

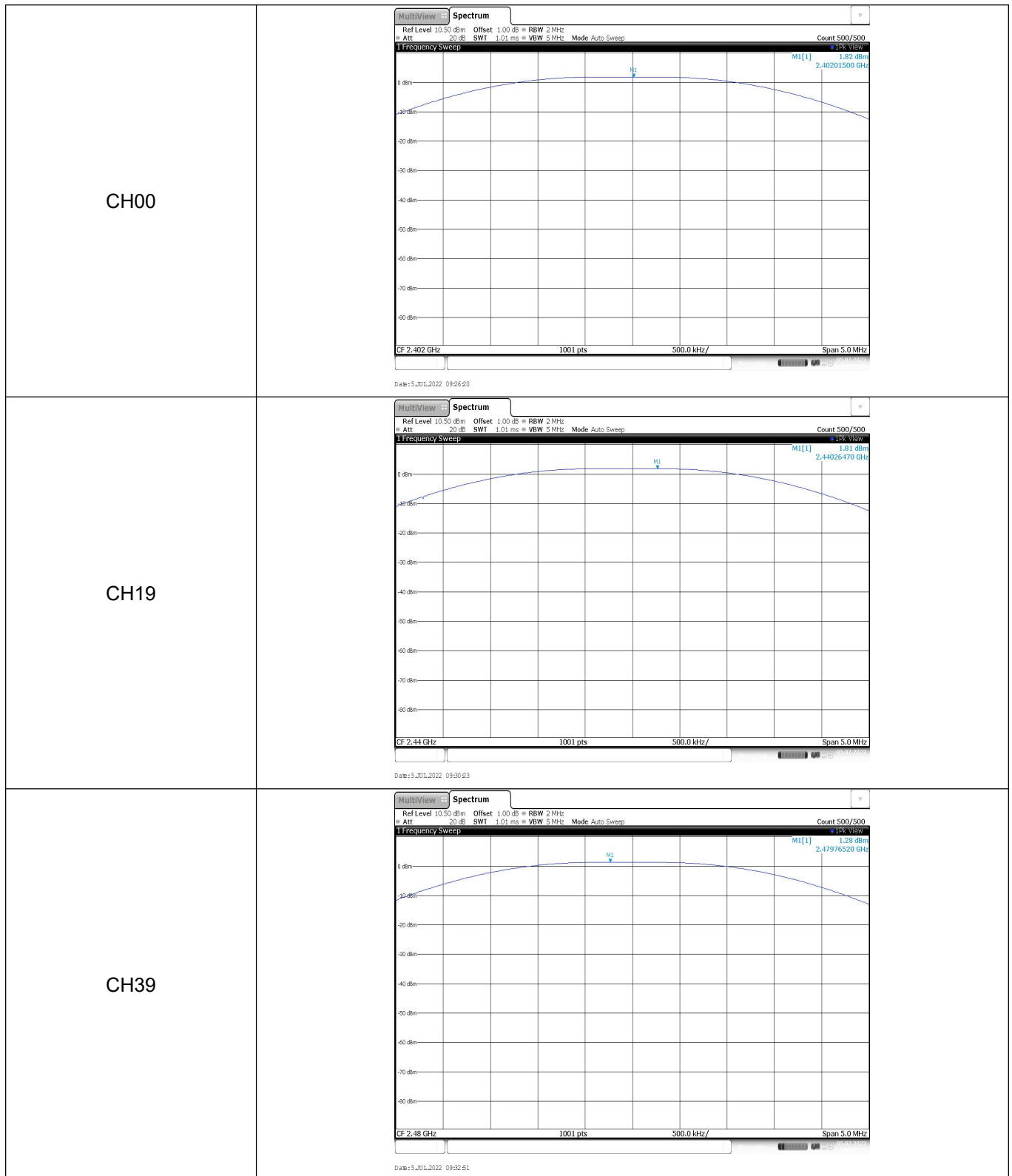
APPENDIX REPORT

Project No.	SHT2206082505EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT22060825004	Model No.	AOJ-33B
Start test date	2022-07-05	Finish date	2022-07-05
Temperature	26.1℃	Humidity	41%
Test Engineer	Xiaoqin Li	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

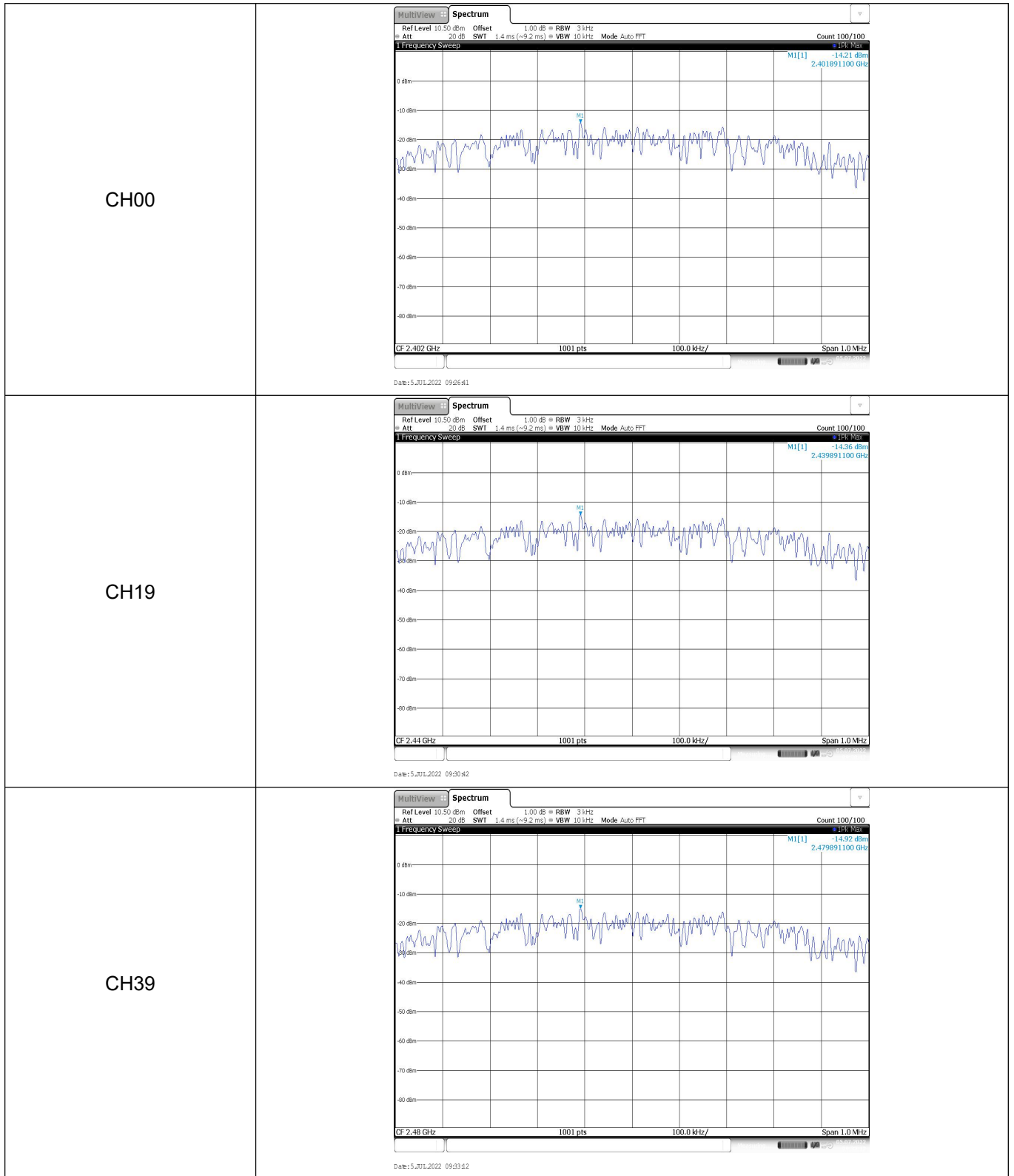
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	1.82	1.81	≤ 30.00	Pass
	19	1.81	1.79		
	39	1.28	1.26		



Appendix B: Power Spectral Density

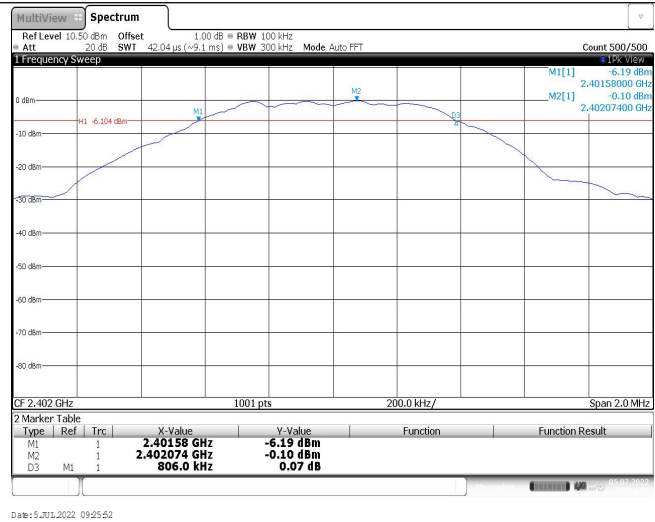
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-14.21	≤8.00	Pass
	19	-14.36		
	39	-14.92		



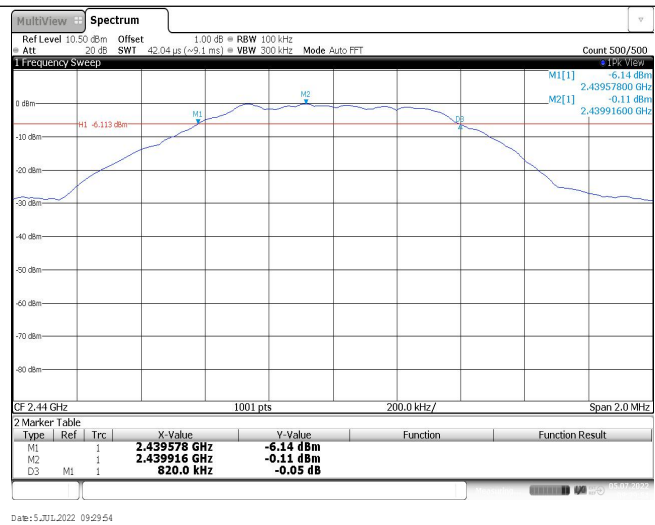
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	806.00	≥500	Pass
	19	820.00		
	39	822.00		

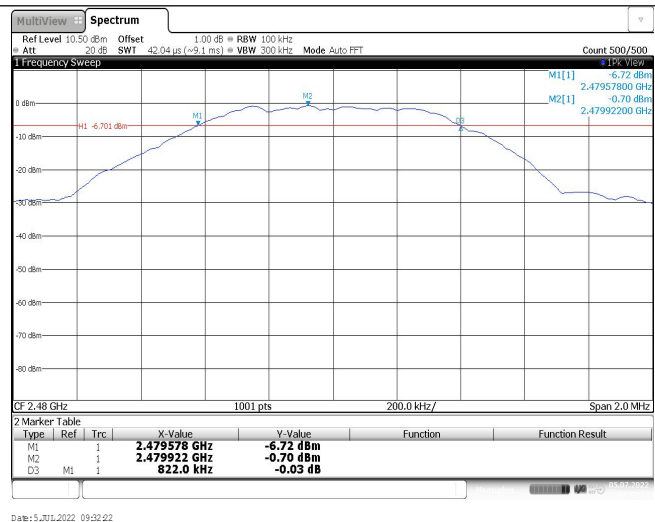
CH00



CH19



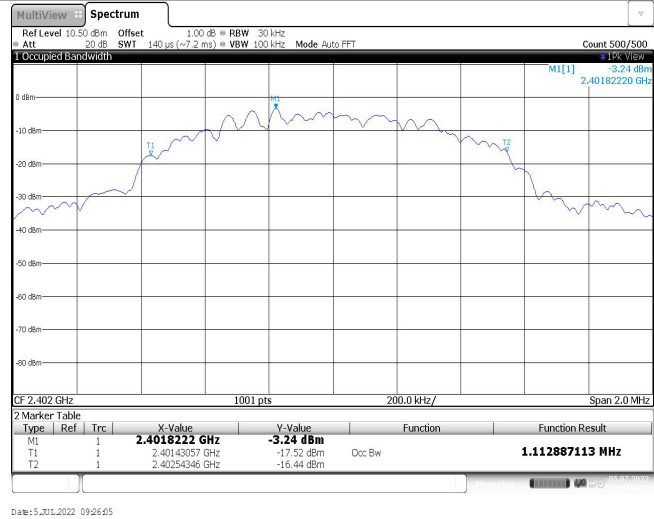
CH39



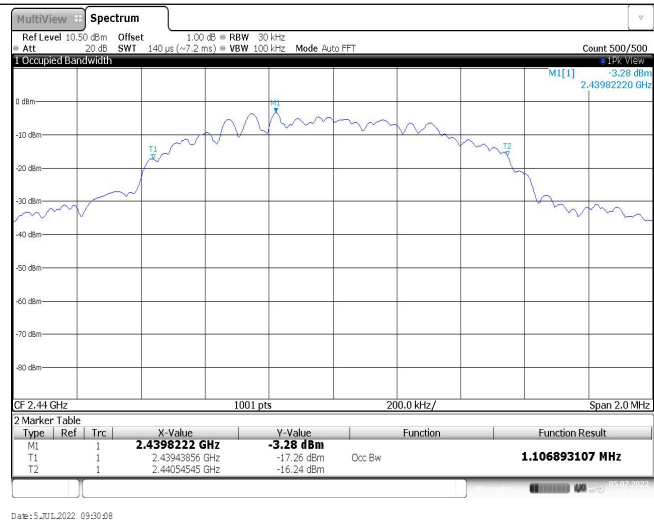
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.11	-	Pass
	19	1.11		
	39	1.10		

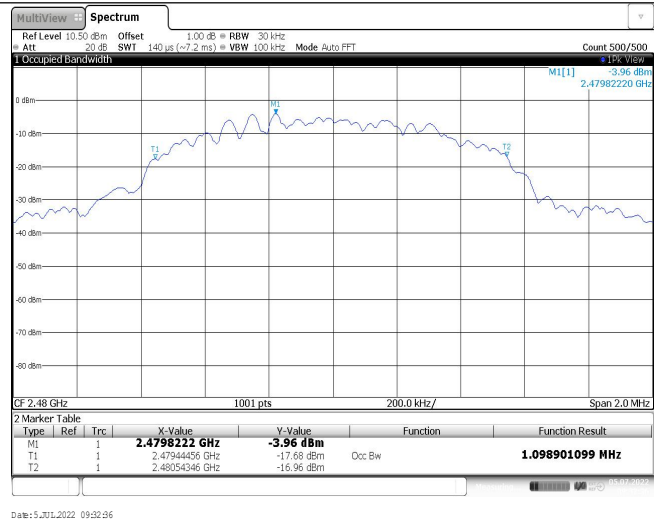
CH00



CH19

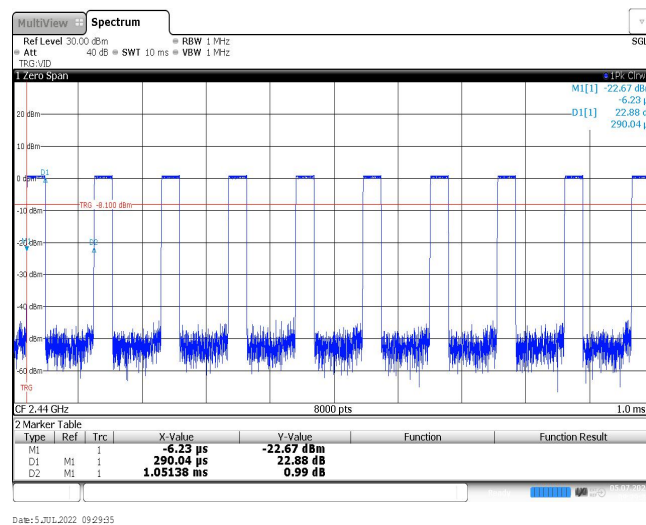


CH39



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	0.29	1.05	27.6%	3.45



Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge
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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

M1 [1] 0.09 dBm
2.401726 GHz
M2 [1] -47.74 dBm
2.400000 GHz

2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		2.401726 GHz	0.09 dBm		
M2	1		2.4 GHz	-47.74 dBm		
M3	1		2.39 GHz	-73.48 dBm		
M4	1		2.31 GHz	-72.45 dBm		
M5	1		2.399965 GHz	-48.03 dBm		

Date: 5/31/2022 09:26:56

CH39

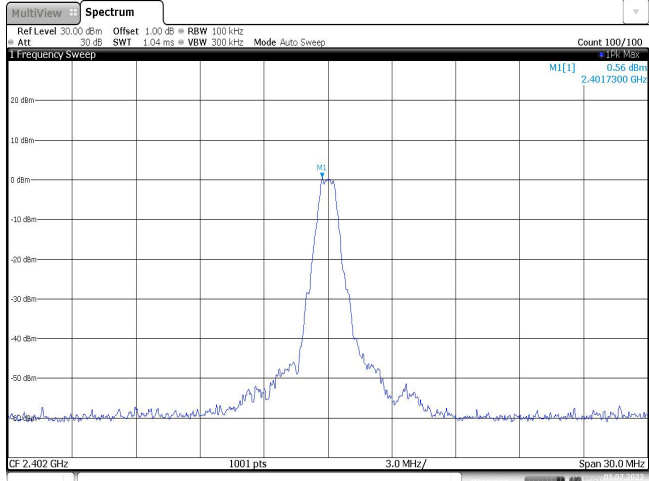
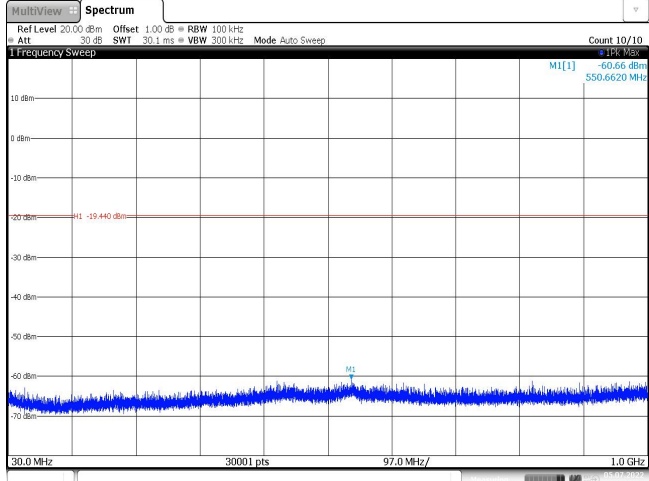
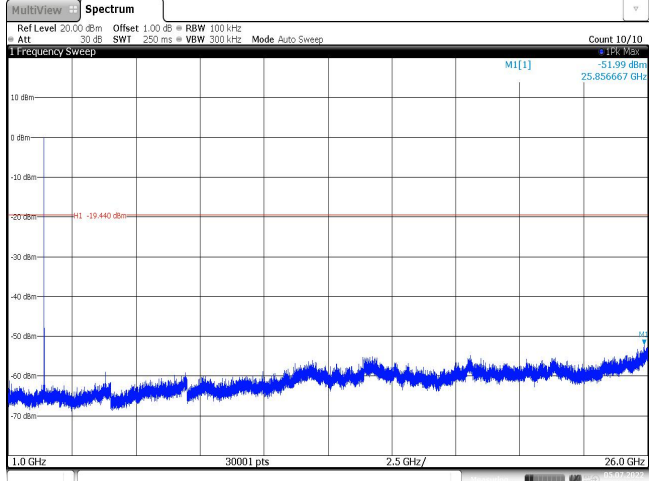
MultiView Spectrum
Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz
Att 20 dB SWT 1.02 ms VBW 300 kHz Mode Auto Sweep Count 100/100
1 Frequency Sweep

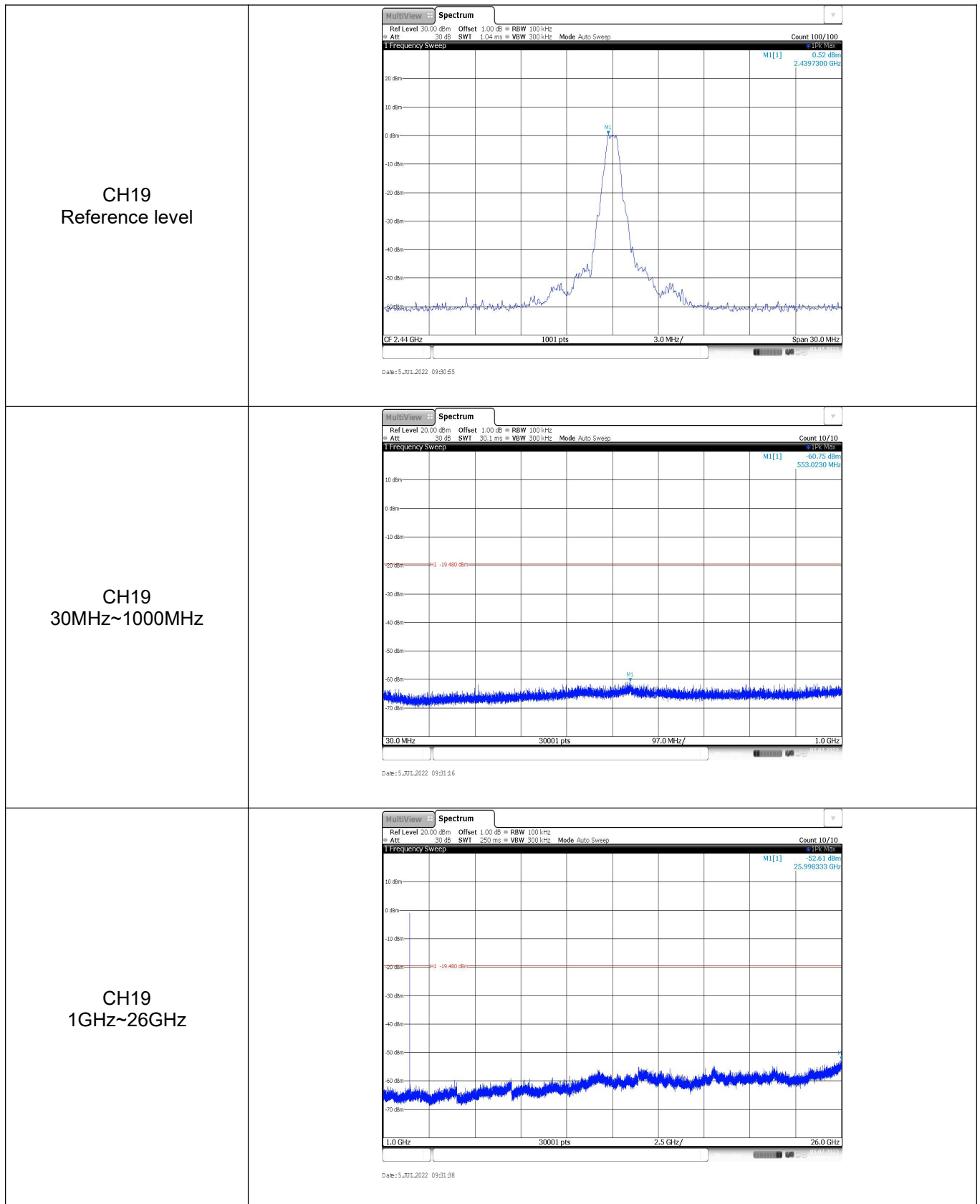
M1 [1] -0.17 dBm
2.479725 GHz
M2 [1] -54.36 dBm
2.483500 GHz

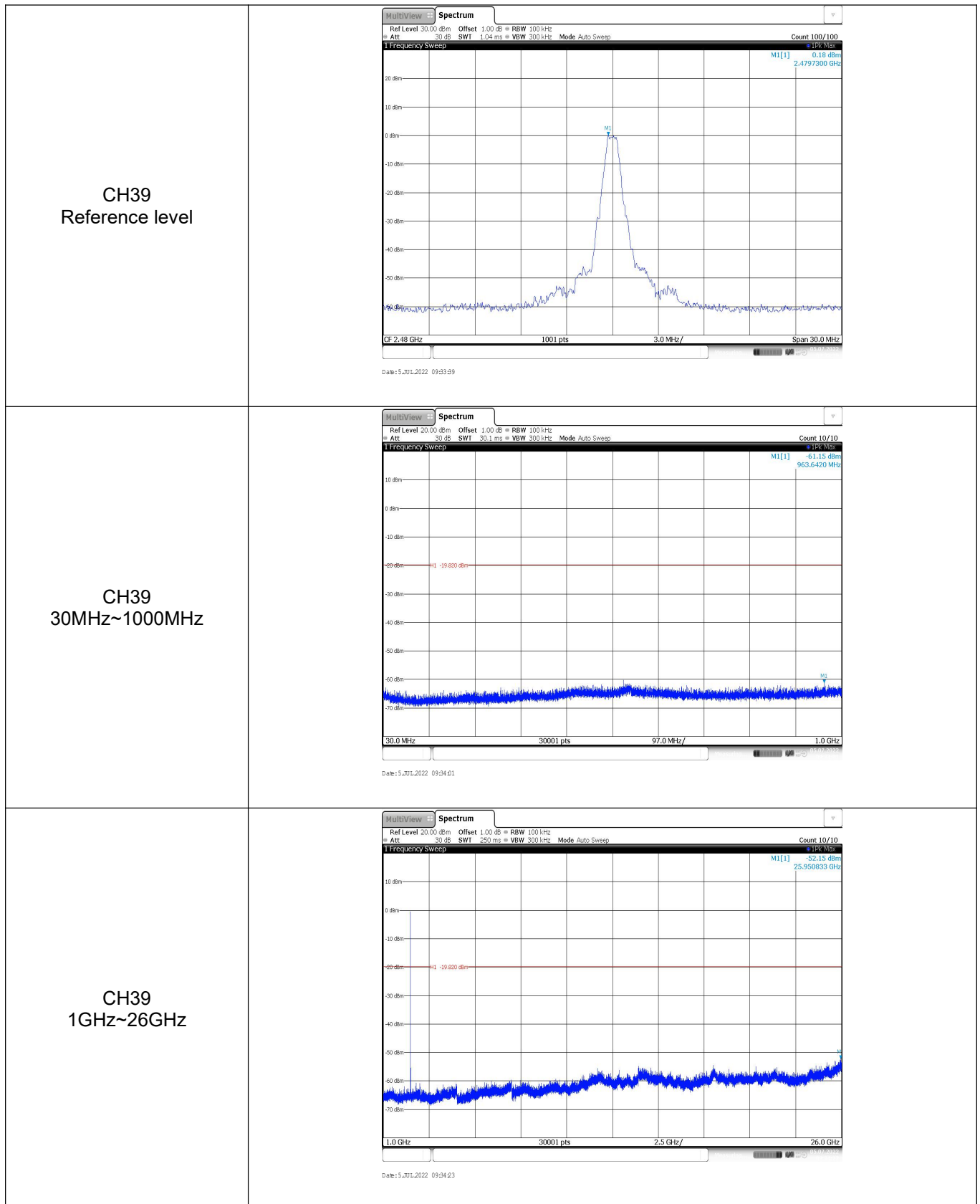
2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		2.479725 GHz	-0.17 dBm		
M2	1		2.4835 GHz	-54.36 dBm		
M3	1		2.5 GHz	-74.15 dBm		
M4	1		2.483544 GHz	-53.46 dBm		

Date: 5/31/2022 09:33:27

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] 0.56 dBm 2.4017300 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 5 JUL 2022 09:27:09
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] -60.66 dBm 550.6629 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 5 JUL 2022 09:27:30
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] -51.99 dBm 25.856667 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 5 JUL 2022 09:27:52





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