

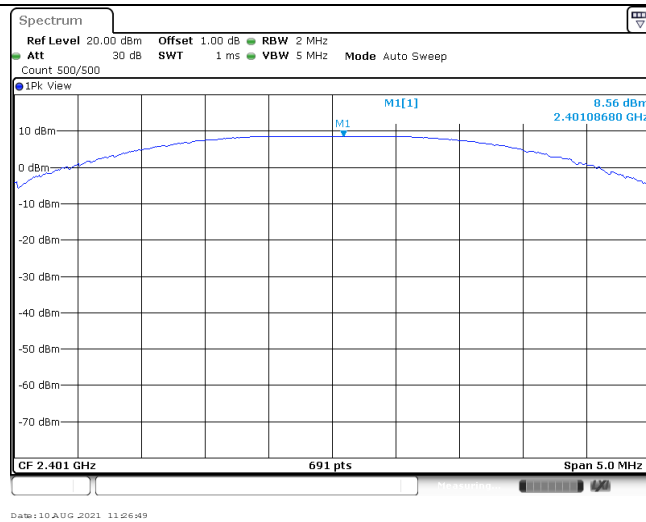
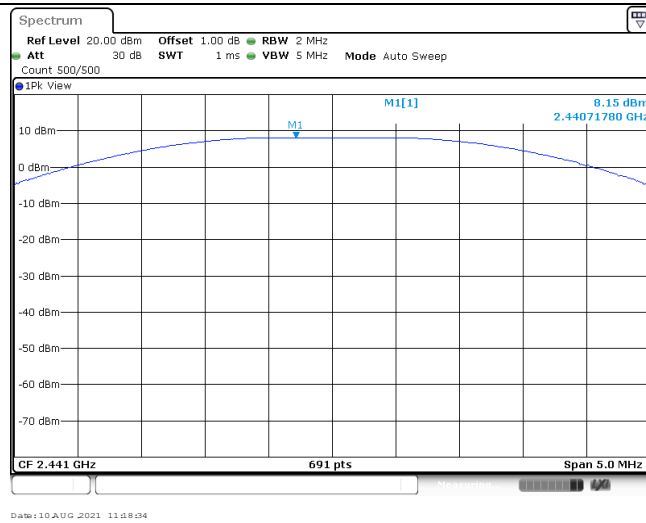
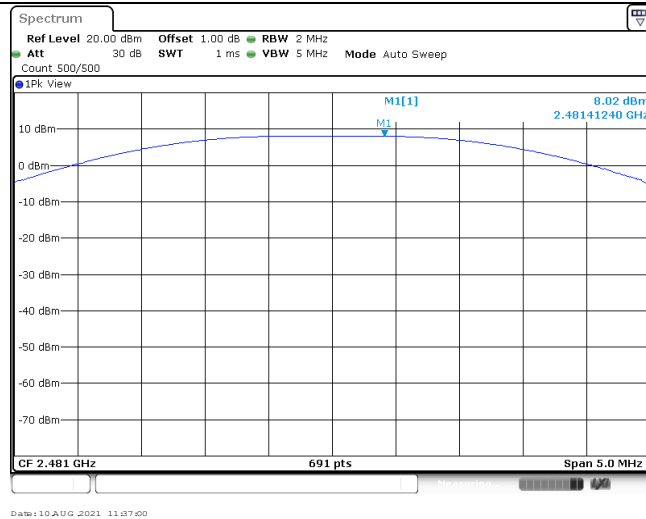
APPENDIX REPORT

Project No.	SHT2106076406EW	Radio Specification	2.4GHz Device
Test sample No.	YPHT2106076406	Model No.	FMLR-80-X-STL4E
Start test date	2021-08-10	Finish date	2021-08-10
Temperature	26.6°C	Humidity	37%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhao

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

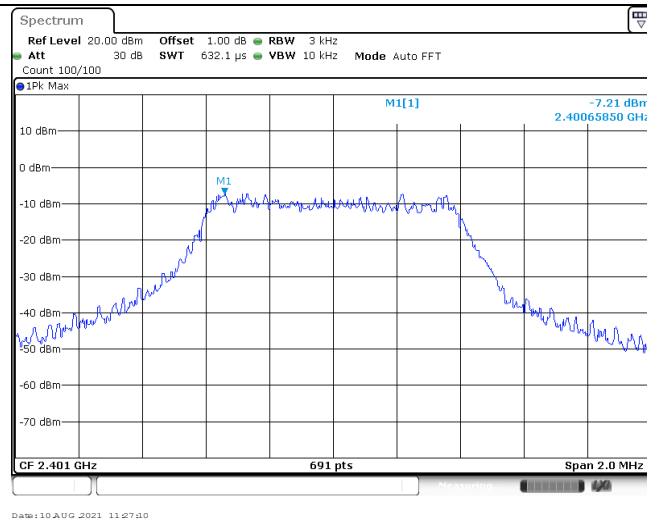
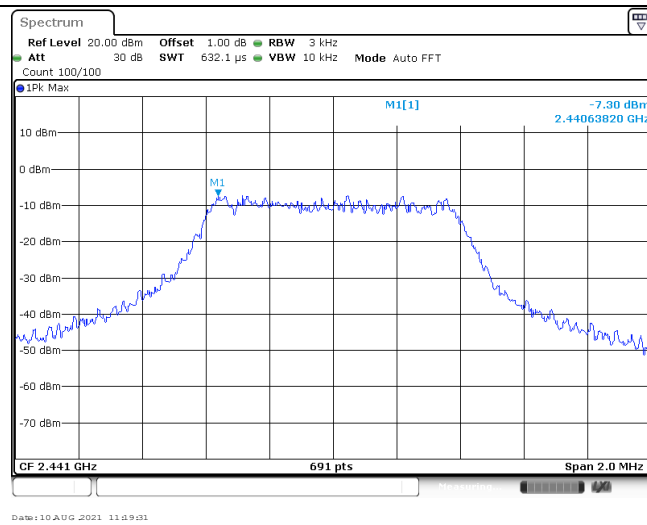
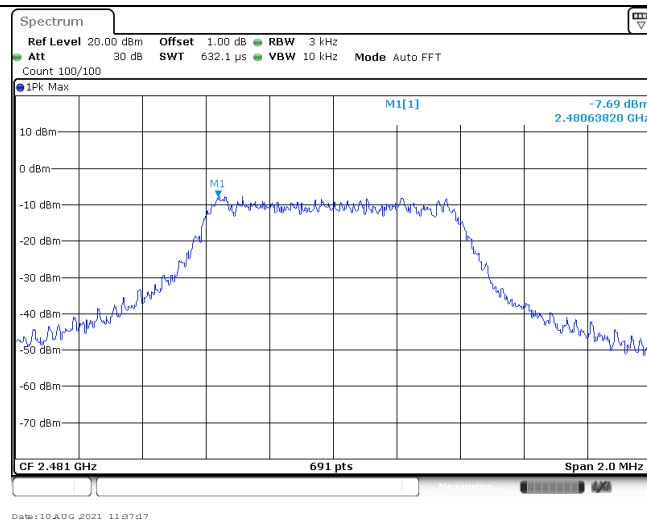
Appendix A: Peak Output Power

Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
CH _L	8.56	8.31	≤ 30.00	Pass
CH _M	8.15	7.87		
CH _H	8.02	7.81		

CH_LCH_MCH_H

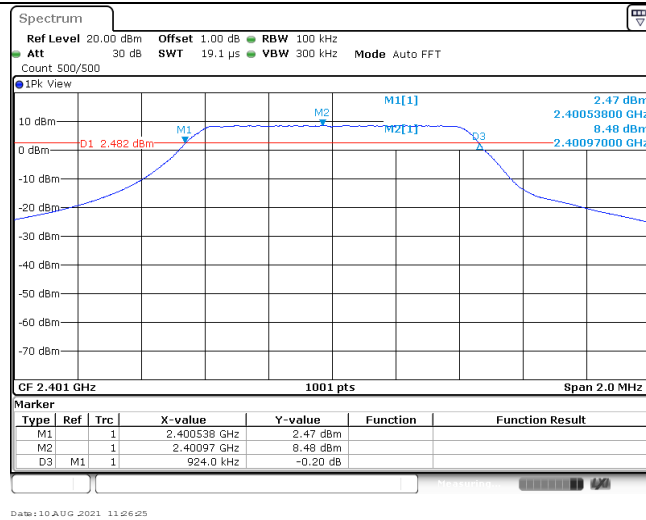
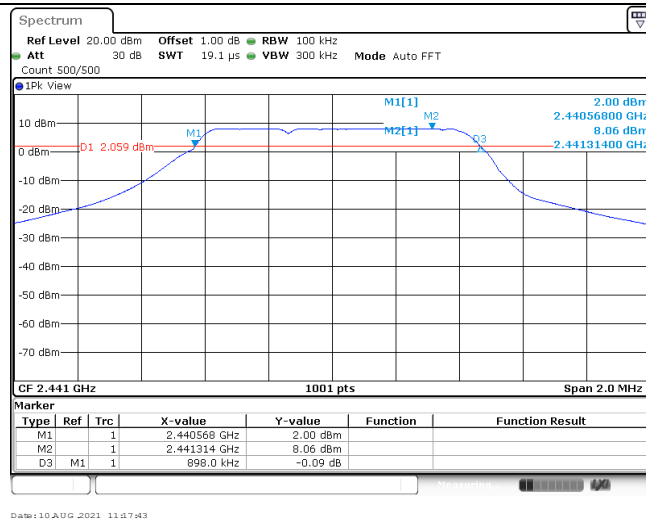
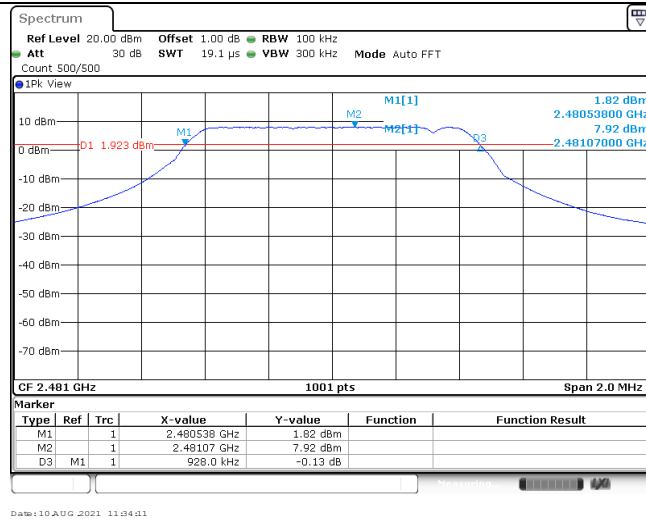
Appendix B: Power Spectral Density

Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
CH _L	-7.21	≤8.00	Pass
CH _M	-7.30		
CH _H	-7.69		

CH_LCH_MCH_H

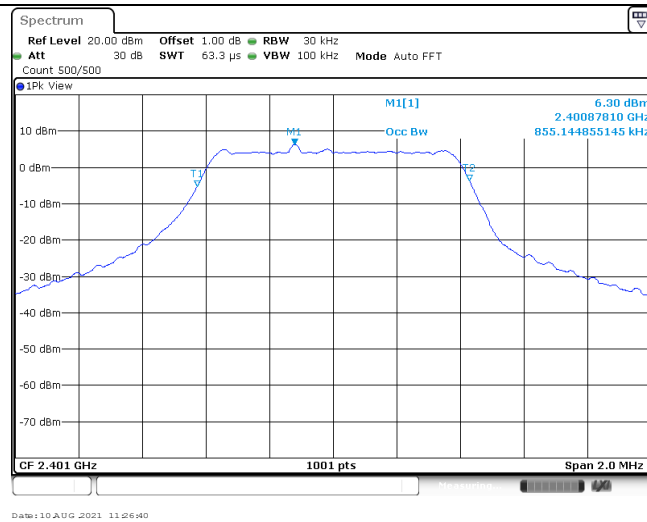
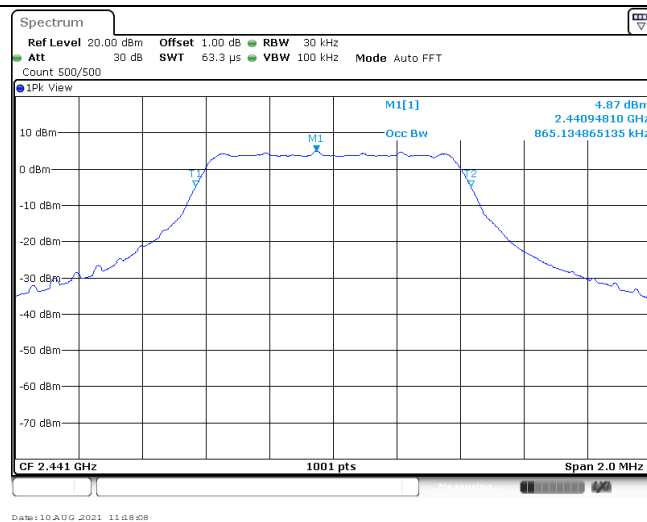
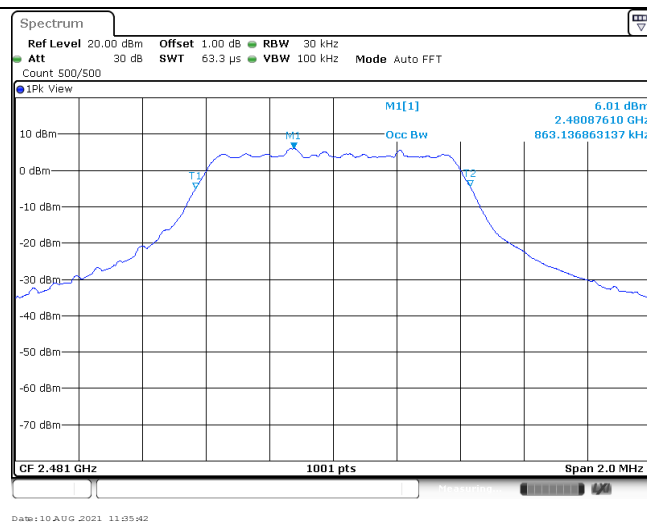
Appendix C: 6dB bandwidth

Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
CH _L	924.00	≥500	Pass
CH _M	898.00		
CH _H	928.00		

CH_LCH_MCH_H

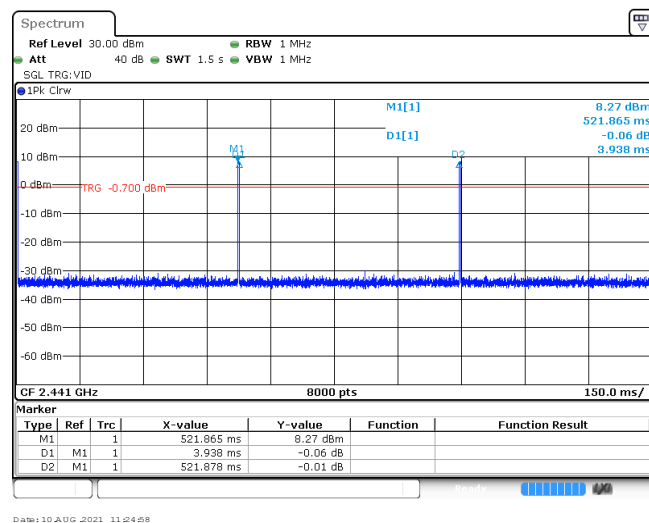
Appendix D: 99% Occupied Bandwidth

Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
CH _L	0.86	-	Pass
CH _M	0.87		
CH _H	0.86		

CH_LCH_MCH_H

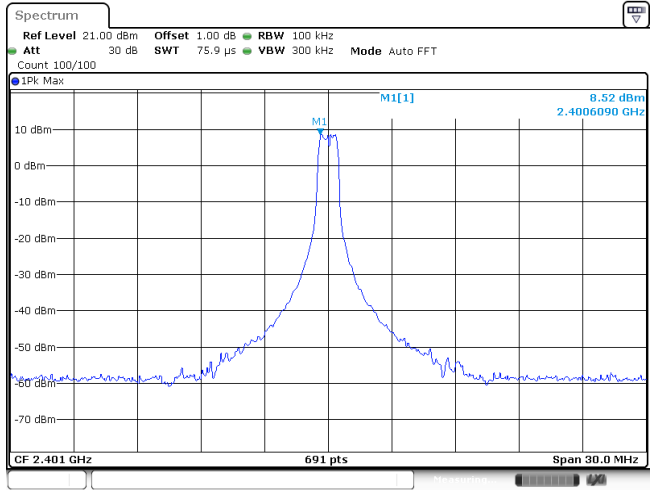
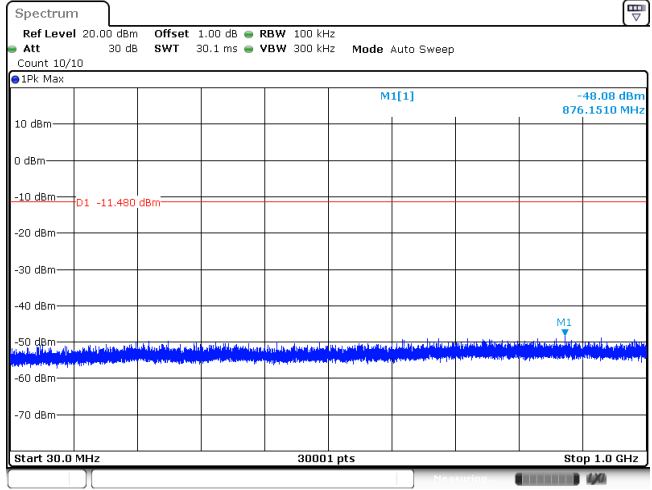
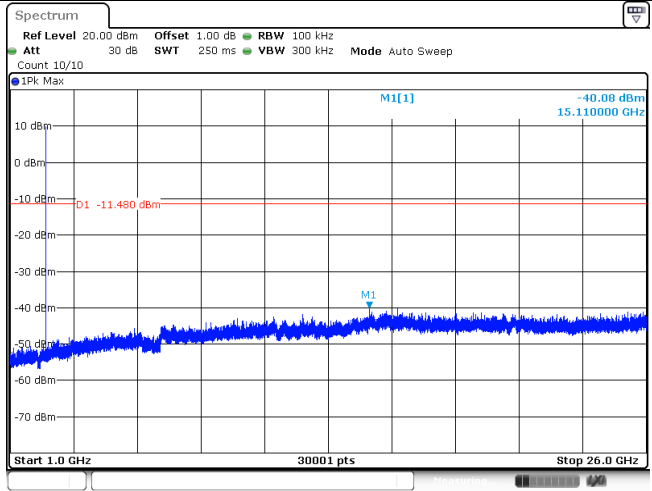
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2441	3.94	521.88	0.8%	0.3

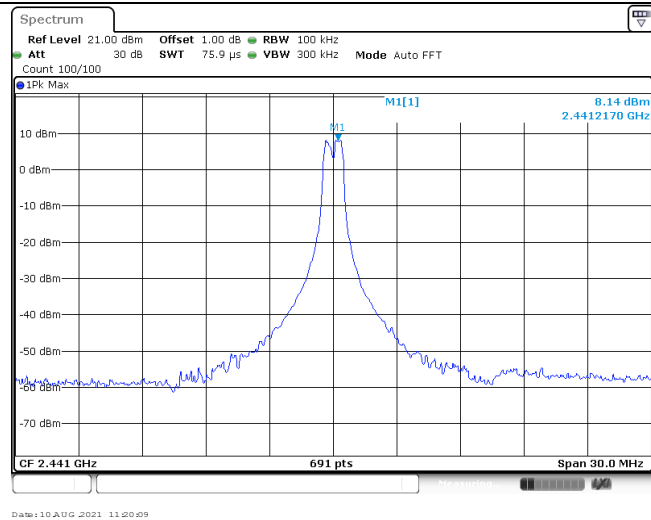


Appendix F: Band edge and Spurious Emissions (conducted)

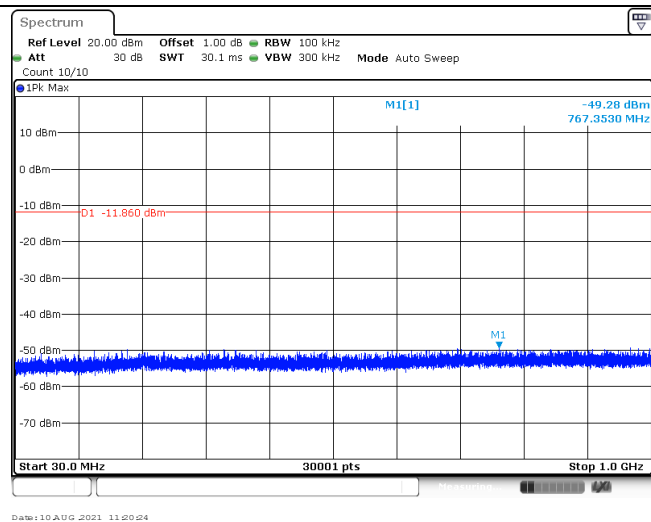
Test Item:	Band edge																																										
CH _L	Spectrum Ref Level 20.00 dBm Att 30 dB Count 300/300 Offset 1.00 dB SWT 1.1 ms RBW 100 kHz VBW 300 kHz Mode Auto Sweep 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 M4 9.73 dBm 2.40122 GHz -23.37 dBm 2.400000 GHz D1 -10.270 dBm Start 2.31 GHz 691 pts Stop 2.405 GHz Marker <table><thead><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></thead><tbody><tr><td>M1</td><td>1</td><td></td><td>2.40122 GHz</td><td>9.73 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-23.37 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-51.13 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-50.22 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399906 GHz</td><td>-26.48 dBm</td><td></td><td></td></tr></tbody></table> Date: 10 AUG 2021 11:51:27	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40122 GHz	9.73 dBm			M2	1		2.4 GHz	-23.37 dBm			M3	1		2.39 GHz	-51.13 dBm			M4	1		2.31 GHz	-50.22 dBm			M5	1		2.399906 GHz	-26.48 dBm		
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CH _H	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.00 dB SWT 56.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2[1] M3 7.91 dBm 2.481295 GHz -43.52 dBm 2.4835000 GHz D1 -12.090 dBm Start 2.478 GHz 691 pts Stop 2.5 GHz Marker <table><thead><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></thead><tbody><tr><td>M1</td><td>1</td><td></td><td>2.481295 GHz</td><td>7.91 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-43.52 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-59.36 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4835159 GHz</td><td>-43.65 dBm</td><td></td><td></td></tr></tbody></table> Date: 10 AUG 2021 11:57:34	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.481295 GHz	7.91 dBm			M2	1		2.4835 GHz	-43.52 dBm			M3	1		2.5 GHz	-59.36 dBm			M4	1		2.4835159 GHz	-43.65 dBm									
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M3	1		2.5 GHz	-59.36 dBm																																							
M4	1		2.4835159 GHz	-43.65 dBm																																							

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] 0.52 dBm 2.406090 GHz CF 2.401 GHz 691 pts Span 30.0 MHz Date: 10 AUG 2021 11:28:56
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] -48.08 dBm 876.1510 MHz D1 -11.480 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 10 AUG 2021 11:29:11
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] -40.08 dBm 15.110000 GHz D1 -11.480 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 10 AUG 2021 11:29:44

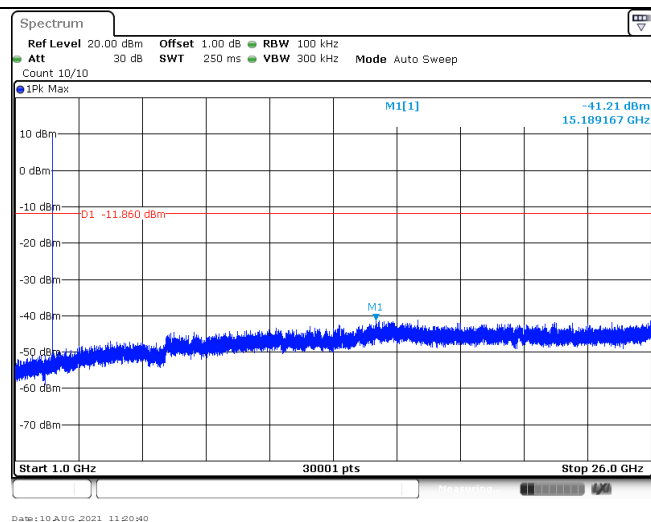
CH_M
Reference level



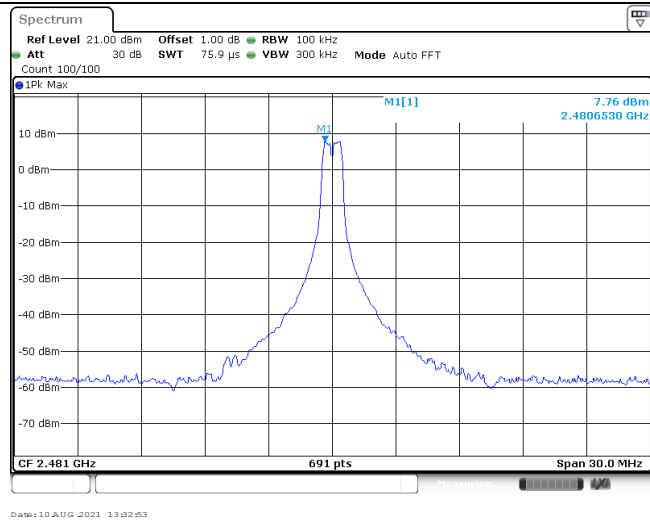
CH_M
30MHz~1000MHz



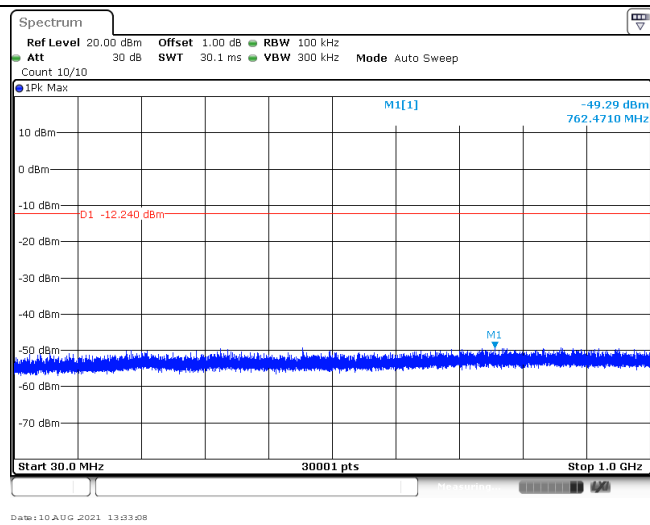
CH_M
1GHz~26GHz



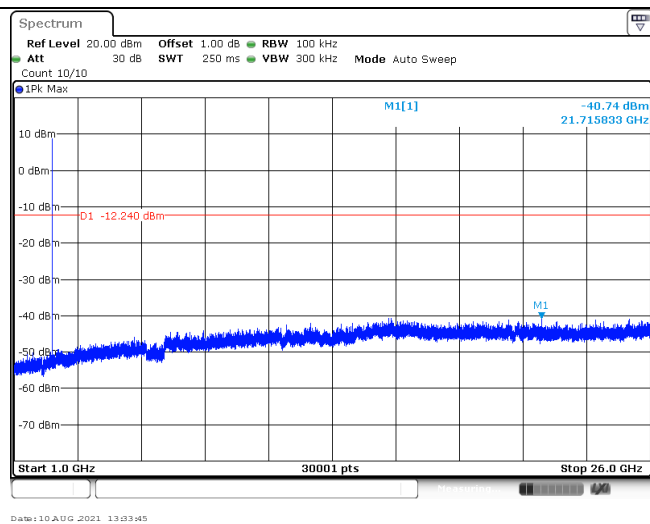
CH_H
Reference level



CH_H
30MHz~1000MHz



CH_H
1GHz~26GHz



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