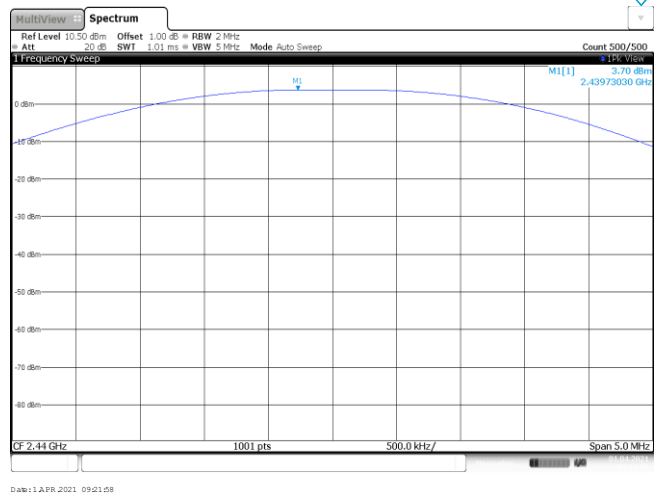
Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	4.63	4.61	≤ 30.00	Pass
	19	3.70	3.69		
	39	2.45	2.44		

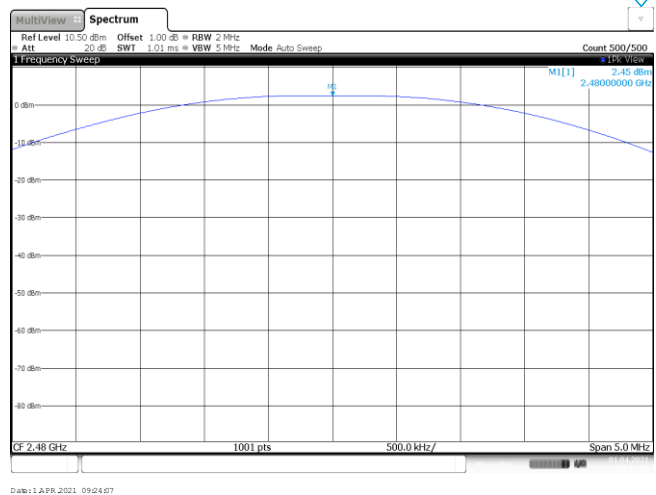
CH00



CH19



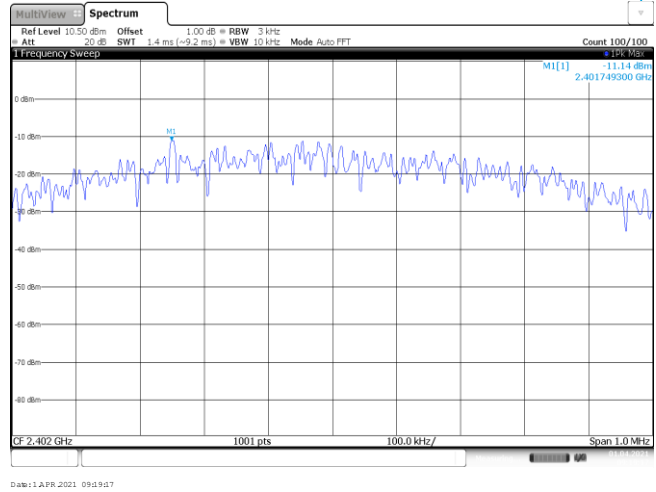
CH39



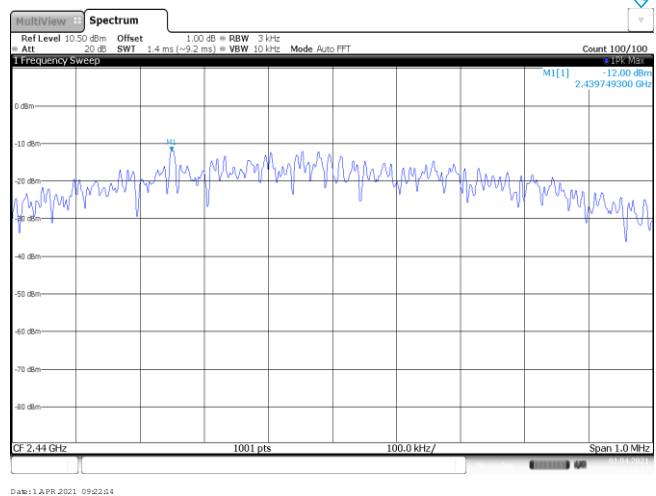
Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-11.14	≤8.00	Pass
	19	-12.00		
	39	-13.36		

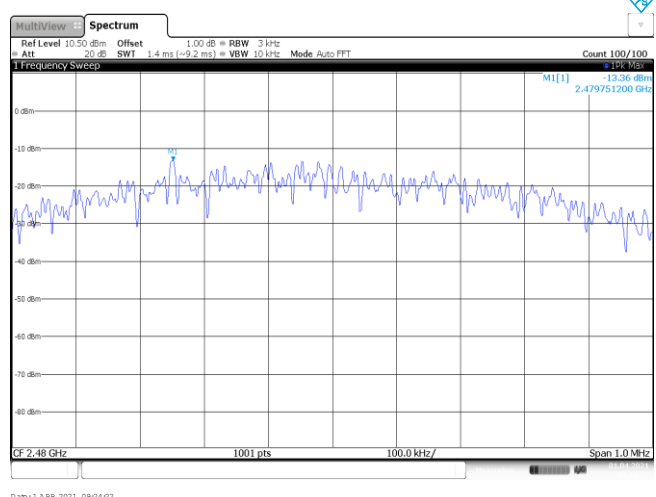
CH00



CH19



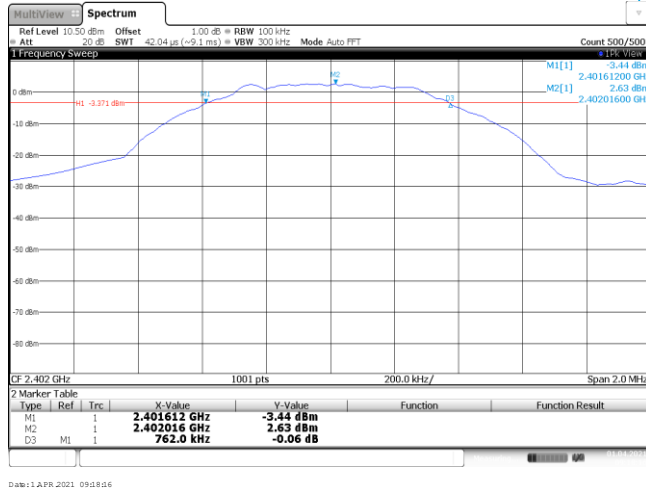
CH39



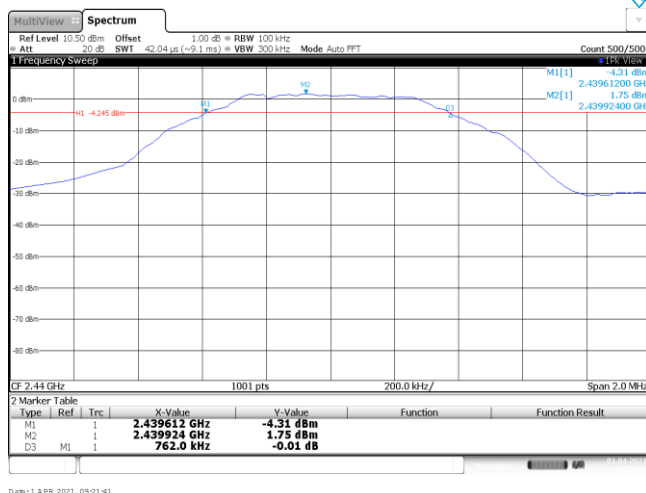
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	762.00	≥500	Pass
	19	762.00		
	39	758.00		

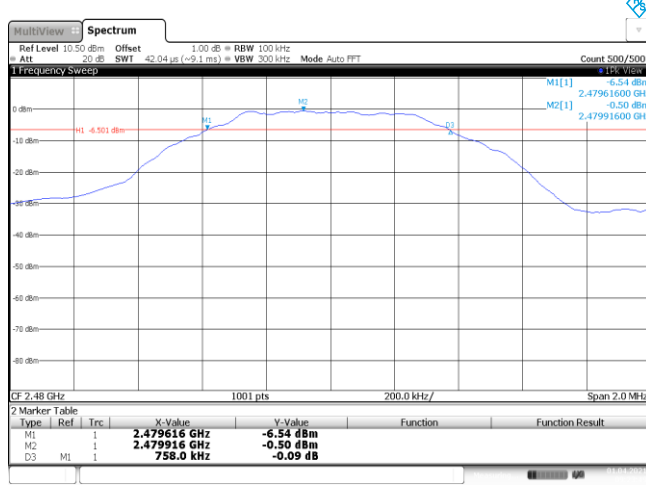
CH00



CH19



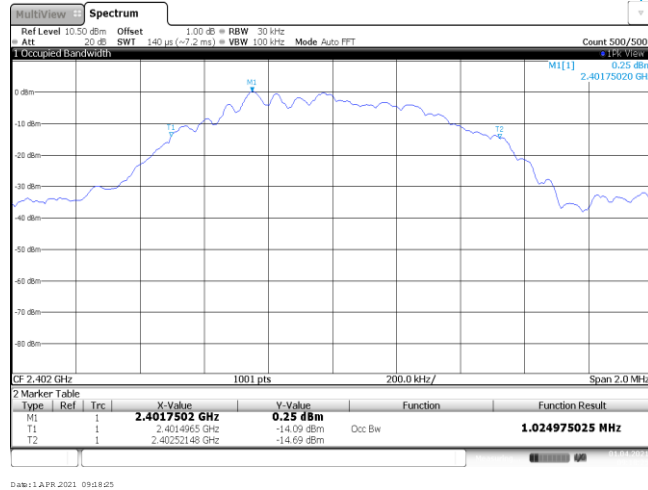
CH39



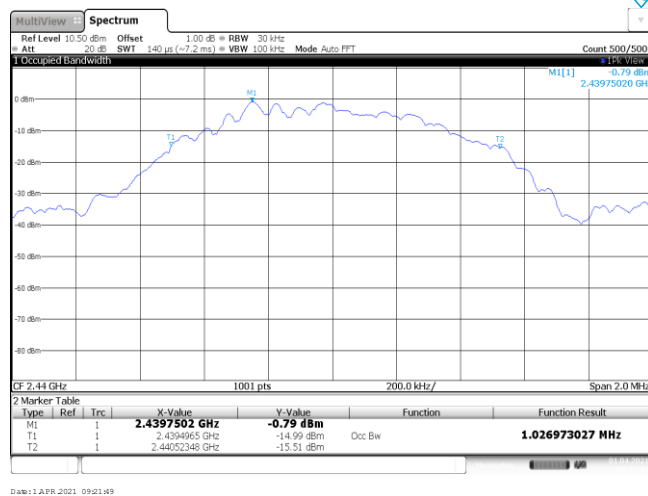
Appendix D: 99% Occupied Bandwidth

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

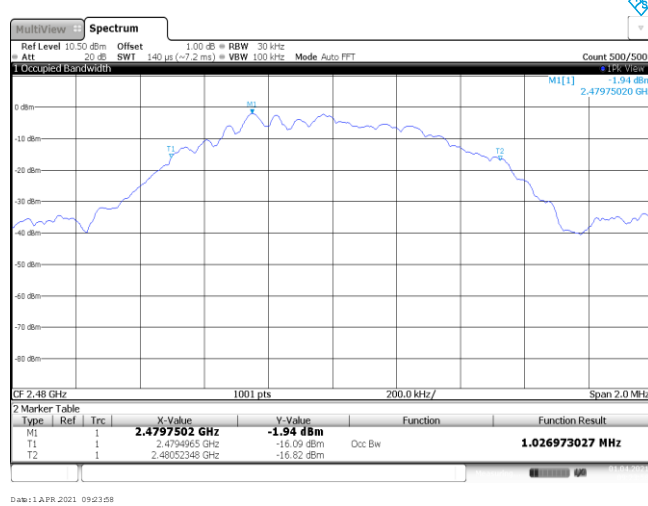
CH00



CH19

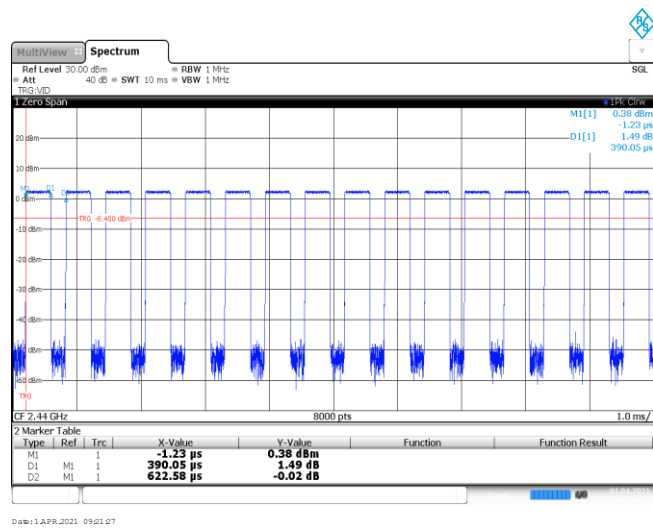


CH39

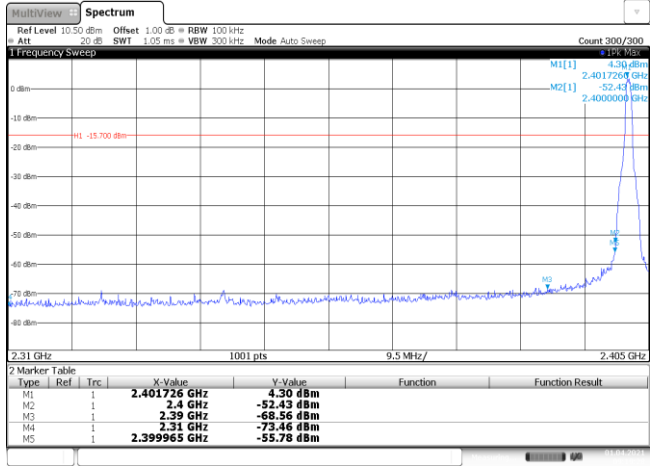
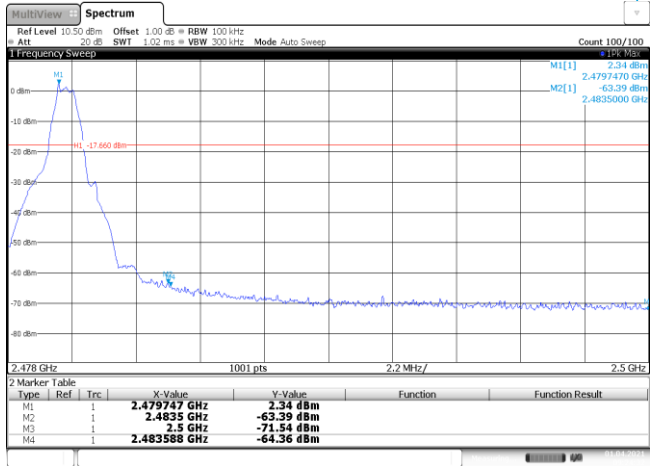


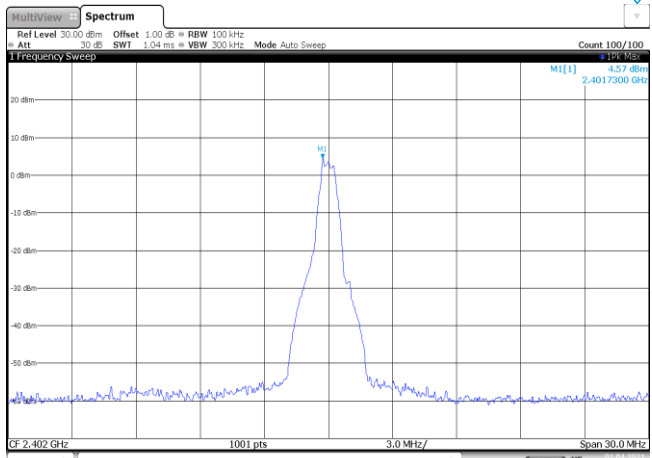
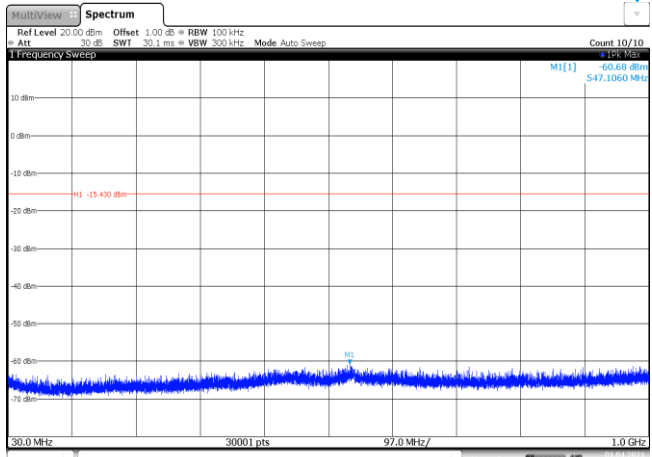
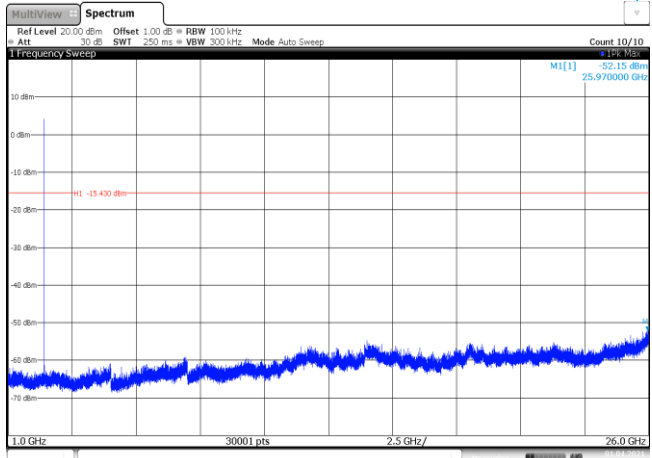
Appendix E: Duty cycle

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

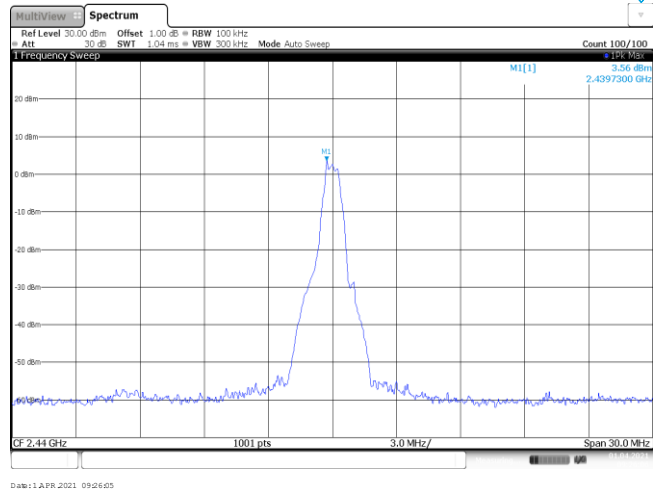


Appendix F: Band edge and Spurious Emissions (conducted)

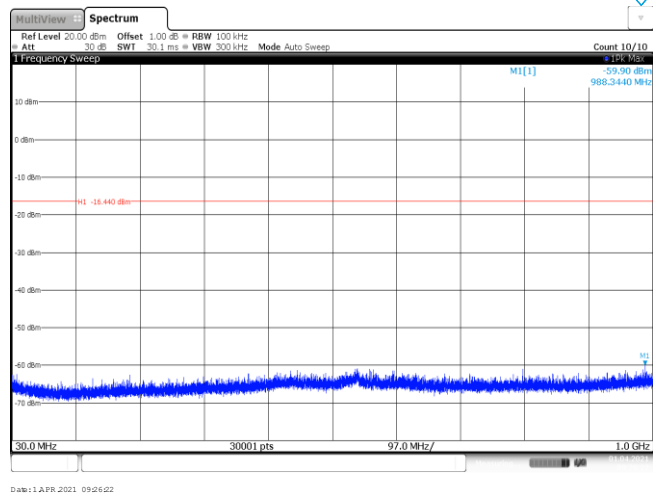
Test Item:	Band edge
<p style="text-align: center;">CH00</p>	 <p style="text-align: center;">Date: 1 APR 2021 09:19:27</p>
<p style="text-align: center;">CH39</p>	 <p style="text-align: center;">Date: 1 APR 2021 09:24:32</p>

Test Item:	SE
<p>CH00 Reference level</p>	 <p>Date: 1 APR 2021 09:19:25</p>
<p>CH00 30MHz~1000MHz</p>	 <p>Date: 1 APR 2021 09:19:01</p>
<p>CH00 1GHz~26GHz</p>	 <p>Date: 1 APR 2021 09:20:07</p>

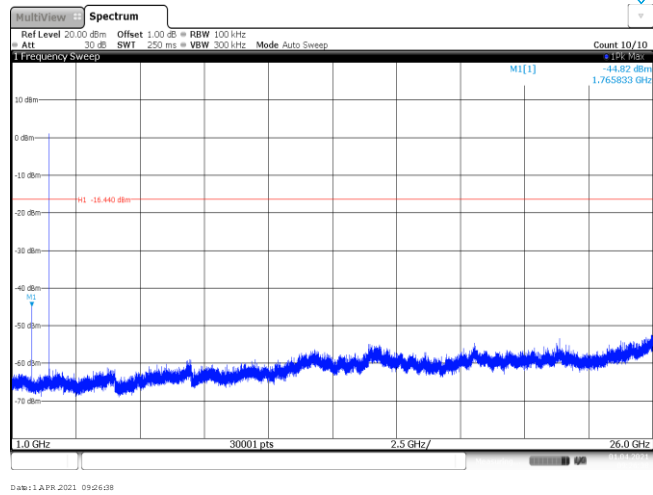
CH19
Reference level

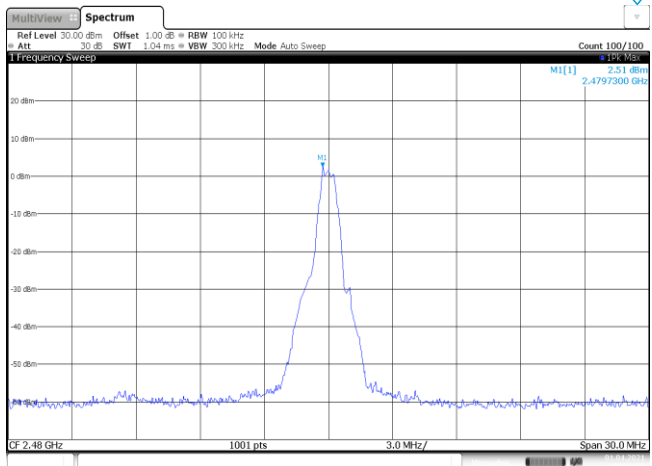
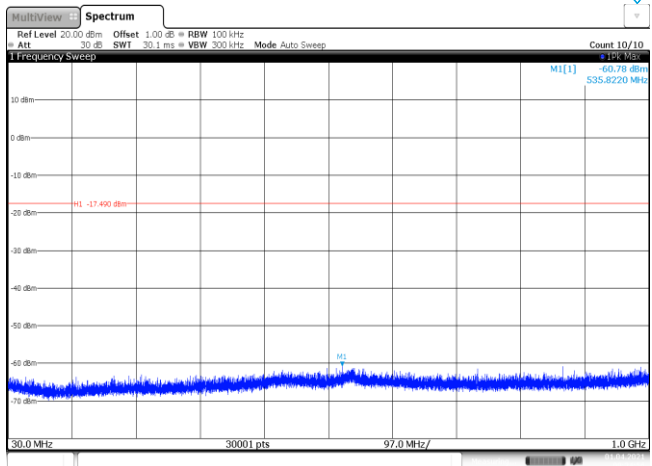
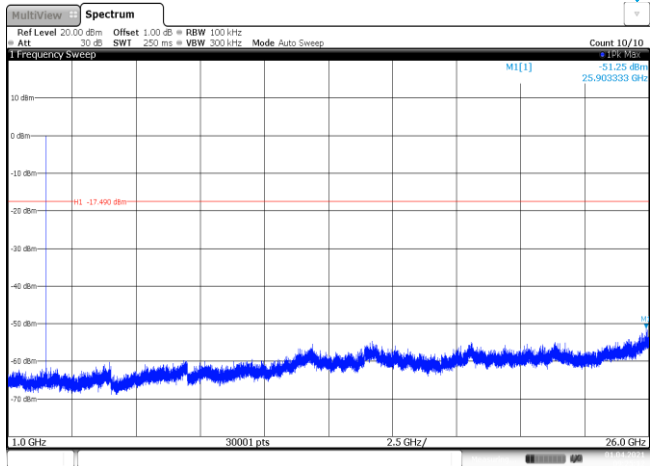


CH19
30MHz~1000MHz



CH19
1GHz~26GHz



<p>CH39 Reference level</p>	 <p>MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 2.51 dBm 2.4797300 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 1 APR 2021 09:24:39</p>
<p>CH39 30MHz~1000MHz</p>	 <p>MultiView Spectrum 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 1 Frequency Sweep M1[1] -17.400 dBm M2[1] -60.75 dBm 535.8220 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 1 APR 2021 09:24:56</p>
<p>CH39 1GHz~26GHz</p>	 <p>MultiView Spectrum 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 1 Frequency Sweep M1[1] -17.400 dBm M2[1] -31.23 dBm 25.903333 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 1 APR 2021 09:25:12</p>

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