

5.8G Test Data

1.1 Frequency Stability

Test Result

Condition	Mode	Ch.	Antenna	Center Frequency (MHz)	Calculated Value of Center Frequency(MHz)	Result (ppm)	Limit (ppm)	State
NT/NV	GFSK	0	0	5740.0	5739.960680	-6.85	Within authorized band	PASS
		1		5790.0	5789.957680	-7.31		PASS
		2		5840.0	5839.959680	-6.9		PASS
NT/NV	GFSK	0	1	5740.0	5739.961368	-6.73	Within authorized band	PASS
		1		5790.0	5789.958743	-7.13		PASS
		2		5840.0	5839.956355	-7.47		PASS
LT/LV	GFSK	0	0	5740.0	5739.973753	-4.57	Within authorized band	PASS
		1		5790.0	5789.947654	-9.04		PASS
		2		5840.0	5839.982200	-3.05		PASS
LT/LV	GFSK	0	1	5740.0	5739.979677	-3.54	Within authorized band	PASS
		1		5790.0	5789.969665	-5.24		PASS
		2		5840.0	5839.980904	-3.27		PASS
HT/HV	GFSK	0	0	5740.0	5739.944668	-9.64	Within authorized band	PASS
		1		5790.0	5789.971524	-4.92		PASS
		2		5840.0	5839.995190	-0.82		PASS
HT/HV	GFSK	0	1	5740.0	5739.998897	-0.19	Within authorized band	PASS
		1		5790.0	5789.960227	-6.87		PASS
		2		5840.0	5839.959227	-6.98		PASS
LT/HV	GFSK	0	0	5740.0	5739.966731	-5.80	Within authorized band	PASS
		1		5790.0	5789.981376	-3.22		PASS
		2		5840.0	5839.969661	-5.20		PASS
LT/HV	GFSK	0	1	5740.0	5739.954974	-7.84	Within authorized band	PASS
		1		5790.0	5789.980587	-3.35		PASS
		2		5840.0	5839.980742	-3.30		PASS

HT/LV	GFSK	0	0	5740.0	5739.992358	-1.33	Within authorized band	PASS
		1		5790.0	5789.992661	-1.27		PASS
		2		5840.0	5839.981051	-3.24		PASS
HT/LV	GFSK	0	1	5740.0	5739.990506	-1.65	Within authorized band	PASS
		1		5790.0	5789.961324	-6.68		PASS
		2		5840.0	5839.948054	-8.89		PASS



1.2 Conducted Output Power

Conducted output power

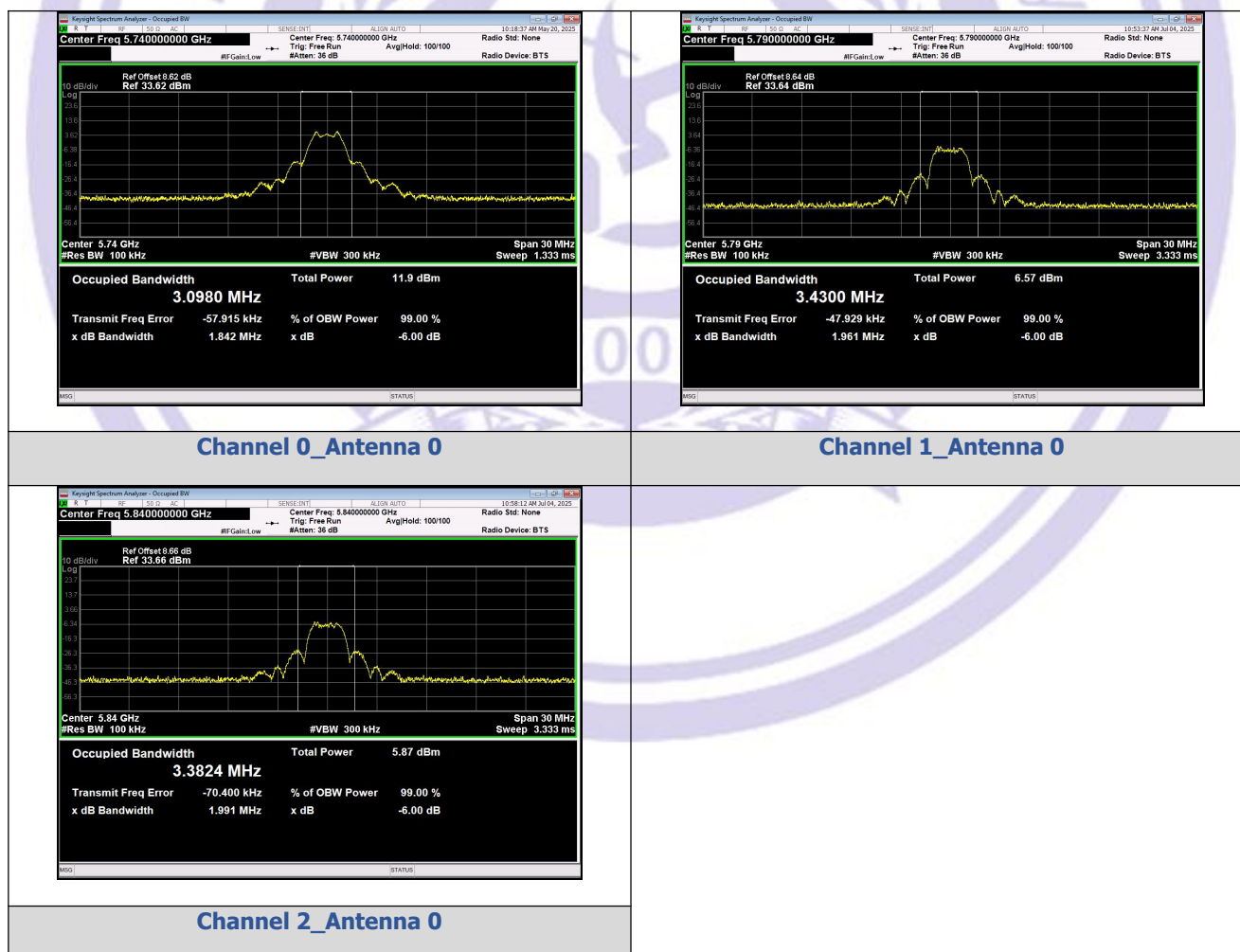
Channel	Ant. 0 (dBm)	Ant. 1 (dBm)	MIMO (dBm)	Limit (dBm)	Result
0	0.626	1.34	4.01	≤24	PASS
1	-0.504	0.251	2.90	≤30	PASS
2	-0.196	-0.272	2.78	≤30	PASS

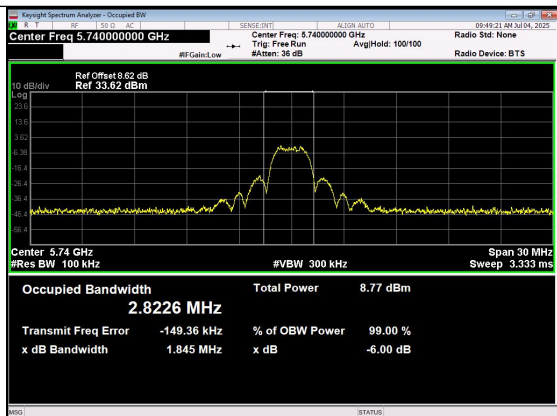
1.3 6dB Bandwidth

Test Result

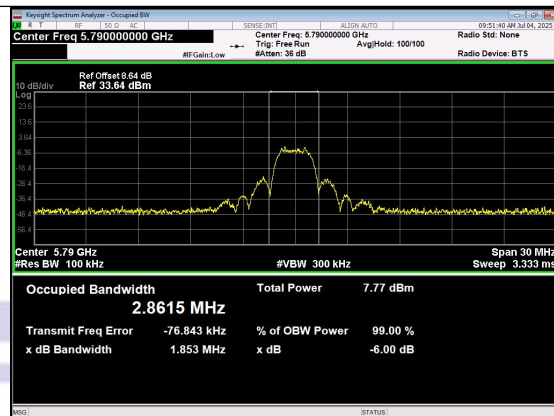
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
GFSK	0	0	5740	1.842	≥0.5	PASS
	1		5790	1.961		PASS
	2		5840	1.991		PASS
GFSK	0	1	5740	1.845	≥0.5	PASS
	1		5790	1.853		PASS
	2		5840	1.912		PASS

Test Graphs

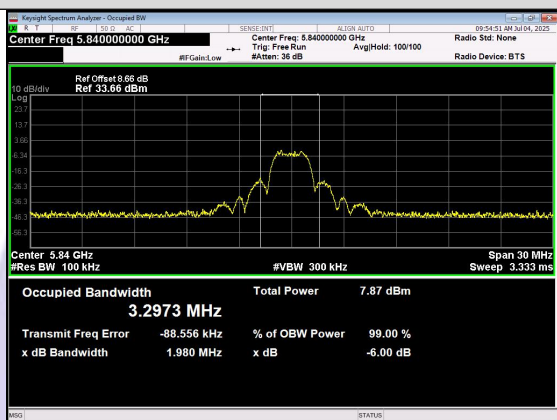




Channel 0_Antenna 1



Channel 1_Antenna 1



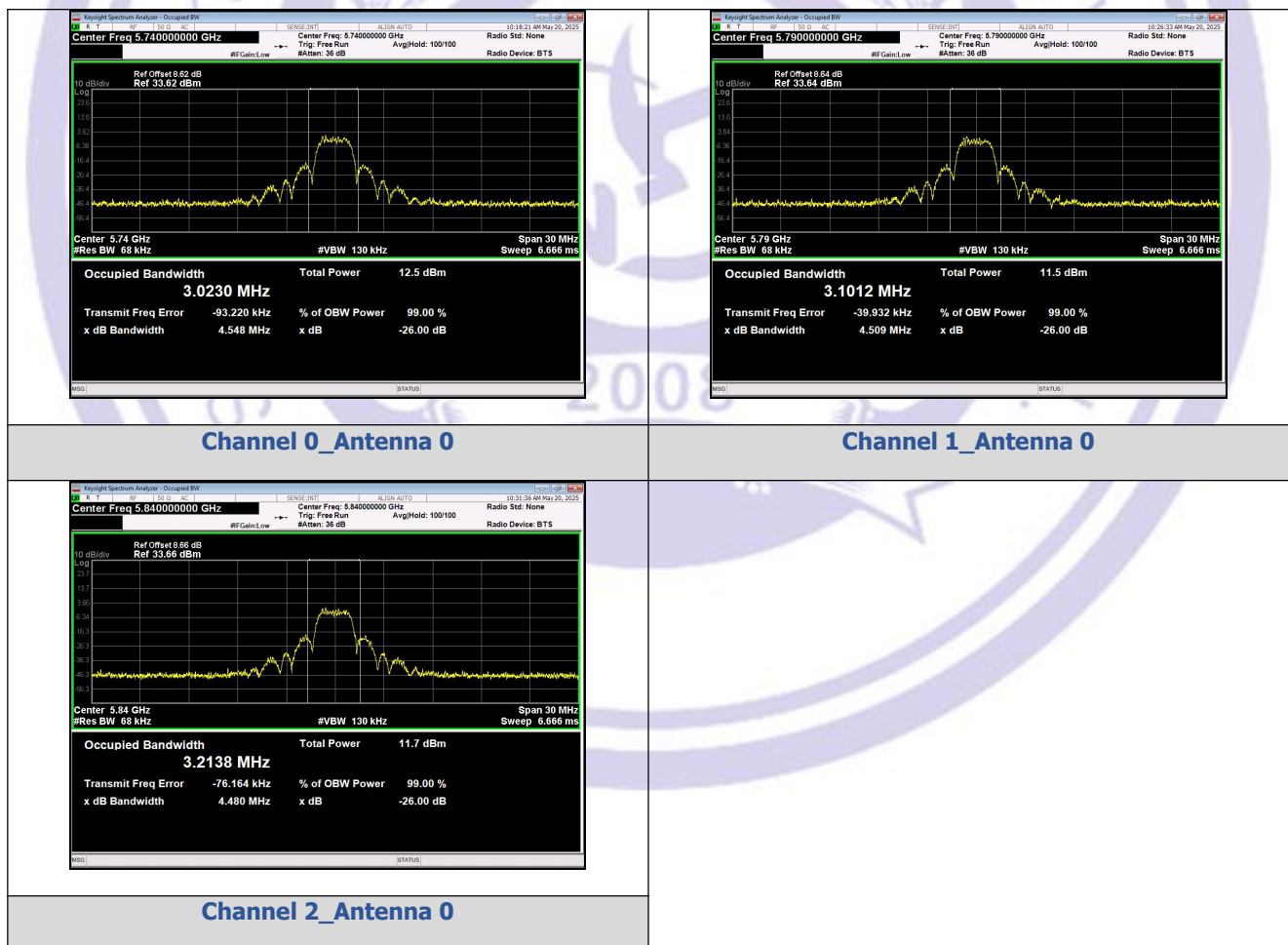
Channel 2_Antenna 1

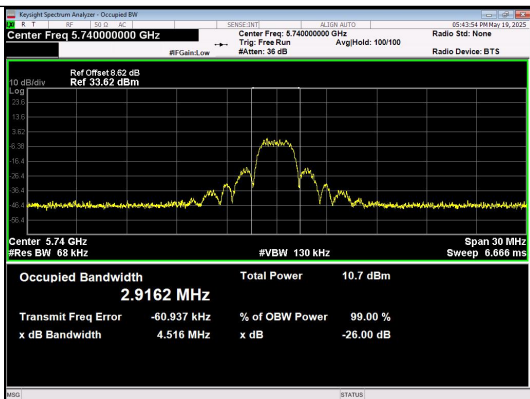
1.4 26dB Bandwidth

Test Result

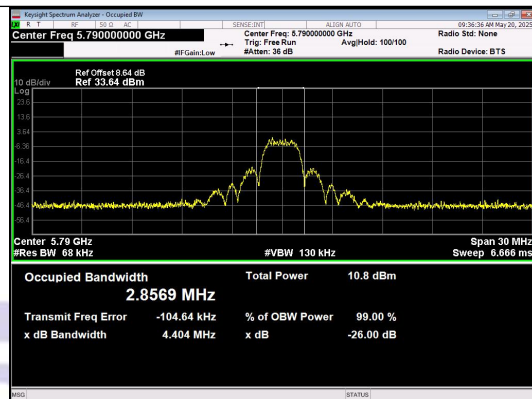
Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
GFSK	0	0	5720	4.548	1.44
	1		5785	4.509	1.45
	2		5825	4.480	1.45
GFSK	0	1	5720	4.516	1.44
	1		5785	4.404	1.48
	2		5825	4.555	1.44

Test Graphs

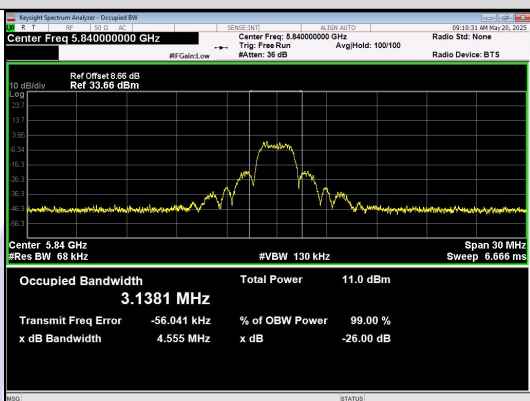




Channel 0_Antenna 1



Channel 1_Antenna 1



Channel 2_Antenna 1

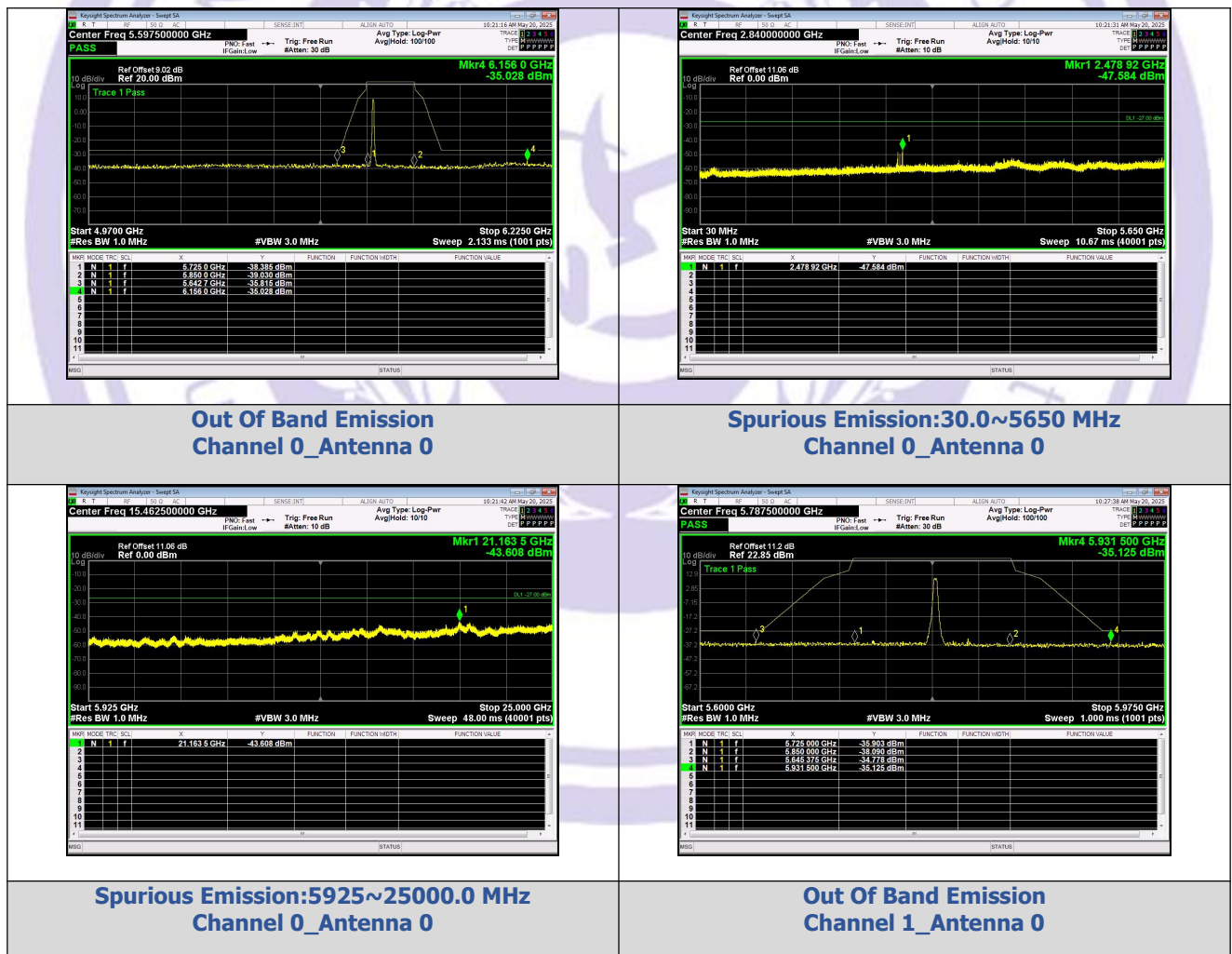
1.5 Conducted Out Of Band Emission

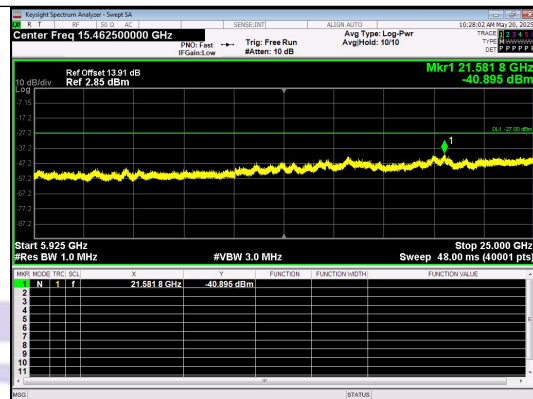
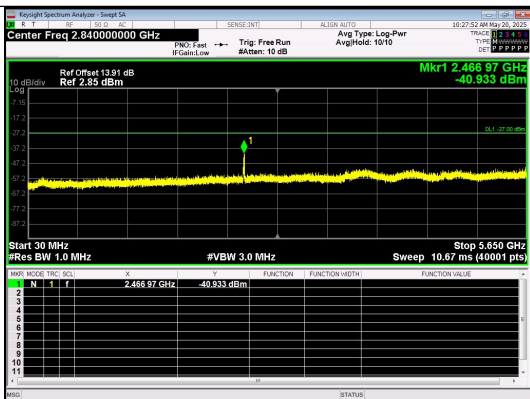
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	0	0	2478.91	-47.584	-27	-20.580	PASS
			5642.68	-35.815	-27	-8.815	PASS
			5725.00	-38.385	27	-65.380	PASS
			5850.00	-39.030	27	-66.030	PASS
			6155.98	-35.028	-27	-8.028	PASS
			21163.5	-43.608	-27	-16.610	PASS
	1		2466.97	-40.933	-27	-13.930	PASS
			5645.38	-34.778	-27	-7.778	PASS
			5725.00	-35.903	27	-62.900	PASS
			5850.00	-38.090	27	-65.090	PASS
			5931.50	-35.125	-27	-8.125	PASS
			21581.8	-40.895	-27	-13.900	PASS
	2		2518.68	-46.517	-27	-19.520	PASS
			5644.62	-34.521	-27	-7.521	PASS
			5725.00	-36.530	27	-63.530	PASS
			5850.00	-33.386	27	-60.390	PASS
			5945.75	-35.477	-27	-8.477	PASS
			21240.8	-41.607	-27	-14.610	PASS
GFSK	0	1	2467.53	-46.495	-27	-19.490	PASS
			5485.81	-35.479	-27	-8.479	PASS
			5725.00	-37.760	27	-64.760	PASS
			5850.00	-38.140	27	-65.140	PASS
			6194.88	-35.037	-27	-8.037	PASS
			21166.9	-43.987	-27	-16.990	PASS
	1		3862.14	-49.903	-27	-22.900	PASS
			5614.62	-34.273	-27	-7.272	PASS

2	5725.00	-36.126	27	-63.130	PASS
	5850.00	-37.540	27	-64.540	PASS
	5962.62	-35.356	-27	-8.357	PASS
	21143.0	-41.148	-27	-14.150	PASS
	5641.62	-34.742	-27	-7.742	PASS
	5647.47	-50.013	-27	-23.010	PASS
	5725.00	-35.166	27	-62.170	PASS
	5850.00	-37.862	27	-64.860	PASS
	5969.38	-35.075	-27	-8.075	PASS
	21193.1	-40.419	-27	-13.420	PASS

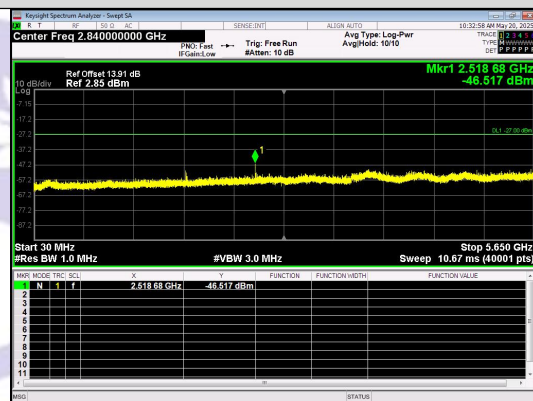
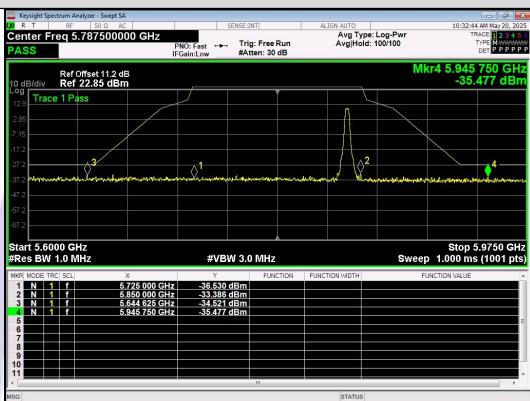
Test Graphs





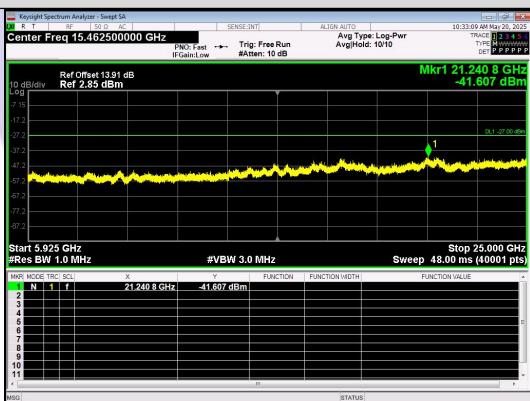
**Spurious Emission:30.0~5650 MHz
Channel 1_Antenna 0**

**Spurious Emission:5925~25000.0 MHz
Channel 1_Antenna 0**

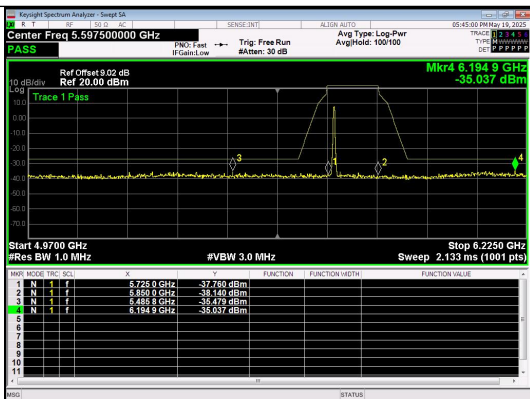


**Out Of Band Emission
Channel 2_Antenna 0**

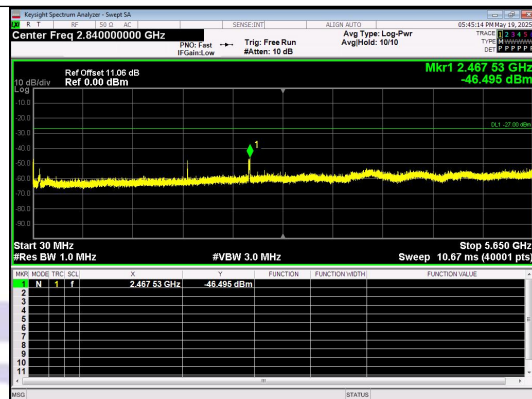
**Spurious Emission:30.0~5650 MHz
Channel 2_Antenna 0**



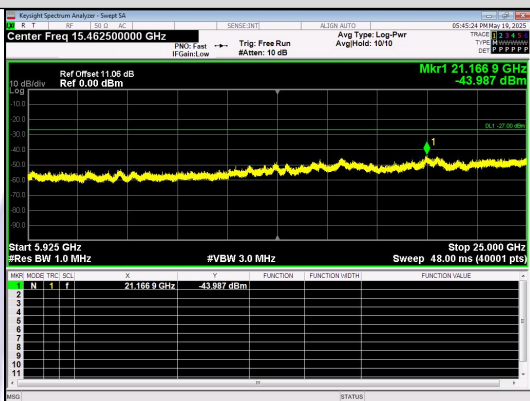
**Spurious Emission:5925~25000.0 MHz
Channel 2_Antenna 0**



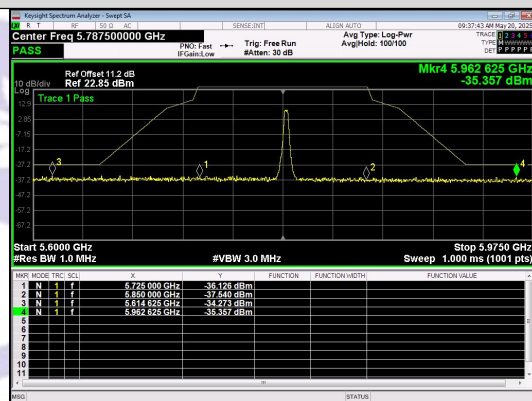
Out Of Band Emission
Channel 0_Antenna 1



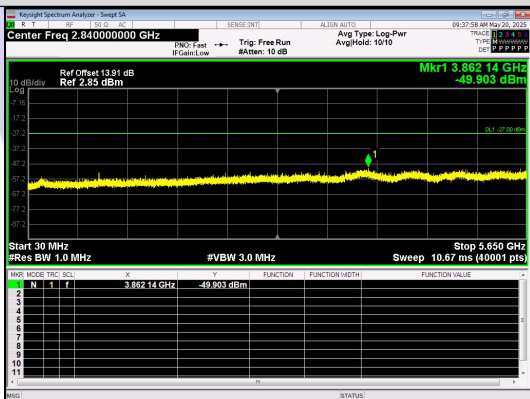
Spurious Emission:30.0~5650 MHz
Channel 0_Antenna 1



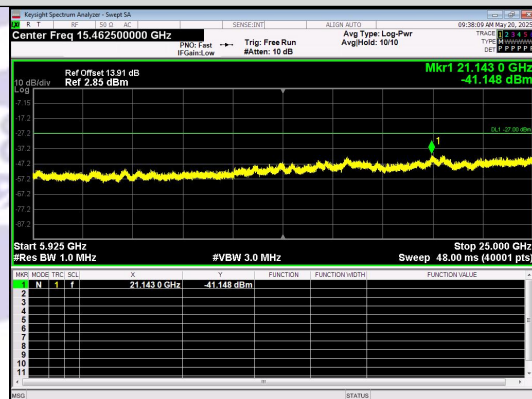
Spurious Emission:5925~25000.0 MHz
Channel 0_Antenna 1



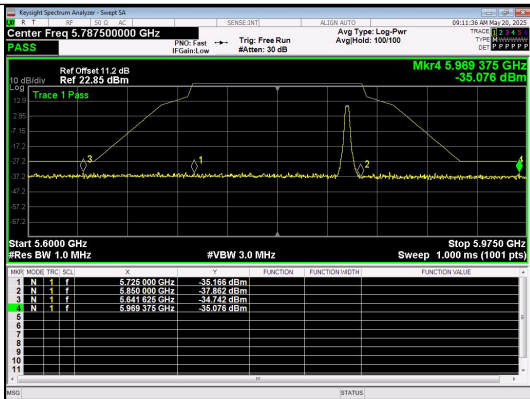
Out Of Band Emission
Channel 1_Antenna 1



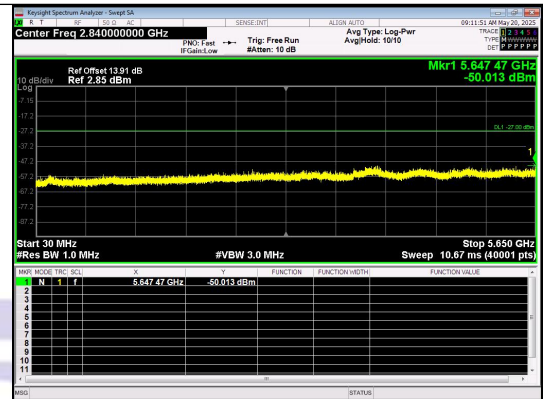
Spurious Emission:30.0~5650 MHz
Channel 1_Antenna 1



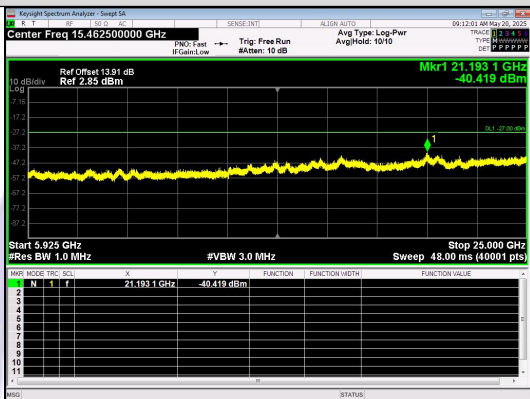
Spurious Emission:5925~25000.0 MHz
Channel 1_Antenna 1



**Out Of Band Emission
Channel 2_Antenna 1**



**Spurious Emission:30.0~5650 MHz
Channel 2_Antenna 1**



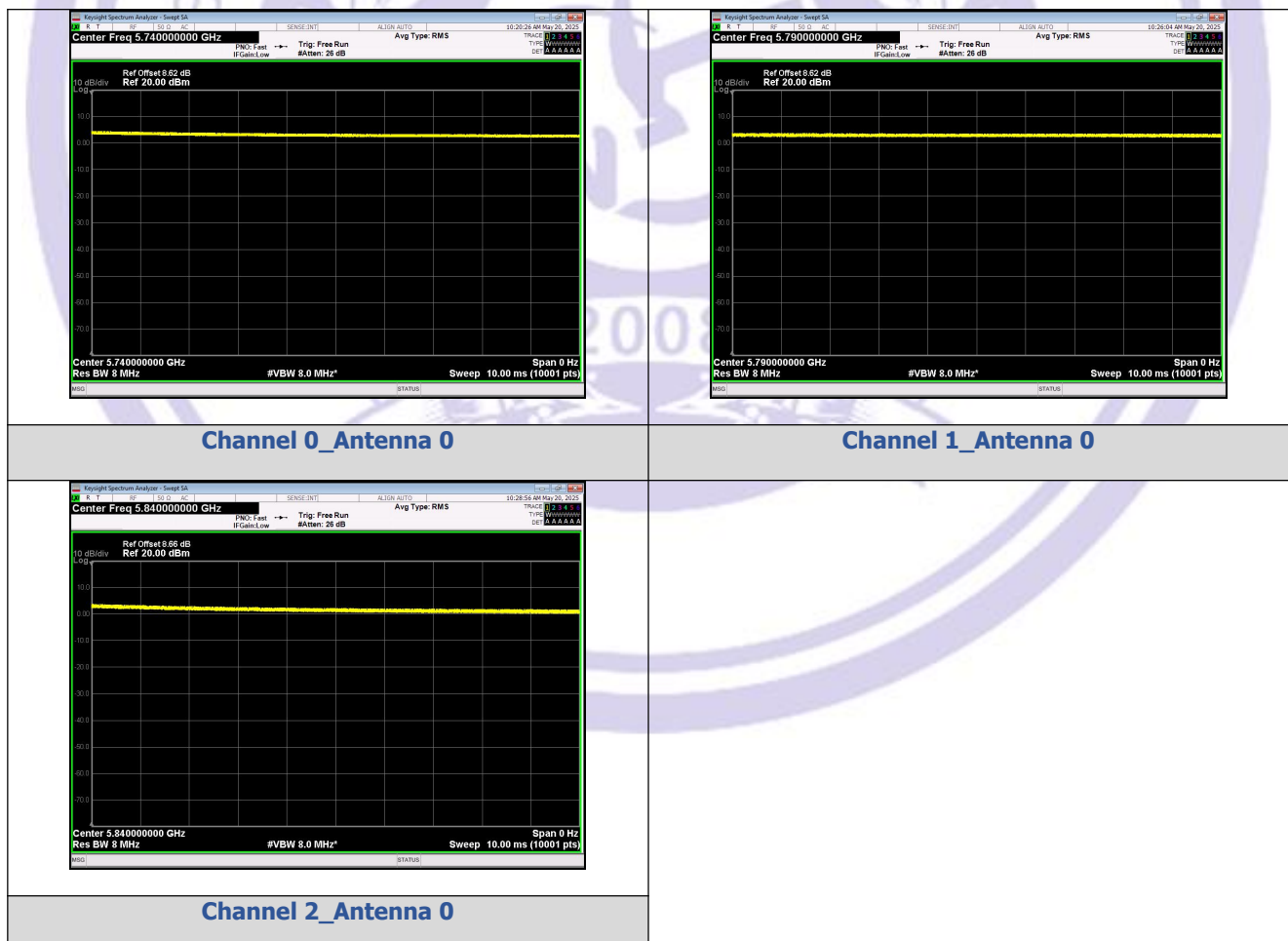
**Spurious Emission:5925~25000.0 MHz
Channel 2_Antenna 1**

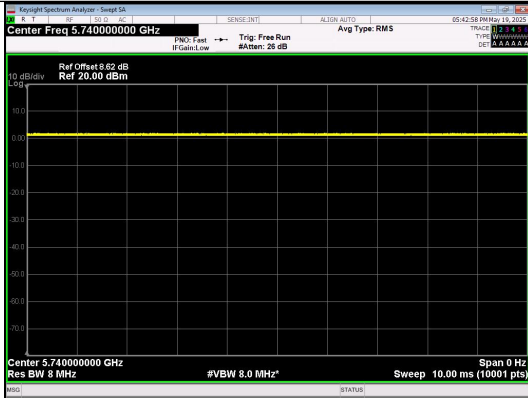
1.6 Duty Cycle

Test Result

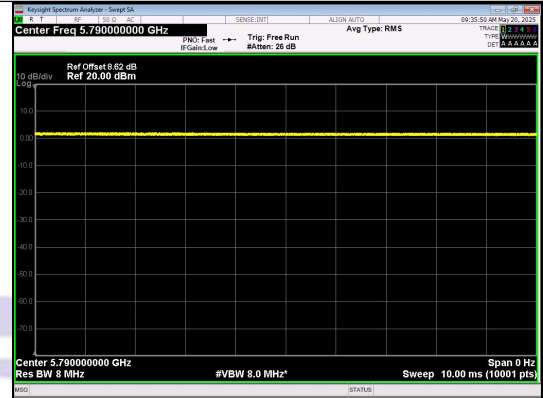
Mode	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	0	0	10.000	10.000	100	1	0.0	0.1000
	1		10.000	10.000	100	1	0.0	0.1000
	2		10.000	10.000	100	1	0.0	0.1000
GFSK	0	1	10.000	10.000	100	1	0.0	0.1000
	1		10.000	10.000	100	1	0.0	0.1000
	2		10.000	10.000	100	1	0.0	0.1000

Test Graphs

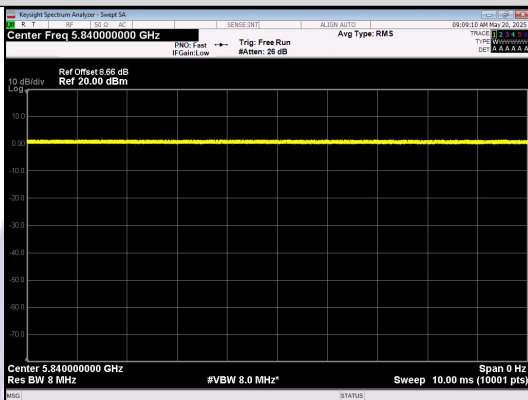




Channel 0_Antenna 1



Channel 1_Antenna 1



Channel 2_Antenna 1

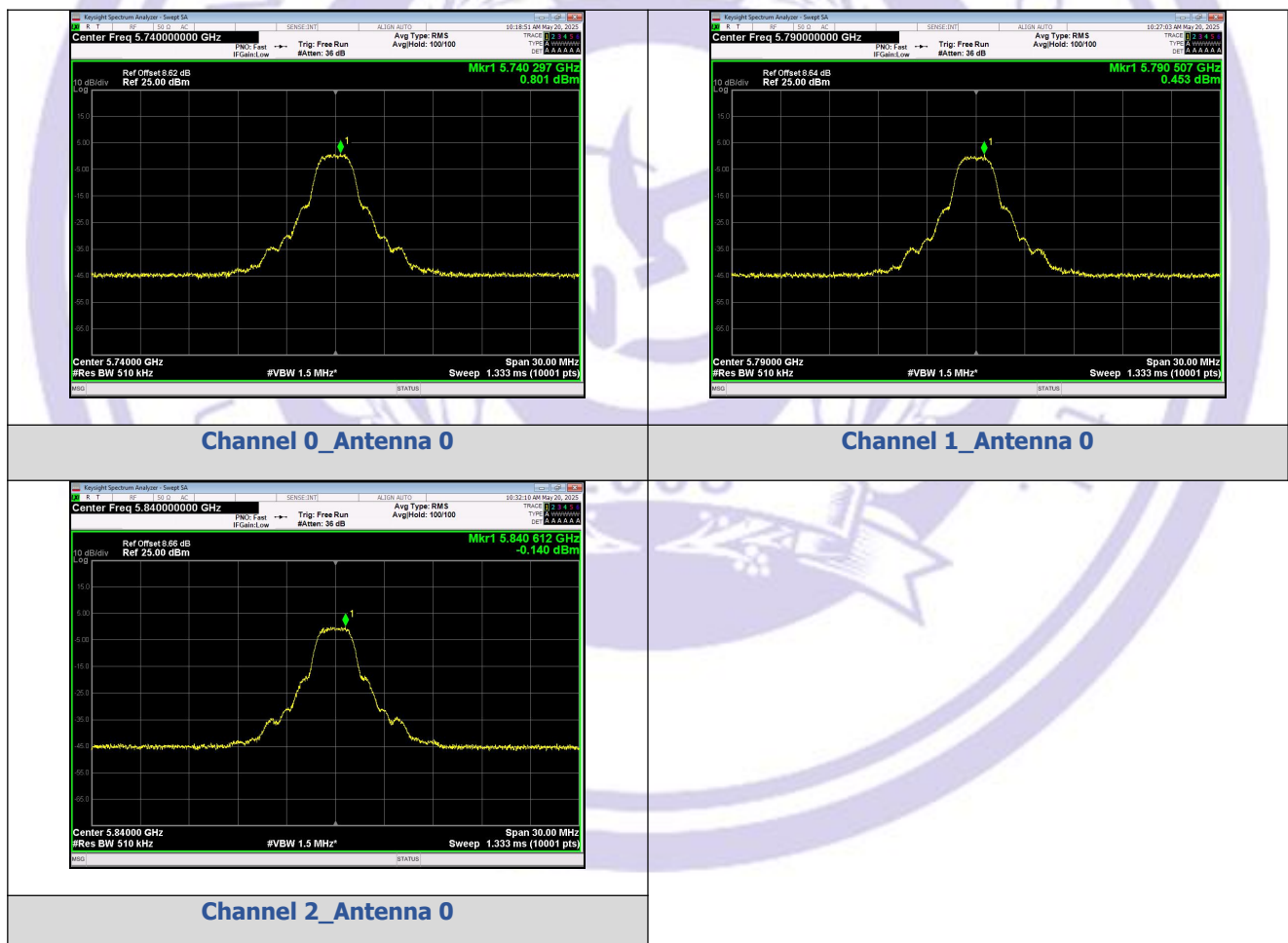
1.7 Peak Power Spectral Density

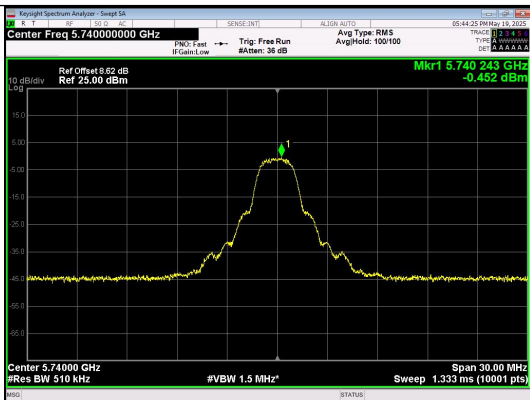
Test Result

Channel	Meas PSD (dBm/0.51MHz)	Meas PSD (dBm/0.51MHz)	PSD (dBm/0.51MHz)	PSD (dBm/0.5MHz)	Limit (dBm/MHz or dBm/0.5MHz)	Result
	ANT0	ANT1	MIMO	MIMO		
0	0.801	-0.452	3.230	3.144	30	PASS
1	0.453	-0.488	3.018	2.932		PASS
2	-0.140	0.112	2.998	2.912		PASS

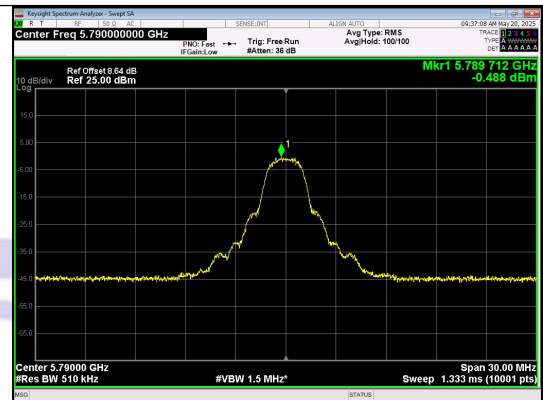
Note: $PSD_{dBm/0.5MHz} = PSD_{dBm/0.51MHz} + 10 \log_{10}(B_{dBm/0.51MHz} / B_{dBm/0.5MHz})$

Test Graphs

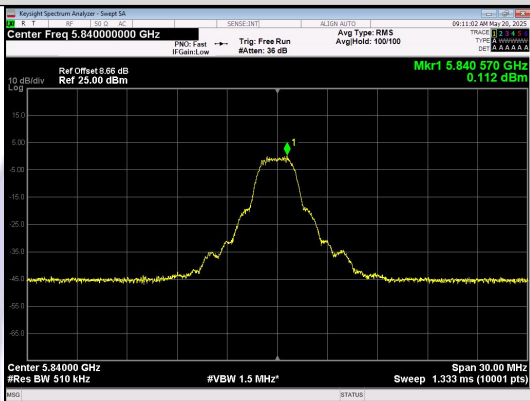




Channel 0_Antenna 1



Channel 1_Antenna 1



Channel 2_Antenna 1