

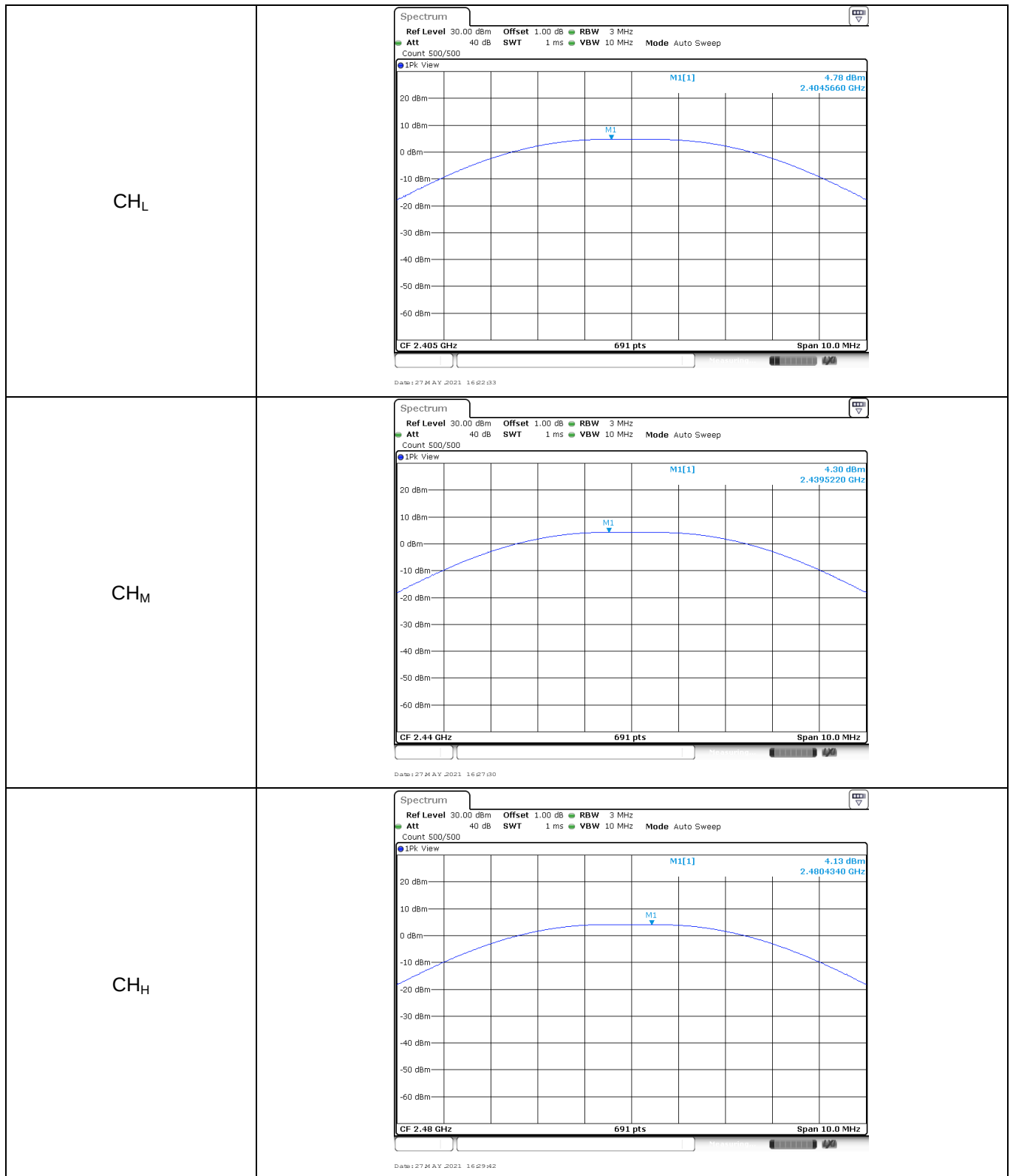
APPENDIX REPORT

Project No.	SHT2104079301EW	Radio Specification	Zigbee
Test sample No.	YPHT21040793001	Model No.	D2106-THGN01
Start test date	2021-05-27	Finish date	2021-05-27
Temperature	26.8°C	Humidity	48%
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

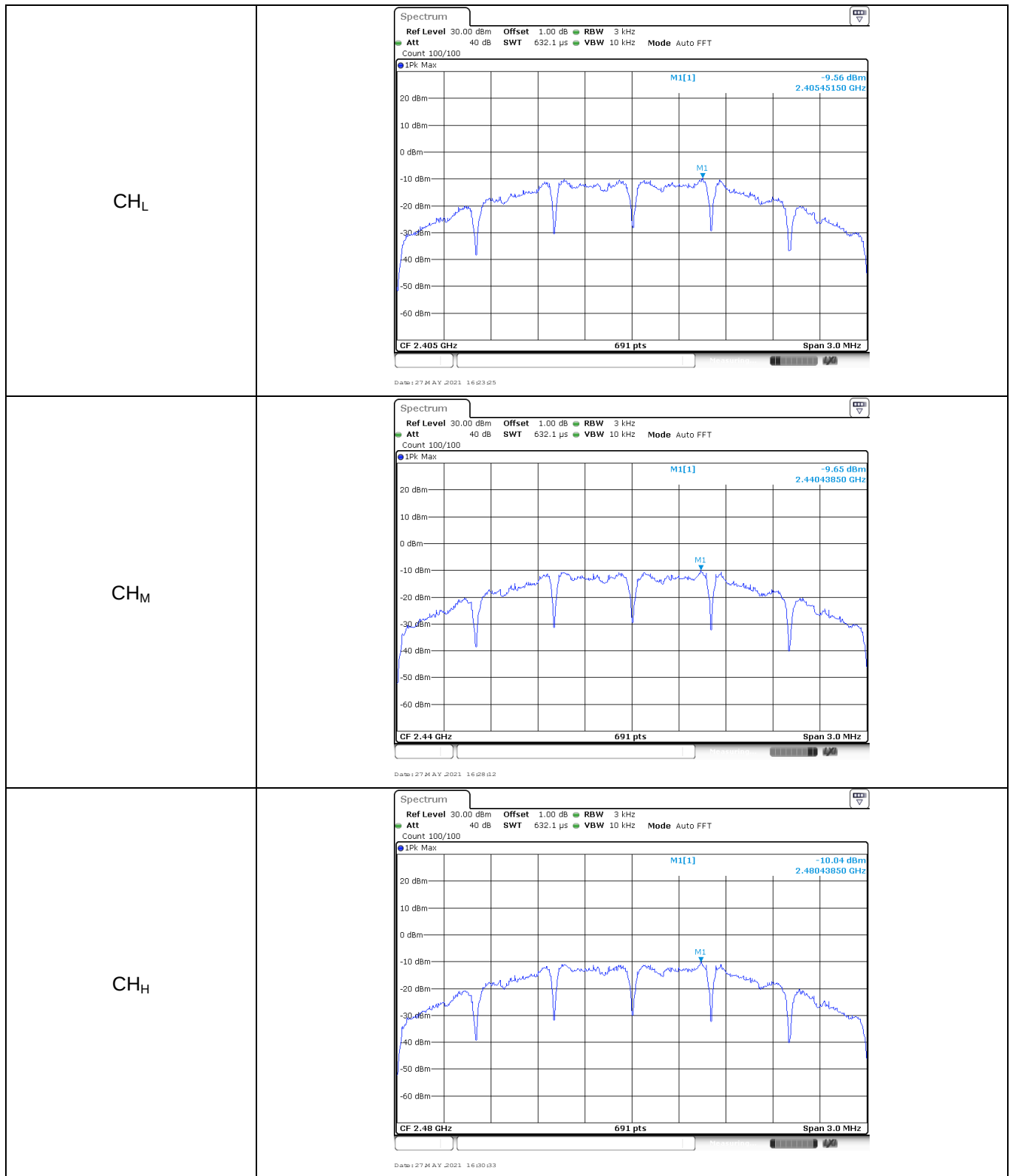
Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
Zigbee	CH _L	4.78	4.40	≤ 30.00	Pass
	CH _M	4.30	4.00		
	CH _H	4.13	3.86		



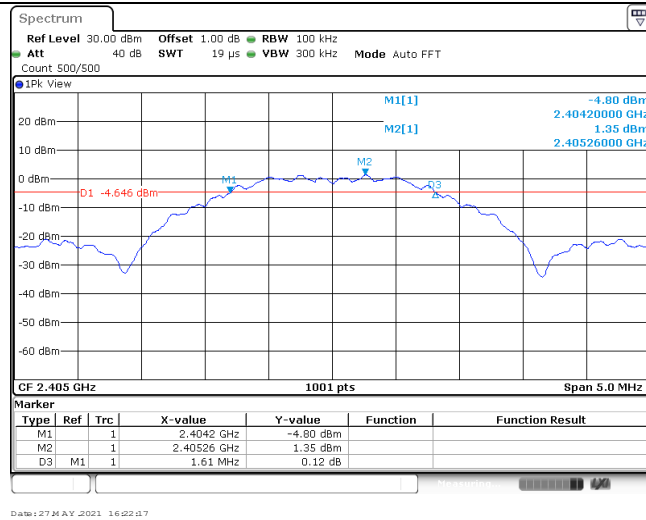
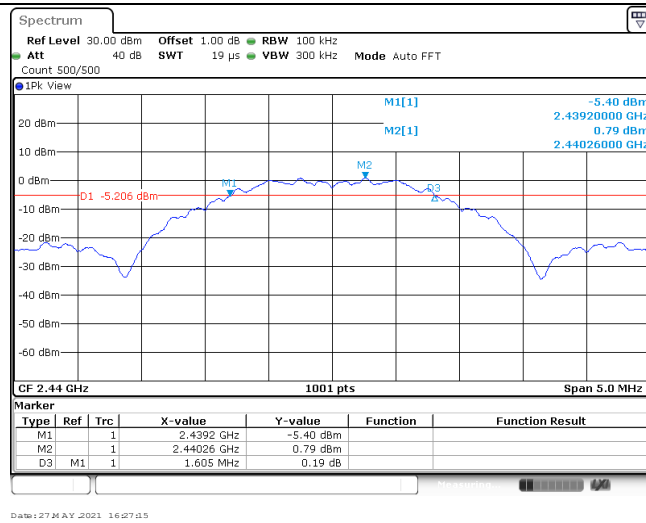
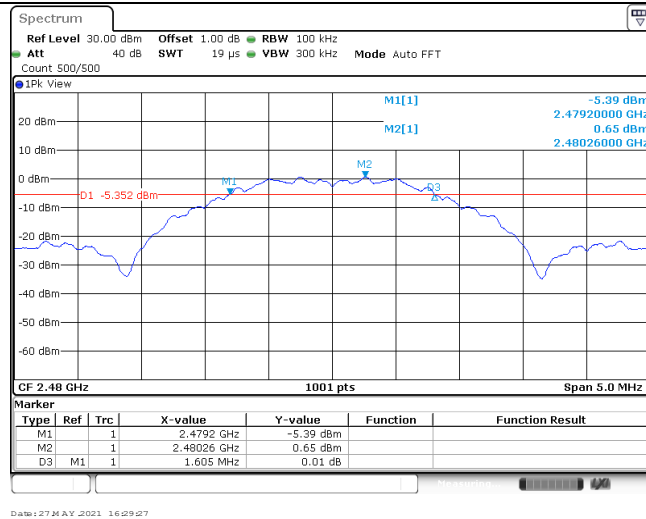
Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
Zigbee	CH _L	-9.56	≤8.00	Pass
	CH _M	-9.65		
	CH _H	-10.04		



Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
Zigbee	CH _L	1610.00	≥500	Pass
	CH _M	1605.00		
	CH _H	1605.00		

CH_LCH_MCH_H

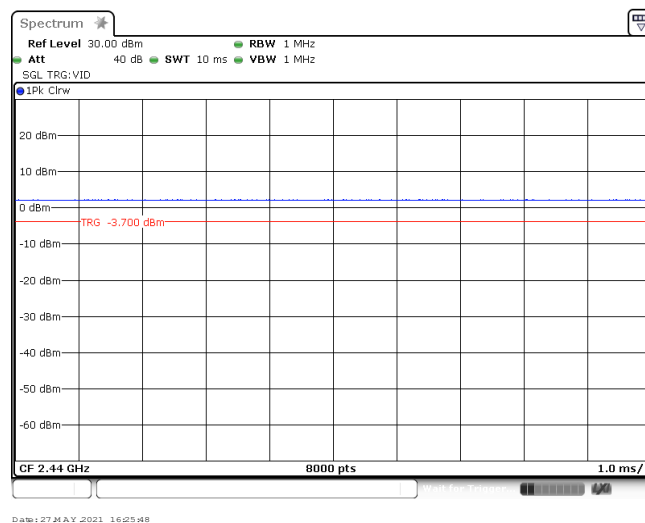
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
Zigbee	CH _L	2.57	-	Pass
	CH _M	2.57		
	CH _H	2.57		

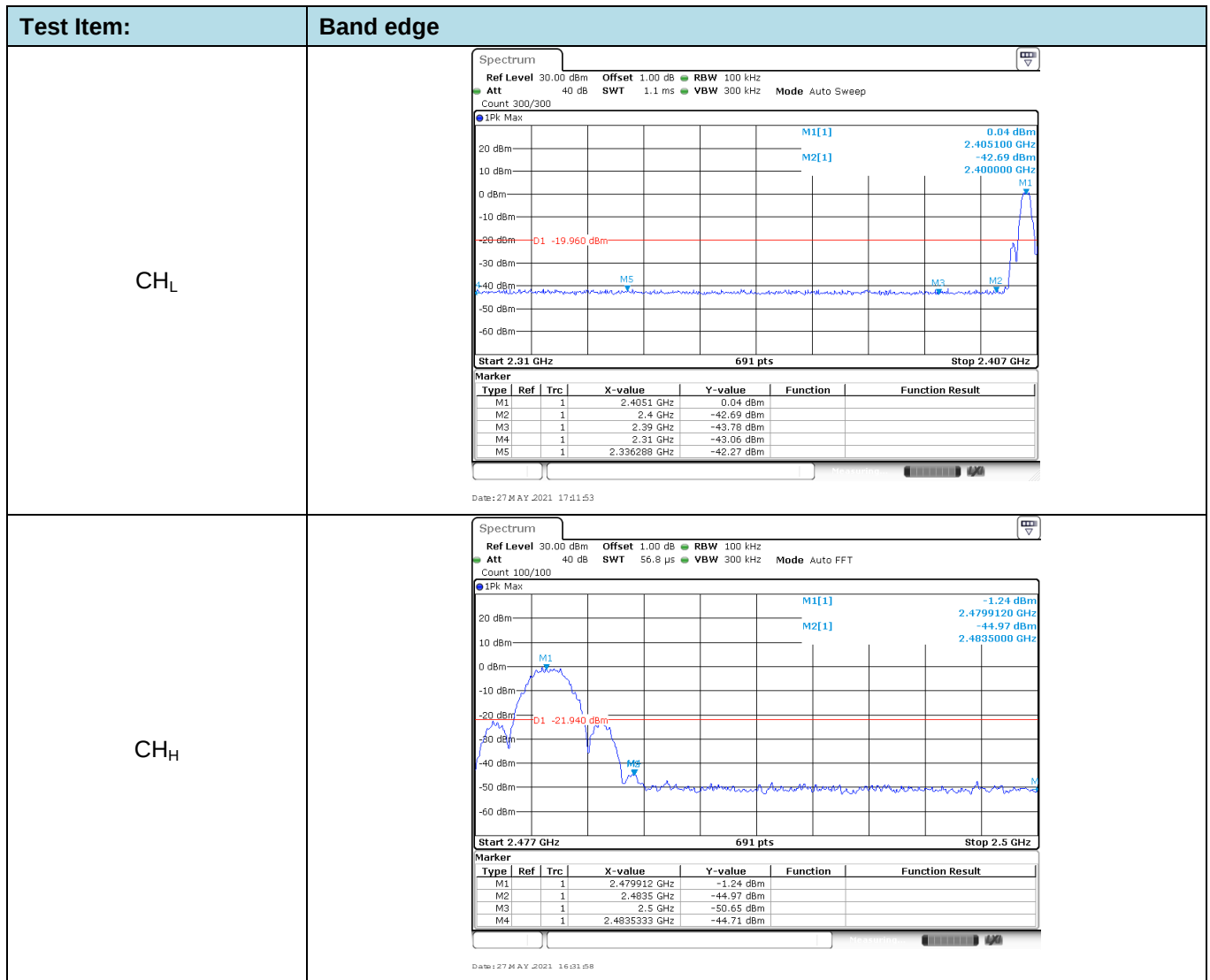
CH _L	Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 30 kHz Att 40 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 500/500 IPk View M1[1] -2.12 dBm 2.40491510 GHz 2.572427572 MHz Occ Bw T1 M1 T2 CF 2.405 GHz 1001 pts Span 5.0 MHz Date: 27 MAY 2021 16:22:25 <tr><td>CH_M</td><td> Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 30 kHz Att 40 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 500/500 IPk View M1[1] -2.85 dBm 2.43991510 GHz 2.572427572 MHz Occ Bw T1 M1 T2 CF 2.44 GHz 1001 pts Span 5.0 MHz Date: 27 MAY 2021 16:27:22 <tr><td>CH_H</td><td> Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 30 kHz Att 40 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 500/500 IPk View M1[1] -3.10 dBm 2.48009990 GHz 2.572427572 MHz Occ Bw T1 M1 T2 CF 2.48 GHz 1001 pts Span 5.0 MHz Date: 27 MAY 2021 16:29:34 </td></tr></td></tr>	CH _M	Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 30 kHz Att 40 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 500/500 IPk View M1[1] -2.85 dBm 2.43991510 GHz 2.572427572 MHz Occ Bw T1 M1 T2 CF 2.44 GHz 1001 pts Span 5.0 MHz Date: 27 MAY 2021 16:27:22 <tr><td>CH_H</td><td> Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 30 kHz Att 40 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 500/500 IPk View M1[1] -3.10 dBm 2.48009990 GHz 2.572427572 MHz Occ Bw T1 M1 T2 CF 2.48 GHz 1001 pts Span 5.0 MHz Date: 27 MAY 2021 16:29:34 </td></tr>	CH _H	Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 30 kHz Att 40 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 500/500 IPk View M1[1] -3.10 dBm 2.48009990 GHz 2.572427572 MHz Occ Bw T1 M1 T2 CF 2.48 GHz 1001 pts Span 5.0 MHz Date: 27 MAY 2021 16:29:34
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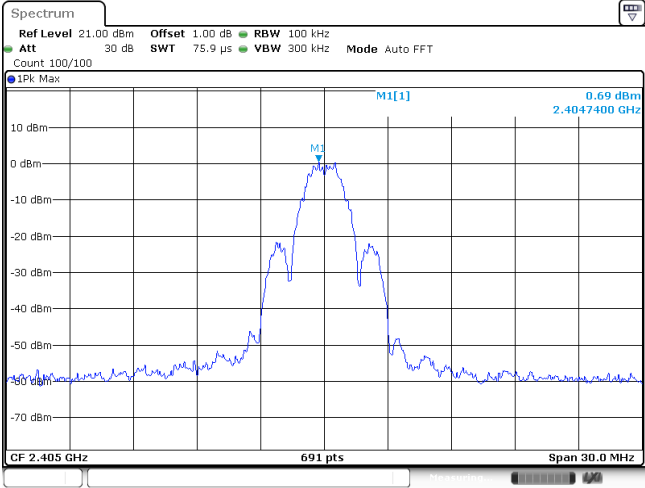
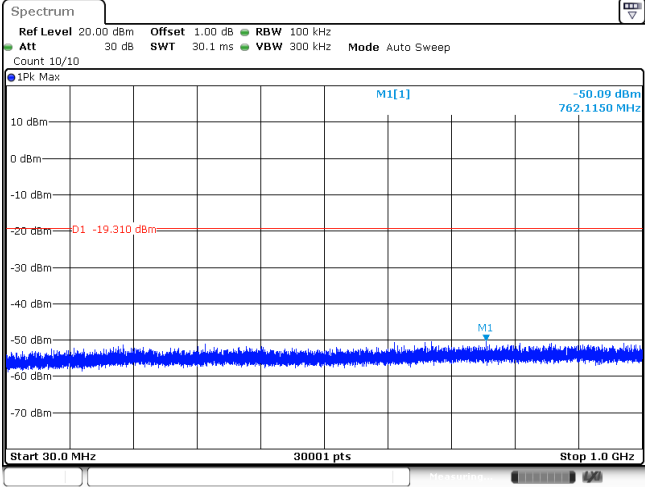
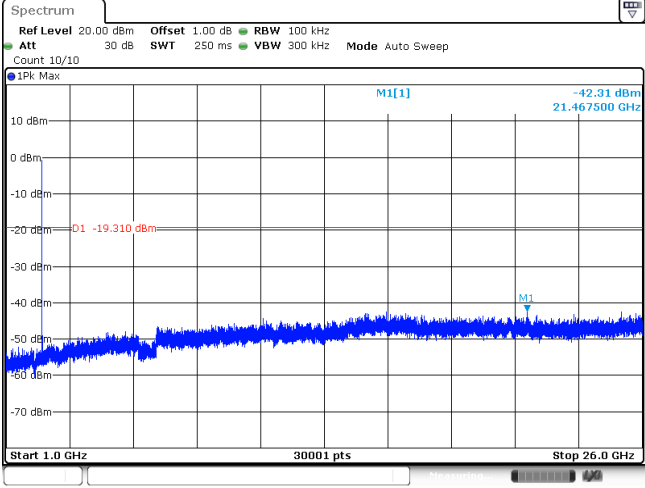
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	1.00	1.00	100%	1.0

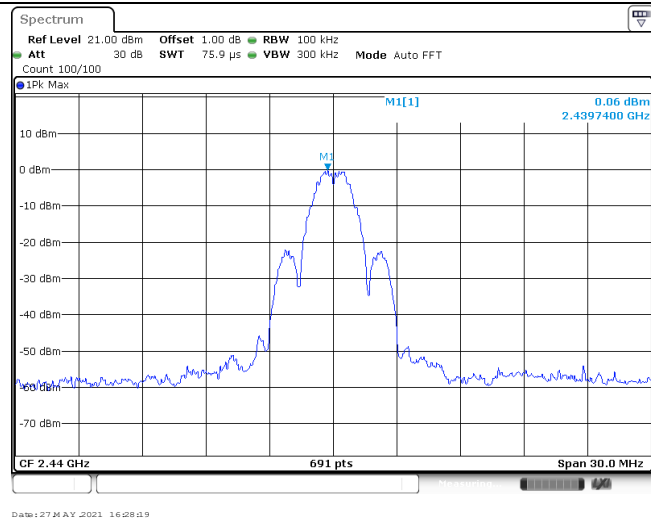


Appendix F: Band edge and Spurious Emissions (conducted)

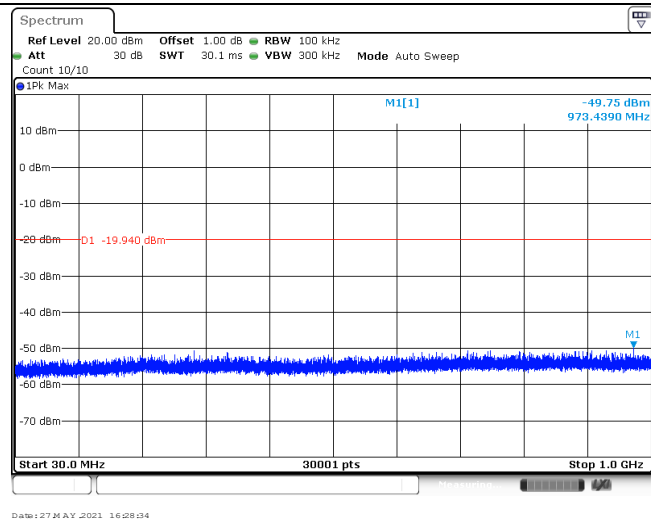


Test Item:	SE
CH _L Reference level	 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] 0.69 dBm 2.4047400 GHz CF 2.405 GHz 691 pts Span 30.0 MHz Date: 27 MAY 2021 16:24:10
CH _L 30MHz~1000MHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -50.09 dBm 762.1150 MHz D1 -19.310 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 27 MAY 2021 16:24:25
CH _L 1GHz~26GHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -42.31 dBm 21.467500 GHz D1 -19.310 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 27 MAY 2021 16:24:41

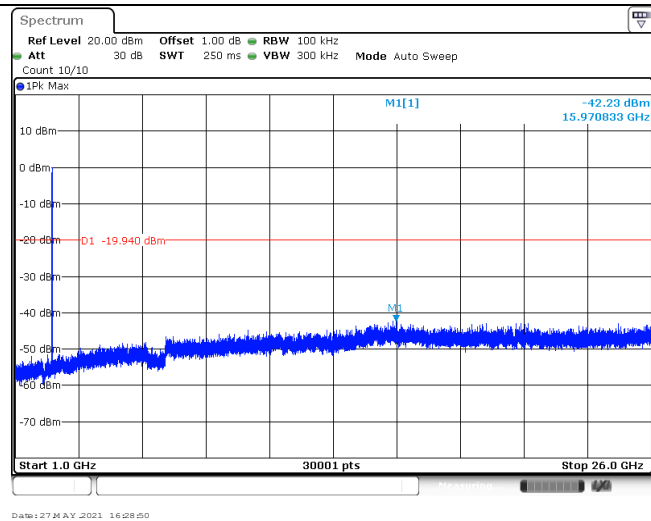
CH_M
Reference level



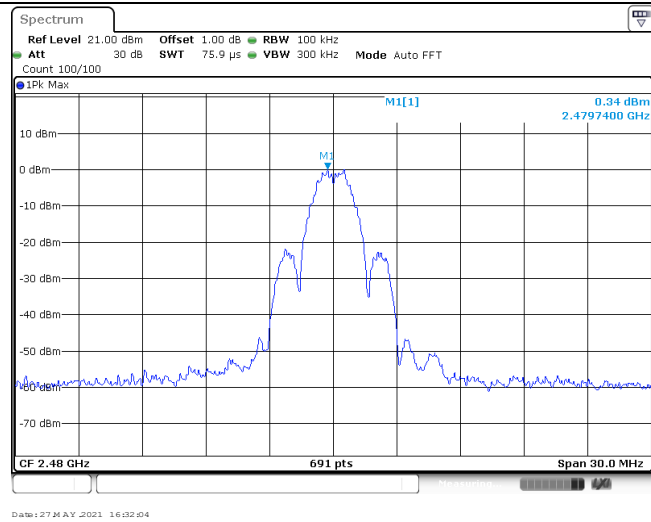
CH_M
30MHz~1000MHz



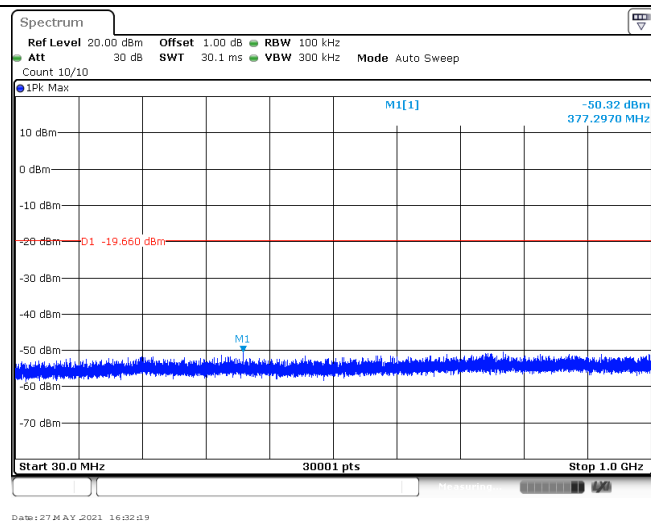
CH_M
1GHz~26GHz



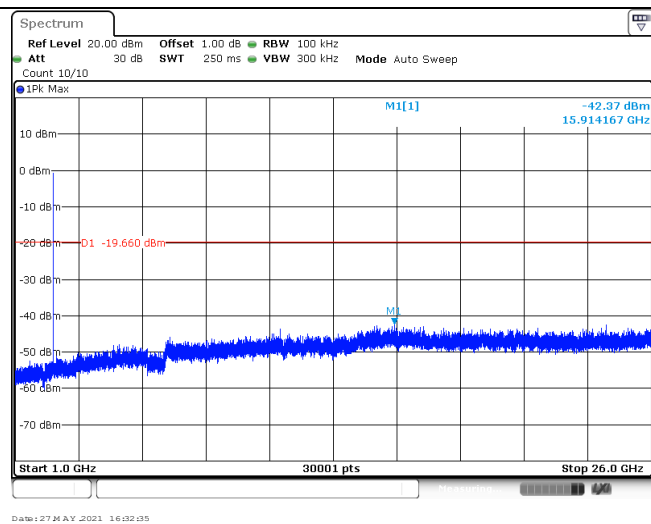
CH_H
Reference level



CH_H
30MHz~1000MHz



CH_H
1GHz~26GHz



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