

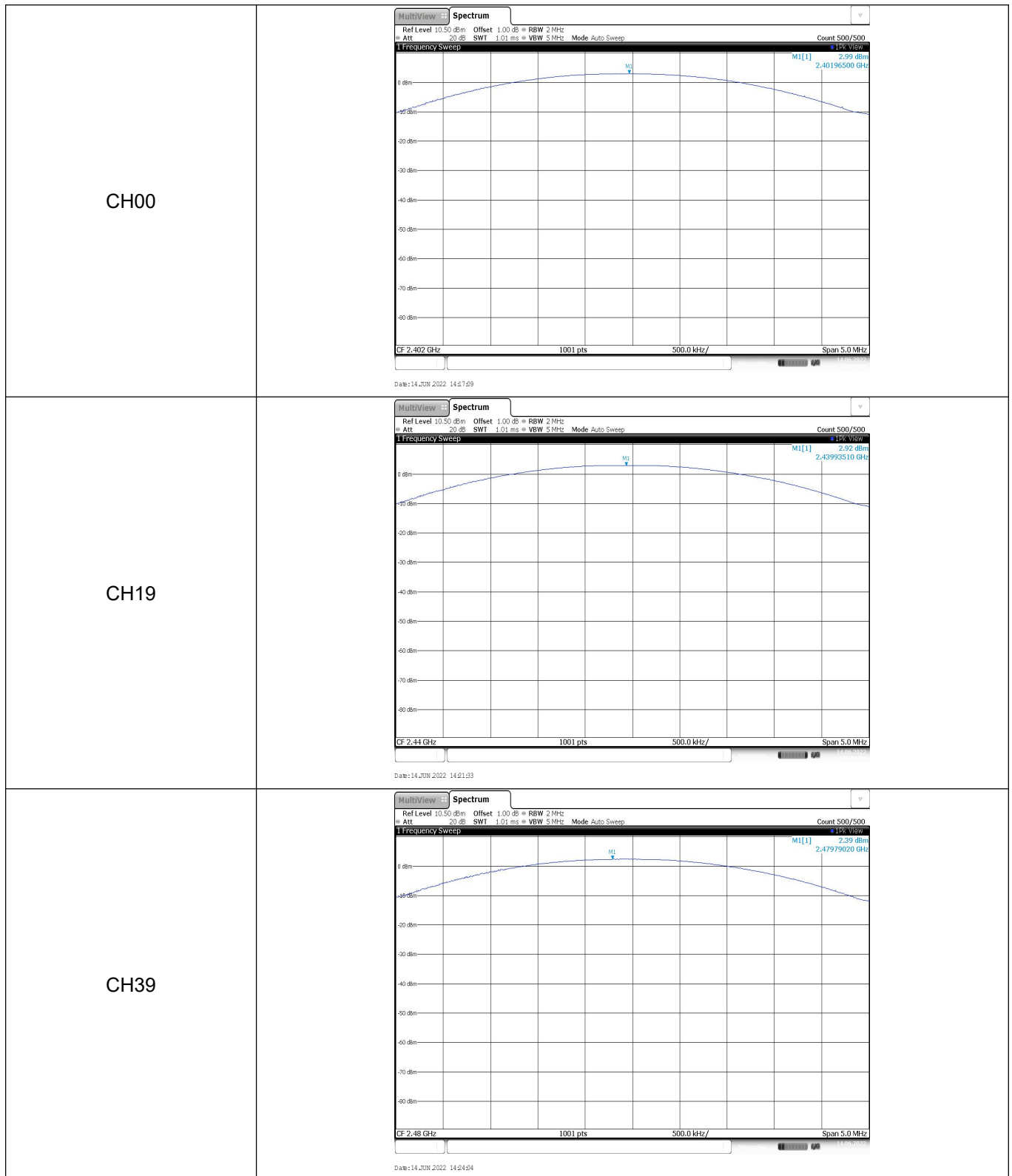
APPENDIX REPORT

Project No.	SHT2206007601EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT22060076002	Model No.	YK-83C
Start test date	2022-06-14	Finish date	2022-06-14
Temperature	25.3℃	Humidity	32%
Test Engineer	Hailey 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

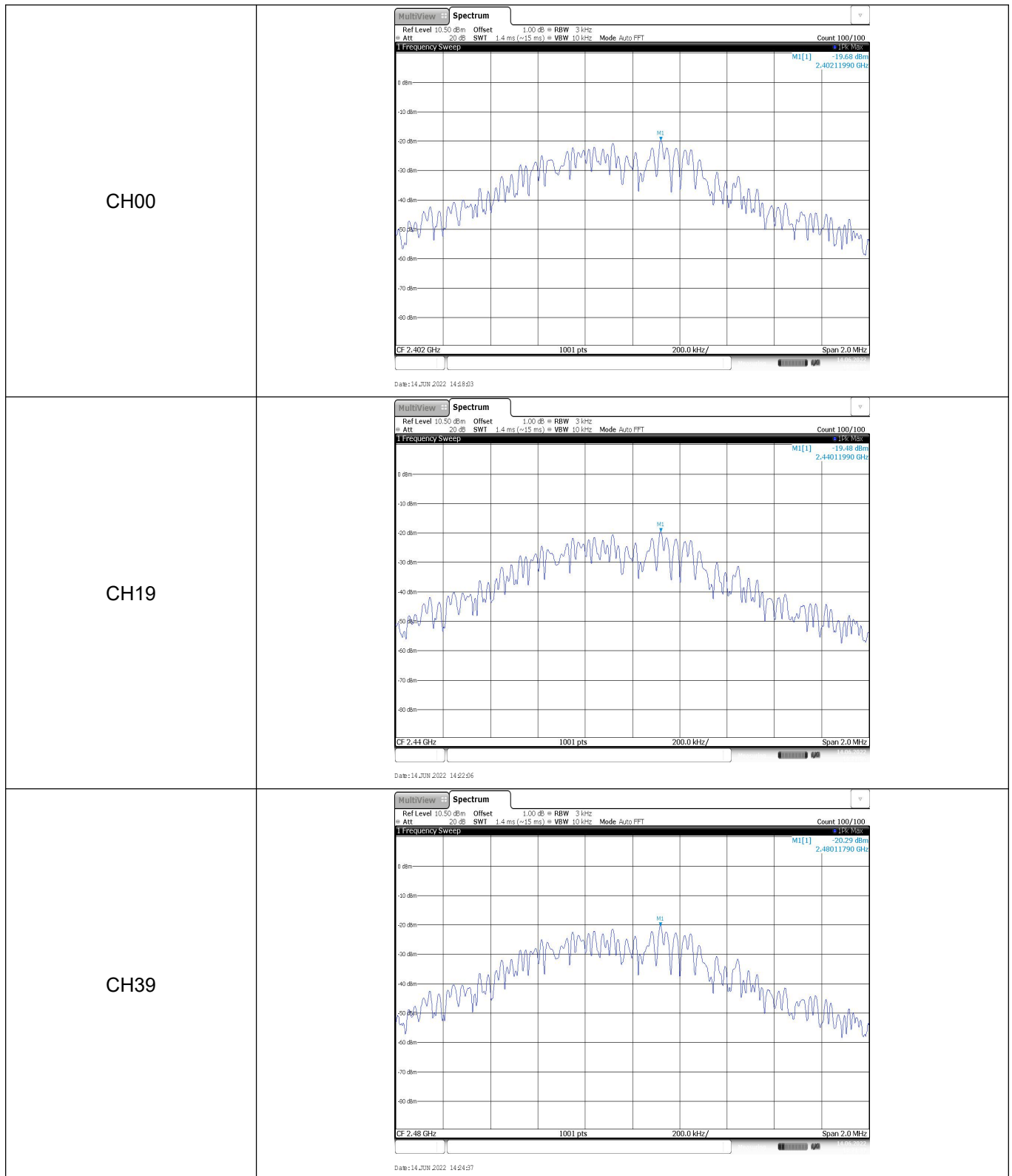
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	2.99	2.60	≤ 30.00	Pass
	19	2.92	2.69		
	39	2.39	2.10		



Appendix B: Power Spectral Density

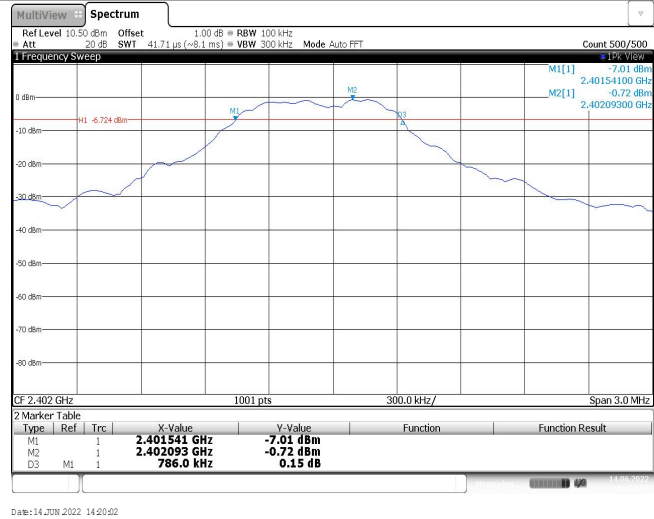
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-19.68	≤8.00	Pass
	19	-19.48		
	39	-20.29		



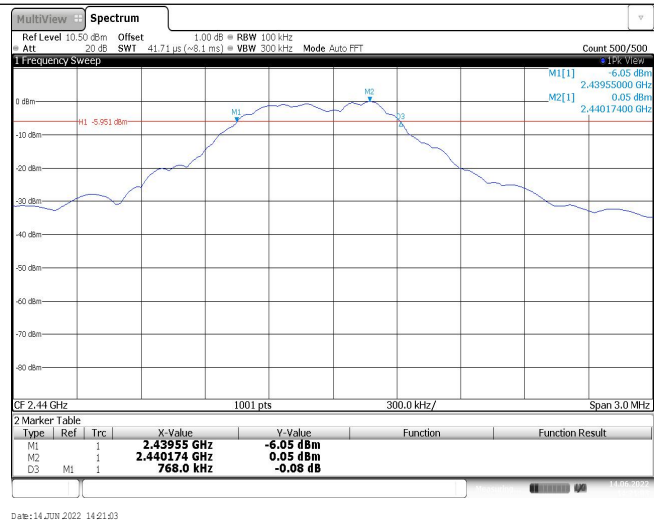
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	786.00	≥500	Pass
	19	768.00		
	39	774.00		

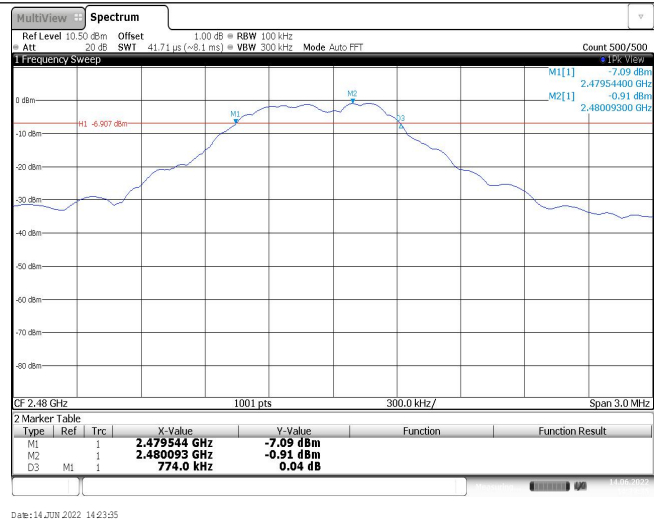
CH00



CH19



CH39



Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.23	-	Pass
	19	1.21		
	39	1.22		

CH00



CH19

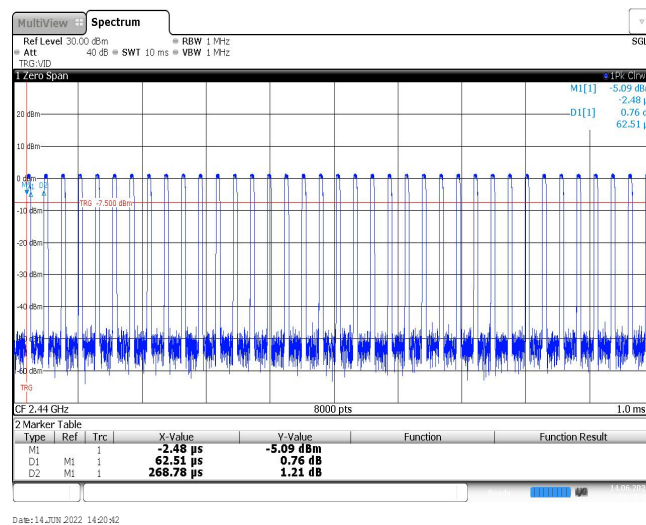


CH39



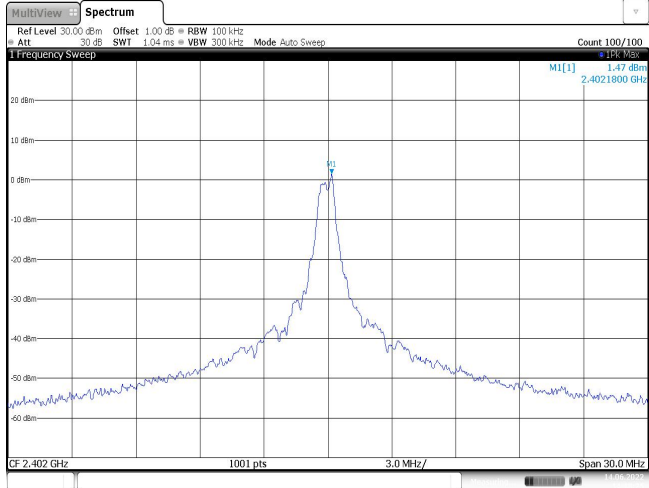
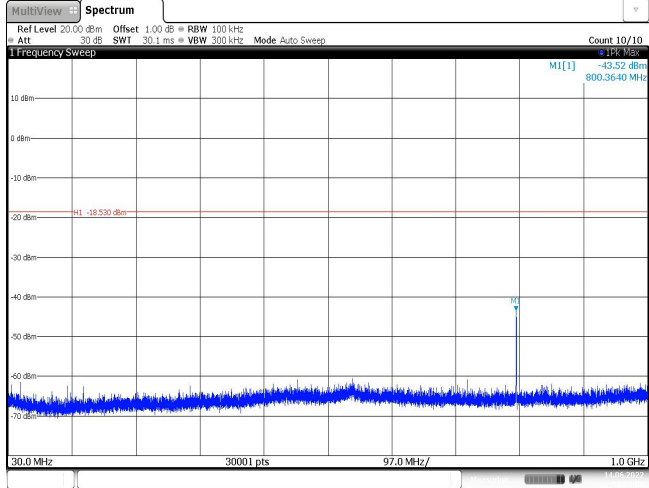
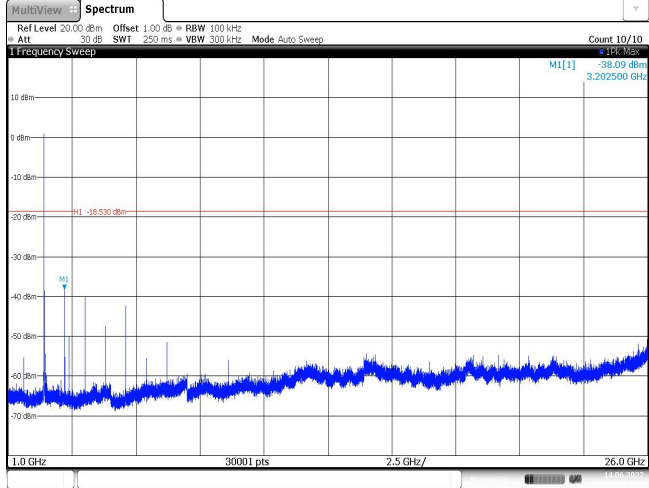
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.06	0.27	22.2%	16.7

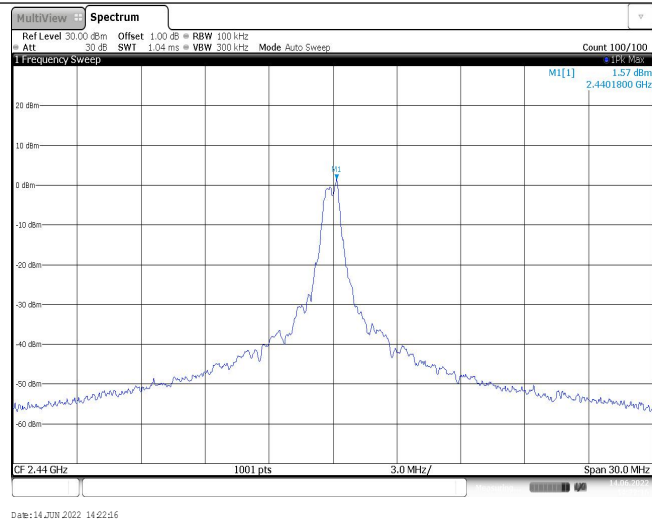


Appendix F: Band edge and Spurious Emissions (conducted)

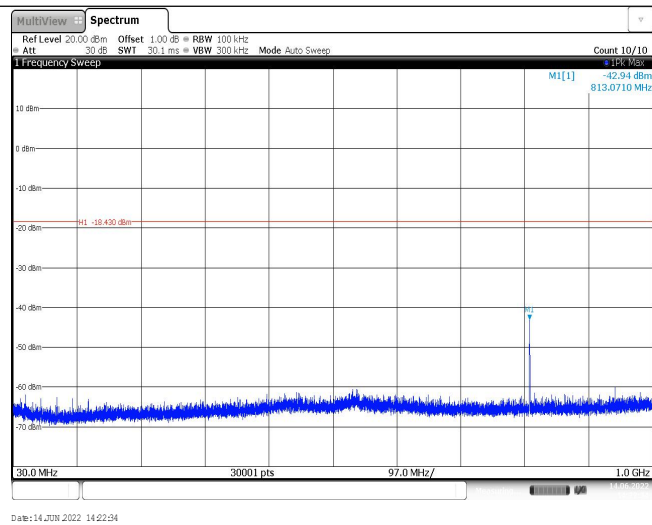
Test Item:	Band edge																																										
CH00	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.05 ms VBW 300 kHz Mode Auto Sweep Count 200/200 1 Frequency Sweep 0 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm 60 dBm 70 dBm 80 dBm 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz M1 1.22 dBm 2.402200 GHz M2 -38.48 dBm 2.400000 GHz <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>2.4022 GHz</td><td>1.22 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-38.48 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-56.79 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-72.54 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.39949 GHz</td><td>-37.04 dBm</td><td></td><td></td></tr></table> Date: 14 JUN 2022 14:18:15	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4022 GHz	1.22 dBm			M2	1		2.4 GHz	-38.48 dBm			M3	1		2.39 GHz	-56.79 dBm			M4	1		2.31 GHz	-72.54 dBm			M5	1		2.39949 GHz	-37.04 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 1 Frequency Sweep 0 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm 60 dBm 70 dBm 80 dBm 2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz M1 0.70 dBm 2.480165 GHz M2 -43.26 dBm 2.483500 GHz <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>2.480165 GHz</td><td>0.70 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-43.26 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-61.78 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483632 GHz</td><td>-43.68 dBm</td><td></td><td></td></tr></table> Date: 14 JUN 2022 14:24:52	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.480165 GHz	0.70 dBm			M2	1		2.4835 GHz	-43.26 dBm			M3	1		2.5 GHz	-61.78 dBm			M4	1		2.483632 GHz	-43.68 dBm									
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M4	1		2.483632 GHz	-43.68 dBm																																							

Test Item:	SE
CH00 Reference level	 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] 1.47 dBm 2.4021800 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 14 JUN 2022 14:58:26
CH00 30MHz~1000MHz	 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] -43.52 dBm 890.3640 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 14 JUN 2022 14:59:08
CH00 1GHz~26GHz	 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] -35.09 dBm 3.202599 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 14 JUN 2022 14:59:26

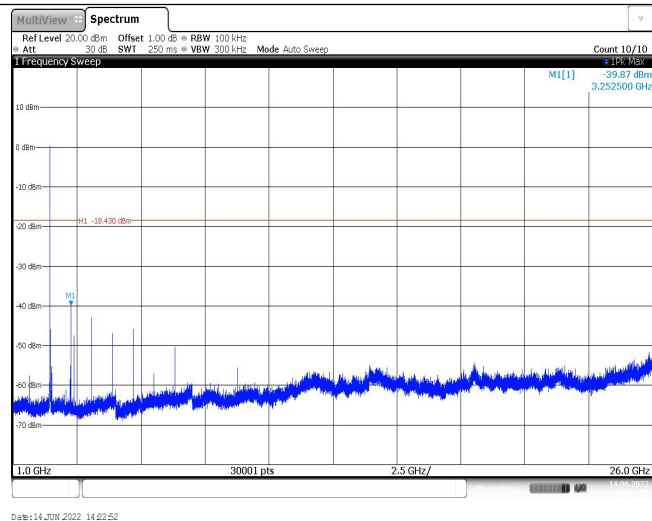
CH19
Reference level



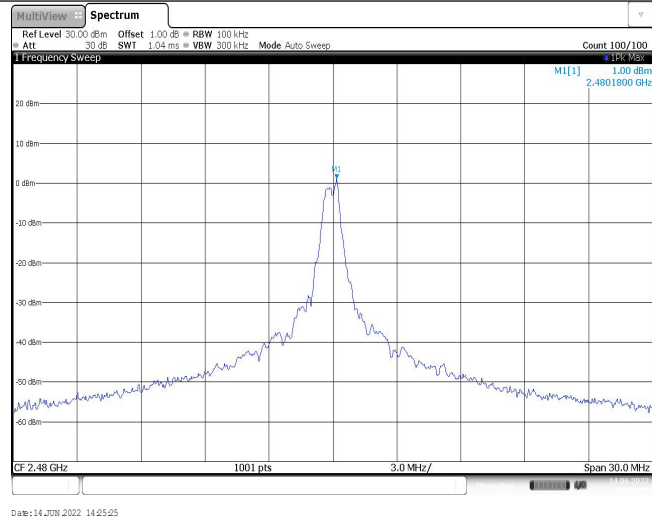
CH19
30MHz~1000MHz



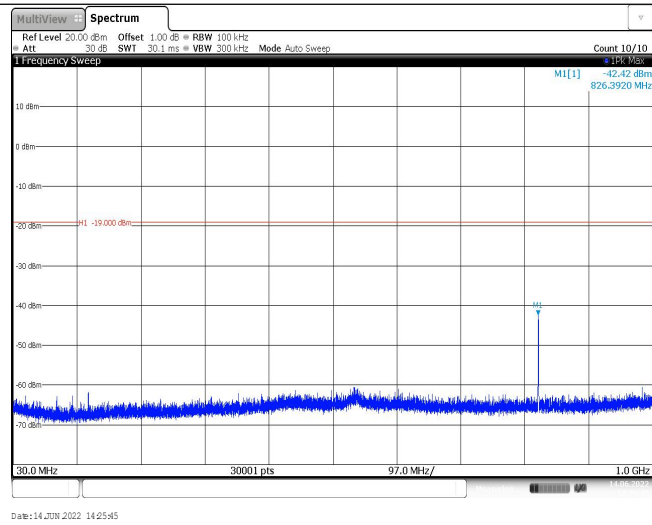
CH19
1GHz~26GHz



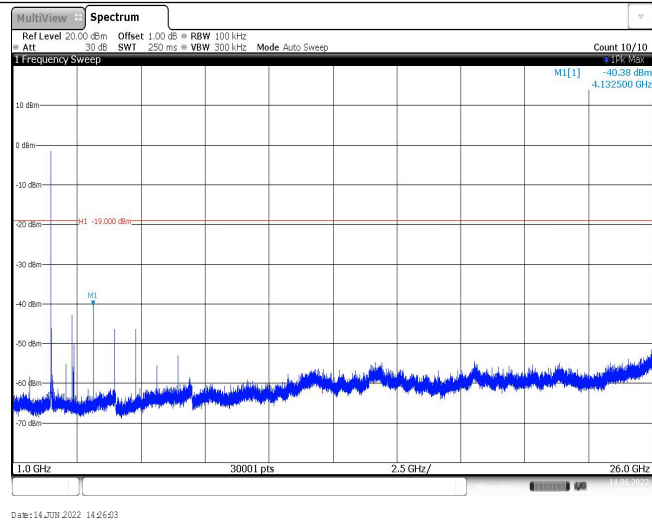
CH39
Reference level



CH39
30MHz~1000MHz



CH39
1GHz~26GHz



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