

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Offset 1.2dB = Temporary antenna connector loss 0.2dB+ Cable loss 1.0dB

1 Duty Cycle and Antenna Gain

PHY	Modulation Type	Frequency (MHz)	Duty Cycle	Correction Factor(dB)	Antenna Gain(dBi)
LE 1M	GFSK (LE 1Mbps)	2402	62.90%	2.01	-2.50
LE 2M	GFSK (LE 2Mbps)	2402	33.33%	4.77	-2.50

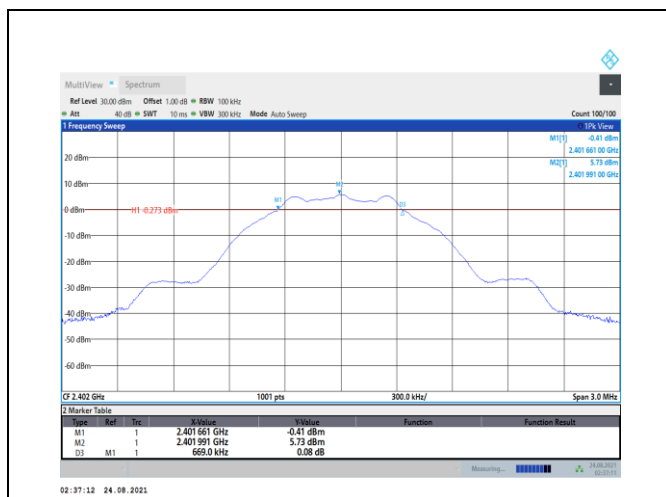
Note: Correction Factor=10*log(1/Duty Cycle)

2 Conducted Power

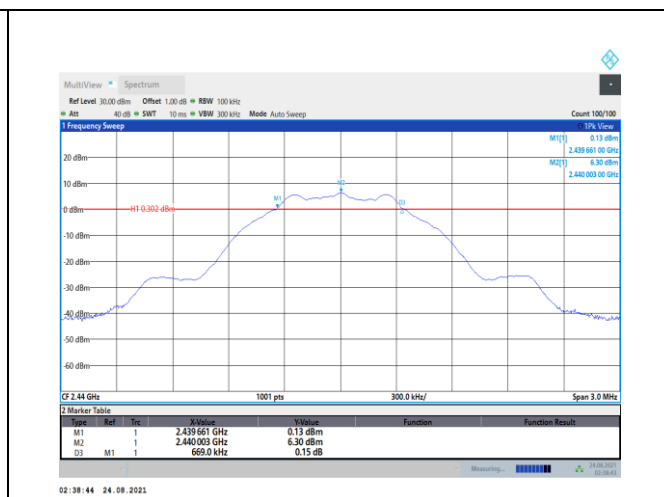
PHY	Modulation type	Conducted Peak Power(dBm)		
		2402MHz	2440MHz	2480MHz
LE 1M	GFSK (LE 1Mbps)	6.08	6.60	8.03
LE 2M	GFSK (LE 2Mbps)	6.21	6.79	8.20

3 Occupied Bandwidth 6dB Bandwidth Modulation type: GFSK (LE 1Mbps)

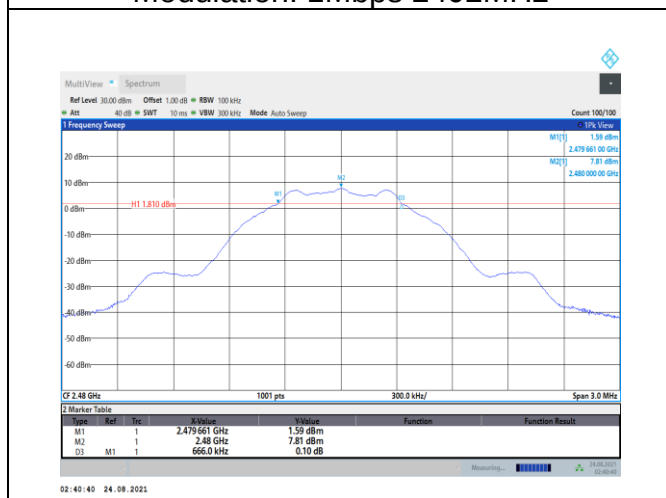
Carrier frequency (MHz)	6dB Bandwidth(kHz)
2402	669.0
2440	669.0
2480	666.0



Modulation: 1Mbps 2402MHz



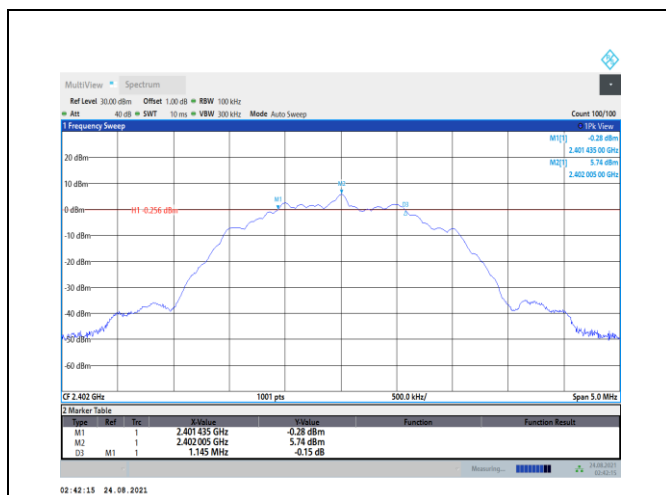
Modulation: 1Mbps 2440MHz



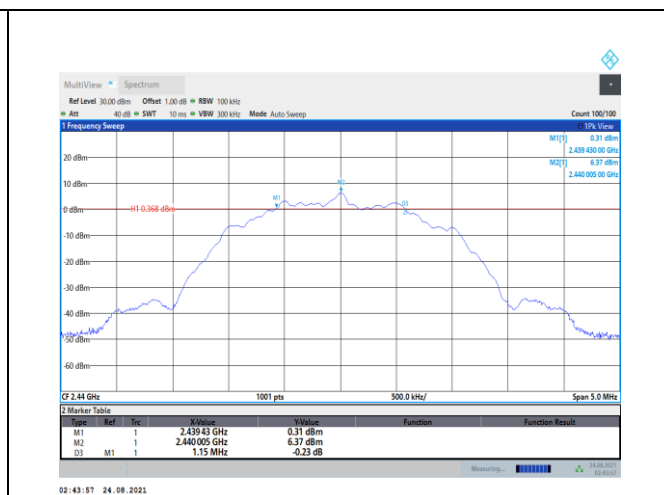
Modulation: 1Mbps 2480MHz

Modulation type: GFSK (LE 2Mbps)

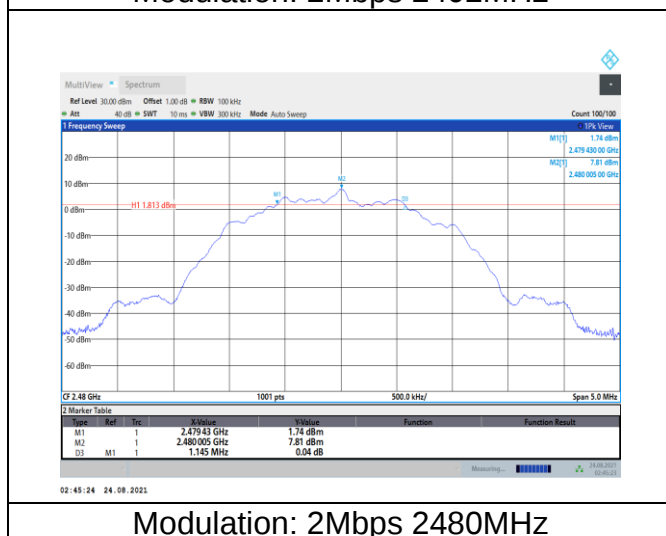
Carrier frequency (MHz)	6dB Bandwidth(kHz)
2402	1145.0
2440	1150.0
2480	1145.0



Modulation: 2Mbps 2402MHz



Modulation: 2Mbps 2440MHz

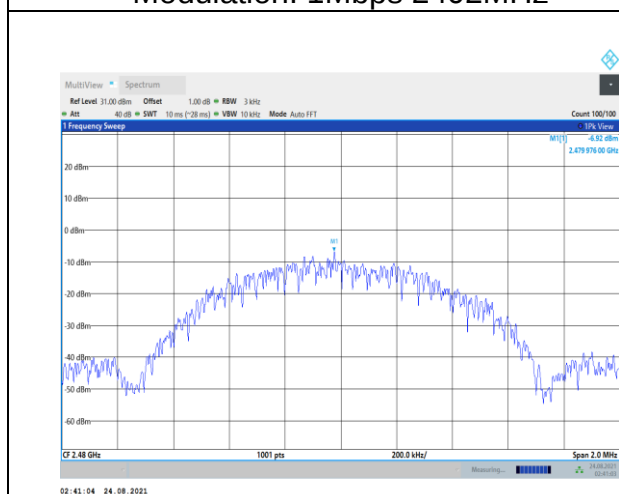
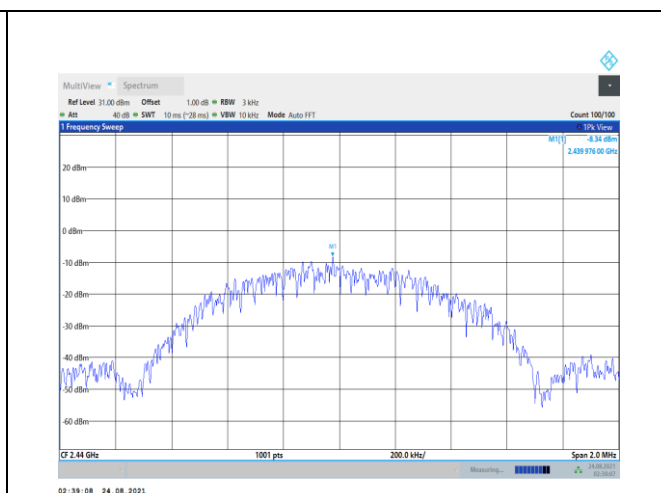
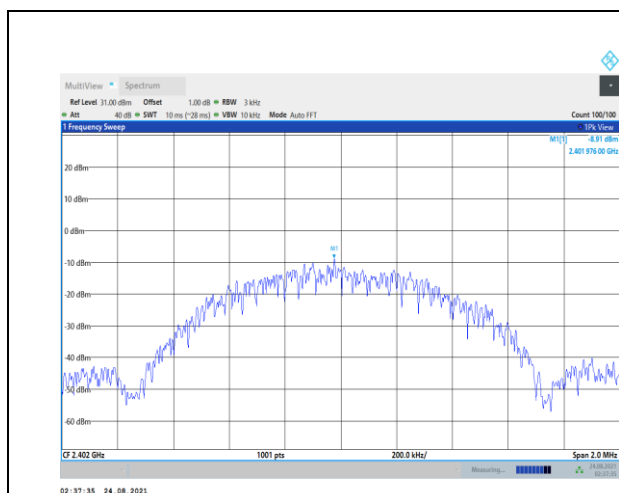


Modulation: 2Mbps 2480MHz

4 Transmitter Power Spectral Density

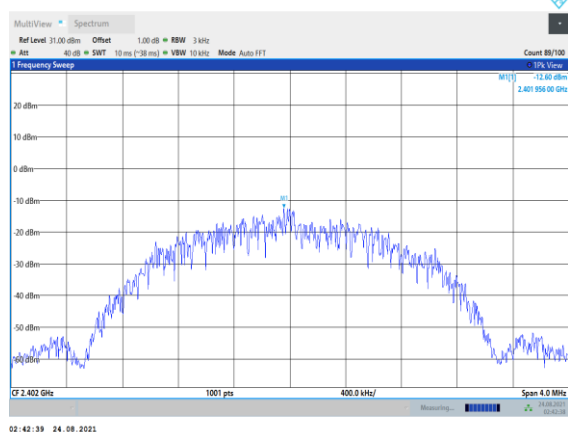
Modulation type: GFSK(LE 1Mbps)

Carrier frequency (MHz)	Channel No.	Power Density (dBm/3kHz)
2402	0	-8.91
2440	19	-8.34
2480	39	-6.92

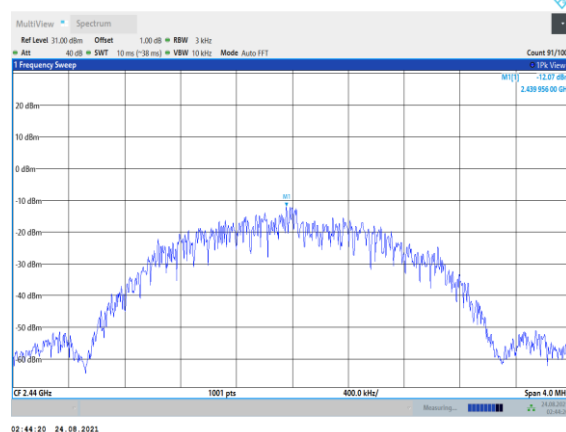


Modulation type:GFSK(LE 2Mbps)

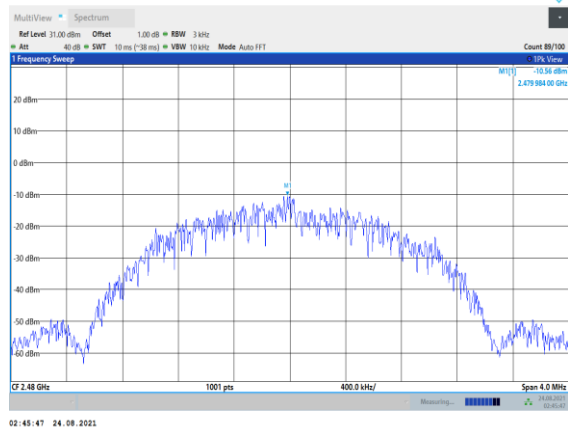
Carrier frequency (MHz)	Channel No.	Power Density (dBm/3kHz)
2402	0	-12.6
2440	19	-12.07
2480	39	-10.56



Modulation: 2Mbps 2402MHz



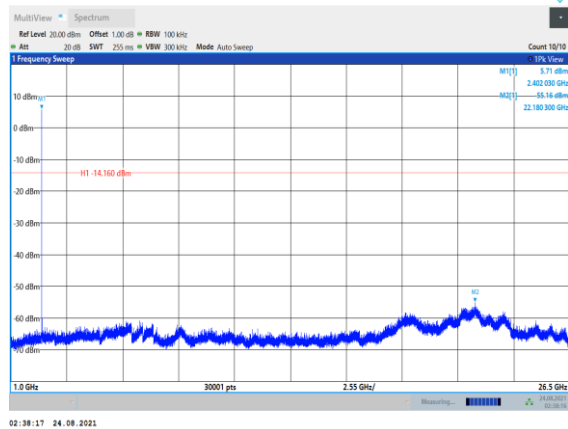
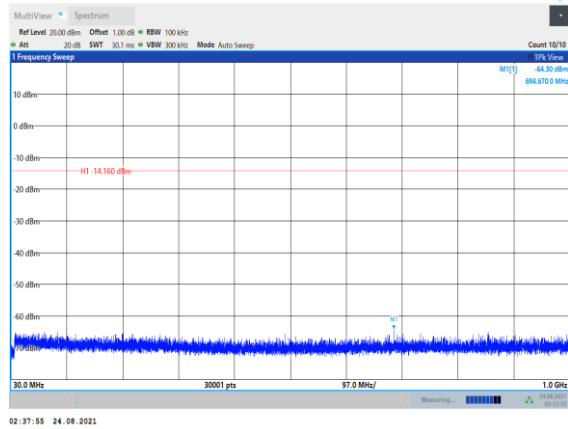
Modulation: 2Mbps 2440MHz



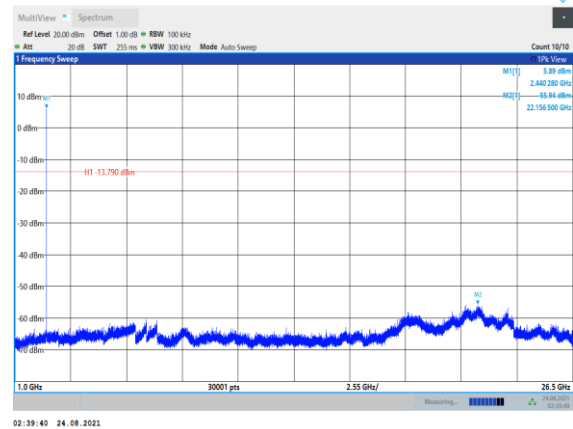
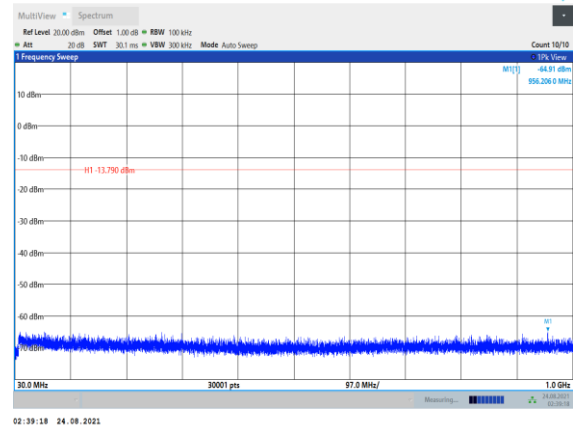
Modulation: 2Mbps 2480MHz

5 Conducted Out of band emission measurement

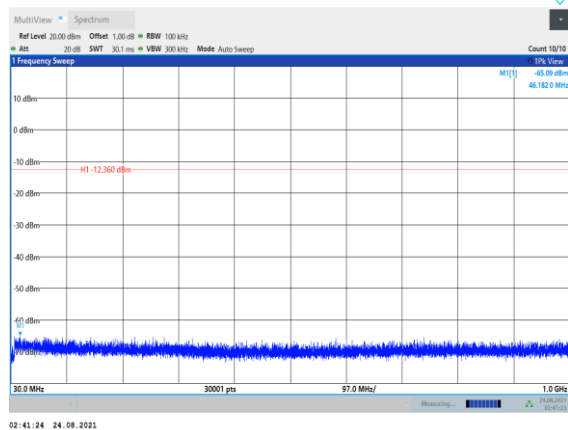
Modulation type: GFSK(LE 1Mbps)

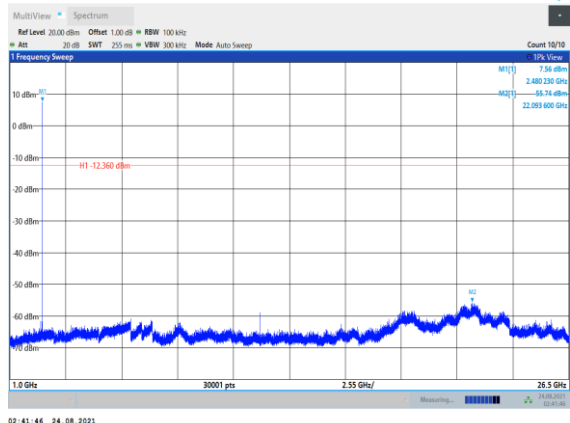


CH0



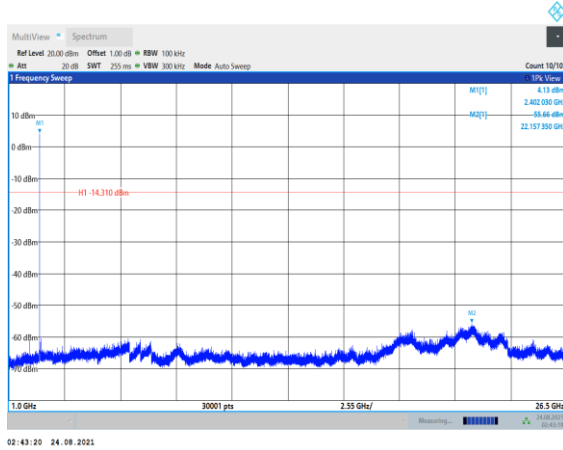
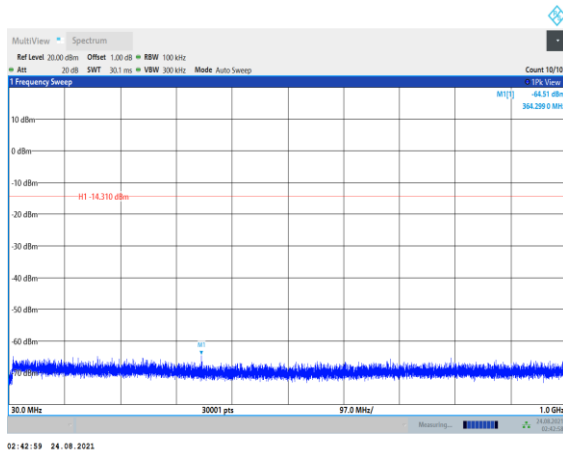
CH19



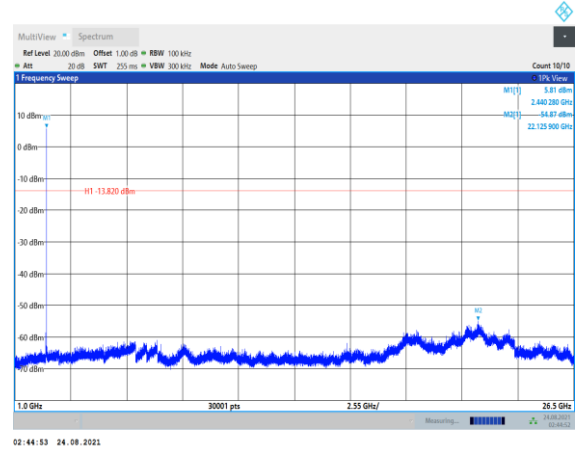
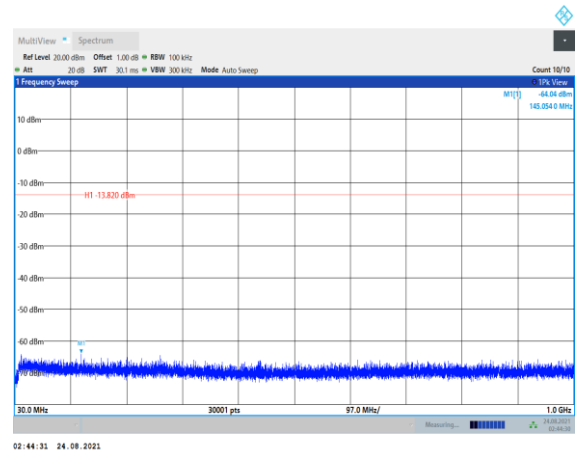


CH39

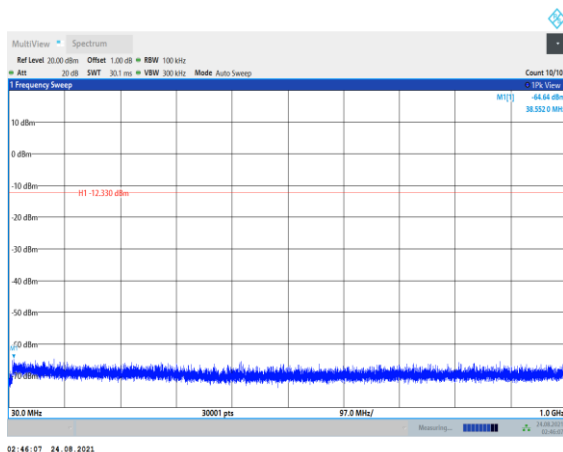
Modulation type: GFSK(LE 2Mbps)

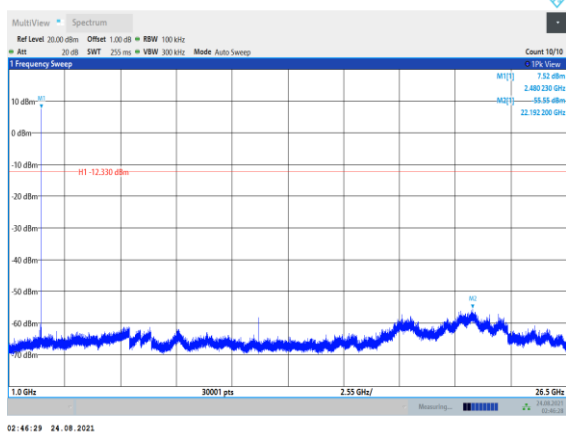


CH0



CH19

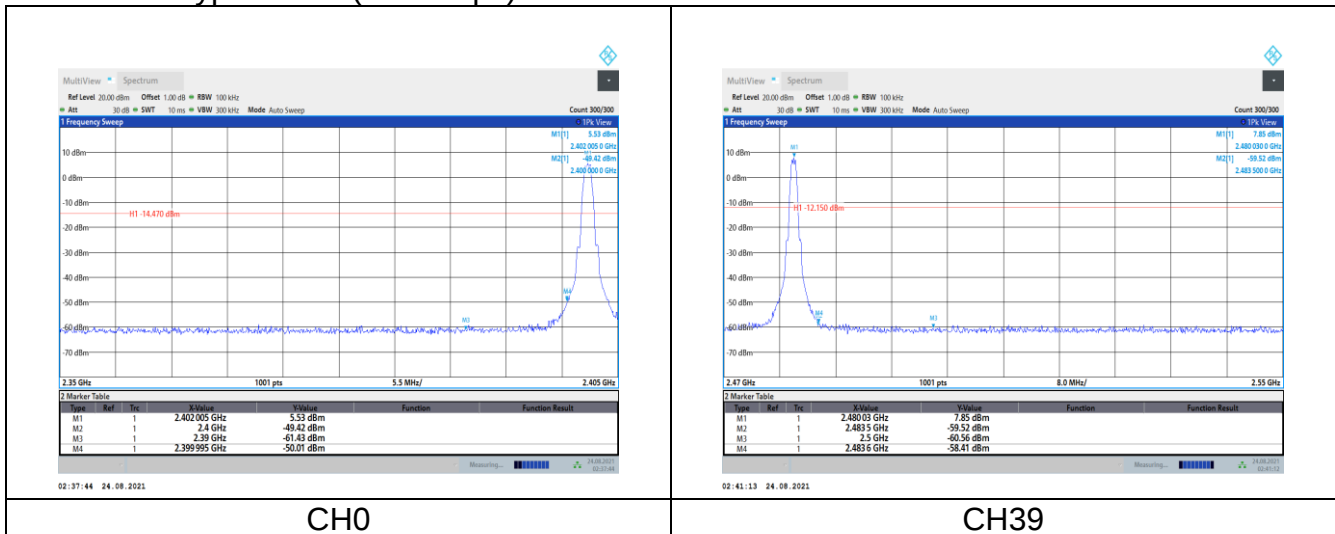




CH39

6 Band Edge measurement

Modulation type: GFSK(LE 1Mbps)



Modulation type: GFSK(LE 2Mbps)

