

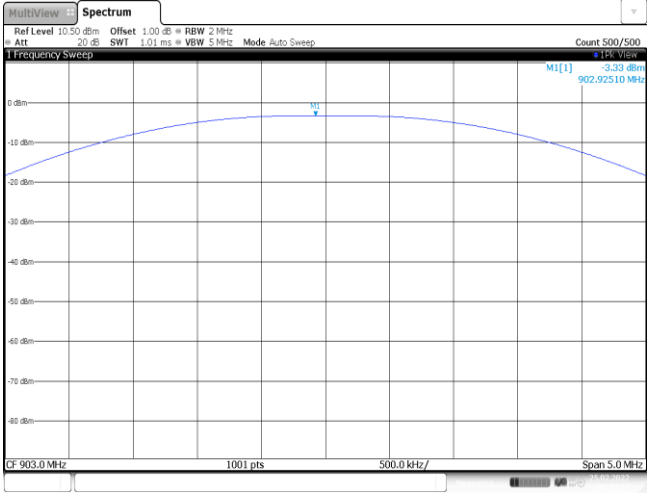
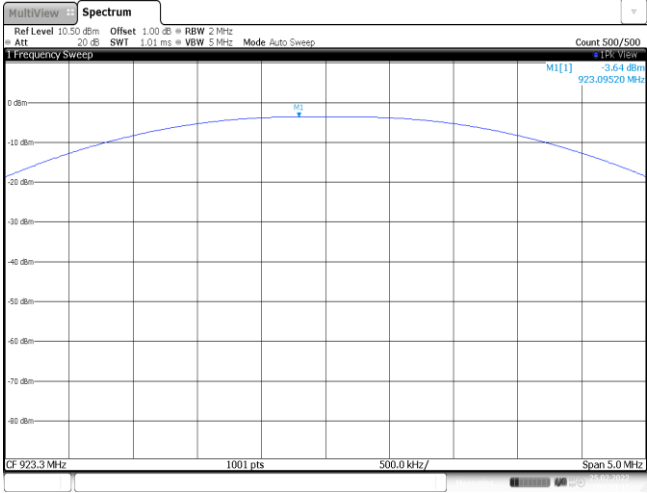
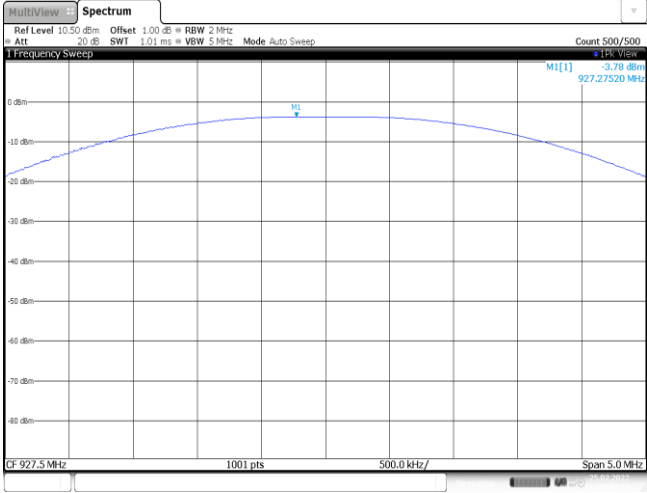
APPENDIX REPORT

Project No.	SHT2202012302EW		
Test sample No.	YPHT21100680014	Model No.	E22-900T22S 1B
Start test date	2022-02-25	Finish date	2022-02-25
Temperature	24.4℃	Humidity	40%
Test Engineer	Xiaoqin Li	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

Channel	Peak Output power (dBm)	Limit (dBm)	Antenna Gain (dBi)	Maximum e.r.i.p. (dBm)	EIRP Limit (dBm)	Result
CH _L	-3.33	≤30.00	2.40	-0.93	≤ 36.00	Pass
CH _M	-3.64		2.40	-1.24		
CH _H	-3.78		2.40	-1.38		

CH _L	 MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB BW 2 MHz Att 20 dB SWF 1.01 ms VBW 5 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] -3.33 dBm 902.92510 MHz CF 903.0 MHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 25.FEB.2022 09:27:08
CH _M	 MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB BW 2 MHz Att 20 dB SWF 1.01 ms VBW 5 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] -3.64 dBm 923.09520 MHz CF 923.3 MHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 25.FEB.2022 09:33:48
CH _H	 MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB BW 2 MHz Att 20 dB SWF 1.01 ms VBW 5 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] -3.78 dBm 927.27520 MHz CF 927.5 MHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 25.FEB.2022 09:37:32

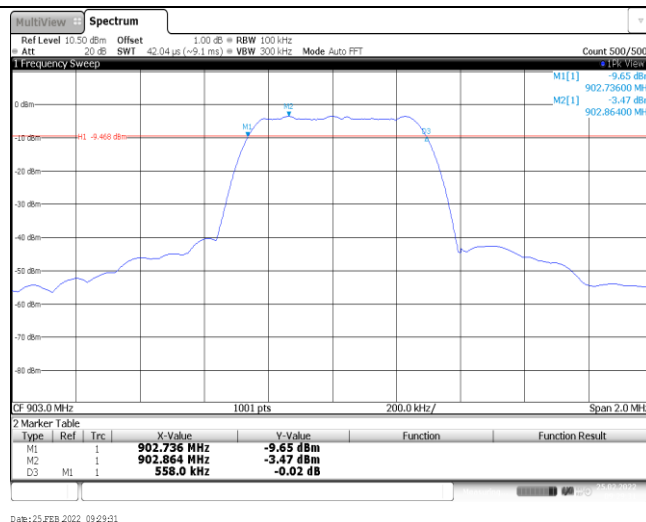
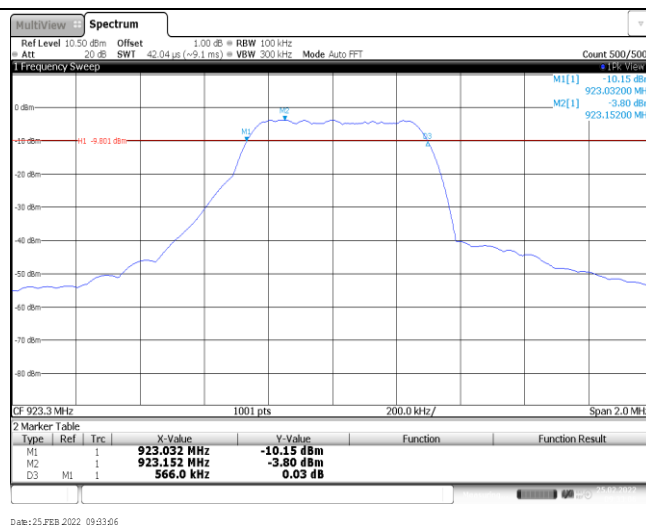
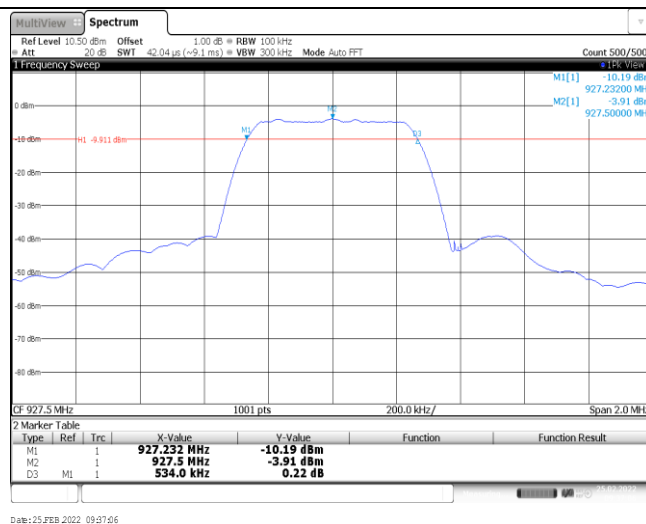
Appendix B: Power Spectral Density

Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
CH _L	-3.47	≤8.00	Pass
CH _M	-4.00		
CH _H	-3.95		

Chemical Shift	Frequency (MHz)	Power (dBm)	Bandwidth (kHz)	Span (MHz)
CH _L	903.0	-12.47	10	1.0
CH _M	923.3	-4.00	10	1.0
CH _H	927.5	-3.95	10	1.0

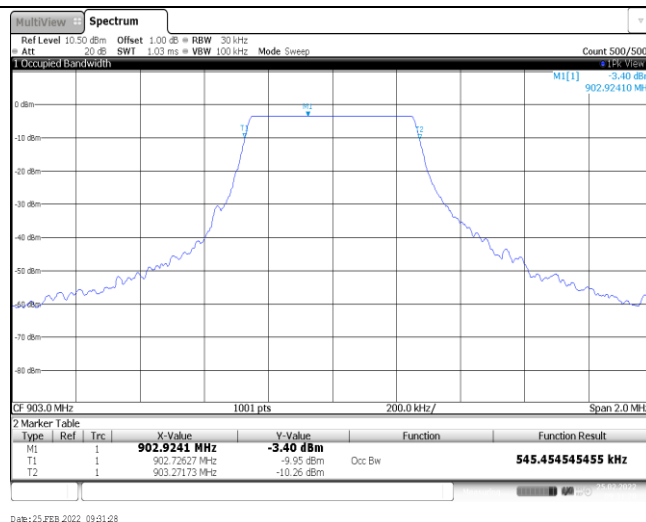
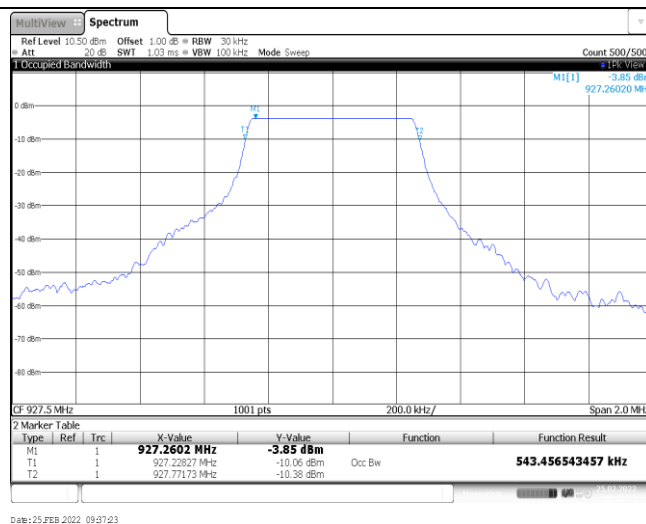
Appendix C: 6dB bandwidth

Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
CH _L	558.00	≥500	Pass
CH _M	566.00		
CH _H	534.00		

CH_LCH_MCH_H

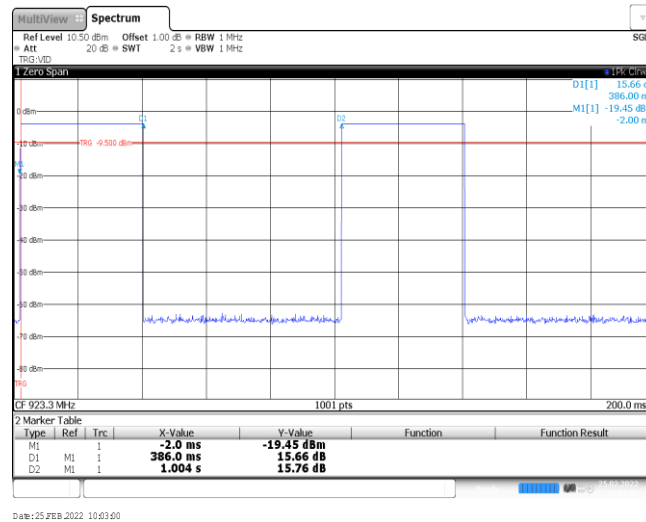
Appendix D: 99% Occupied Bandwidth

Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
CH _L	0.55	-	Pass
CH _M	0.54		
CH _H	0.54		

CH_LCH_MCH_H

Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (s)	T _{period} (s)	Duty cycle	1/T _{on} time (kHz)
2442	0.386	1.004	38.5%	0.003



Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:

CH_L

Spectrum

Ref Level 10.50 dBm Offset 1.00 dB BW 100 kHz
Att 19.0 dB SWI 41.88 μs (≈7.1 ms) VBW 300 kHz Mode Auto FFT Count 100/100

1 Frequency Sweep

CF 902.0 MHz 1001 pts 600.0 kHz/ Span 6.0 MHz

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		902.8092 MHz	-3.26 dBm		
M2	1		902.0 MHz	-54.32 dBm		

Date: 25.FEB.2022 11:27:50

CH_H

Spectrum

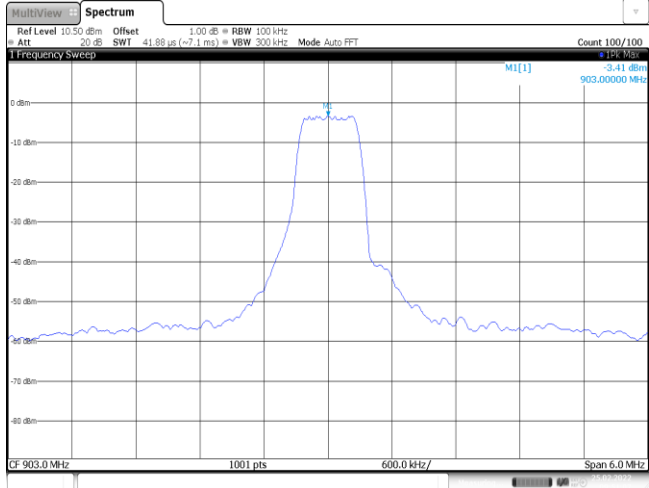
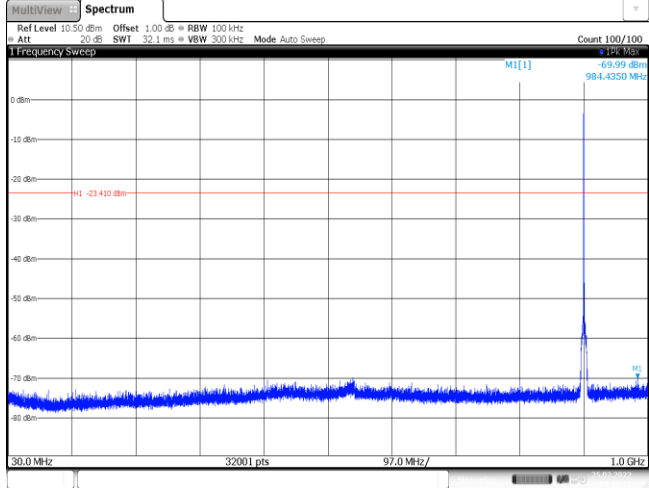
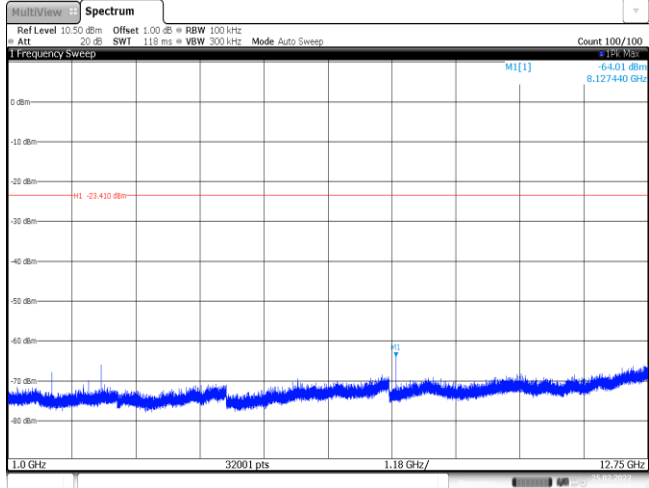
Ref Level 10.50 dBm Offset 1.00 dB BW 100 kHz
Att 19.0 dB SWI 41.88 μs (≈7.1 ms) VBW 300 kHz Mode Auto FFT Count 100/100

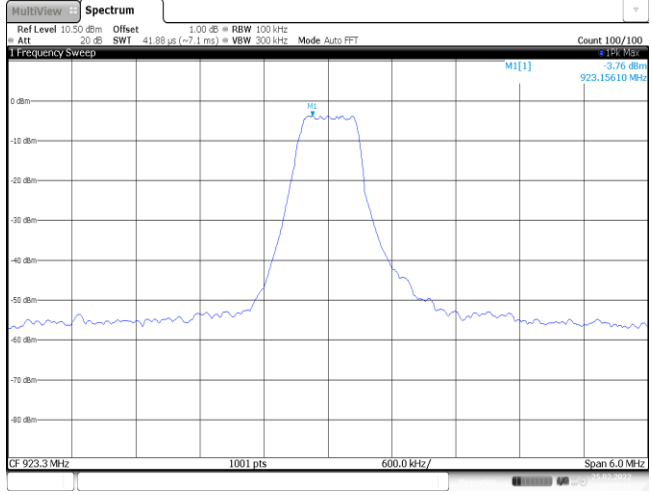
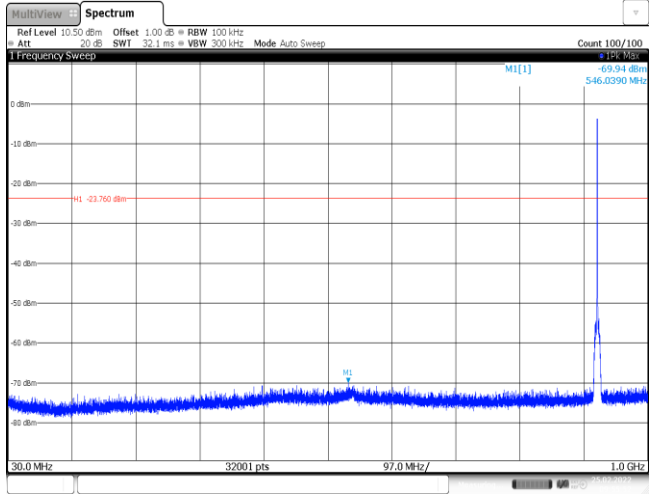
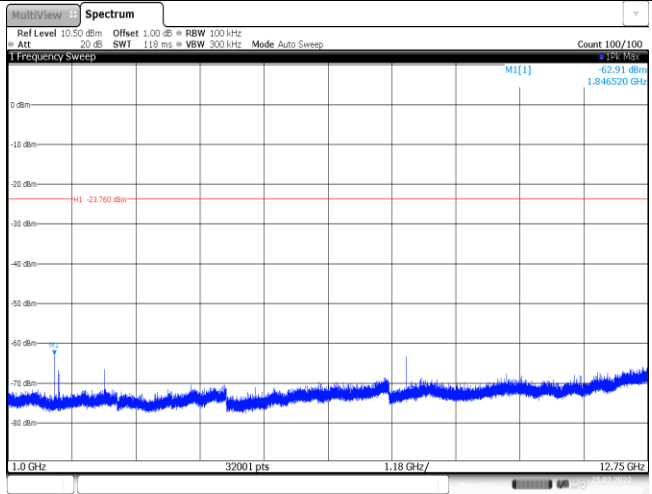
1 Frequency Sweep

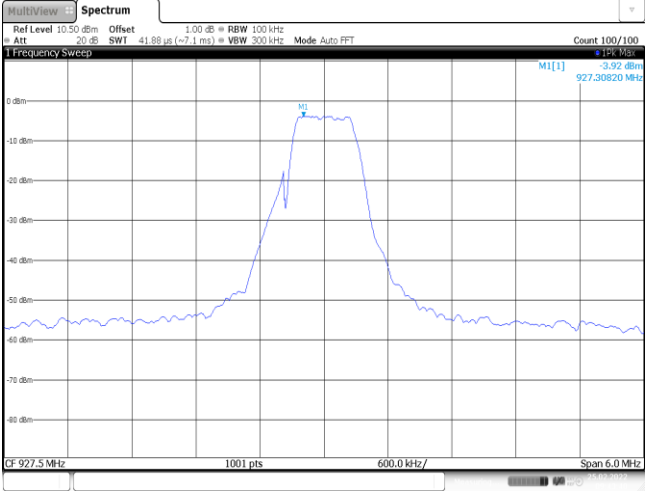
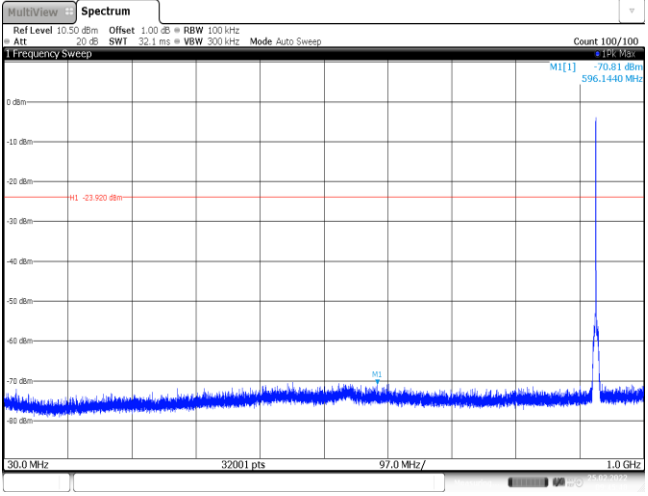
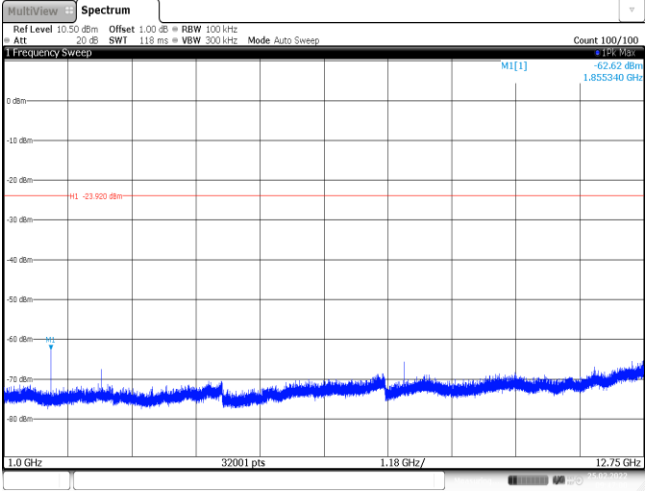
CF 928.0 MHz 1001 pts 600.0 kHz/ Span 6.0 MHz

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		927.3526 MHz	-3.71 dBm		
M2	1		928.0 MHz	-34.20 dBm		

Date: 25.FEB.2022 11:24:21

Test Item:	SE
CH_L Reference level	 Ref Level 10.50 dBm Offset 1.00 dB BW 100 kHz Att 20 dB SWI 41.88 μs (~7.1 ms) VBW 300 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep 0 dBm -20 dBm -40 dBm -60 dBm -80 dBm 903.0 MHz 1001 pts 600.0 kHz/ Span 6.0 MHz M1[1] -3.41 dBm 903.00000 MHz Date: 25.FEB.2022 09:51:07
CH_L 30MHz~1000MHz	 Ref Level 10.50 dBm Offset 1.00 dB BW 100 kHz Att 20 dB SWI 32.1 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep 0 dBm -20 dBm -40 dBm -60 dBm -80 dBm 30.0 MHz 32001 pts 97.0 MHz/ 1.0 GHz M1[1] -69.99 dBm 984.4350 MHz M1 -23.410 dBm Date: 25.FEB.2022 09:51:51
CH_L 1GHz~26GHz	 Ref Level 10.50 dBm Offset 1.00 dB BW 100 kHz Att 20 dB SWI 118 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep 0 dBm -20 dBm -40 dBm -60 dBm -80 dBm 1.0 GHz 32001 pts 1.18 GHz/ 12.75 GHz M1[1] -64.01 dBm 8.127440 GHz M1 -23.410 dBm Date: 25.FEB.2022 09:52:44

CH_M Reference level	 Date: 25 FEB 2022 09:55:11
CH_M 30MHz~1000MHz	 Date: 25 FEB 2022 09:55:53
CH_M 1GHz~26GHz	 Date: 25 FEB 2022 09:56:46

CH_H Reference level	 MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 41.88 μs (±0.1 ms) VBW 300 kHz Mode Auto FFT Count 100/100 Frequency Sweep M1[1] -3.92 dBm 927.30820 MHz CF 927.5 MHz 1001 pts 600.0 kHz/ Span 6.0 MHz Date: 25 FEB 2022 09:43:41
CH_H 30MHz~1000MHz	 MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 32.1 ms VBW 300 kHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] -70.81 dBm 596.1440 MHz M2 30.0 MHz 32001 pts 97.0 MHz/ 1.0 GHz Date: 25 FEB 2022 09:45:48
CH_H 1GHz~26GHz	 MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 118 ms VBW 300 kHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] -62.62 dBm 1.855340 GHz M2 1.0 GHz 32001 pts 1.18 GHz/ 12.75 GHz Date: 25 FEB 2022 09:47:00

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