

# APPENDIX REPORT

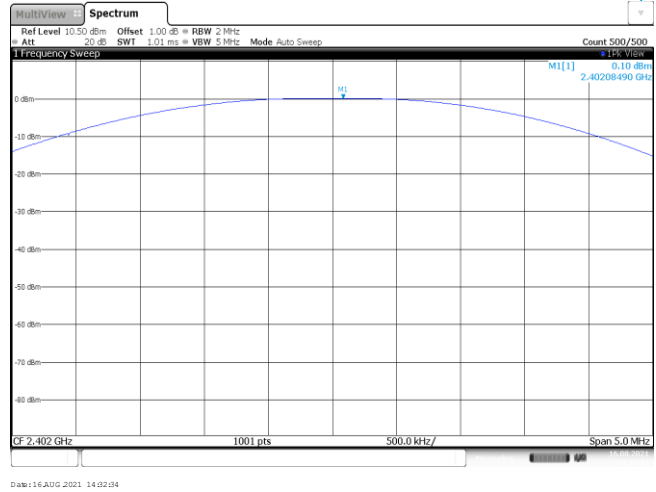
Project No.	SHT2108017501EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21080175003	Model No.	E554
Start test date	2021-08-16	Finish date	2021-08-16
Temperature	25.8°C	Humidity	34%
Test Engineer	Weiyang Xiang	Auditor	Xiaodong Zheo

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

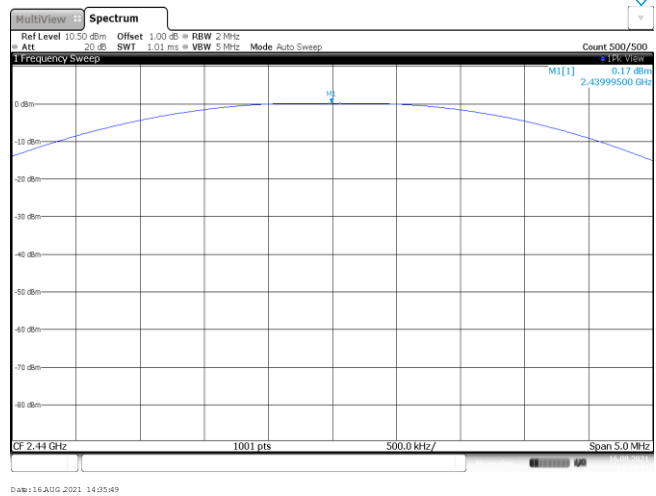
**Appendix A: Peak Output Power**

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	0.10	0.03	≤ 30.00	Pass
	19	0.17	0.07		
	39	0.46	0.39		

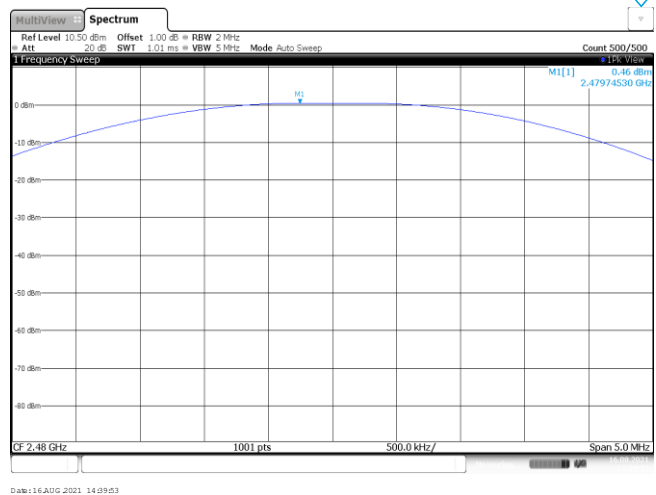
CH00



CH19



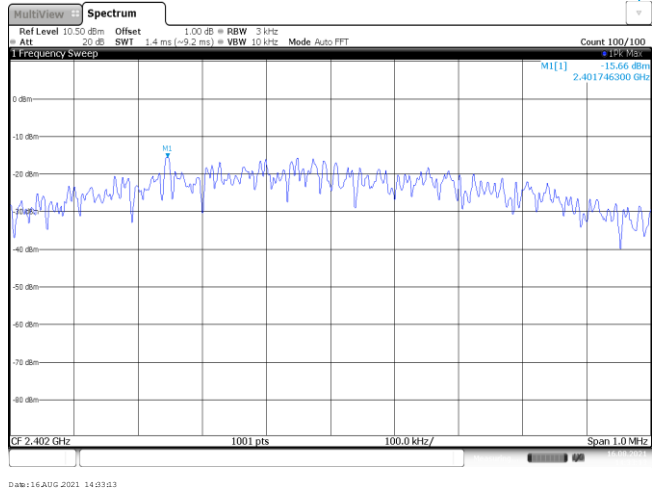
CH39



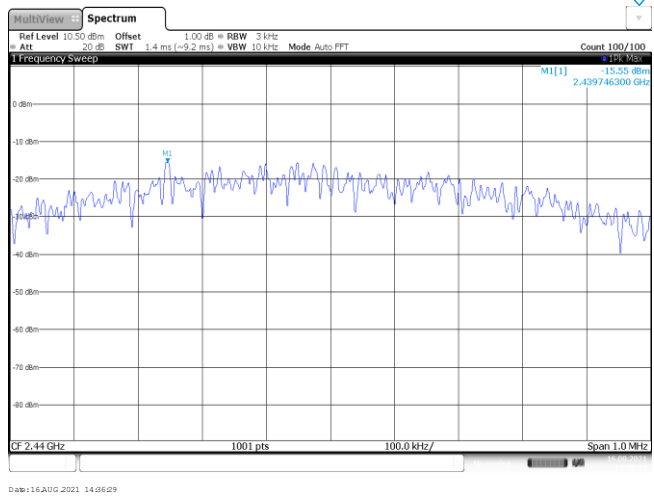
**Appendix B: Power Spectral Density**

Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-15.66	≤8.00	Pass
	19	-15.55		
	39	-15.24		

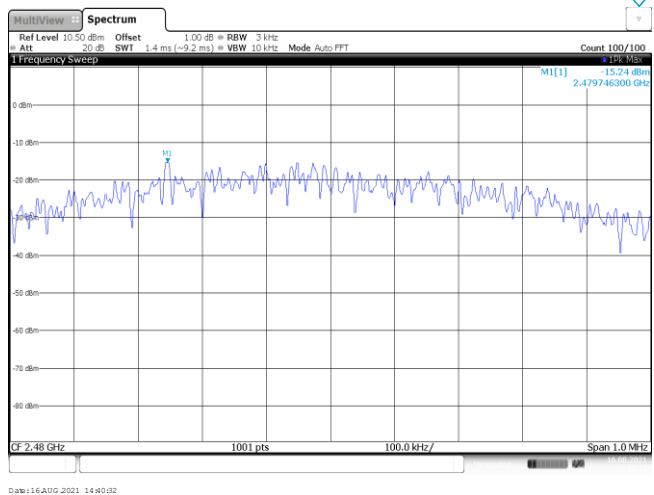
CH00



CH19



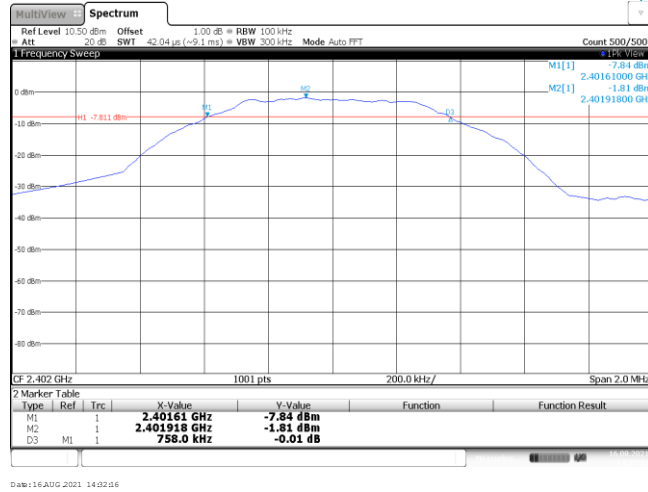
CH39



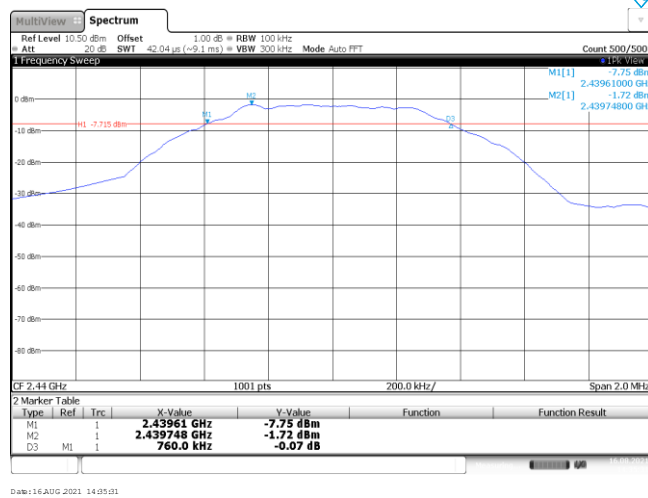
**Appendix C: 6dB bandwidth**

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	758.00	≥500	Pass
	19	760.00		
	39	756.00		

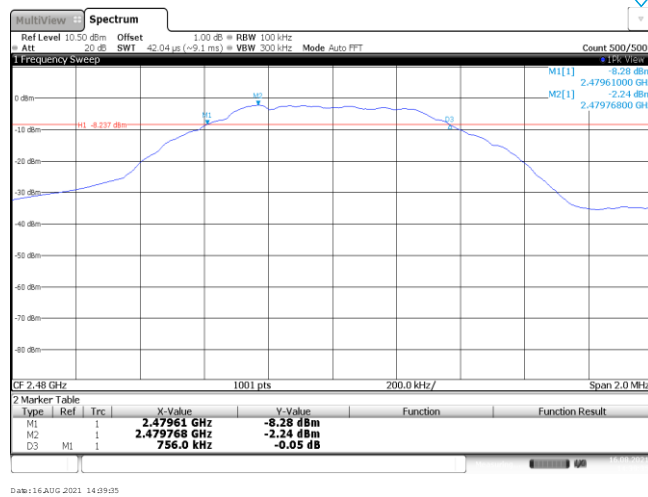
CH00



CH19



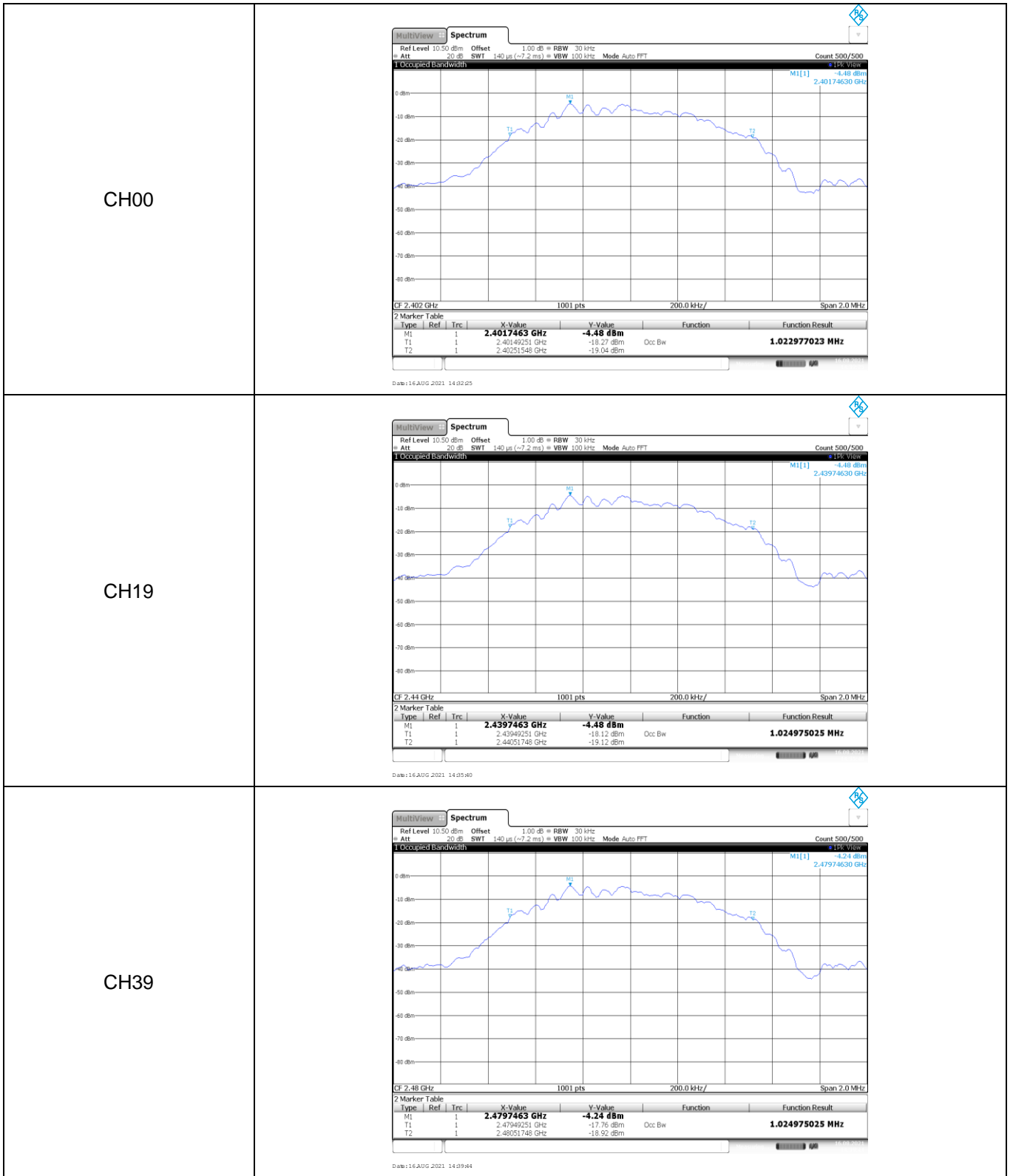
CH39



**Appendix D: 99% Occupied Bandwidth**

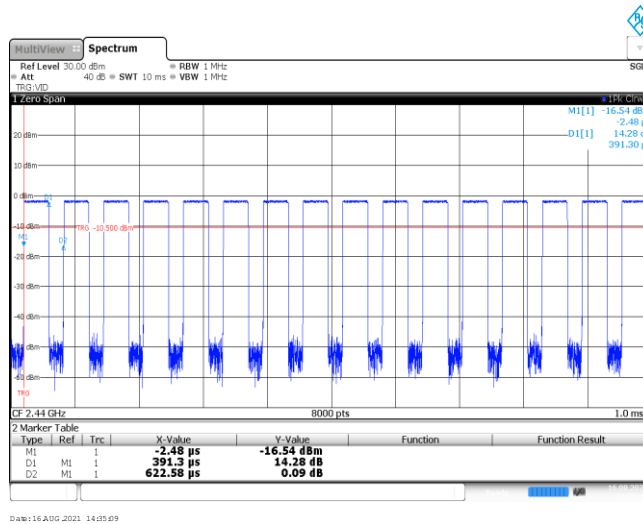
Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.02	-	Pass
	19	1.02		
	39	1.02		



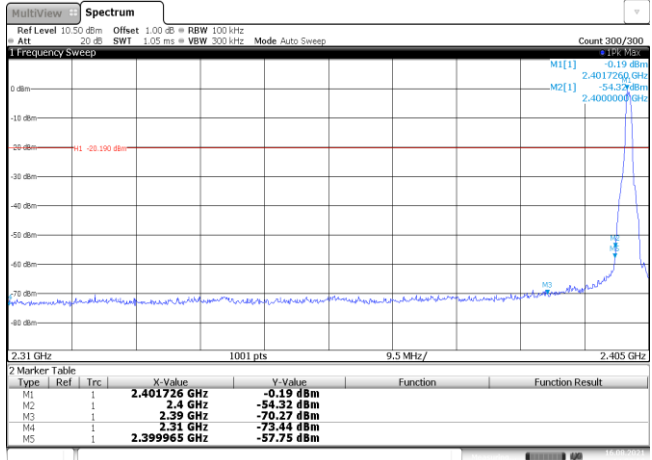
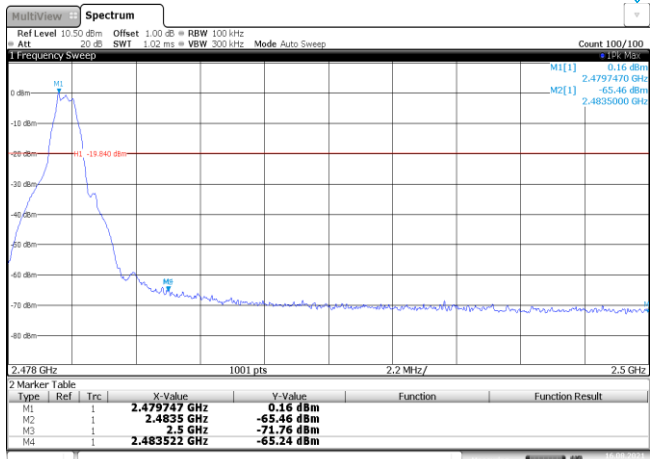


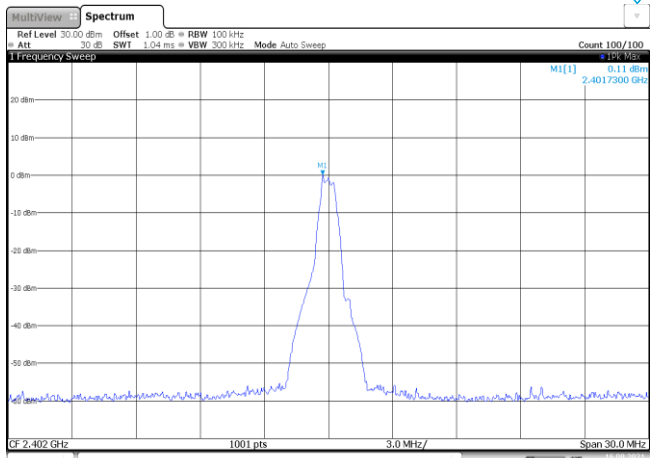
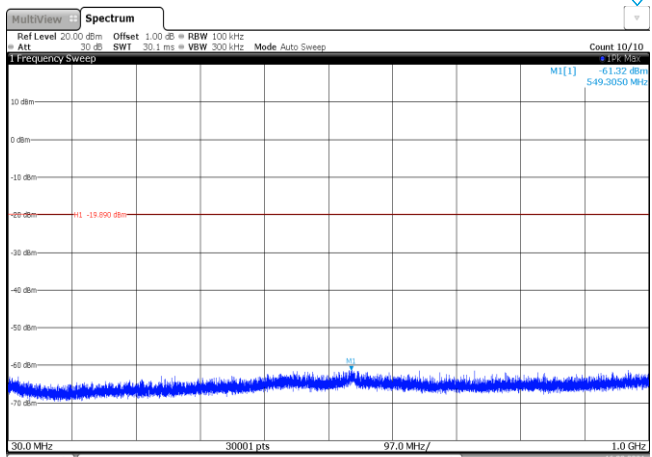
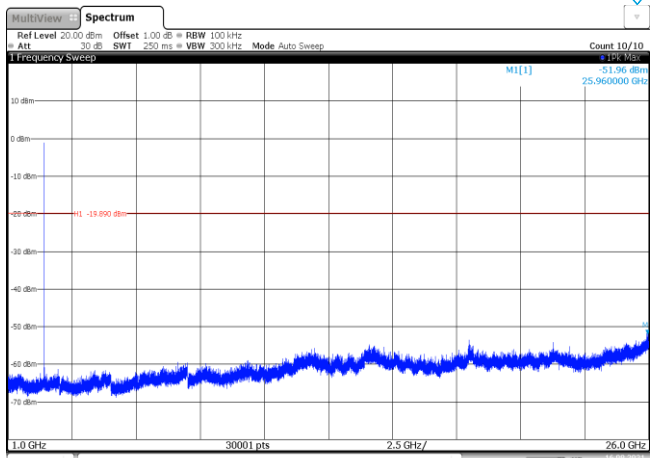
### Appendix E: Duty cycle

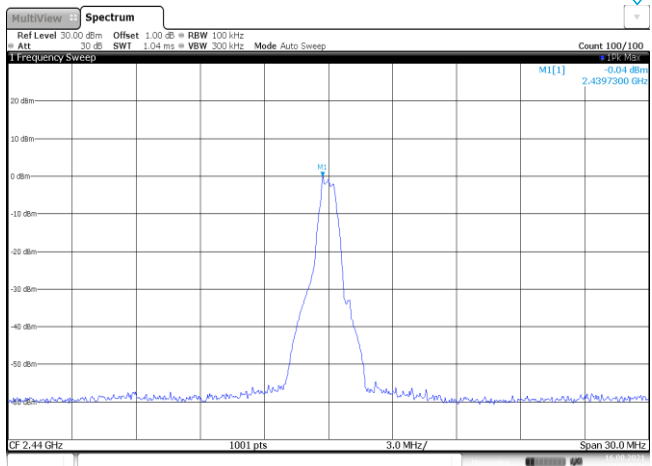
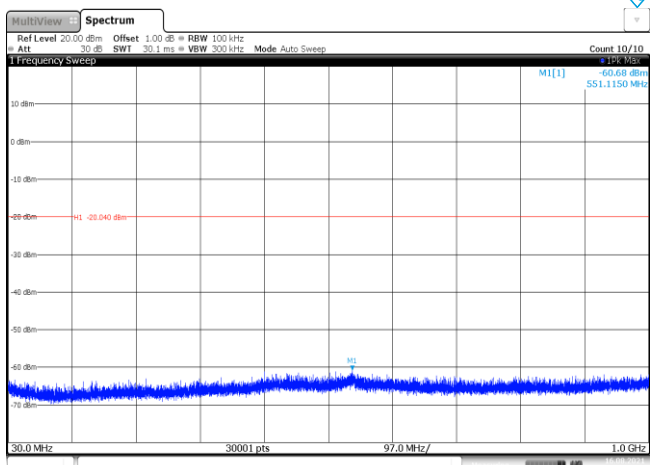
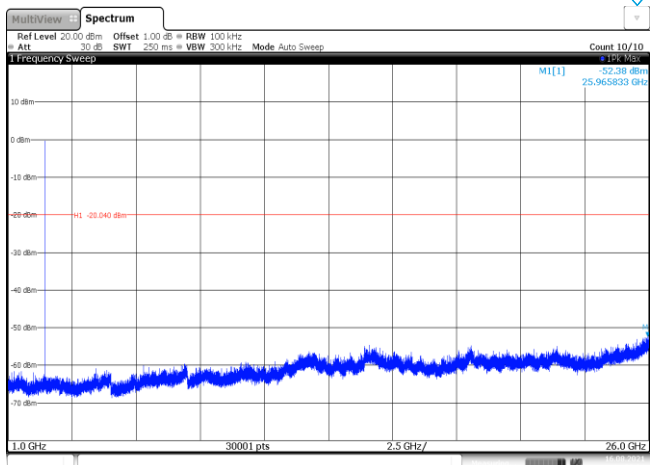
Test Frequency (MHz)	T <sub>on</sub> time for single burst (ms)	T <sub>period</sub> (ms)	Duty cycle	1/T <sub>on</sub> time (kHz)
2440	0.39	0.62	62.9%	2.6



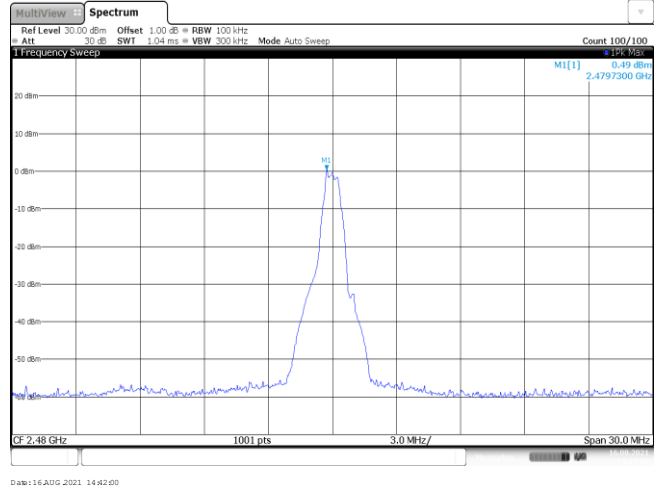
### Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge
<p style="text-align: center;">CH00</p>	 <p style="text-align: center;">Date: 16.AUG 2021 14:33:02</p>
<p style="text-align: center;">CH39</p>	 <p style="text-align: center;">Date: 16.AUG 2021 14:30:51</p>

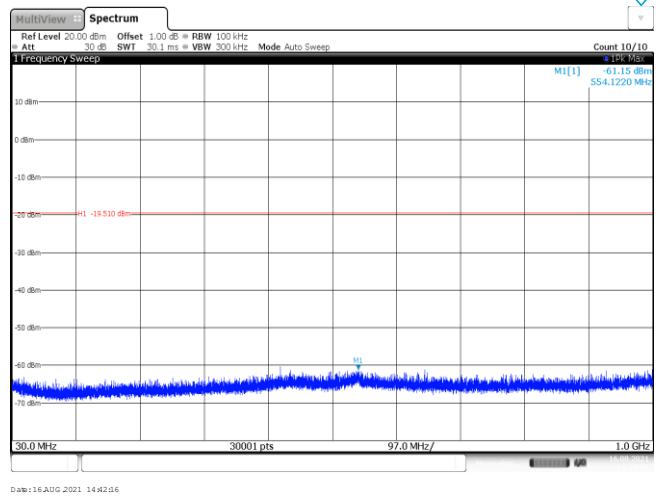
Test Item:	SE
<p>CH00 Reference level</p>	 <p>MultiView Spectrum                      Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz                      Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep                      Count 100/100                      Frequency Sweep                      M1[1] -1.11 dBm                      2.4017300 GHz                      CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz                      Date: 16.AUG.2021 14:04:04</p>
<p>CH00 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                      Frequency Sweep                      M1[1] -61.52 dBm                      549.3050 MHz                      M1 -15.890 dBm                      30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz                      Date: 16.AUG.2021 14:04:21</p>
<p>CH00 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                      Frequency Sweep                      M1[1] -51.06 dBm                      25.960000 GHz                      M1 -15.890 dBm                      1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz                      Date: 16.AUG.2021 14:04:37</p>

<p>CH19 Reference level</p>	 <p>MultiView Spectrum          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          1 Frequency Sweep          M1[1] 0.01 dBm          2.4397300 GHz          CF 2.44 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz          Date: 16 AUG 2021 14:58:21</p>
<p>CH19 30MHz~1000MHz</p>	 <p>MultiView Spectrum          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          1 Frequency Sweep          M1[1] -60.66 dBm          551.1150 MHz          H1 -60.040 dBm          30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz          Date: 16 AUG 2021 14:58:48</p>
<p>CH19 1GHz~26GHz</p>	 <p>MultiView Spectrum          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          1 Frequency Sweep          M1[1] -62.28 dBm          25.965833 GHz          H1 -60.040 dBm          1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz          Date: 16 AUG 2021 14:59:24</p>

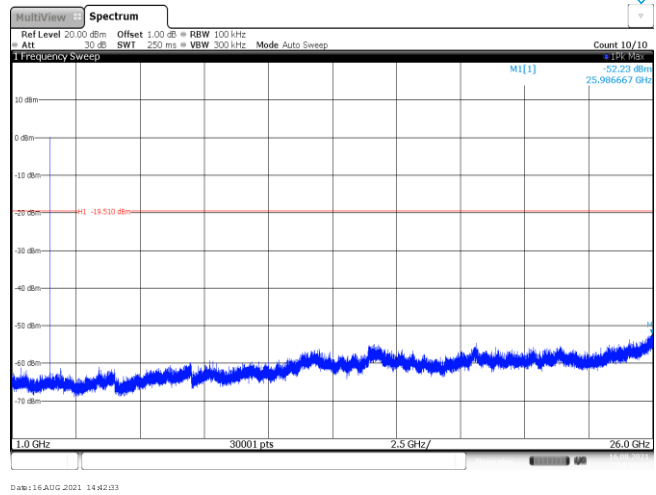
CH39  
Reference level



CH39  
30MHz~1000MHz



CH39  
1GHz~26GHz



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