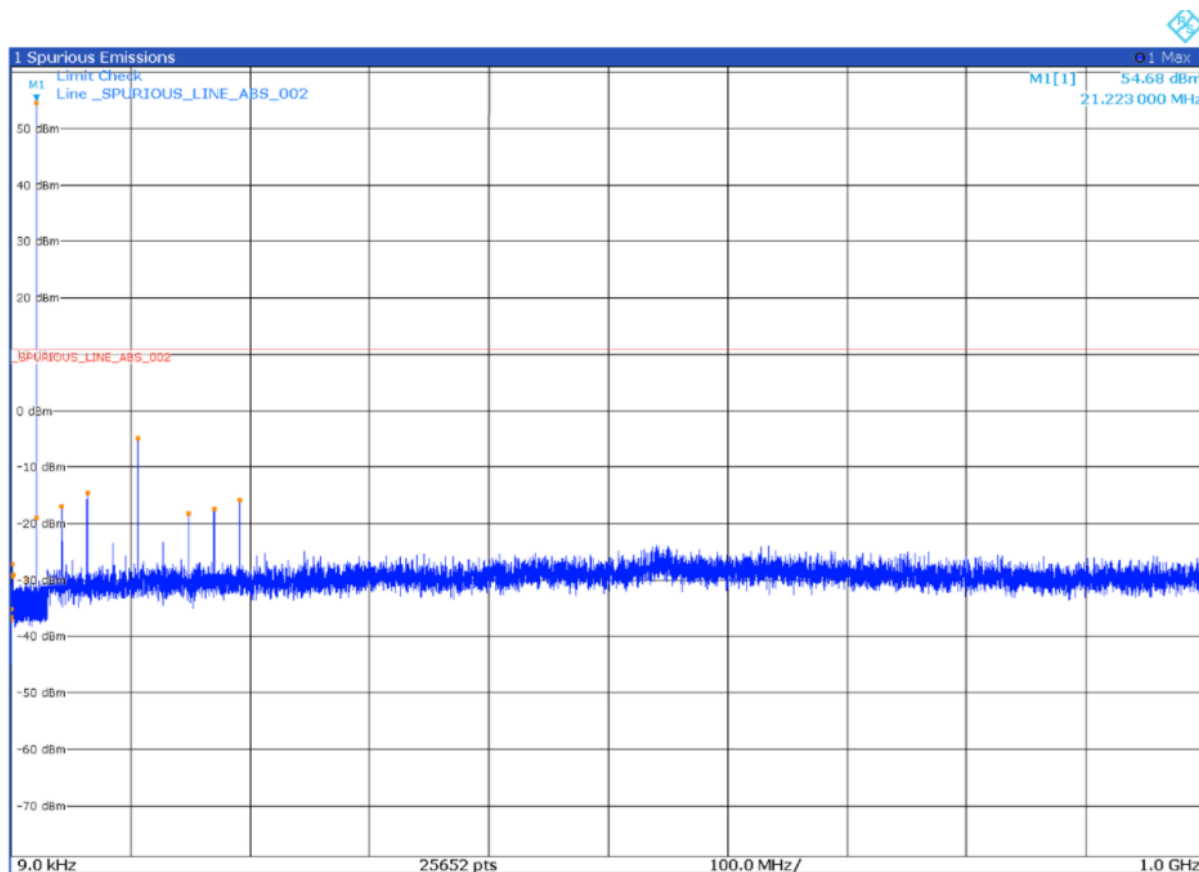




2 Result Summary

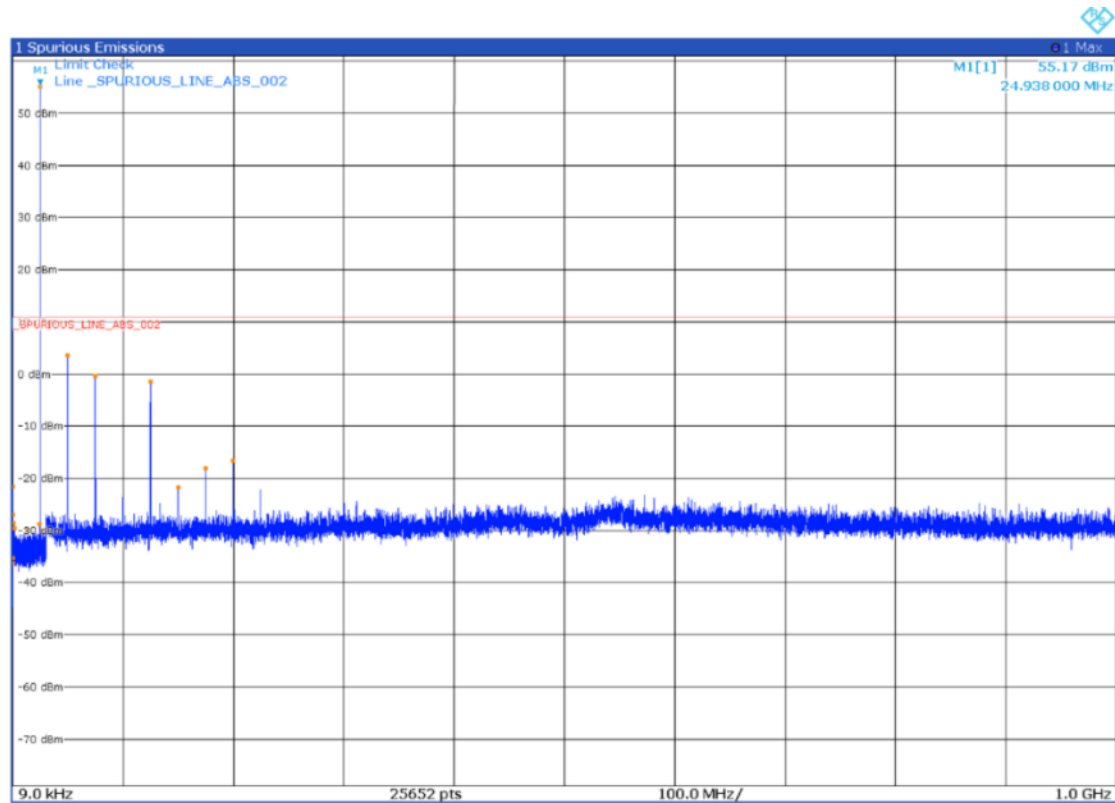
Range Low	Range Up	RBW	Frequency	Power Abs	Alimit
9.000 kHz	150.000 kHz	1.000 kHz	13.250 00 kHz	-35.10 dBm	-46.10 dB
9.000 kHz	150.000 kHz	1.000 kHz	136.750 00 kHz	-36.58 dBm	-47.58 dB
9.000 kHz	150.000 kHz	1.000 kHz	126.250 00 kHz	-36.89 dBm	-47.89 dB
9.000 kHz	150.000 kHz	1.000 kHz	97.250 00 kHz	-37.14 dBm	-48.14 dB
150.000 kHz	30.000 MHz	10.000 kHz	21.222 50 MHz	54.68 dBm	43.68 dB
150.000 kHz	30.000 MHz	10.000 kHz	21.292 50 MHz	-18.98 dBm	-29.98 dB
150.000 kHz	30.000 MHz	10.000 kHz	447.500 00 kHz	-27.20 dBm	-38.20 dB
150.000 kHz	30.000 MHz	10.000 kHz	1.337 50 MHz	-29.16 dBm	-40.16 dB
150.000 kHz	30.000 MHz	10.000 kHz	712.500 00 kHz	-29.39 dBm	-40.39 dB
150.000 kHz	30.000 MHz	10.000 kHz	12.947 50 MHz	-29.85 dBm	-40.85 dB
30.000 MHz	1.000 GHz	100.000 kHz	106.125 00 MHz	-4.87 dBm	-15.87 dB
30.000 MHz	1.000 GHz	100.000 kHz	63.675 00 MHz	-14.50 dBm	-25.50 dB
30.000 MHz	1.000 GHz	100.000 kHz	191.025 00 MHz	-15.83 dBm	-26.83 dB
30.000 MHz	1.000 GHz	100.000 kHz	42.475 00 MHz	-16.94 dBm	-27.94 dB
30.000 MHz	1.000 GHz	100.000 kHz	169.825 00 MHz	-17.49 dBm	-28.49 dB
30.000 MHz	1.000 GHz	100.000 kHz	148.575 00 MHz	-18.32 dBm	-29.32 dB

Section 8:

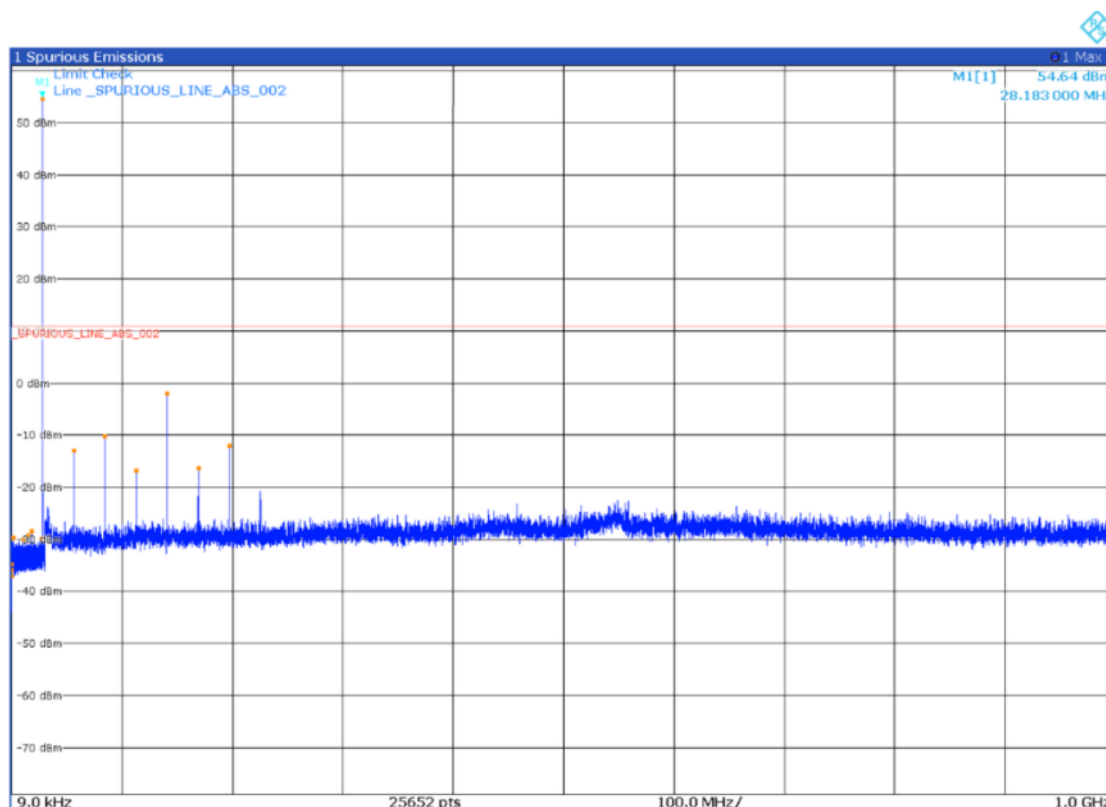
Testing data
Emission standards.
FCC §97.307 (d)



DATA (APCO25_4FSK), 24.94 MHz, 11 dBm limit



2 Result Summary					
Range Low	Range Up	RBW	Frequency	Power Abs	Alimit
9.000 kHz	150.000 kHz	1.000 kHz	95.750 00 kHz	-21.58 dBm	-32.58 dB
9.000 kHz	150.000 kHz	1.000 kHz	39.250 00 kHz	-27.04 dBm	-38.04 dB
9.000 kHz	150.000 kHz	1.000 kHz	12.250 00 kHz	-35.24 dBm	-46.24 dB
9.000 kHz	150.000 kHz	1.000 kHz	136.250 00 kHz	-36.22 dBm	-47.22 dB
9.000 kHz	150.000 kHz	1.000 kHz	126.250 00 kHz	-36.34 dBm	-47.34 dB
150.000 kHz	30.000 MHz	10.000 kHz	24.937 50 MHz	55.17 dBm	44.17 dB
150.000 kHz	30.000 MHz	10.000 kHz	25.007 50 MHz	-18.52 dBm	-29.52 dB
150.000 kHz	30.000 MHz	10.000 kHz	447.500 00 kHz	-28.62 dBm	-39.62 dB
150.000 kHz	30.000 MHz	10.000 kHz	24.132 50 MHz	-28.84 dBm	-39.84 dB
150.000 kHz	30.000 MHz	10.000 kHz	1.417 50 MHz	-29.57 dBm	-40.57 dB
150.000 kHz	30.000 MHz	10.000 kHz	13.162 50 MHz	-29.92 dBm	-40.92 dB
30.000 MHz	1.000 GHz	100.000 kHz	49.875 00 MHz	3.56 dBm	-7.44 dB
30.000 MHz	1.000 GHz	100.000 kHz	74.825 00 MHz	-0.45 dBm	-11.45 dB
30.000 MHz	1.000 GHz	100.000 kHz	124.725 00 MHz	-1.51 dBm	-12.51 dB
30.000 MHz	1.000 GHz	100.000 kHz	199.525 00 MHz	-16.60 dBm	-27.60 dB
30.000 MHz	1.000 GHz	100.000 kHz	174.575 00 MHz	-18.03 dBm	-29.03 dB
30.000 MHz	1.000 GHz	100.000 kHz	149.625 00 MHz	-21.77 dBm	-32.77 dB



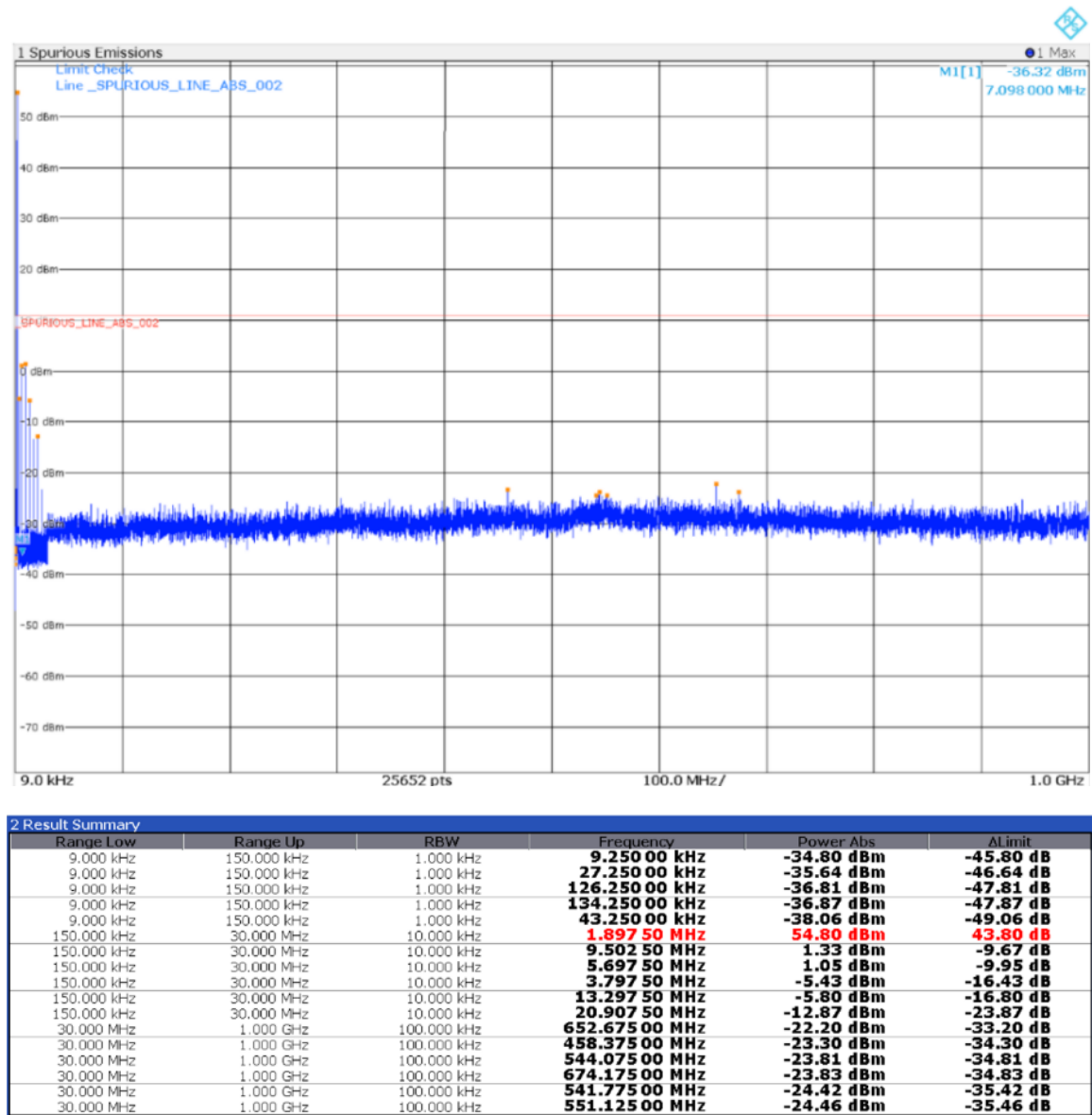
2 Result Summary						
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	
9.000 kHz	150.000 kHz	1.000 kHz	136.750 00 kHz	-34.80 dBm	-45.80 dB	
9.000 kHz	150.000 kHz	1.000 kHz	22.750 00 kHz	-35.96 dBm	-46.96 dB	
9.000 kHz	150.000 kHz	1.000 kHz	96.750 00 kHz	-37.04 dBm	-48.04 dB	
150.000 kHz	30.000 MHz	10.000 kHz	28.182 50 MHz	54.64 dBm	43.64 dB	
150.000 kHz	30.000 MHz	10.000 kHz	17.862 50 MHz	-28.52 dBm	-39.52 dB	
150.000 kHz	30.000 MHz	10.000 kHz	15.277 50 MHz	-29.31 dBm	-40.31 dB	
150.000 kHz	30.000 MHz	10.000 kHz	1.492 50 MHz	-29.80 dBm	-40.80 dB	
150.000 kHz	30.000 MHz	10.000 kHz	27.422 50 MHz	-29.83 dBm	-40.83 dB	
150.000 kHz	30.000 MHz	10.000 kHz	10.432 50 MHz	-30.06 dBm	-41.06 dB	
30.000 MHz	1.000 GHz	100.000 kHz	140.925 00 MHz	-1.98 dBm	-12.98 dB	
30.000 MHz	1.000 GHz	100.000 kHz	84.575 00 MHz	-10.23 dBm	-21.23 dB	
30.000 MHz	1.000 GHz	100.000 kHz	197.325 00 MHz	-12.10 dBm	-23.10 dB	
30.000 MHz	1.000 GHz	100.000 kHz	56.375 00 MHz	-13.02 dBm	-24.02 dB	
30.000 MHz	1.000 GHz	100.000 kHz	169.125 00 MHz	-16.33 dBm	-27.33 dB	
30.000 MHz	1.000 GHz	100.000 kHz	112.775 00 MHz	-16.82 dBm	-27.82 dB	

Section 8:

Testing data
Emission standards.
FCC §97.307 (d)



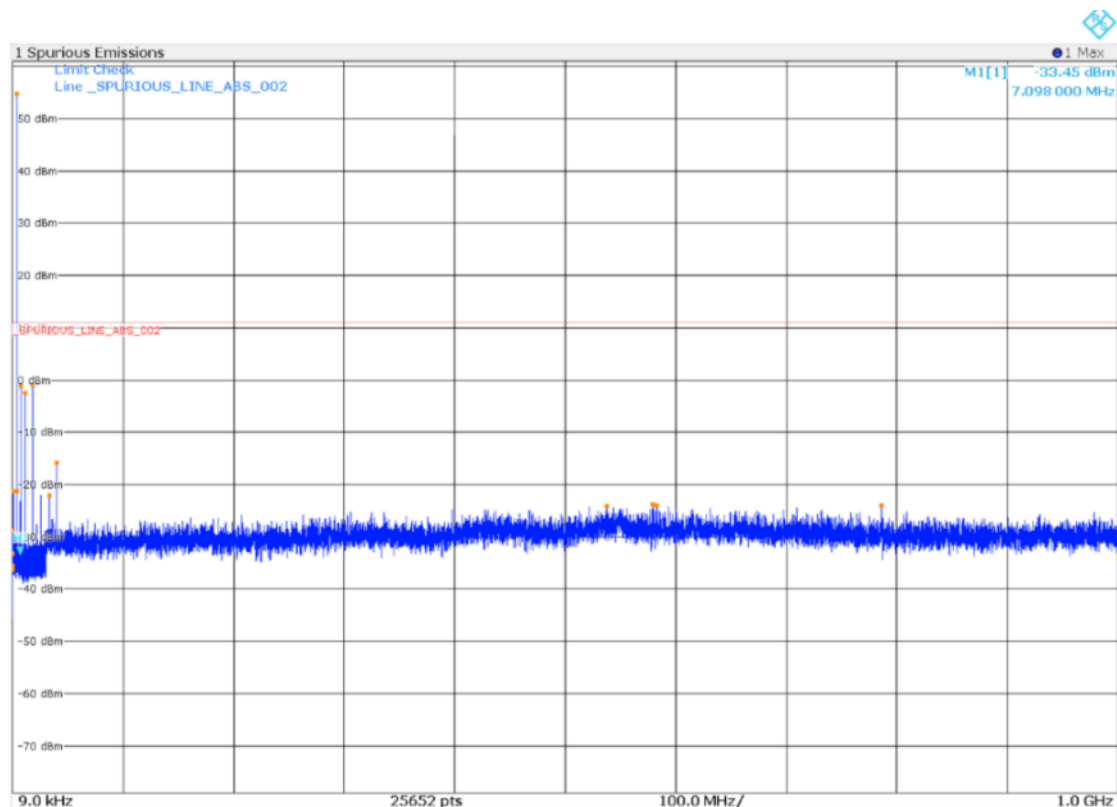
FM, 1.9MHz, limit 11.6dBm



Section 8: Testing data
Emission standards.
FCC §97.307 (d)



FM,3.65 MH, 11.8 dBm limit

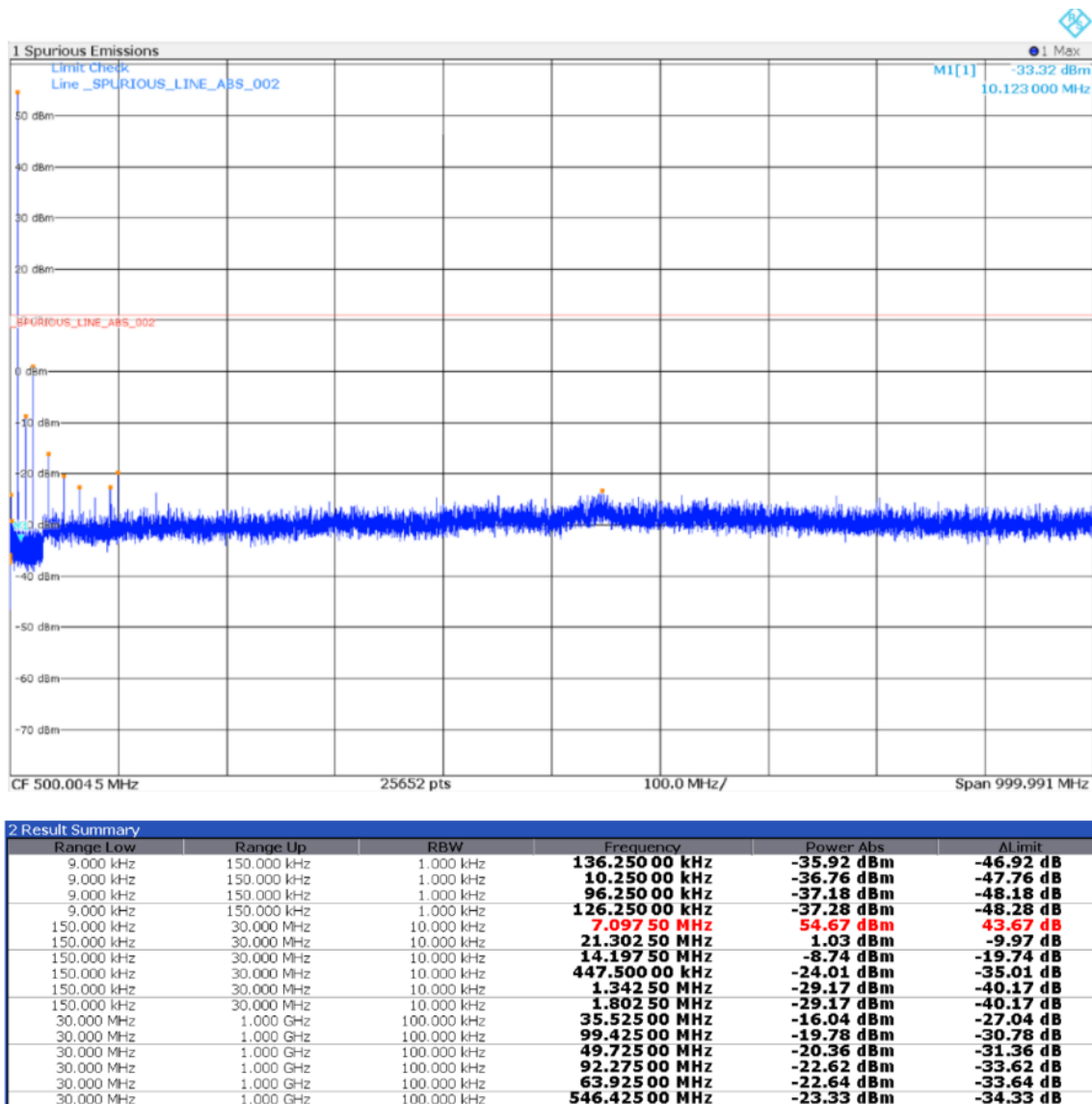


2 Result Summary					
Range Low	Range Up	RBW	Frequency	Power Abs	Alimit
9.000 kHz	150.000 kHz	1.000 kHz	39.250 00 kHz	-28.80 dBm	-39.80 dB
9.000 kHz	150.000 kHz	1.000 kHz	24.750 00 kHz	-33.17 dBm	-44.17 dB
9.000 kHz	150.000 kHz	1.000 kHz	9.750 00 kHz	-35.52 dBm	-46.52 dB
9.000 kHz	150.000 kHz	1.000 kHz	136.750 00 kHz	-35.93 dBm	-46.93 dB
9.000 kHz	150.000 kHz	1.000 kHz	126.750 00 kHz	-36.27 dBm	-47.27 dB
150.000 kHz	30.000 MHz	10.000 kHz	3.647 50 MHz	54.85 dBm	43.85 dB
150.000 kHz	30.000 MHz	10.000 kHz	18.242 50 MHz	-1.08 dBm	-12.08 dB
150.000 kHz	30.000 MHz	10.000 kHz	7.297 50 MHz	-1.19 dBm	-12.19 dB
150.000 kHz	30.000 MHz	10.000 kHz	10.952 50 MHz	-2.46 dBm	-13.46 dB
150.000 kHz	30.000 MHz	10.000 kHz	3.727 50 MHz	-21.26 dBm	-32.26 dB
150.000 kHz	30.000 MHz	10.000 kHz	447.500 00 kHz	-21.35 dBm	-32.35 dB
30.000 MHz	1.000 GHz	100.000 kHz	40.125 00 MHz	-15.85 dBm	-26.85 dB
30.000 MHz	1.000 GHz	100.000 kHz	32.875 00 MHz	-22.09 dBm	-33.09 dB
30.000 MHz	1.000 GHz	100.000 kHz	579.425 00 MHz	-23.85 dBm	-34.85 dB
30.000 MHz	1.000 GHz	100.000 kHz	786.125 00 MHz	-24.03 dBm	-35.03 dB
30.000 MHz	1.000 GHz	100.000 kHz	582.625 00 MHz	-24.06 dBm	-35.06 dB
30.000 MHz	1.000 GHz	100.000 kHz	538.025 00 MHz	-24.21 dBm	-35.21 dB

Section 8: Testing data
Emission standards.
FCC §97.307 (d)



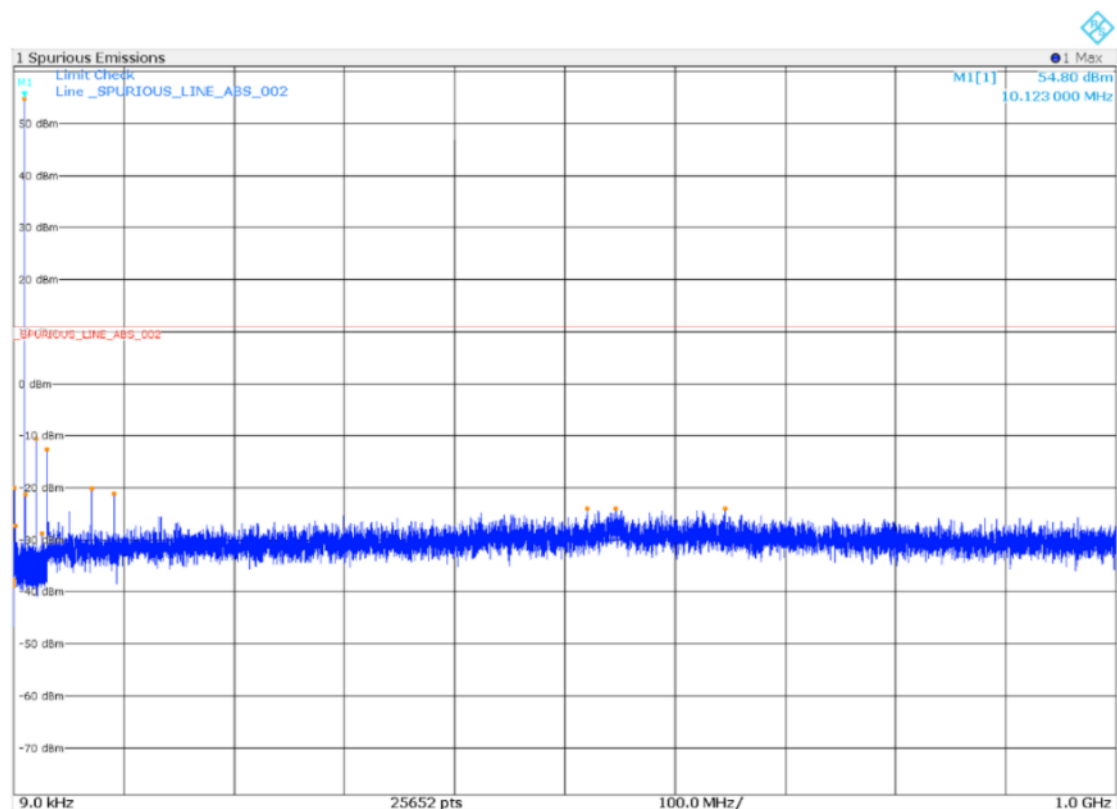
FM, 7.10 MHz, 11.6 dBm limit



Section 8: Testing data
Emission standards.
FCC §97.307 (d)



FM, 10.12MHz, 11.7 dBm limit

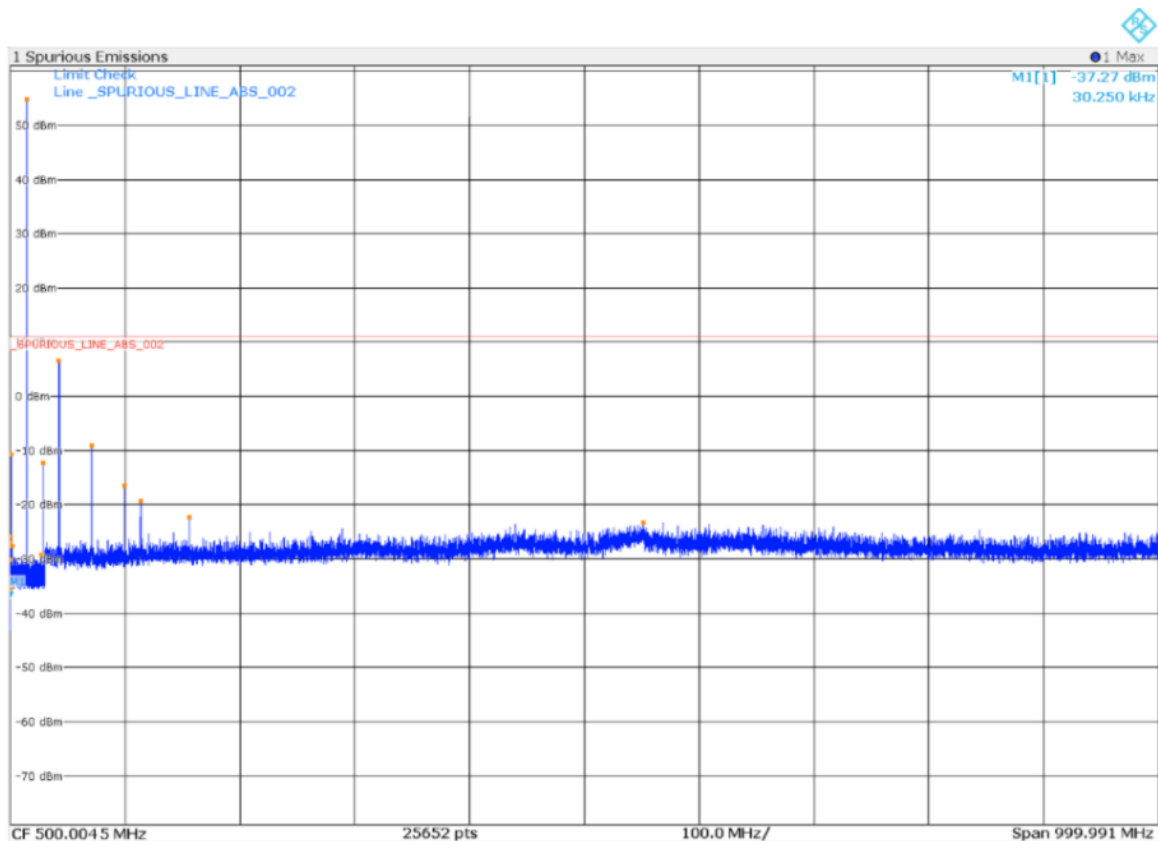


2 Result Summary						
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	
9.000 kHz	150.000 kHz	1.000 kHz	13.250 00 kHz	-37.65 dBm	-48.65 dB	
9.000 kHz	150.000 kHz	1.000 kHz	126.750 00 kHz	-37.93 dBm	-48.93 dB	
9.000 kHz	150.000 kHz	1.000 kHz	77.250 00 kHz	-38.80 dBm	-49.80 dB	
150.000 kHz	30.000 MHz	10.000 kHz	10.122 50 MHz	54.80 dBm	43.80 dB	
150.000 kHz	30.000 MHz	10.000 kHz	20.247 50 MHz	-10.57 dBm	-21.57 dB	
150.000 kHz	30.000 MHz	10.000 kHz	447.500 00 kHz	-19.92 dBm	-30.92 dB	
150.000 kHz	30.000 MHz	10.000 kHz	10.202 50 MHz	-21.26 dBm	-32.26 dB	
150.000 kHz	30.000 MHz	10.000 kHz	1.342 50 MHz	-27.39 dBm	-38.39 dB	
150.000 kHz	30.000 MHz	10.000 kHz	25.537 50 MHz	-28.76 dBm	-39.76 dB	
30.000 MHz	1.000 GHz	100.000 kHz	30.375 00 MHz	-12.72 dBm	-23.72 dB	
30.000 MHz	1.000 GHz	100.000 kHz	70.875 00 MHz	-20.12 dBm	-31.12 dB	
30.000 MHz	1.000 GHz	100.000 kHz	91.125 00 MHz	-21.08 dBm	-32.08 dB	
30.000 MHz	1.000 GHz	100.000 kHz	546.075 00 MHz	-23.91 dBm	-34.91 dB	
30.000 MHz	1.000 GHz	100.000 kHz	645.525 00 MHz	-23.99 dBm	-34.99 dB	
30.000 MHz	1.000 GHz	100.000 kHz	520.275 00 MHz	-24.04 dBm	-35.04 dB	

Section 8: Testing data
Emission standards.
FCC §97.307 (d)

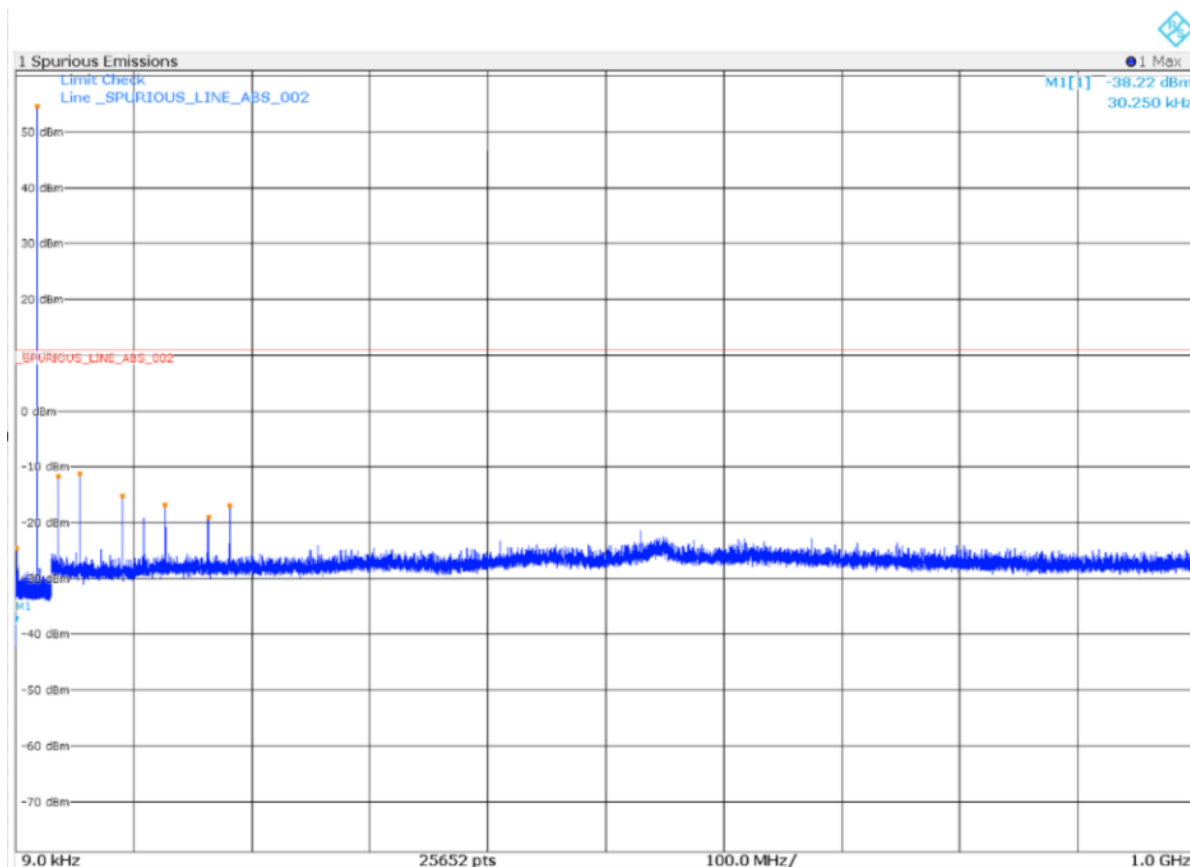


FM, 14.17 MHz, 11.4 dBm limit



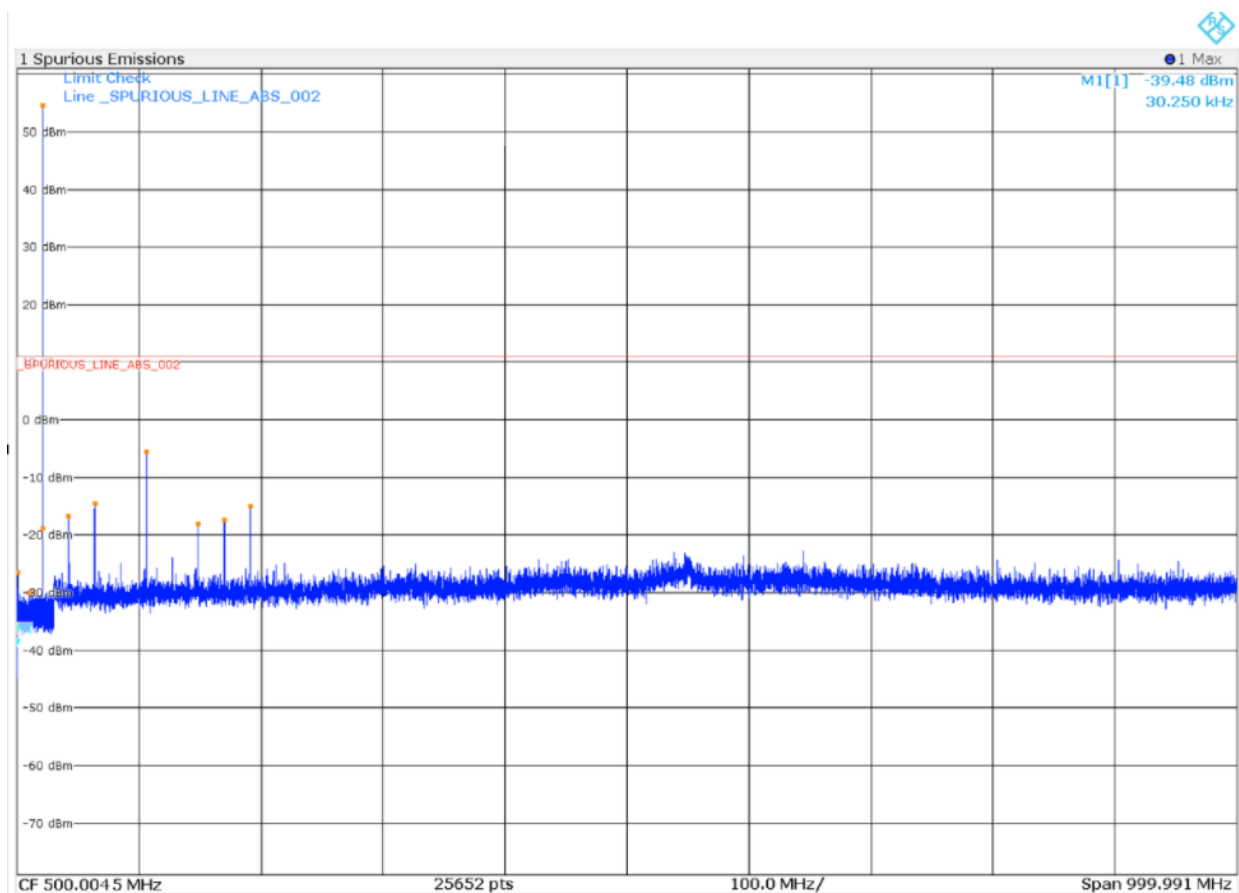
2 Result Summary					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	39.250 00 kHz	-26.74 dBm	-37.74 dB
9.000 kHz	150.000 kHz	1.000 kHz	24.750 00 kHz	-30.18 dBm	-41.18 dB
9.000 kHz	150.000 kHz	1.000 kHz	121.750 00 kHz	-35.18 dBm	-46.18 dB
9.000 kHz	150.000 kHz	1.000 kHz	134.250 00 kHz	-35.85 dBm	-46.85 dB
150.000 kHz	30.000 MHz	10.000 kHz	14.172 50 MHz	54.72 dBm	43.72 dB
150.000 kHz	30.000 MHz	10.000 kHz	447.500 00 kHz	-10.71 dBm	-21.71 dB
150.000 kHz	30.000 MHz	10.000 kHz	28.347 50 MHz	-12.31 dBm	-23.31 dB
150.000 kHz	30.000 MHz	10.000 kHz	237.500 00 kHz	-25.86 dBm	-36.86 dB
150.000 kHz	30.000 MHz	10.000 kHz	1.342 50 MHz	-27.58 dBm	-38.58 dB
150.000 kHz	30.000 MHz	10.000 kHz	26.987 50 MHz	-29.19 dBm	-40.19 dB
30.000 MHz	1.000 GHz	100.000 kHz	42.525 00 MHz	6.62 dBm	-4.38 dB
30.000 MHz	1.000 GHz	100.000 kHz	70.875 00 MHz	-9.00 dBm	-20.00 dB
30.000 MHz	1.000 GHz	100.000 kHz	99.225 00 MHz	-16.45 dBm	-27.45 dB
30.000 MHz	1.000 GHz	100.000 kHz	113.425 00 MHz	-19.37 dBm	-30.37 dB
30.000 MHz	1.000 GHz	100.000 kHz	155.925 00 MHz	-22.30 dBm	-33.30 dB
30.000 MHz	1.000 GHz	100.000 kHz	551.225 00 MHz	-23.33 dBm	-34.33 dB

FM, 18.12 MHz, 11.8 dBm limit



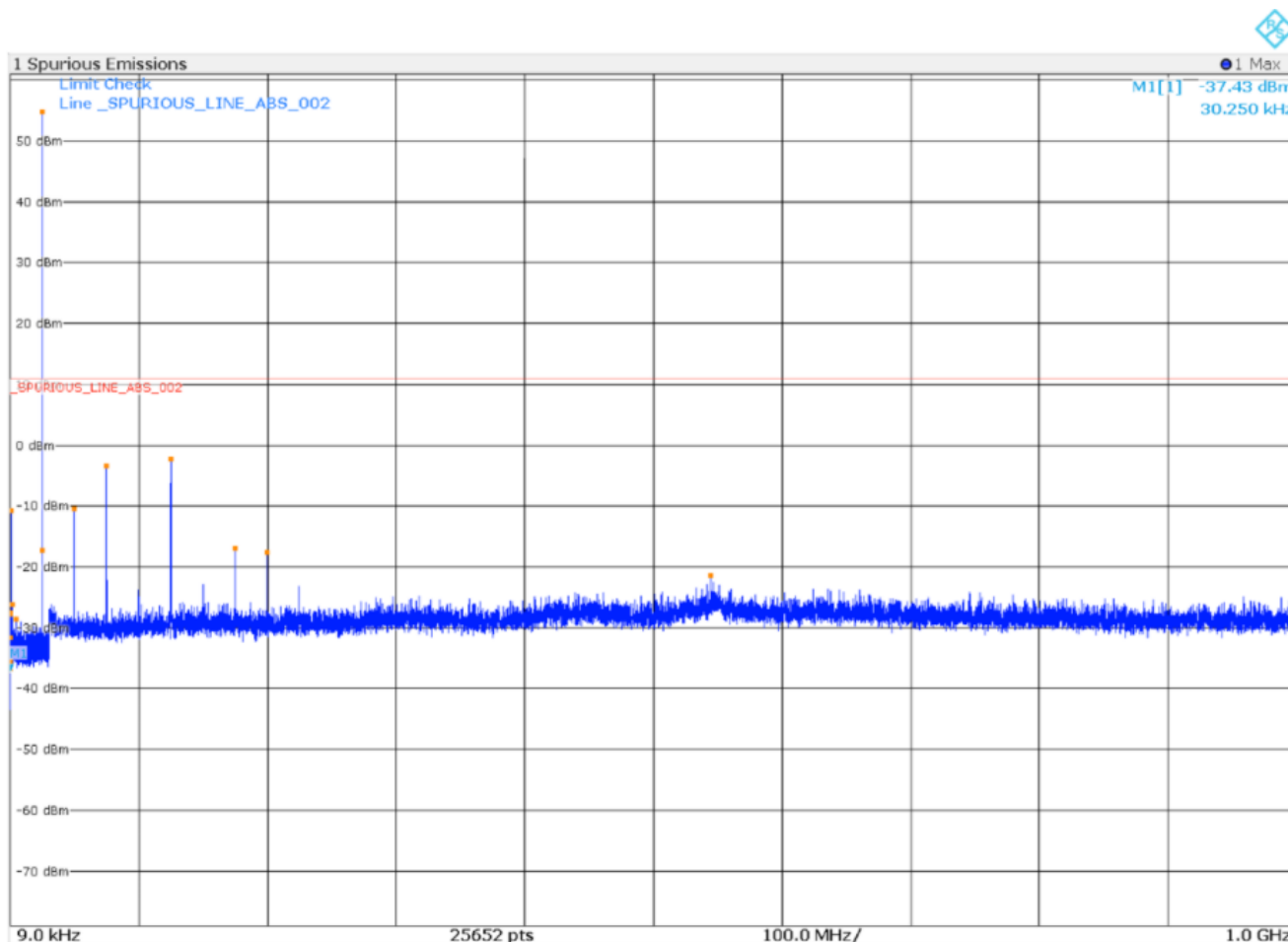
2 Result Summary					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	9.250 00 kHz	-34.49 dBm	-45.49 dB
9.000 kHz	150.000 kHz	1.000 kHz	126.250 00 kHz	-35.18 dBm	-46.18 dB
9.000 kHz	150.000 kHz	1.000 kHz	136.750 00 kHz	-35.40 dBm	-46.40 dB
150.000 kHz	30.000 MHz	10.000 kHz	18.117 50 MHz	54.59 dBm	43.59 dB
150.000 kHz	30.000 MHz	10.000 kHz	447.500 00 kHz	-24.56 dBm	-35.56 dB
30.000 MHz	1.000 GHz	100.000 kHz	54.375 00 MHz	-11.27 dBm	-22.27 dB
30.000 MHz	1.000 GHz	100.000 kHz	36.225 00 MHz	-11.72 dBm	-22.72 dB
30.000 MHz	1.000 GHz	100.000 kHz	90.575 00 MHz	-15.22 dBm	-26.22 dB
30.000 MHz	1.000 GHz	100.000 kHz	126.825 00 MHz	-16.83 dBm	-27.83 dB
30.000 MHz	1.000 GHz	100.000 kHz	181.175 00 MHz	-17.01 dBm	-28.01 dB
30.000 MHz	1.000 GHz	100.000 kHz	163.075 00 MHz	-19.06 dBm	-30.06 dB

FM, 21.22 MHz, 11.7 dBm limit



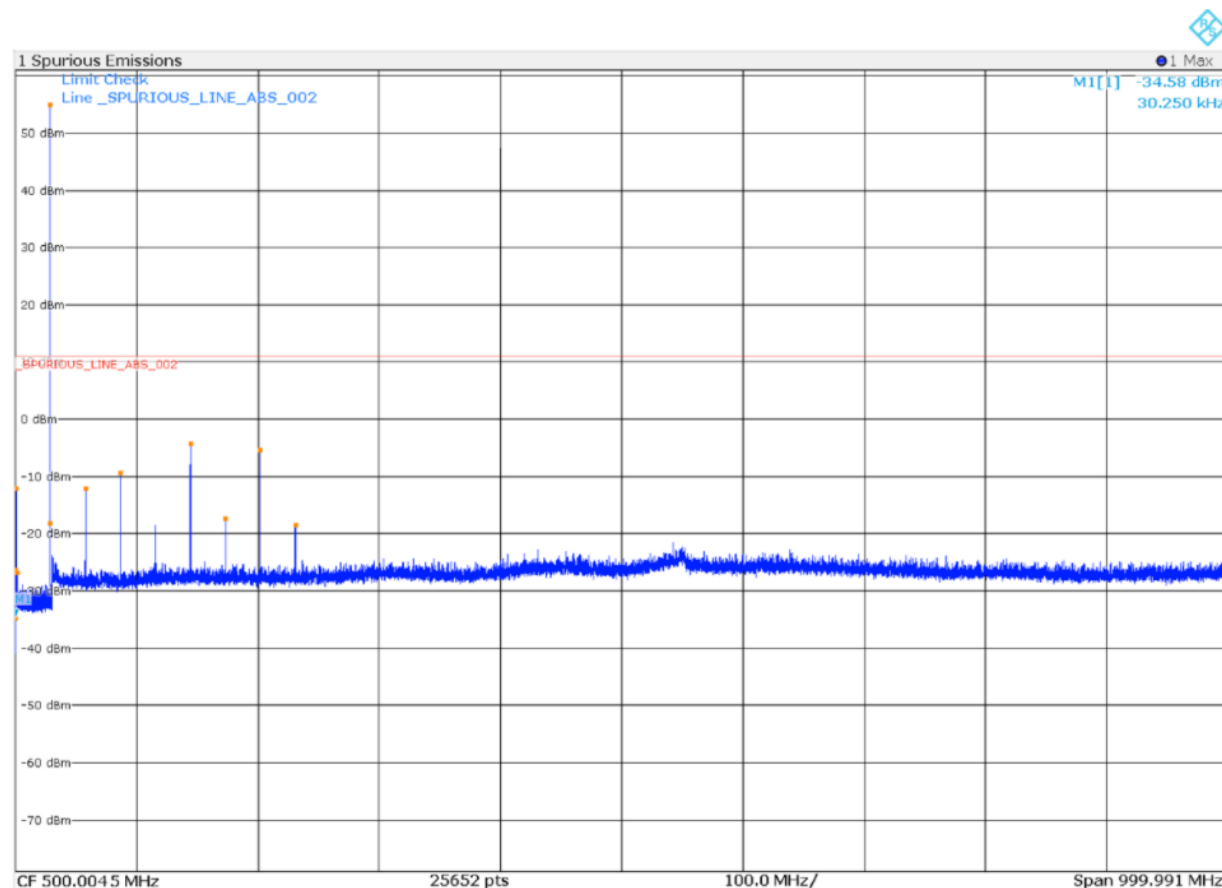
2 Result Summary					
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit
9.000 kHz	150.000 kHz	1.000 kHz	16.250 00 kHz	-35.58 dBm	-46.58 dB
9.000 kHz	150.000 kHz	1.000 kHz	136.250 00 kHz	-36.53 dBm	-47.53 dB
9.000 kHz	150.000 kHz	1.000 kHz	126.250 00 kHz	-36.62 dBm	-47.62 dB
150.000 kHz	30.000 MHz	10.000 kHz	21.222 50 MHz	54.64 dBm	43.64 dB
150.000 kHz	30.000 MHz	10.000 kHz	21.292 50 MHz	-18.82 dBm	-29.82 dB
150.000 kHz	30.000 MHz	10.000 kHz	447.500 00 kHz	-26.45 dBm	-37.45 dB
150.000 kHz	30.000 MHz	10.000 kHz	13.162 50 MHz	-29.75 dBm	-40.75 dB
150.000 kHz	30.000 MHz	10.000 kHz	9.917 50 MHz	-29.97 dBm	-40.97 dB
150.000 kHz	30.000 MHz	10.000 kHz	10.767 50 MHz	-29.98 dBm	-40.98 dB
30.000 MHz	1.000 GHz	100.000 kHz	106.125 00 MHz	-5.55 dBm	-16.55 dB
30.000 MHz	1.000 GHz	100.000 kHz	63.675 00 MHz	-14.48 dBm	-25.48 dB
30.000 MHz	1.000 GHz	100.000 kHz	191.025 00 MHz	-15.06 dBm	-26.06 dB
30.000 MHz	1.000 GHz	100.000 kHz	42.475 00 MHz	-16.74 dBm	-27.74 dB
30.000 MHz	1.000 GHz	100.000 kHz	169.825 00 MHz	-17.30 dBm	-28.30 dB
30.000 MHz	1.000 GHz	100.000 kHz	148.575 00 MHz	-17.97 dBm	-28.97 dB

FM, 24.94 MHz, 11 dBm limit



2 Result Summary					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	39.250 00 kHz	-27.45 dBm	-38.45 dB
9.000 kHz	150.000 kHz	1.000 kHz	24.750 00 kHz	-31.62 dBm	-42.62 dB
9.000 kHz	150.000 kHz	1.000 kHz	119.250 00 kHz	-35.64 dBm	-46.64 dB
9.000 kHz	150.000 kHz	1.000 kHz	134.250 00 kHz	-35.98 dBm	-46.98 dB
9.000 kHz	150.000 kHz	1.000 kHz	126.250 00 kHz	-36.69 dBm	-47.69 dB
150.000 kHz	30.000 MHz	10.000 kHz	24.937 50 MHz	54.85 dBm	43.85 dB
150.000 kHz	30.000 MHz	10.000 kHz	447.500 00 kHz	-10.72 dBm	-21.72 dB
150.000 kHz	30.000 MHz	10.000 kHz	25.017 50 MHz	-17.31 dBm	-28.31 dB
150.000 kHz	30.000 MHz	10.000 kHz	1.342 50 MHz	-26.26 dBm	-37.26 dB
150.000 kHz	30.000 MHz	10.000 kHz	187.500 00 kHz	-27.80 dBm	-38.80 dB
150.000 kHz	30.000 MHz	10.000 kHz	4.592 50 MHz	-28.64 dBm	-39.64 dB
30.000 MHz	1.000 GHz	100.000 kHz	124.725 00 MHz	-2.34 dBm	-13.34 dB
30.000 MHz	1.000 GHz	100.000 kHz	74.825 00 MHz	-3.43 dBm	-14.43 dB
30.000 MHz	1.000 GHz	100.000 kHz	49.875 00 MHz	-10.47 dBm	-21.47 dB
30.000 MHz	1.000 GHz	100.000 kHz	174.575 00 MHz	-16.93 dBm	-27.93 dB
30.000 MHz	1.000 GHz	100.000 kHz	199.525 00 MHz	-17.62 dBm	-28.62 dB
30.000 MHz	1.000 GHz	100.000 kHz	544.275 00 MHz	-21.48 dBm	-32.48 dB

FM, 28.85 MHz, 11 dBm limit

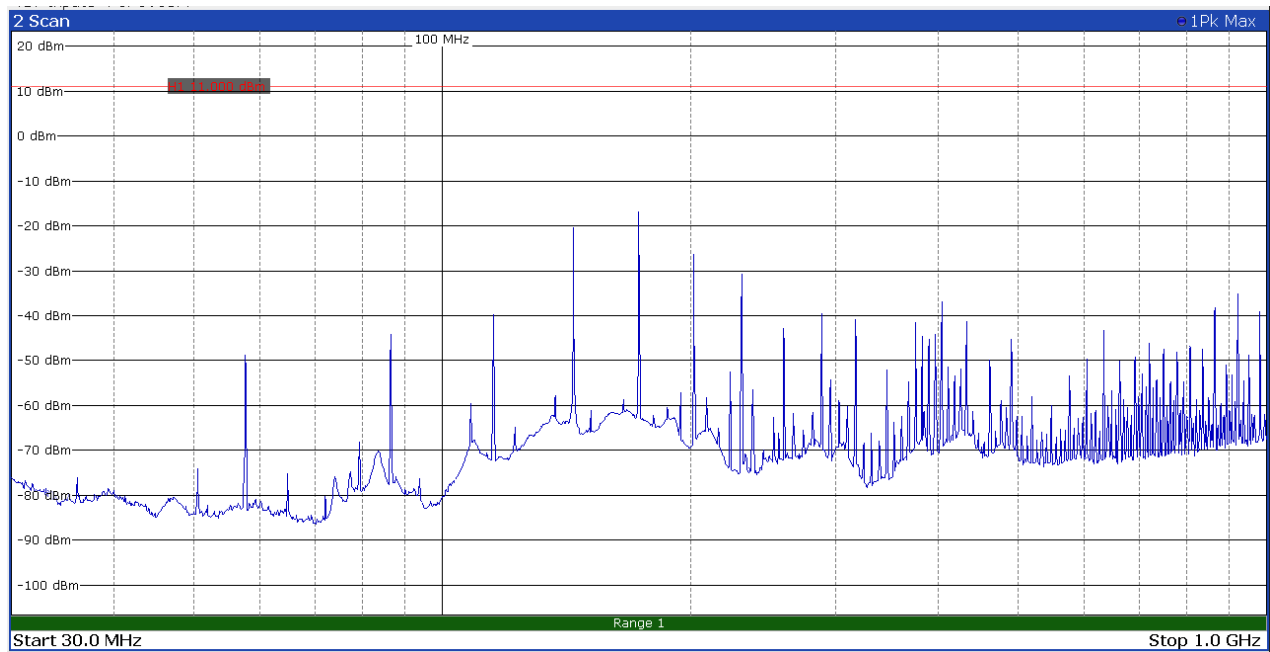


2 Result Summary						
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	
9.000 kHz	150.000 kHz	1.000 kHz	38.750 00 kHz	-26.29 dBm	-37.29 dB	
9.000 kHz	150.000 kHz	1.000 kHz	134.250 00 kHz	-34.84 dBm	-45.84 dB	
150.000 kHz	30.000 MHz	10.000 kHz	28.852 50 MHz	54.95 dBm	43.95 dB	
150.000 kHz	30.000 MHz	10.000 kHz	447.500 00 kHz	-12.06 dBm	-23.06 dB	
150.000 kHz	30.000 MHz	10.000 kHz	28.782 50 MHz	-18.19 dBm	-29.19 dB	
150.000 kHz	30.000 MHz	10.000 kHz	1.342 50 MHz	-26.78 dBm	-37.78 dB	
30.000 MHz	1.000 GHz	100.000 kHz	144.275 00 MHz	-4.35 dBm	-15.35 dB	
30.000 MHz	1.000 GHz	100.000 kHz	201.975 00 MHz	-5.42 dBm	-16.42 dB	
30.000 MHz	1.000 GHz	100.000 kHz	86.575 00 MHz	-9.47 dBm	-20.47 dB	
30.000 MHz	1.000 GHz	100.000 kHz	57.725 00 MHz	-12.15 dBm	-23.15 dB	
30.000 MHz	1.000 GHz	100.000 kHz	173.125 00 MHz	-17.35 dBm	-28.35 dB	
30.000 MHz	1.000 GHz	100.000 kHz	230.825 00 MHz	-18.43 dBm	-29.43 dB	

8.2.5 Test data, Radiated emissions 9kHz-30MHz, 24.94MHz, DATA APC025_4FSK (worst condition for radiated emissions)

Tuned Frequency (MHz)	Emission Frequency (MHz)	Distance (m)	Field Strength (dBμV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
24.94	0.70	10	32.2	-54.5	11	65.5
24.94	1.15	10	34.3	-52.6	11	63.6
24.94	3.35	10	34.2	-52.7	11	63.7
24.94	7.50	10	34.9	-52.0	11	63.0
24.94	16.20	10	35.1	-51.8	11	62.8
24.94	24.94	10	70.0	-16.9	11	27.9

Radiated Emission 30-1000MHz, polarization Horizontal, 24.94MHz, DATA APC025_4FSK (worst condition for radiated emissions)

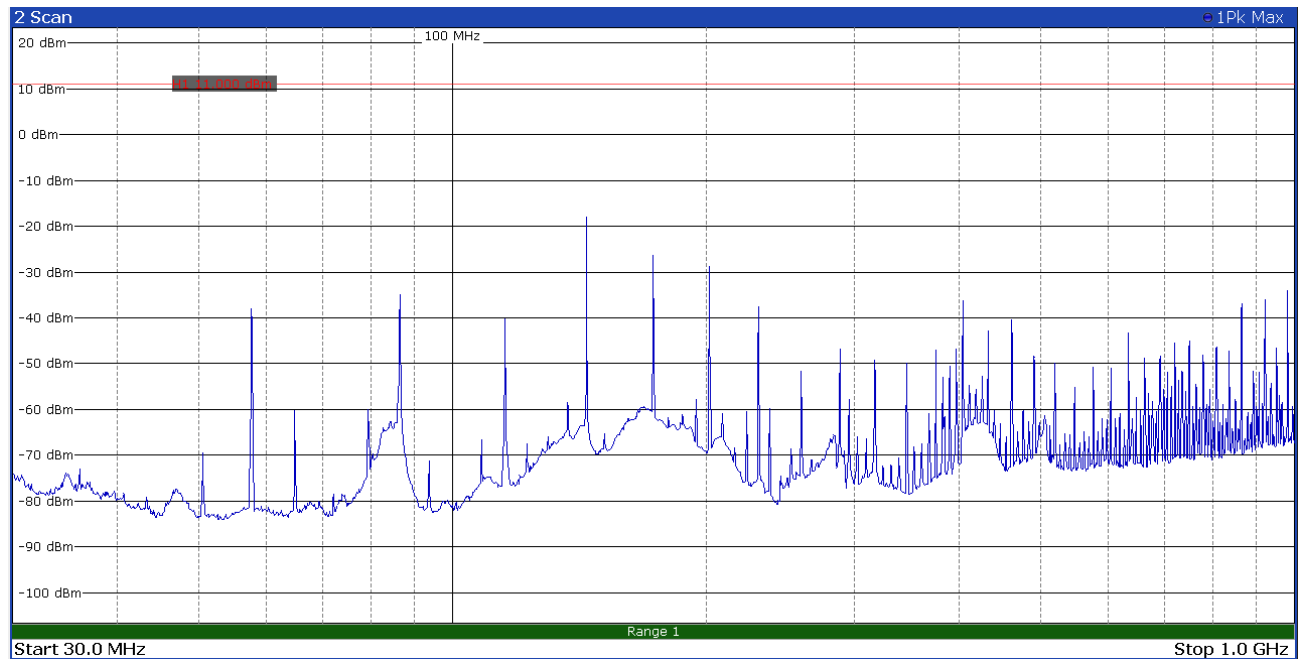


Section 8:

Testing data
Emission standards.
FCC §97.307 (d)

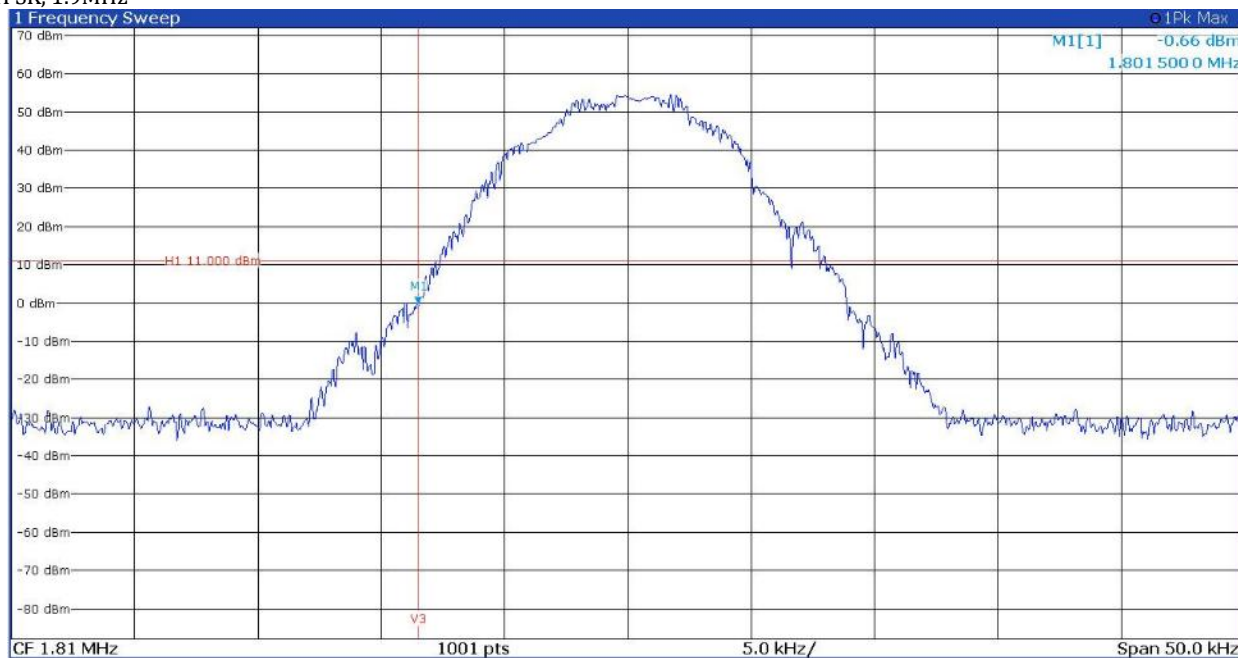


Radiated Emission 30-1000MHz, polarization Horizontal, 24.94MHz, DATA APC025_4FSK (worst condition for radiated emissions)

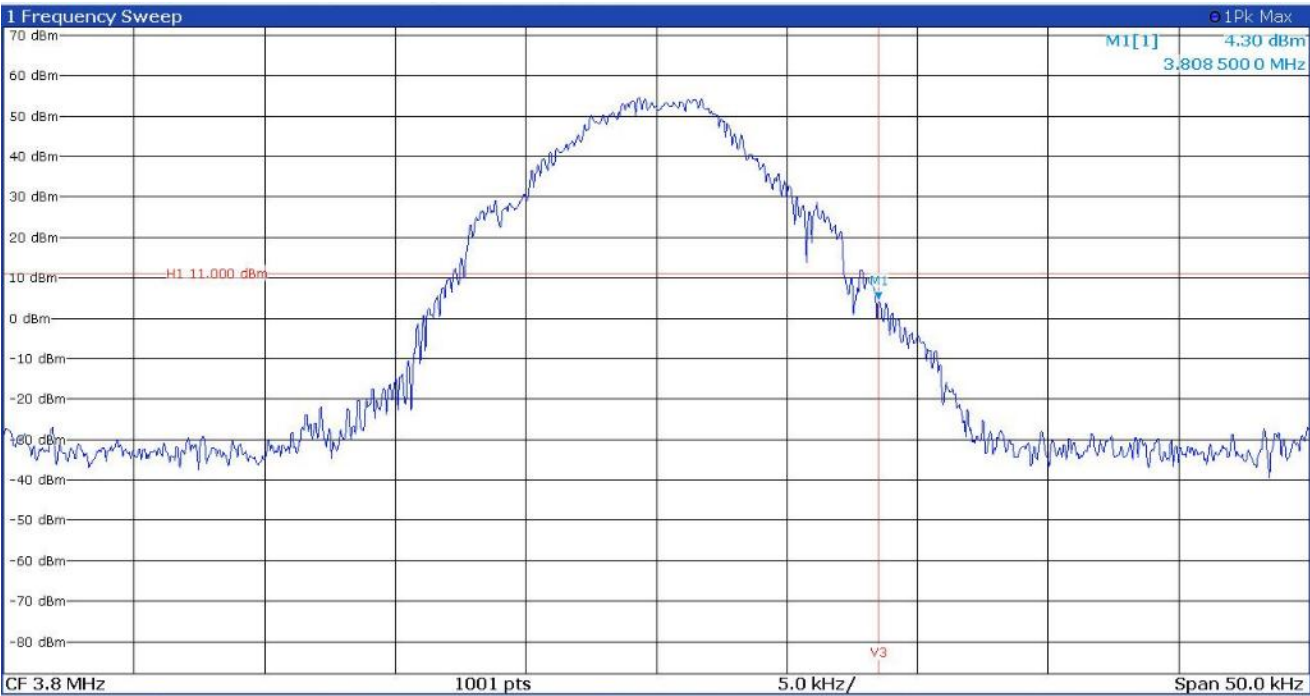
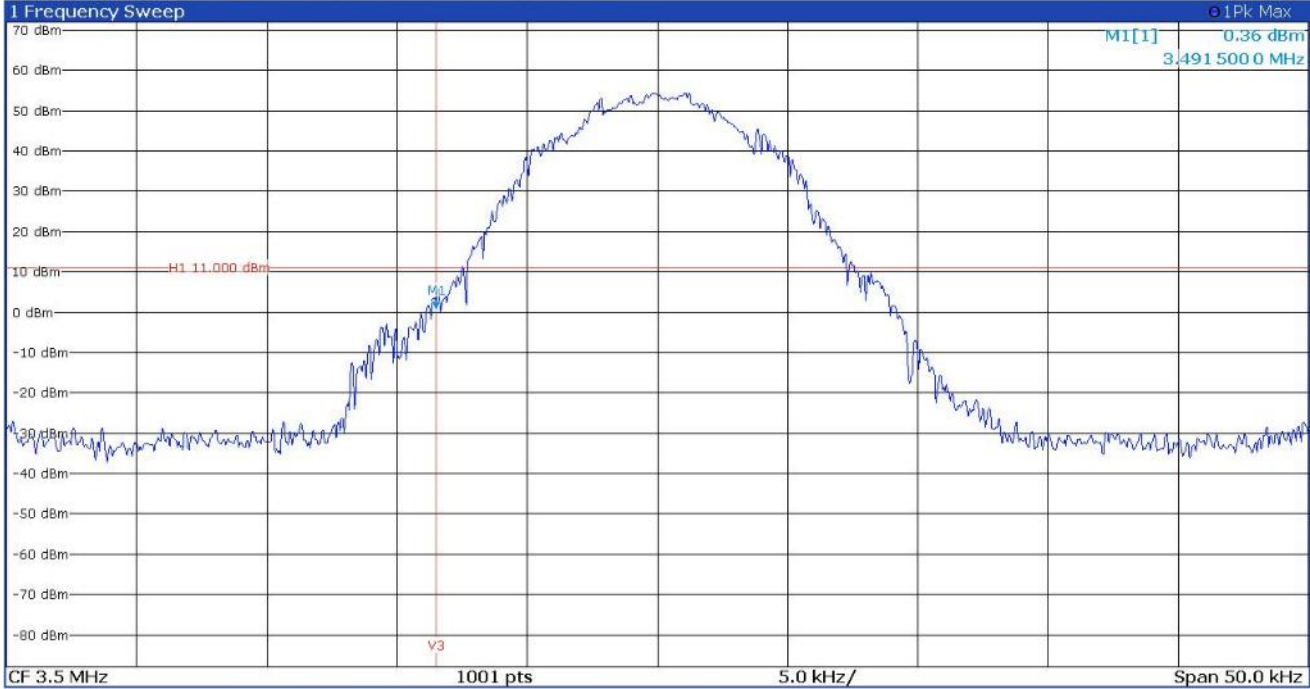


8.2.6 Test data, continued , Band Edge, OBW=8.5kHz

DATA 4FSK, 1.9MHz

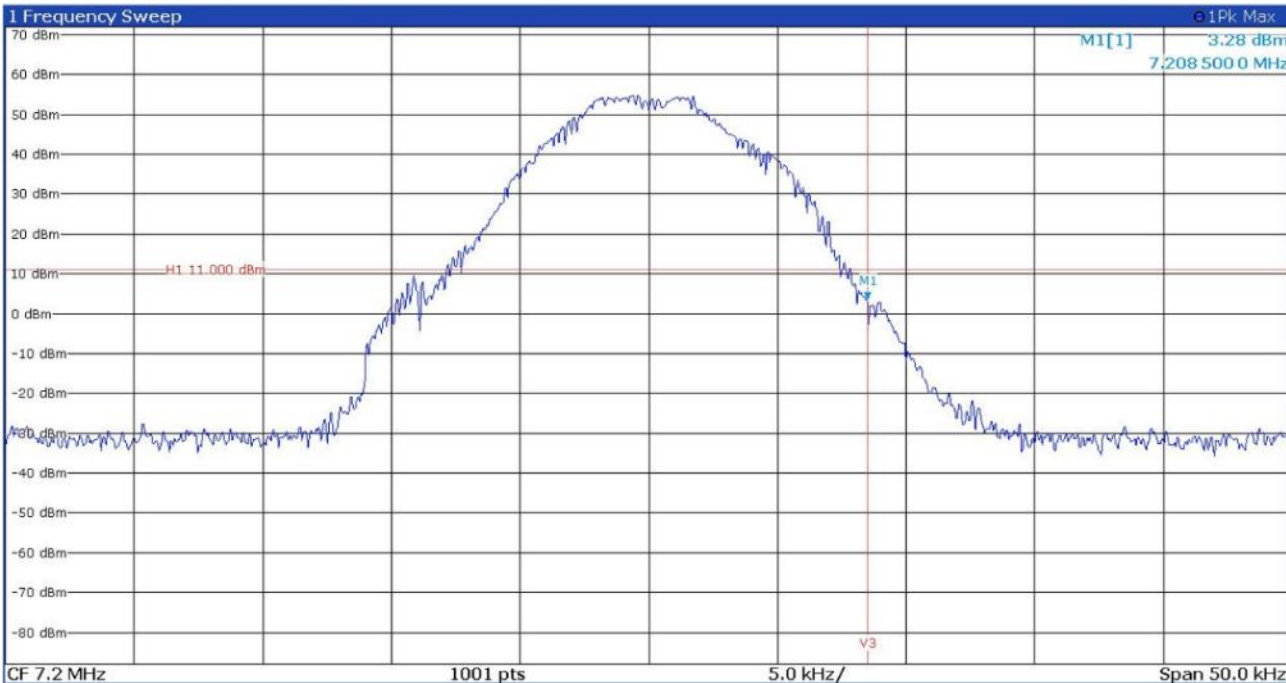


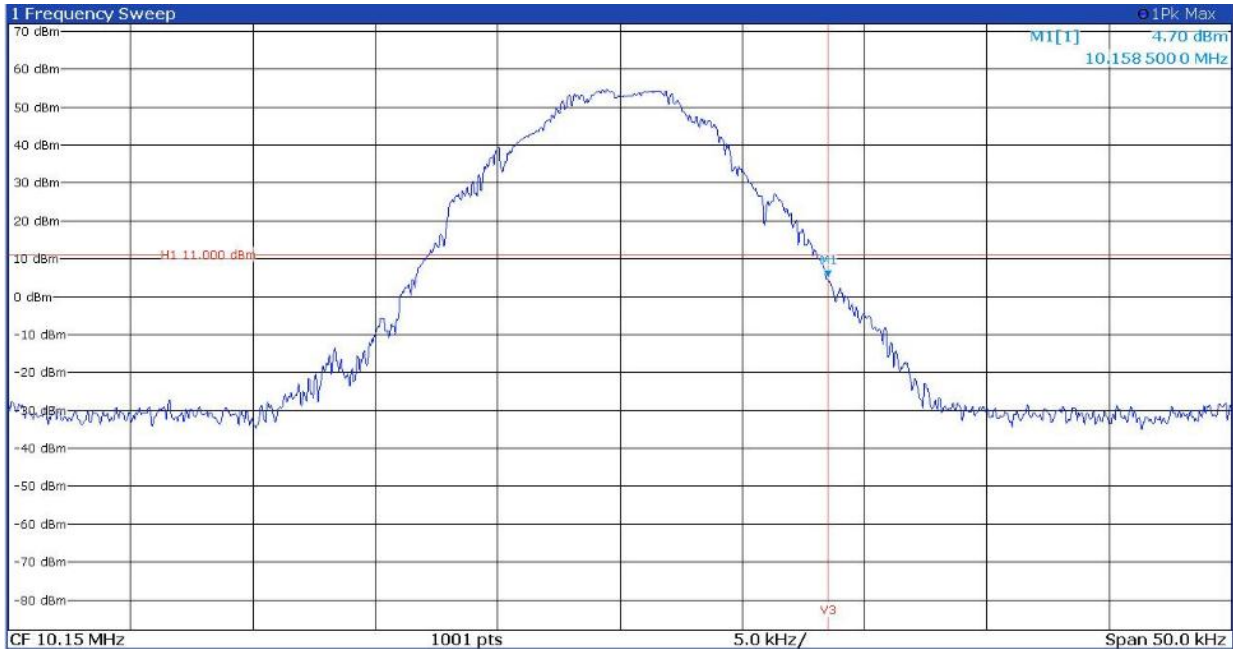
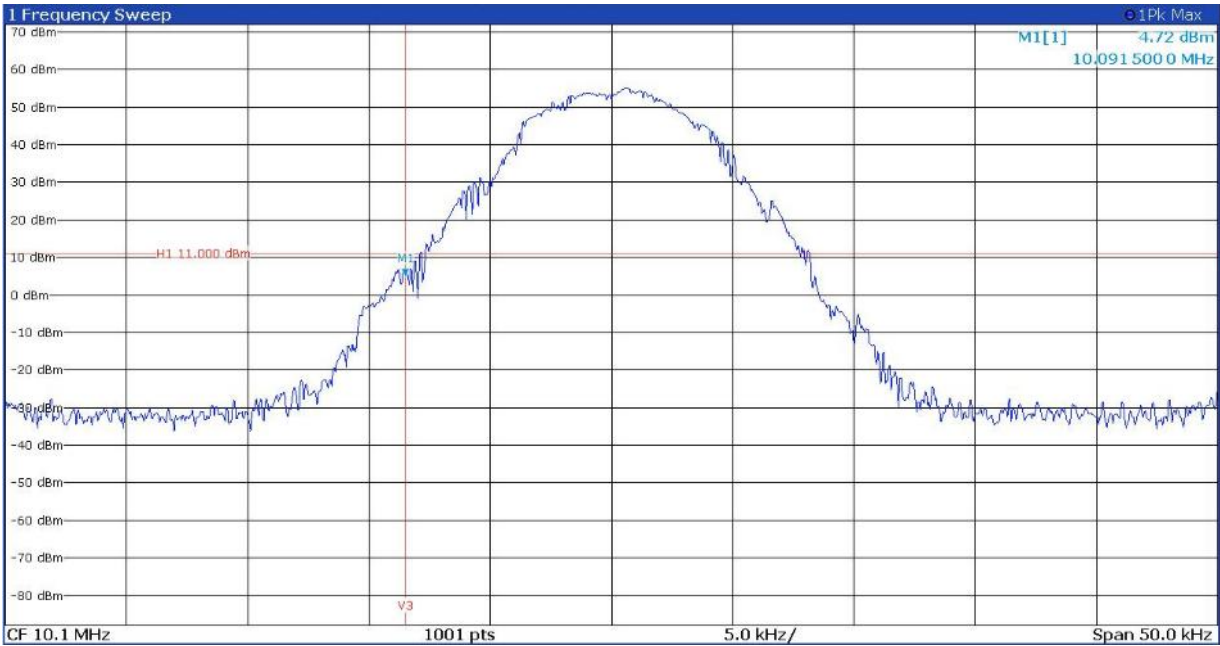
DATA 4FSK, 3.65MHz





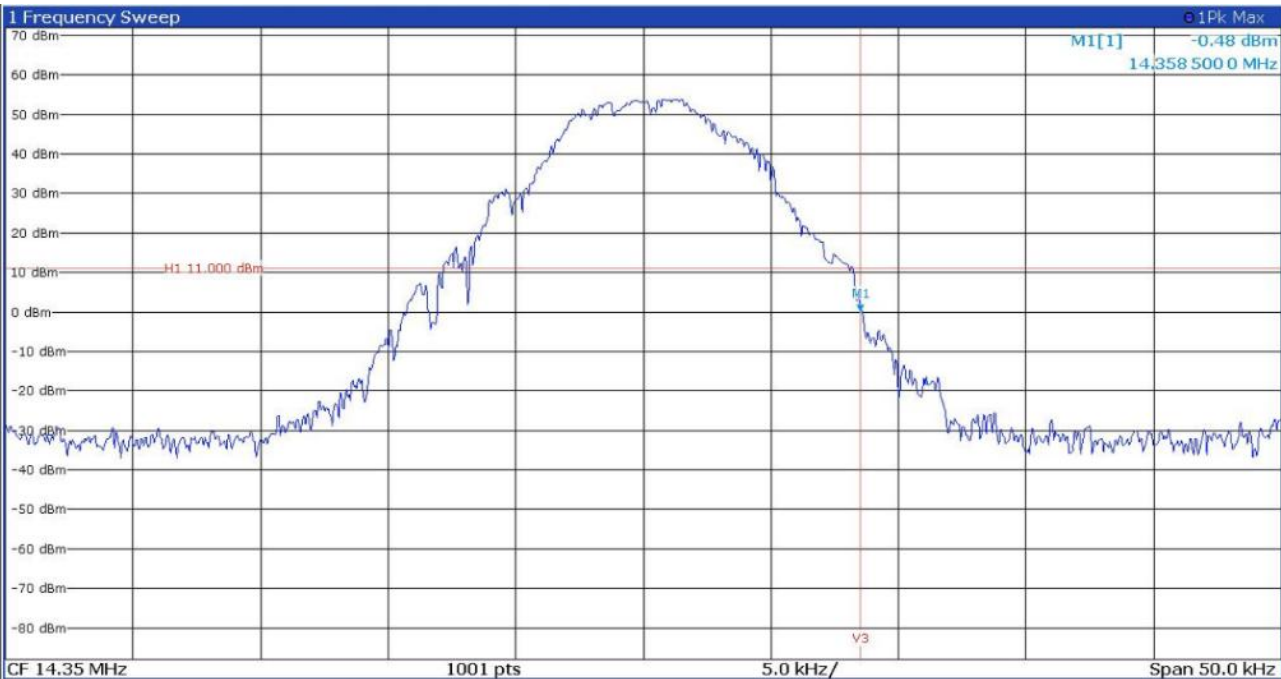
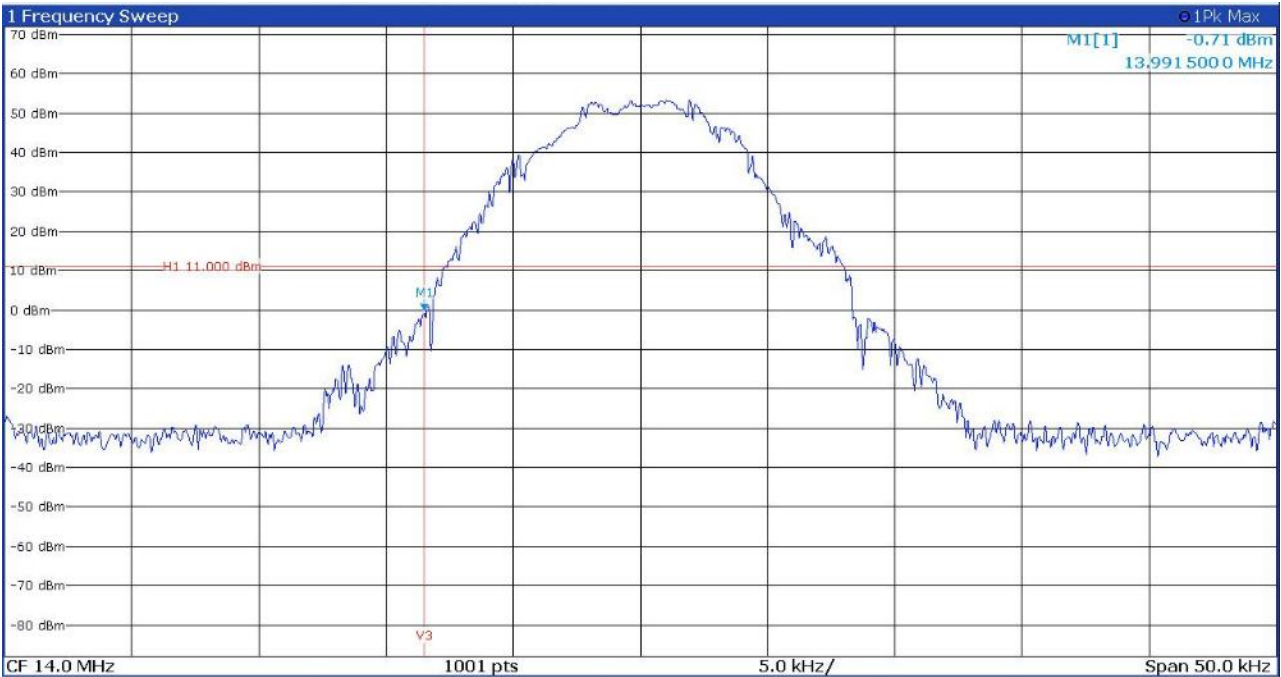
DATA 4FSK, 7.1MHz







DATA 4FSK, 14.175MHz



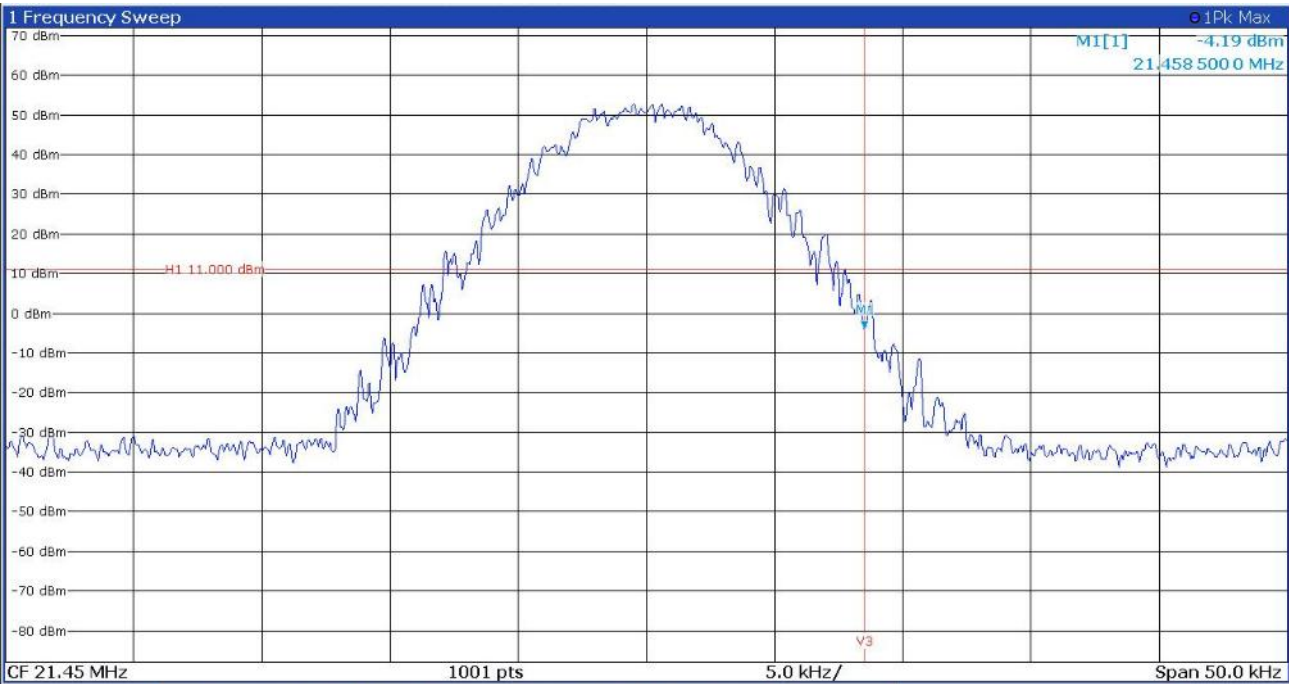
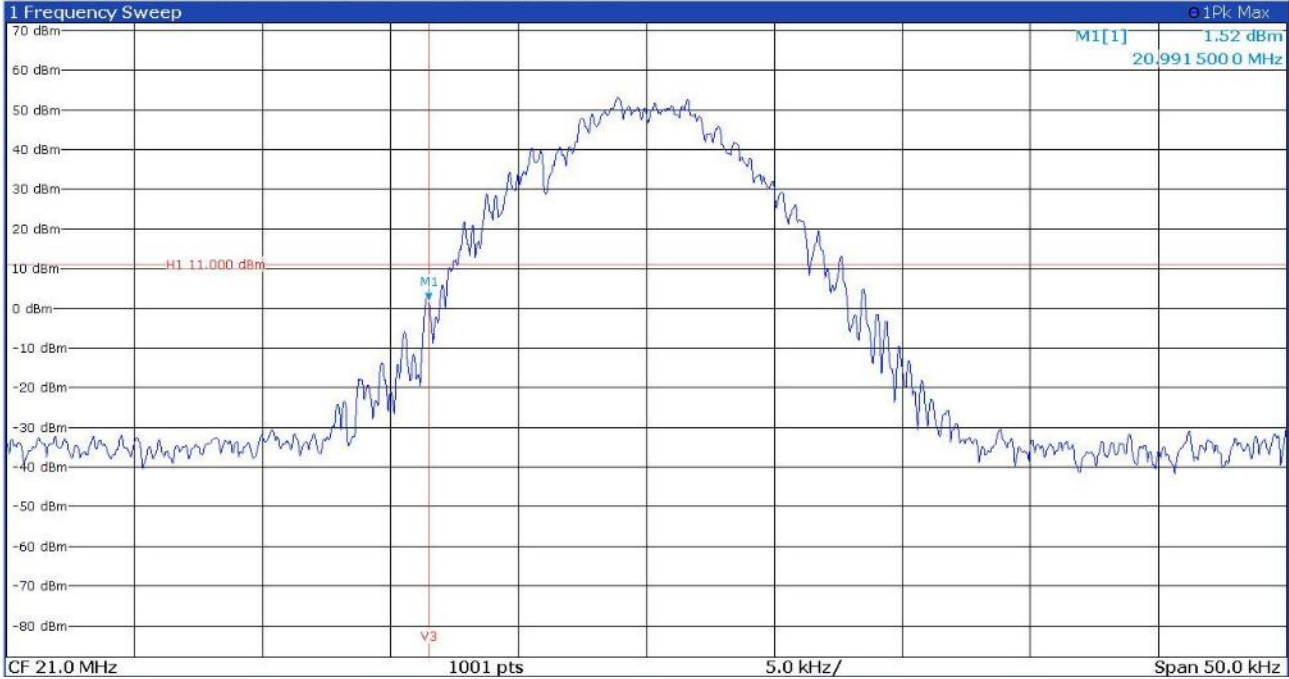


DATA 4FSK, 18.118MHz



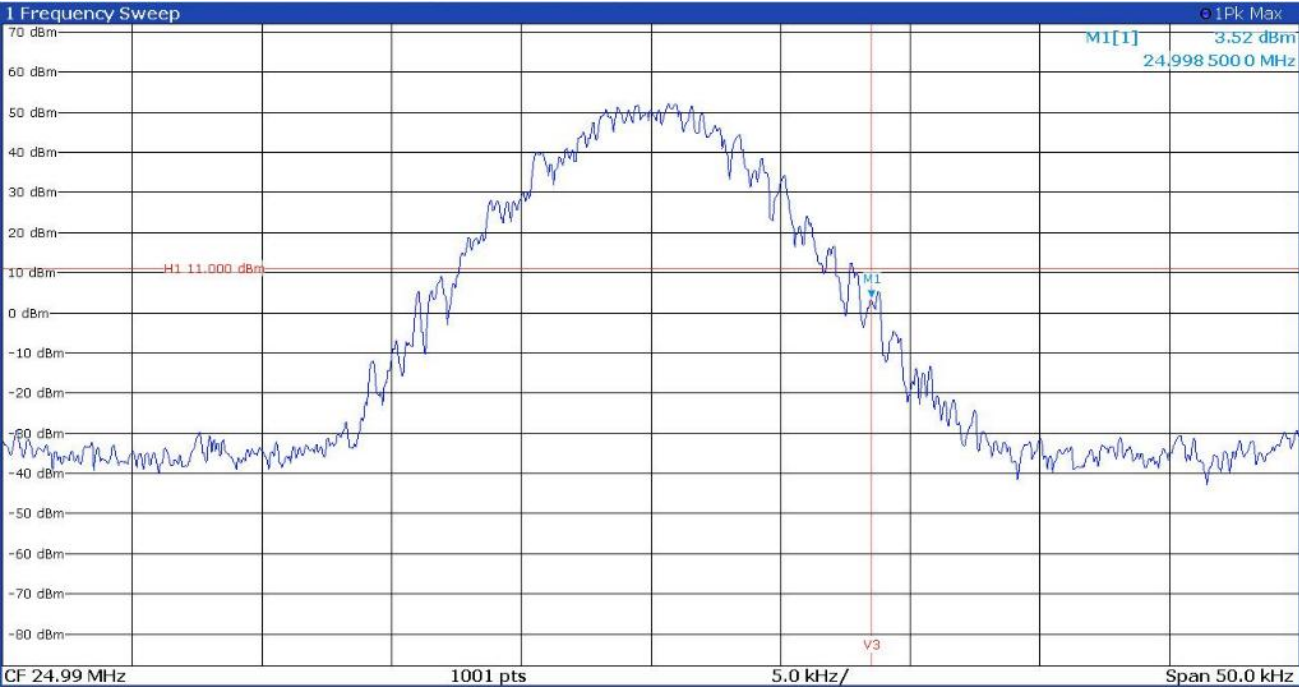
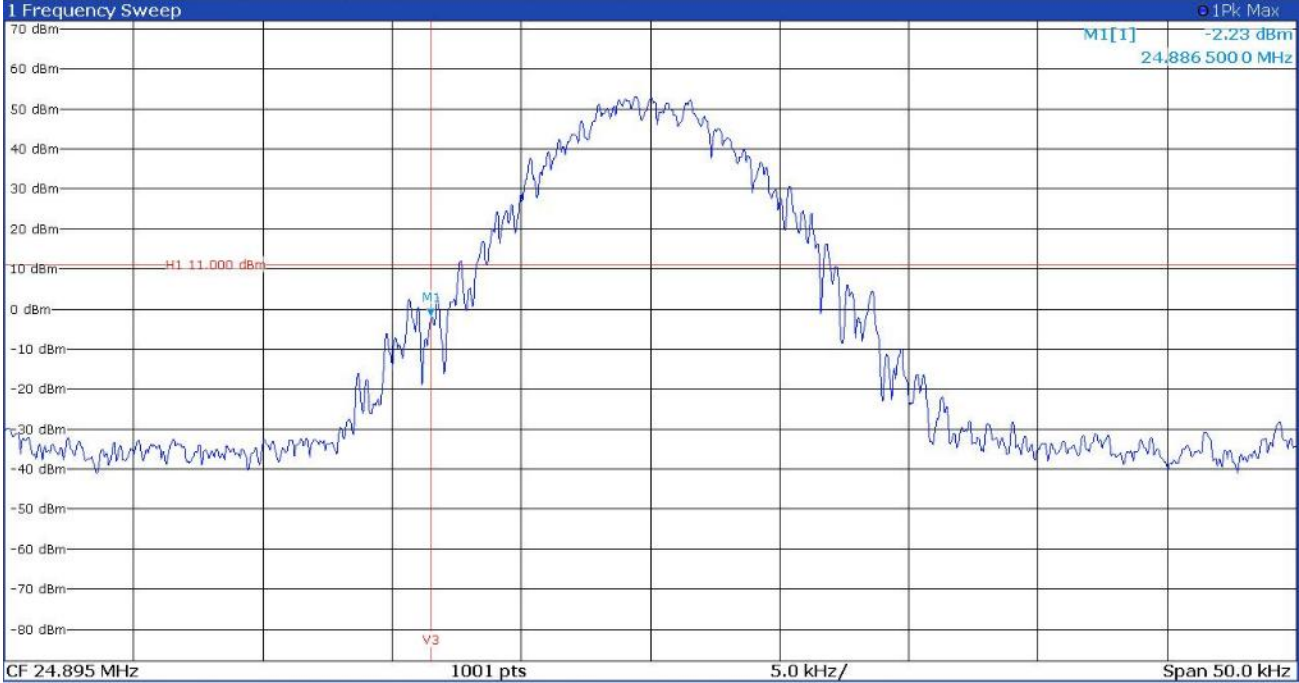


DATA 4FSK, 21.225MHz

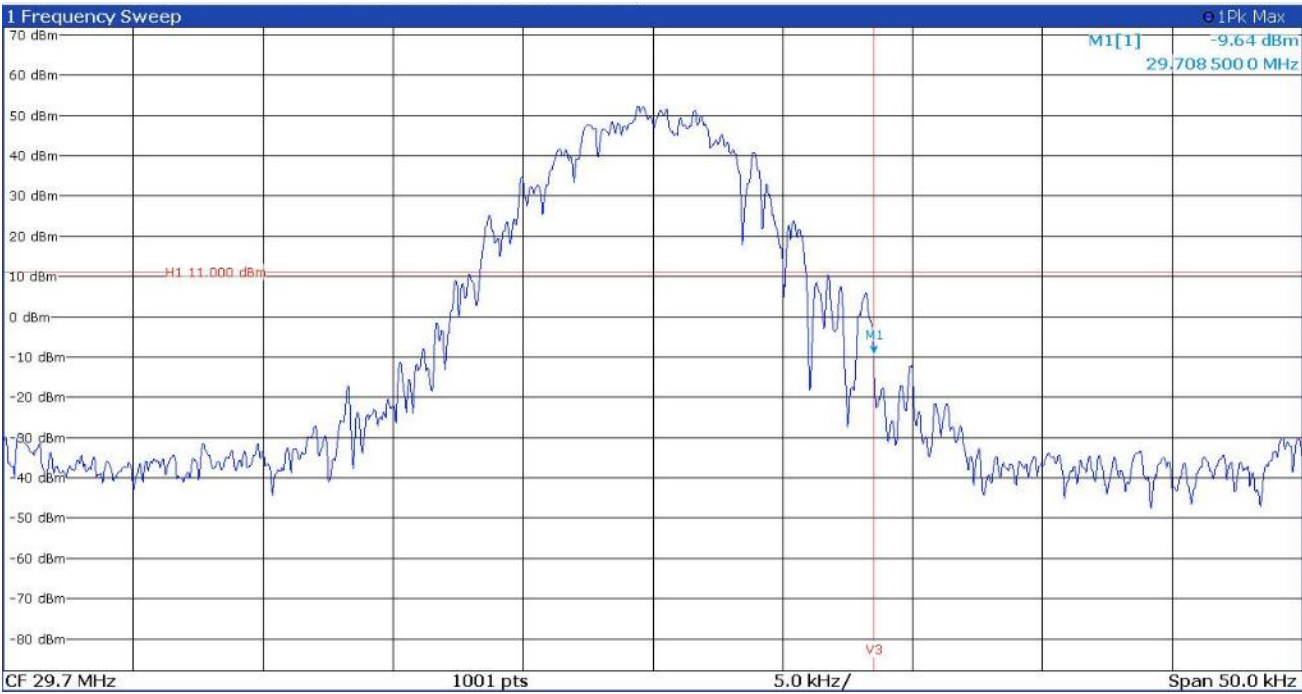
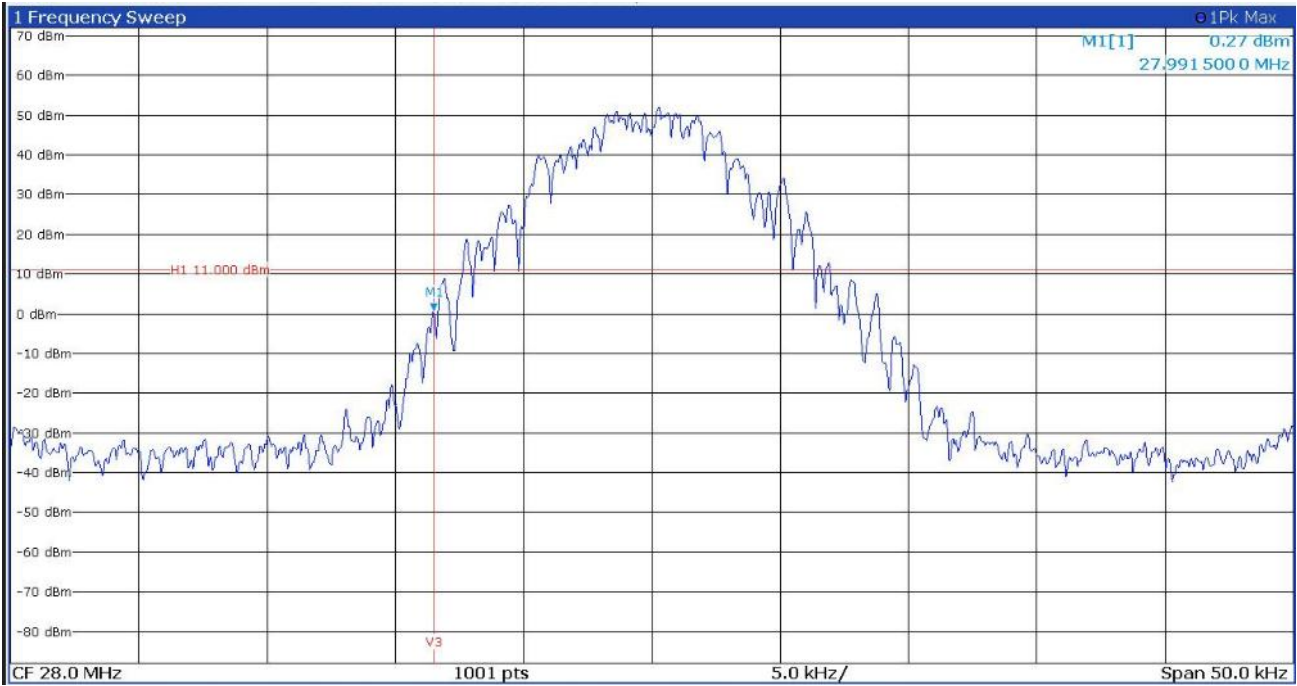




DATA 4FSK, 24.94MHz



DATA 4FSK, 28.85MHz



Section 9. Photos

Conducted emissions

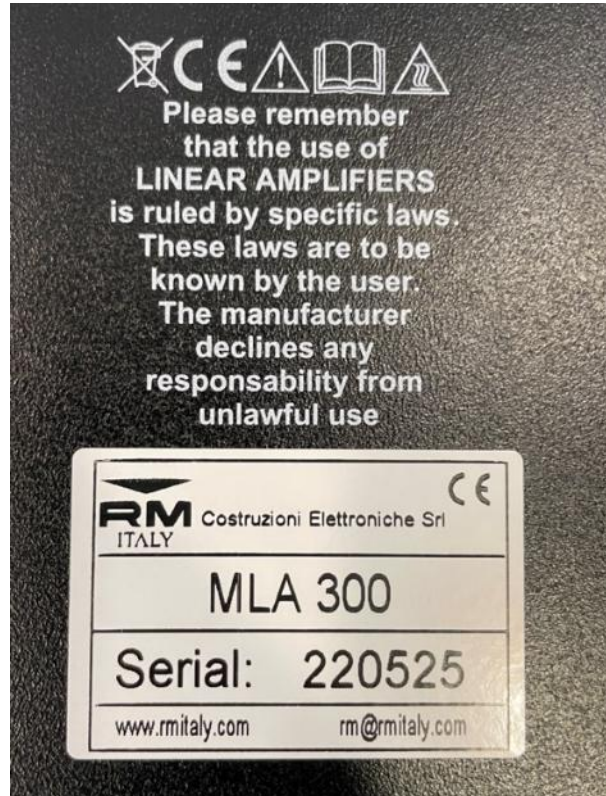


Radiated emissions 9kHz-30MHz



radiated emissions 30-1000MHz









End of report