

APPENDIX REPORT

Project No.	SHT2310045701EW	Radio Specification	5.8G SDR
Test sample No.	YPHT23040066001	Model No.	CVX-EC2-BU
Start test date	2023-08-02	Finish date	2024-03-06
Temperature	23.8℃	Humidity	48%
Test Engineer	Casper Chen	Auditor	Xiaodong Zhu

Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Band edge and Spurious Emissions (conducted)	PASS

Appendix A: Conducted Peak Output Power

Antenna Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
LG	CH _L	8.98	8.97	≤ 30.00	Pass
	CH _M	10.04	10.02		
	CH _H	8.93	8.89		
HG	CH _L	8.93	8.91	≤ 30.00	Pass
	CH _M	10.07	10.06		
	CH _H	10.64	10.60		

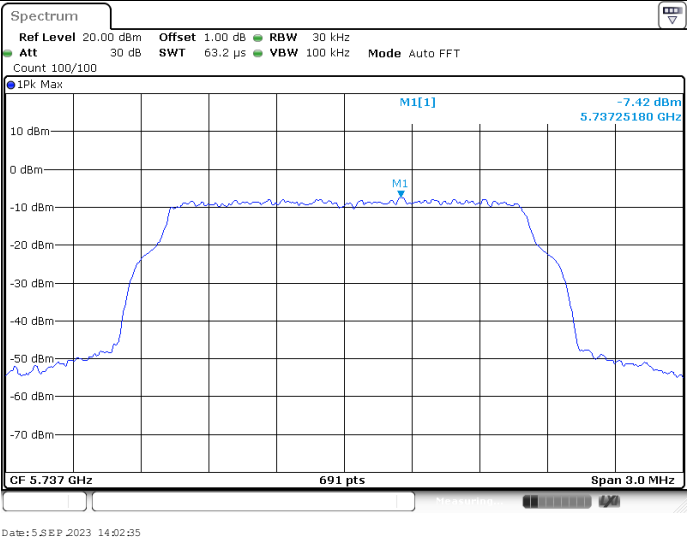
Appendix B: Power Spectral Density

Antenna Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
LG	CH _L	-7.42	≤8.00	Pass
	CH _M	-7.10		
	CH _H	-7.19		
HG	CH _L	-7.36	≤8.00	Pass
	CH _M	-6.55		
	CH _H	-6.18		

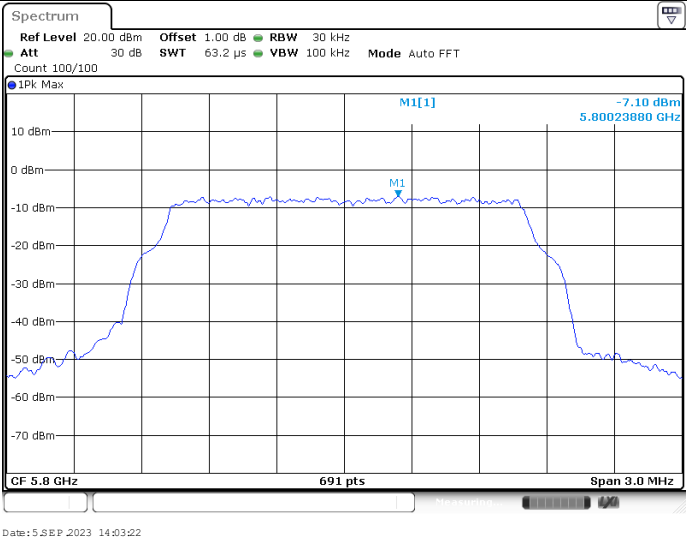
Antenna Type:

LG

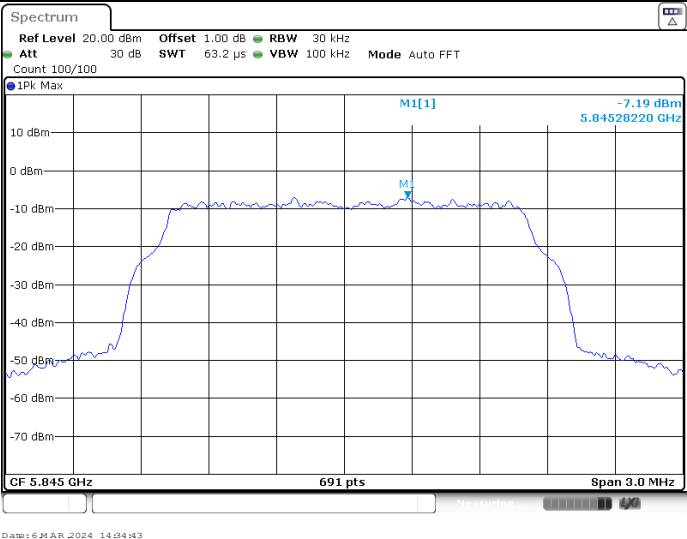
CH_L



CH_M



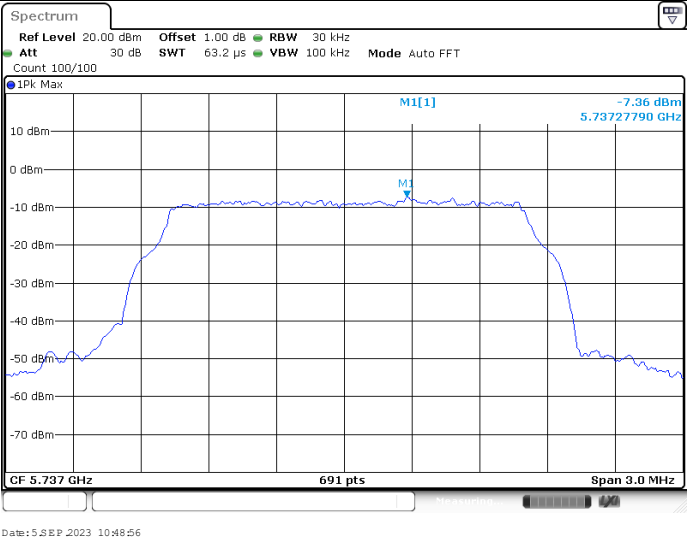
CH_H



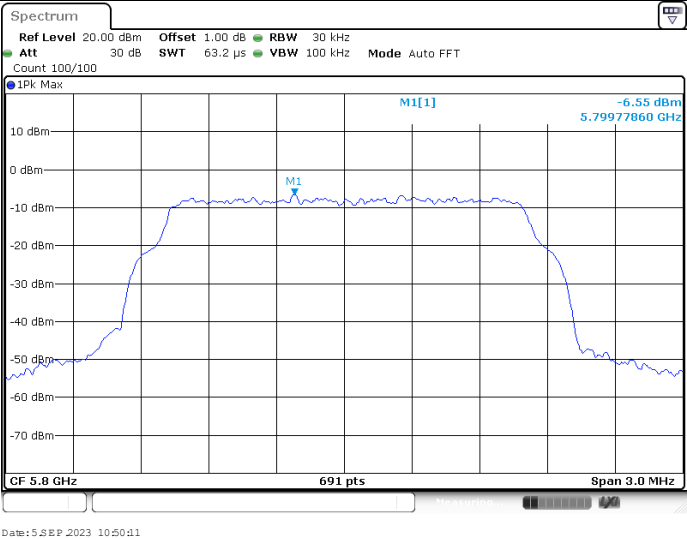
Antenna Type:

HG

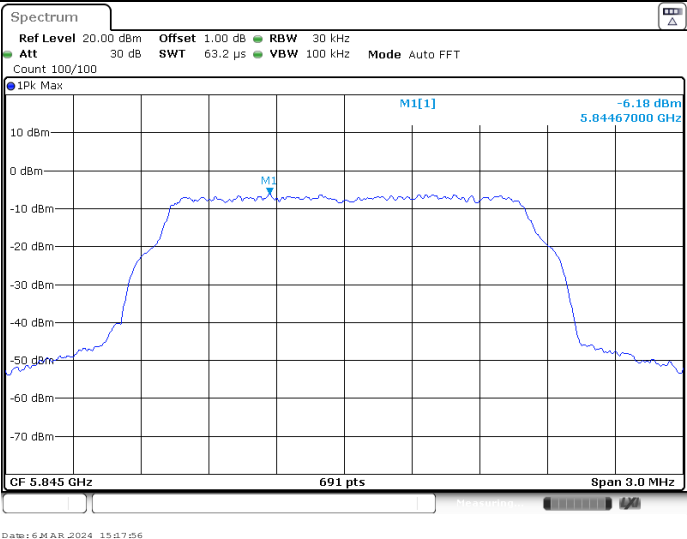
CH_L



CH_M



CH_H



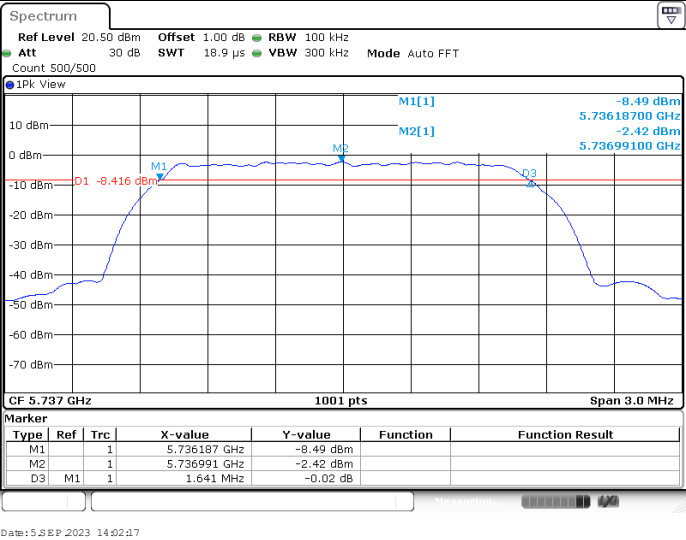
Appendix C: 6dB bandwidth

Antenna Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
LG	CH _L	1.64	≥0.5	Pass
	CH _M	1.64		
	CH _H	1.66		
HG	CH _L	1.67	≥0.5	Pass
	CH _M	1.69		
	CH _H	1.64		

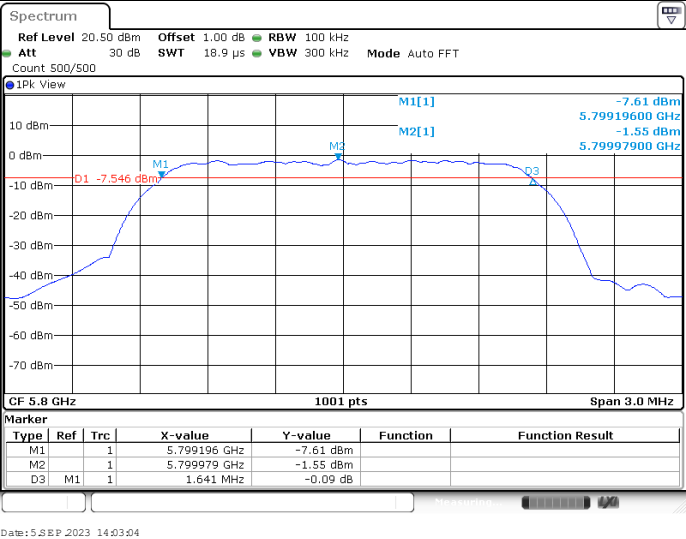
Antenna Type:

LG

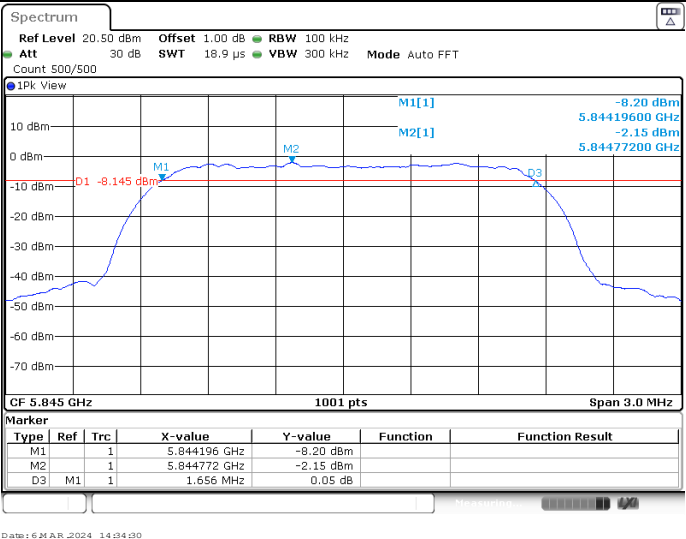
CH_L



CH_M



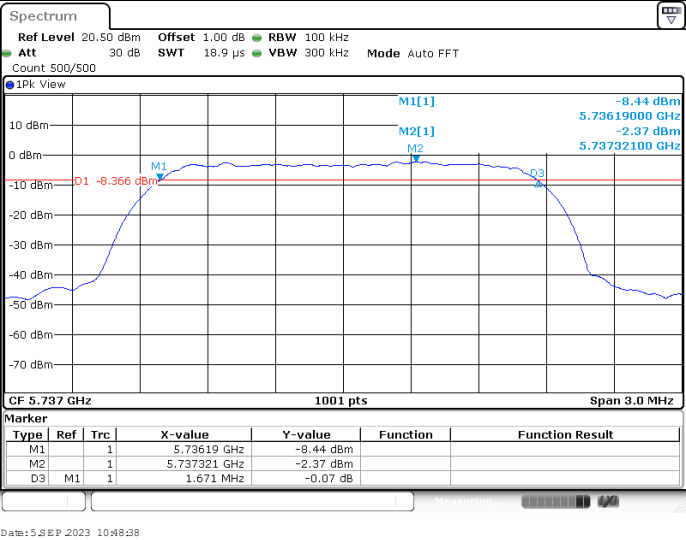
CH_H



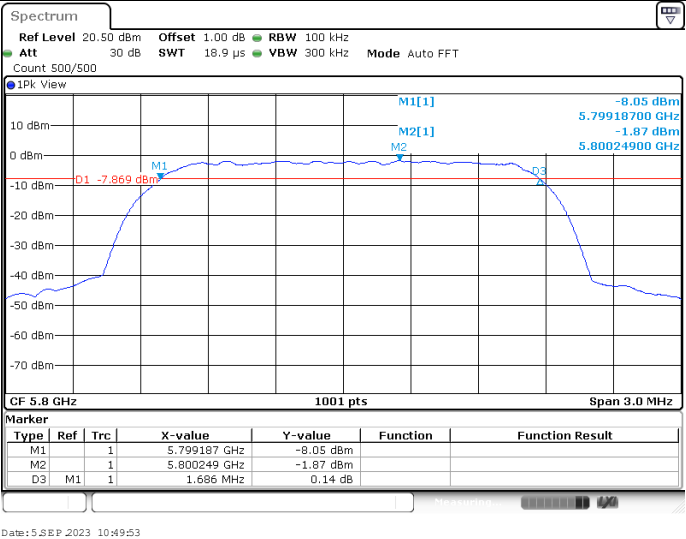
Antenna Type:

HG

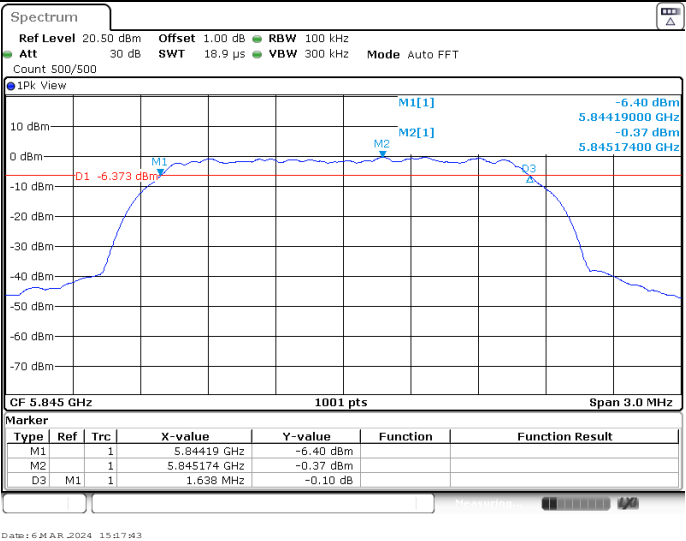
CH_L



CH_M



CH_H



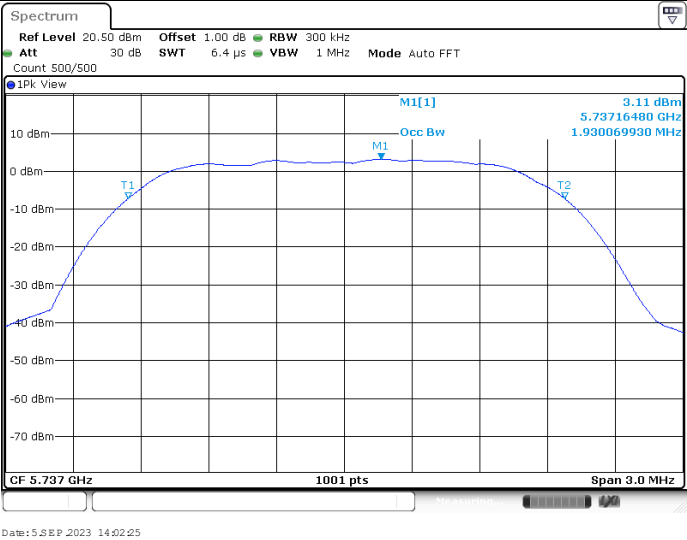
Appendix D: 99% Occupied Bandwidth

Antenna Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
LG	CH _L	1.93	-	Pass
	CH _M	1.94		
	CH _H	1.95		
HG	CH _L	1.94	-	Pass
	CH _M	1.93		
	CH _H	1.92		

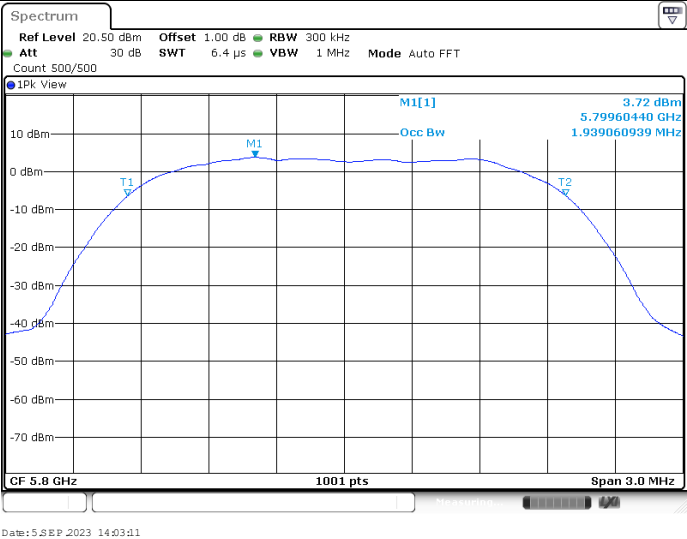
Antenna Type:

LG

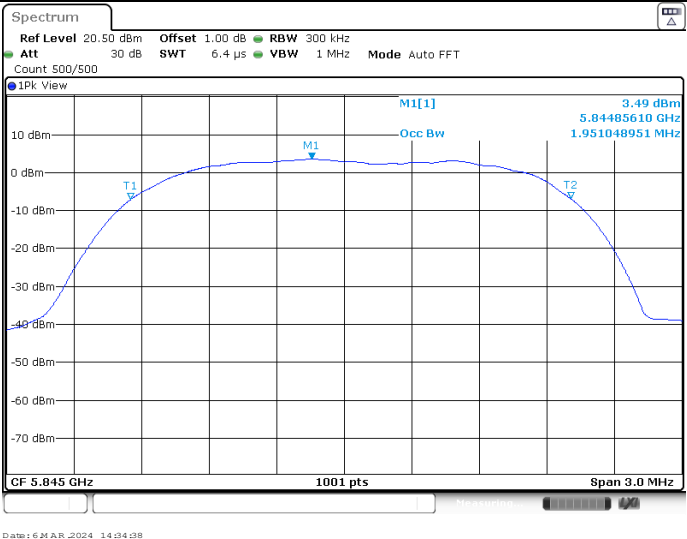
CH_L



CH_M



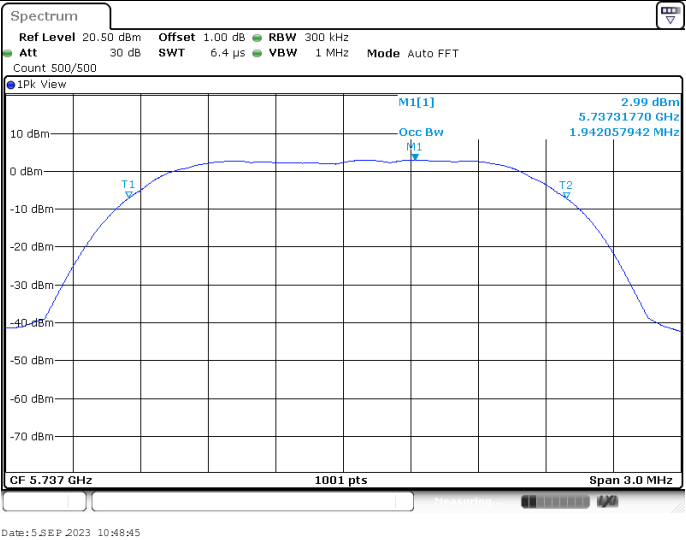
CH_H



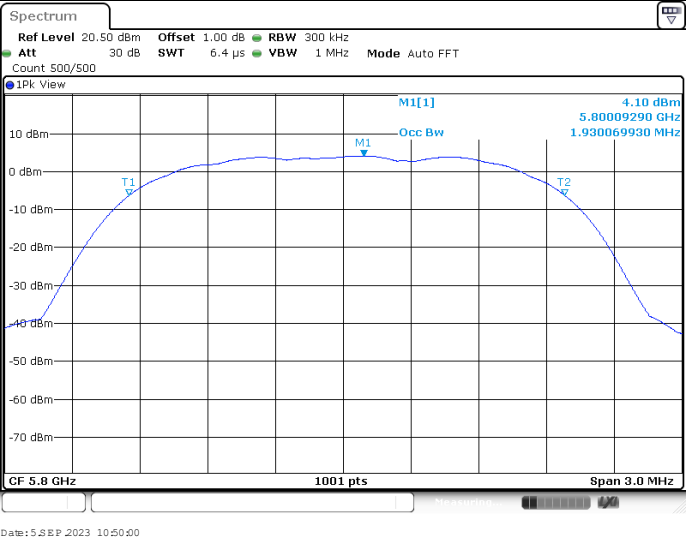
Antenna Type:

HG

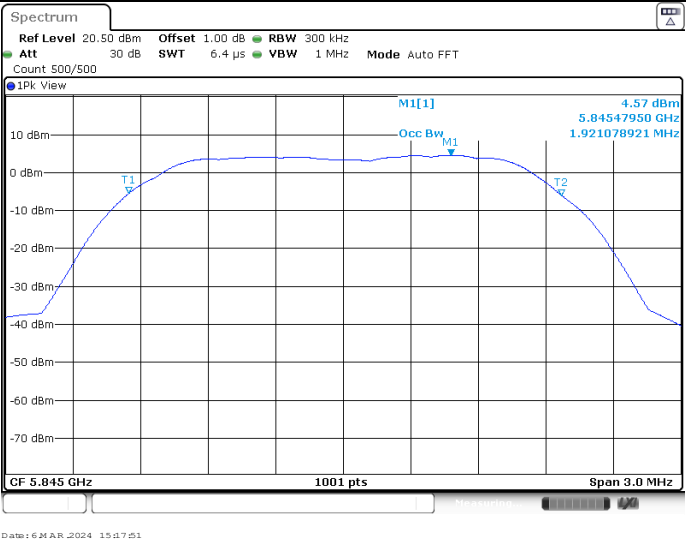
CH_L



CH_M



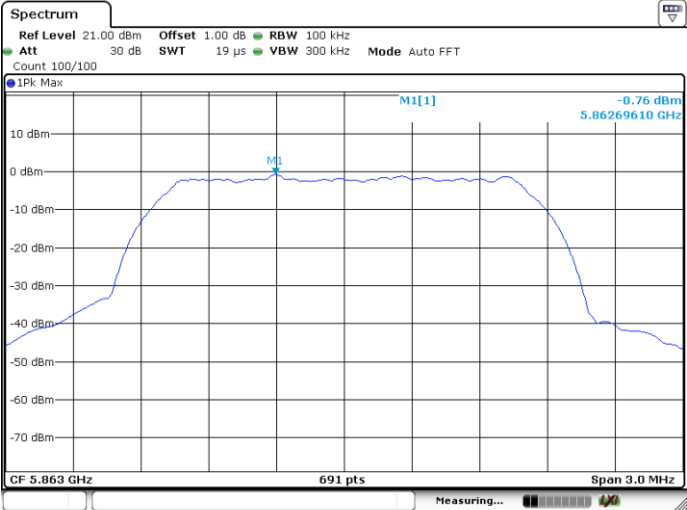
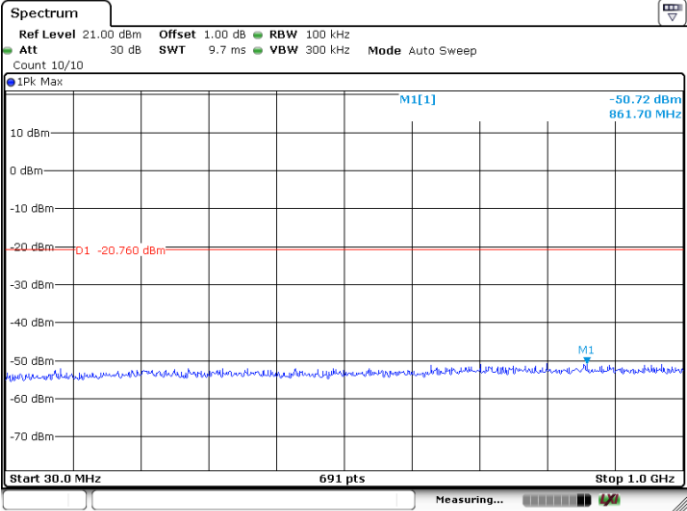
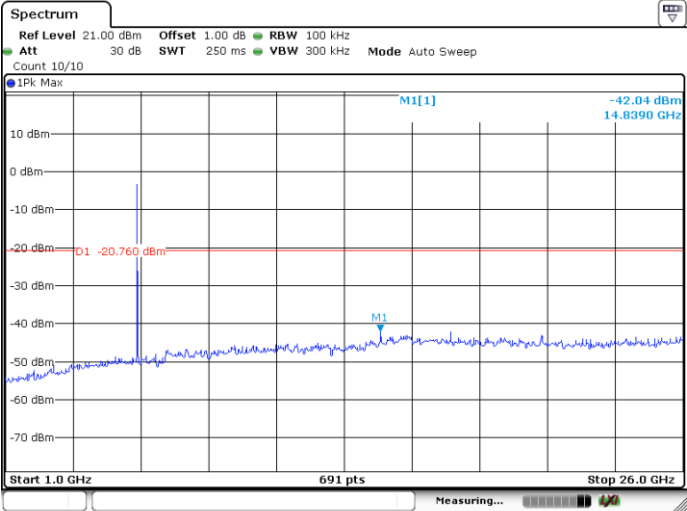
CH_H

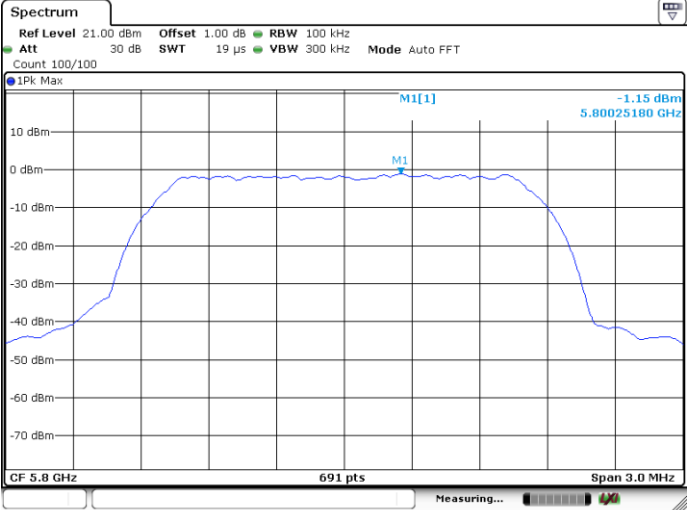
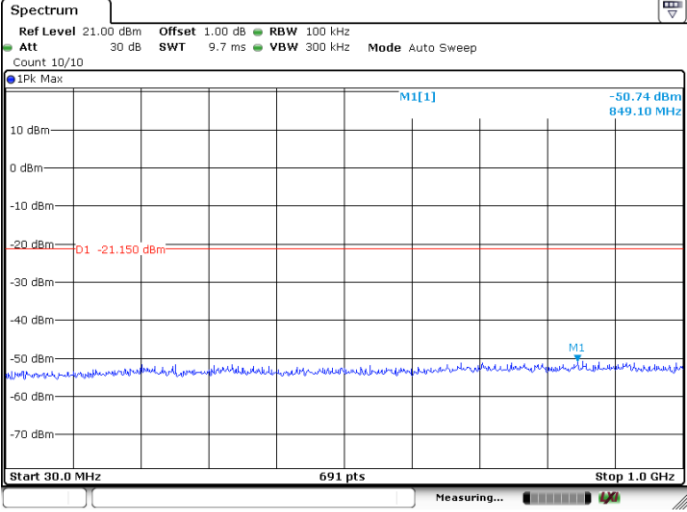
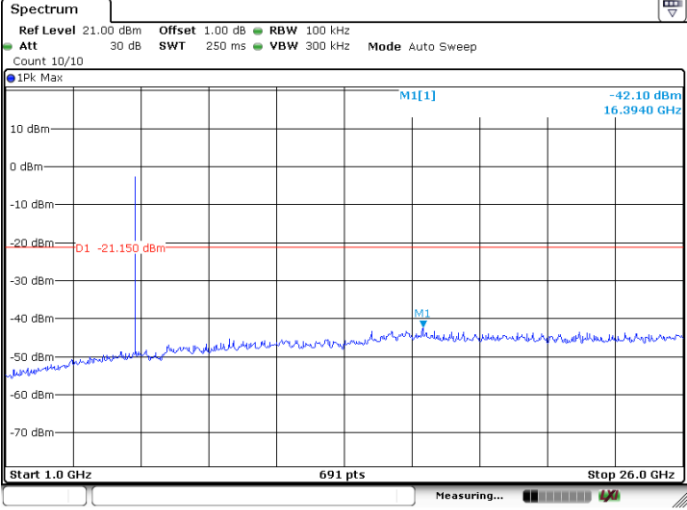


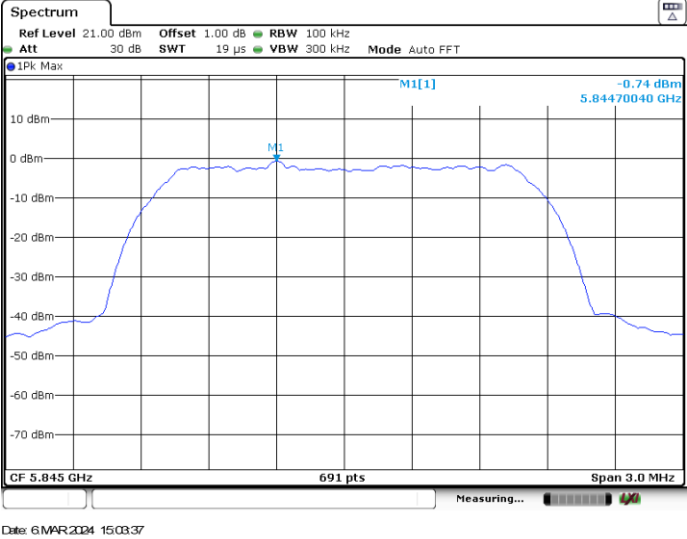
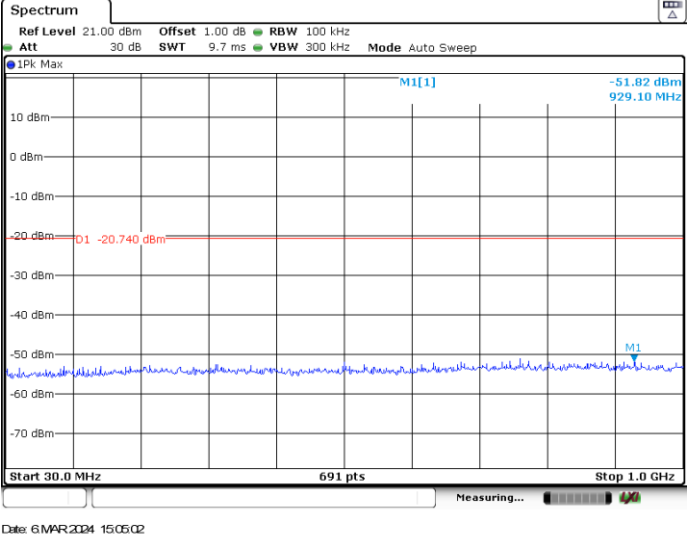
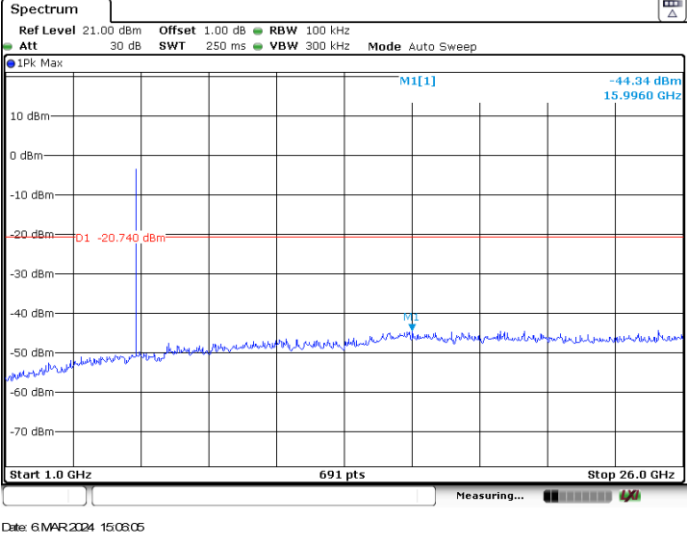
Appendix E: Band edge and Spurious Emissions (conducted)

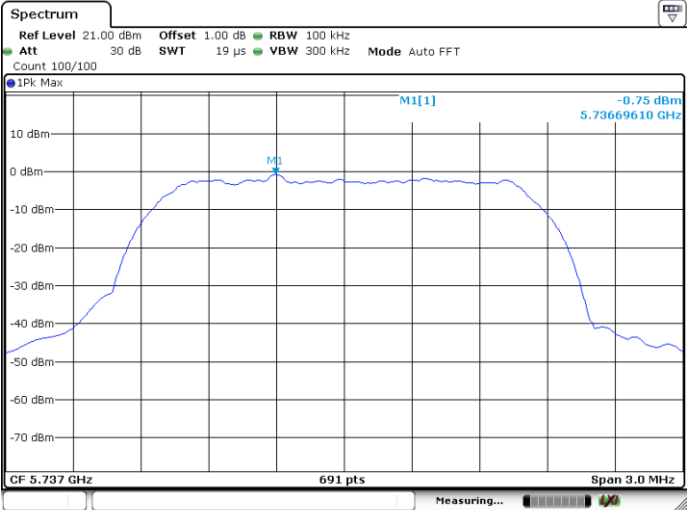
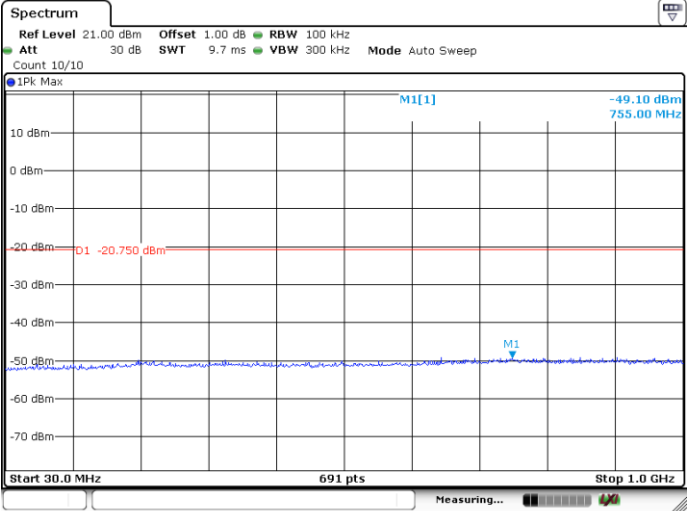
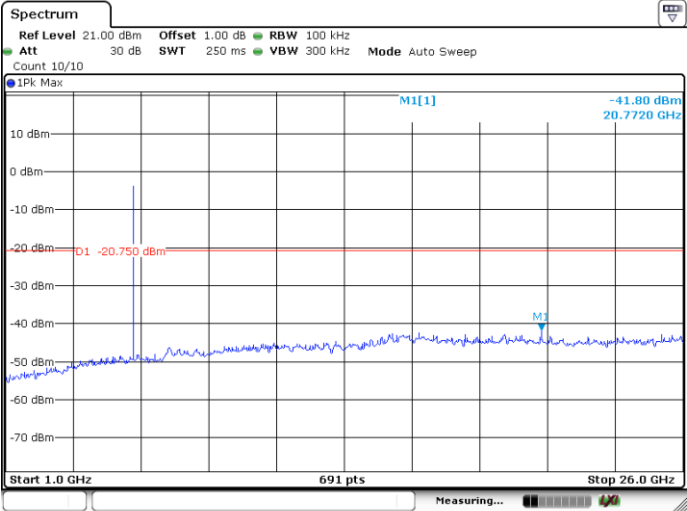
Test Item:	Bandedge	Antenna Type	LG
CH _L	Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M2[1] M1[1] M2 -51.68 dBm 5.699620 GHz -3.42 dBm 5.736710 GHz Start 5.64 GHz 691 pts Stop 5.75 GHz Measuring...		
CH _H	Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 94.8 μs 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 M2[1] M1[1] M1 M2 -52.41 dBm 5.8675040 GHz -1.90 dBm 5.8455070 GHz Start 5.835 GHz 691 pts Stop 5.875 GHz Measuring... Date: 6/MAR/2024 15:01:51		

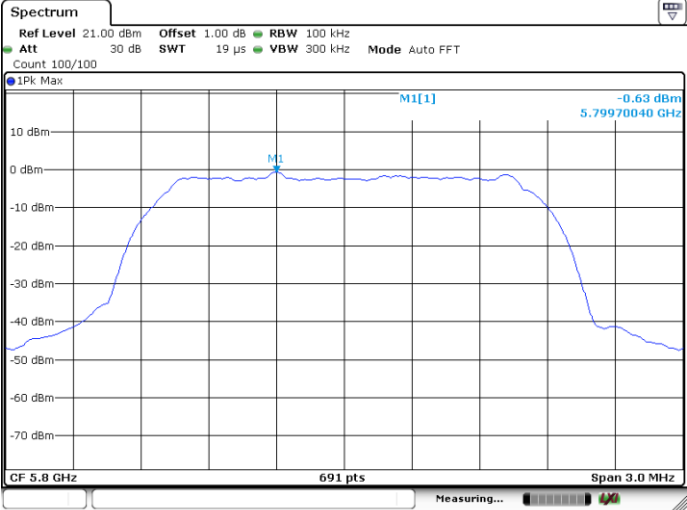
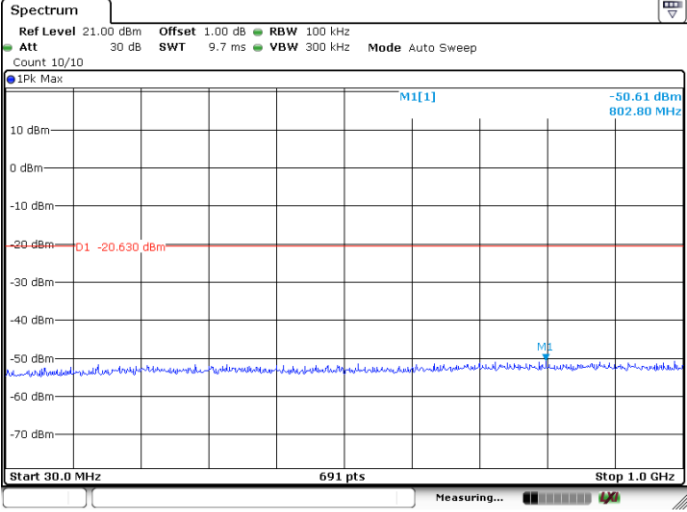
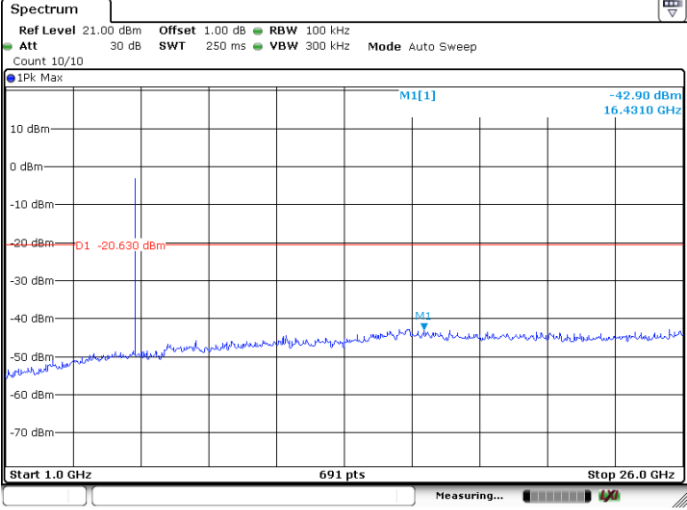
Test Item:	Bandedge	Antenna Type	HG
CH _L	Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max M2[1] -51.07 dBm 5.699620 GHz M1[1] -2.68 dBm 5.736550 GHz D1 -22.680 dBm M2 Start 5.64 GHz 691 pts Stop 5.75 GHz Measuring...		
CH _H	Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 94.8 μs VBW 300 kHz Mode Auto FFT 1Pk Max M2[1] -51.58 dBm 5.8682560 GHz M1[1] -0.92 dBm 5.8448700 GHz D1 -20.920 dBm M2 Start 5.835 GHz 691 pts Stop 5.875 GHz Measuring...		

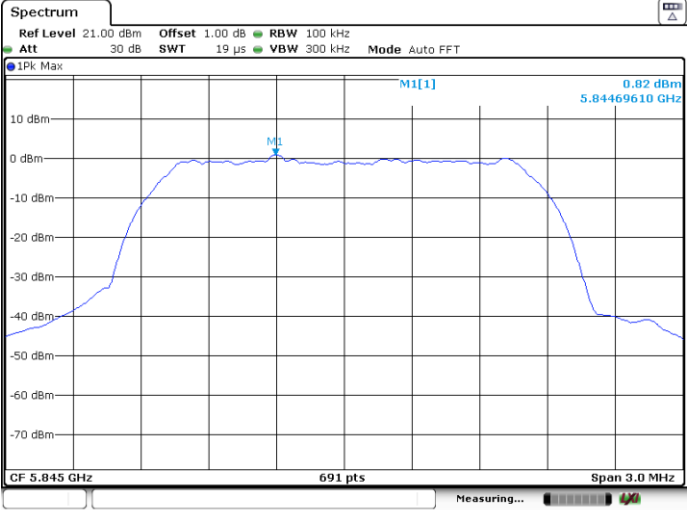
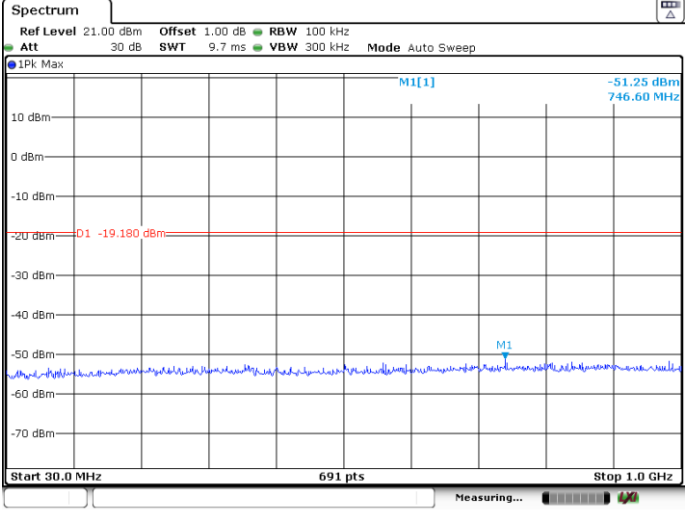
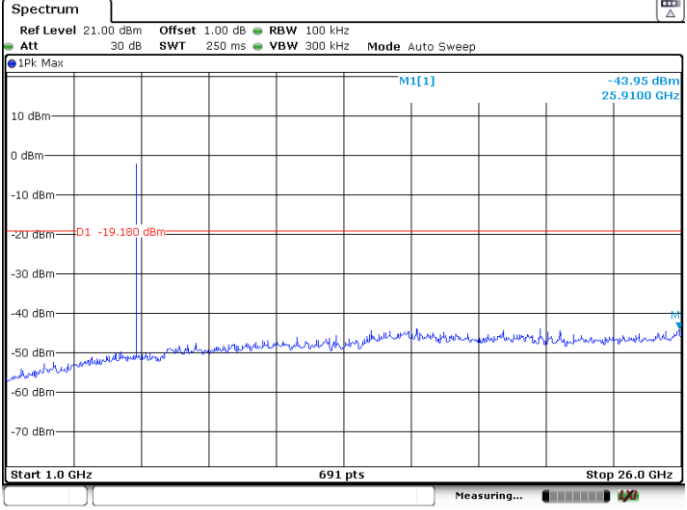
Test Item:	Spurious Emissions	Antenna Type	LG
CHL Reference level			
CHL 30MHz~1000MHz			
CHL 1GHz~26GHz			

CH_M Reference level	
CH_M 30MHz~1000MHz	
CH_M 1GHz~26GHz	

CH_H Reference level	 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 19 µs VBW 300 kHz Mode Auto FFT 1Pk Max M1[1] -0.74 dBm 5.84470040 GHz CF 5.845 GHz 691 pts Span 3.0 MHz Date: 6 MAR 2024 15:03:37
CH_H 30MHz~1000MHz	 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep 1Pk Max M1[1] -51.82 dBm 929.10 MHz D1 -20.740 dBm Start 30.0 MHz 691 pts Stop 1.0 GHz Date: 6 MAR 2024 15:05:02
CH_H 1GHz~26GHz	 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep 1Pk Max M1[1] -44.34 dBm 15.9960 GHz D1 -20.740 dBm Start 1.0 GHz 691 pts Stop 26.0 GHz Date: 6 MAR 2024 15:05:05

Test Item:	Spurious Emissions	Antenna Type	HG
CHL Reference level			
CHL 30MHz~1000MHz			
CHL 1GHz~26GHz			

CH_M Reference level	
CH_M 30MHz~1000MHz	
CH_M 1GHz~26GHz	

CH_H Reference level	 Date: 6 MAR 2024 15:26:29
CH_H 30MHz~1000MHz	 Date: 6 MAR 2024 15:27:19
CH_H 1GHz~26GHz	 Date: 6 MAR 2024 15:27:53

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