

Fig. 73 20dB Bandwidth (8DPSK, CH0)

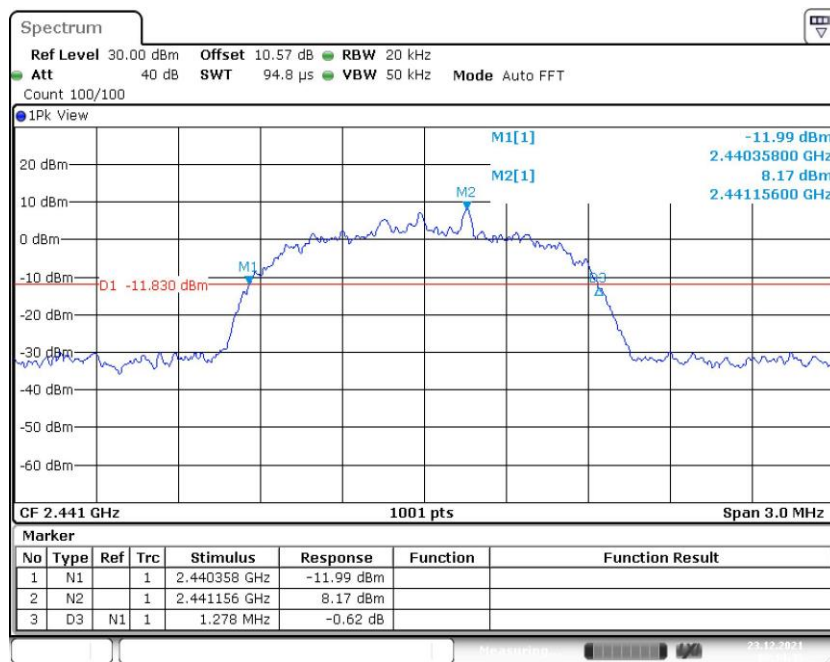


Fig. 74 20dB Bandwidth (8DPSK, CH39)

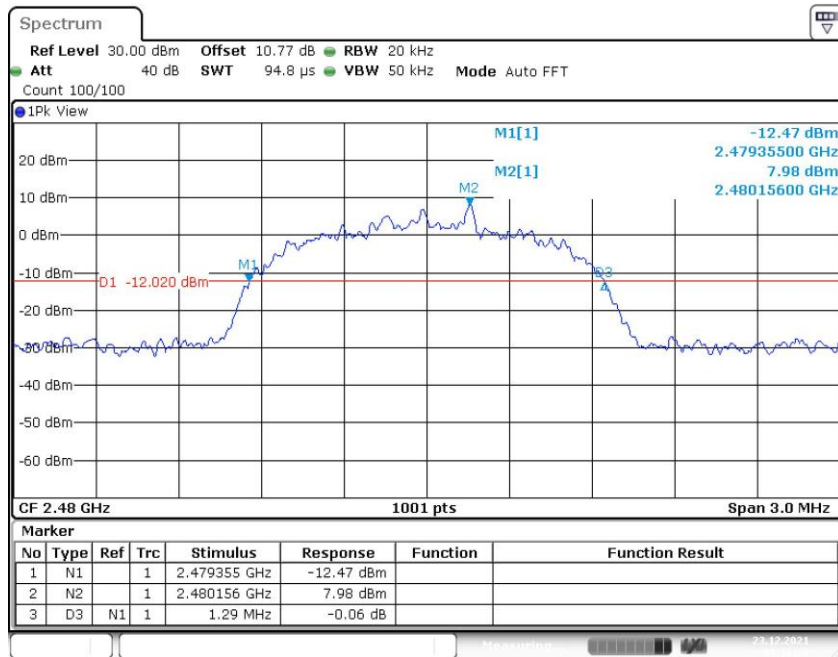


Fig. 75 20dB Bandwidth (8DPSK, CH78)



A.6 Time of Occupancy (Dwell Time)

Method of Measurement: See ANSI C63.10-clause 7.8.4.

Measurement Limit:

Standard	Limit (s)
FCC 47 CFR Part 15.247(a)	< 0.4

Measurement Results:

Mode	Channel	Packet	BurstWidth (ms)		TotalHops (Num)		Result (s)	Conclusion
			Fig.76	2.87	Fig.77	80		
GFSK	39	DH5	Fig.76	2.87	Fig.77	80	0.23	P
$\pi/4$ DQPSK	39	2-DH5	Fig.78	2.87	Fig.79	90	0.26	P
8DPSK	39	3-DH5	Fig.80	2.87	Fig.81	80	0.23	P

See below for test graphs.

Conclusion: Pass

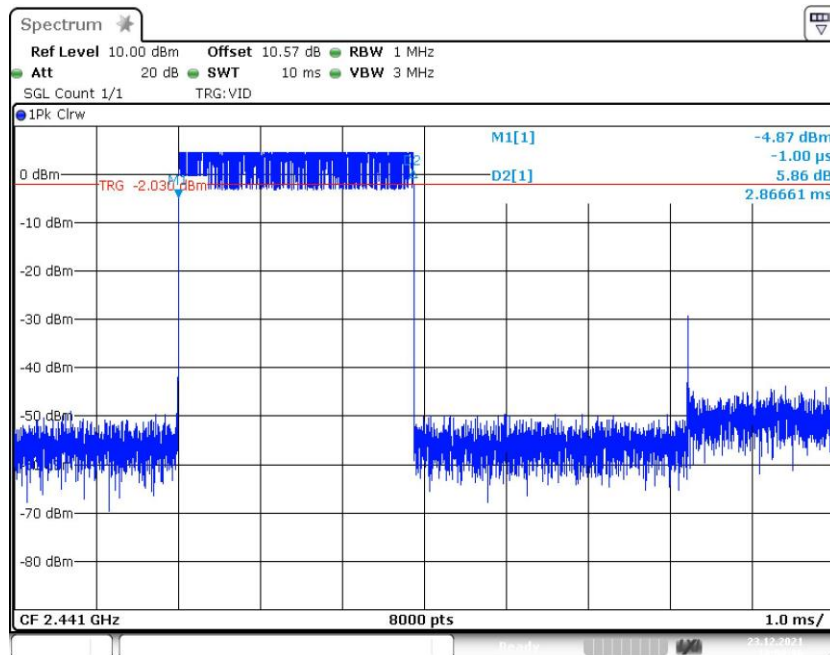


Fig. 76 BurstWidth (Dwell Time) (GFSK, CH39)

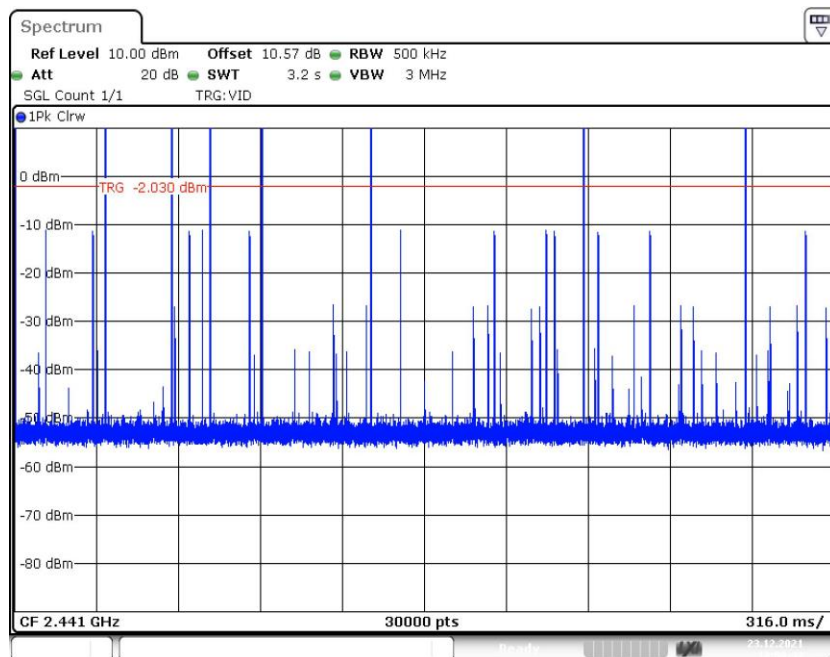


Fig. 77 Number of Burst in Observation Period (Dwell Time) (GFSK, CH39)

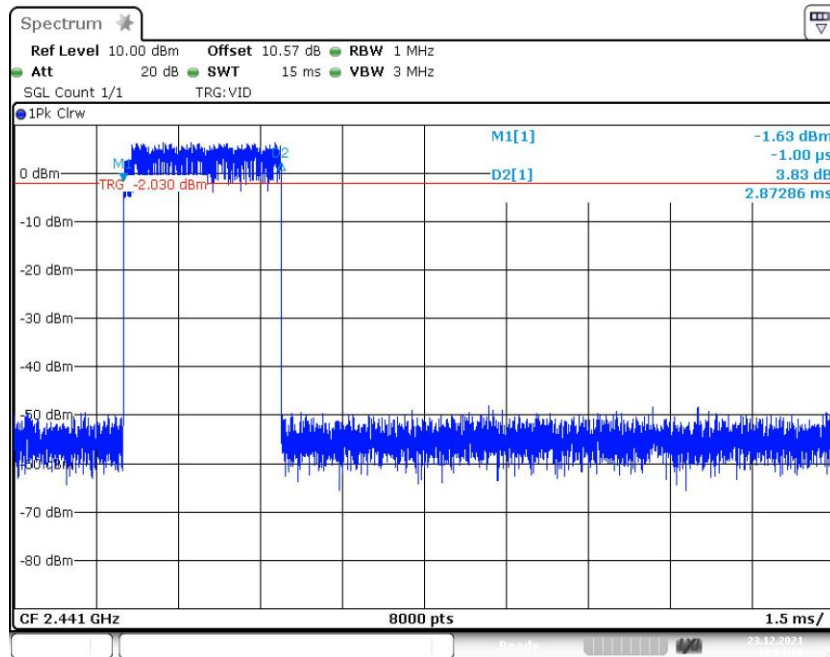


Fig. 78 BurstWidth (Dwell Time) ($\pi/4$ DQPSK, CH39)

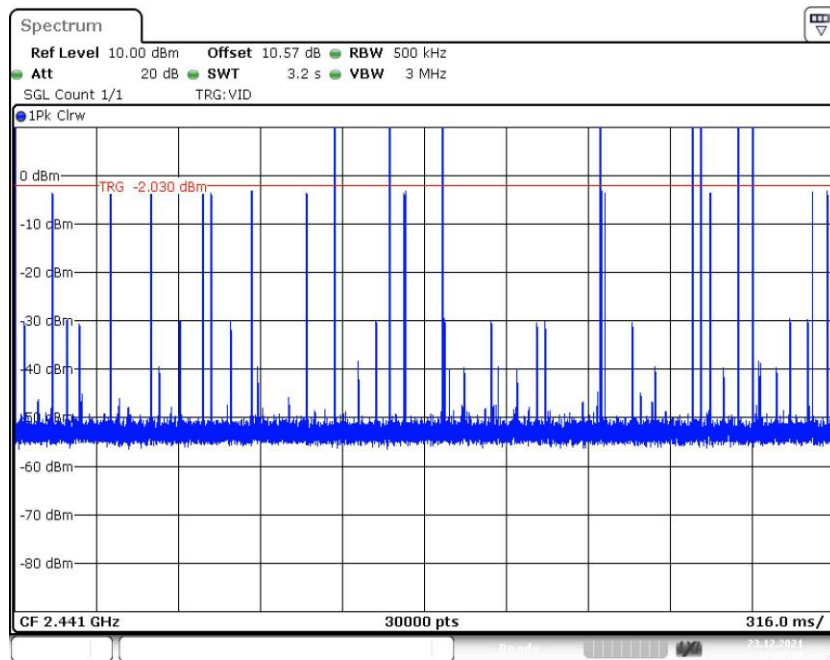


Fig. 79 Number of Burst in Observation Period (Dwell Time) ($\pi/4$ DQPSK, CH39)

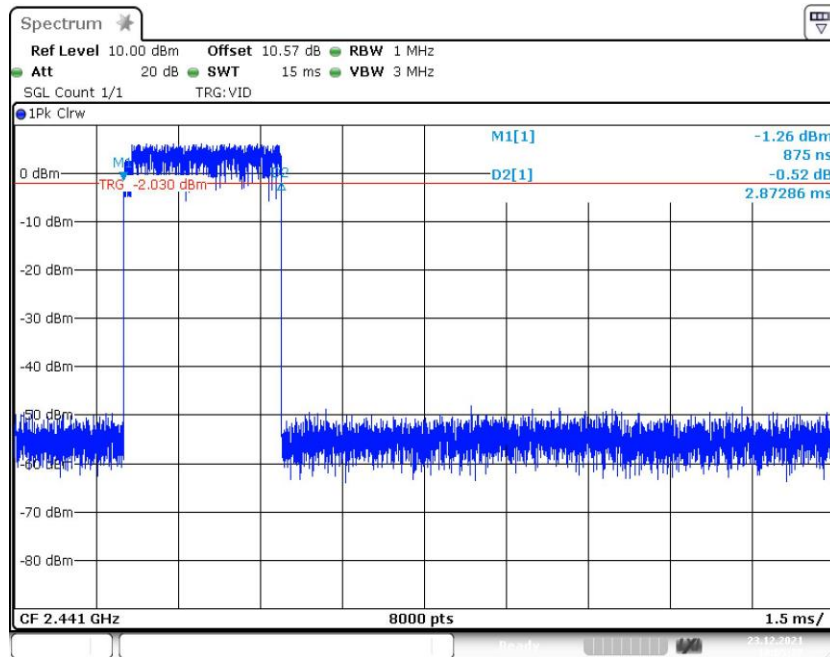


Fig. 80 BurstWidth (Dwell Time) (8DPSK, CH39)

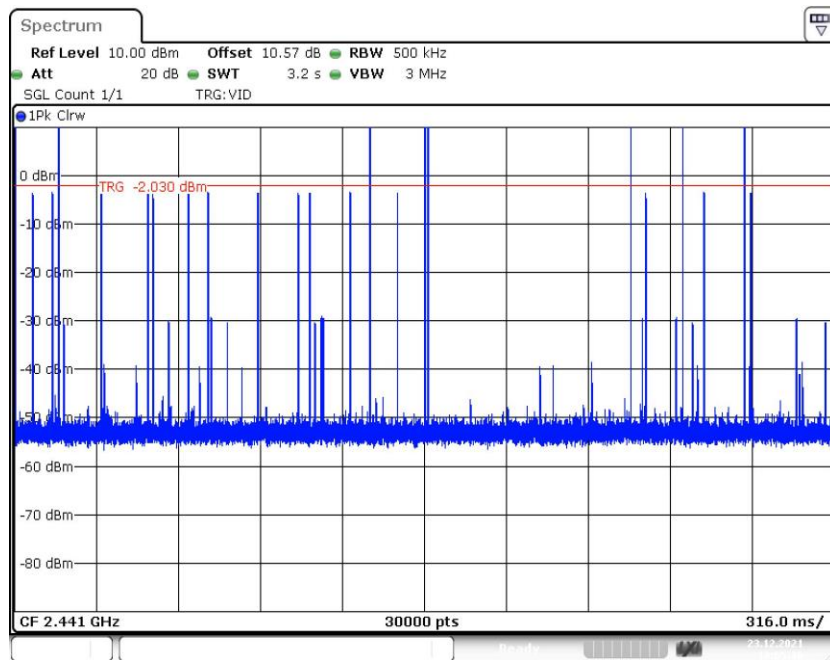


Fig. 81 Number of Burst in Observation Period (Dwell Time) (8DPSK, CH39)



A.7 Number of Hopping Channels

Method of Measurement: See ANSI C63.10-clause 7.8.3.

Measurement Limit:

Standard	Limit (Num)
FCC 47 CFR Part 15.247(a)	At least 15 non-overlapping channels

Measurement Results:

Mode	Packet	Number of Hopping Channels	Test results (Num)	Conclusion
GFSK	DH5	Fig.82	79	P
$\pi/4$ DQPSK	2-DH5	Fig.83	79	P
8DPSK	3-DH5	Fig.84	79	P

See below for test graphs.

Conclusion: Pass

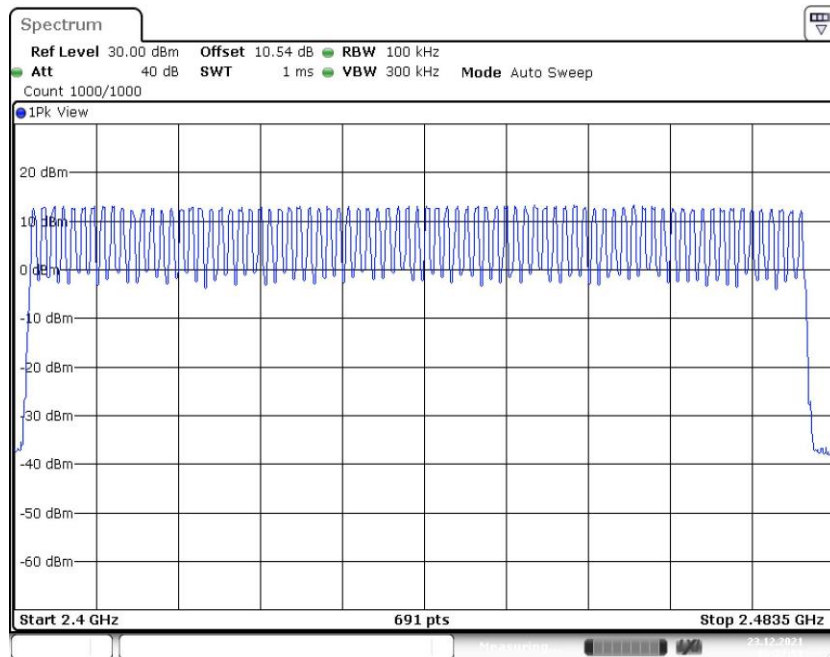


Fig. 82 Number of Hopping Channels (GFSK, Hopping)

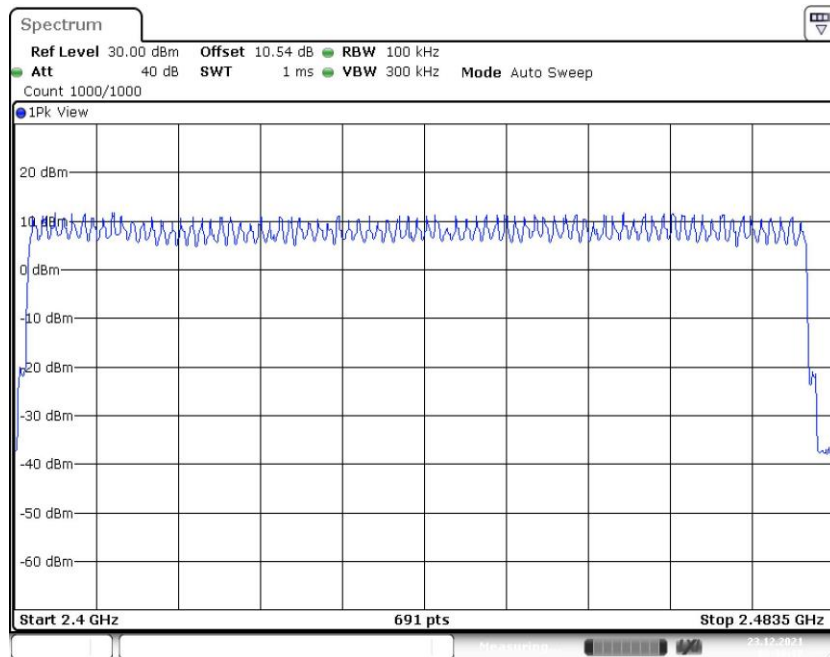


Fig. 83 Number of Hopping Channels ($\pi/4$ DQPSK, Hopping)

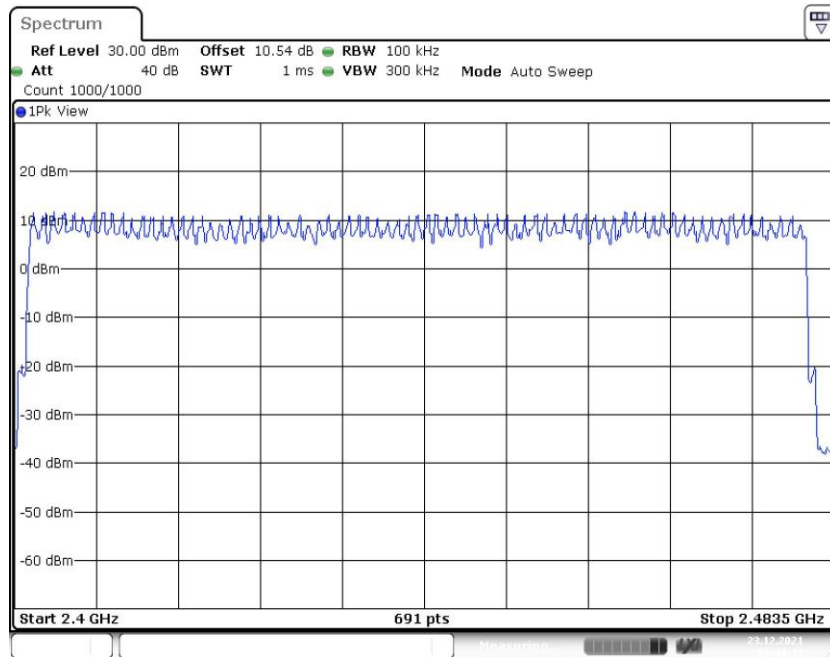


Fig. 84 Number of Hopping Channels (8DPSK, Hopping)



A.8 Carrier Frequency Separation

Method of Measurement: See ANSI C63.10-clause 7.8.2.

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a)	By a minimum of 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater

Measurement Results:

Mode	Channel	Packet	Separation of hopping channels	Test result (kHz)	Conclusion
GFSK	39	DH5	Fig.85	1003.00	P
$\pi/4$ DQPSK	39	2-DH5	Fig.86	1003.00	P
8DPSK	39	3-DH5	Fig.87	1003.00	P

See below for test graphs.

Conclusion: Pass

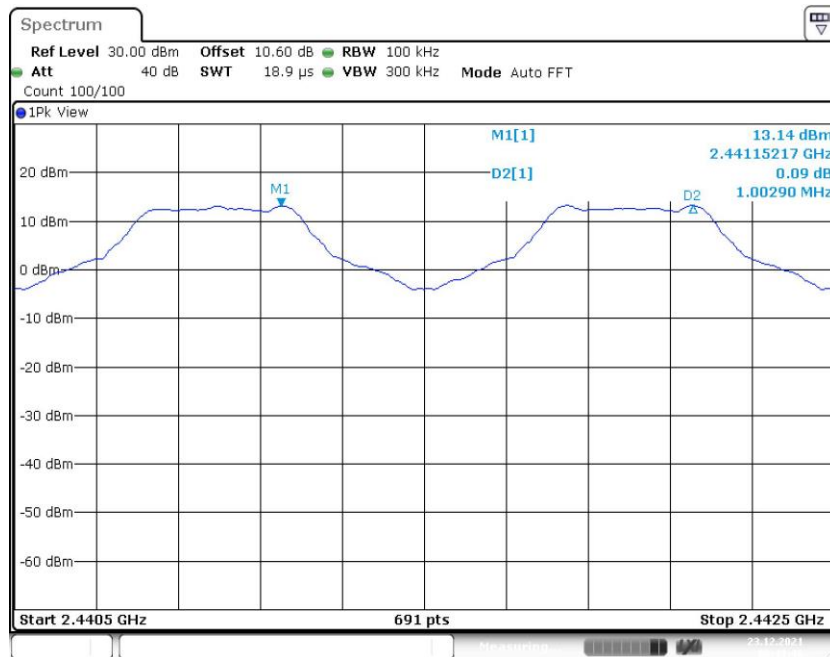


Fig. 85 Carrier Frequency Separation (GFSK, CH39)

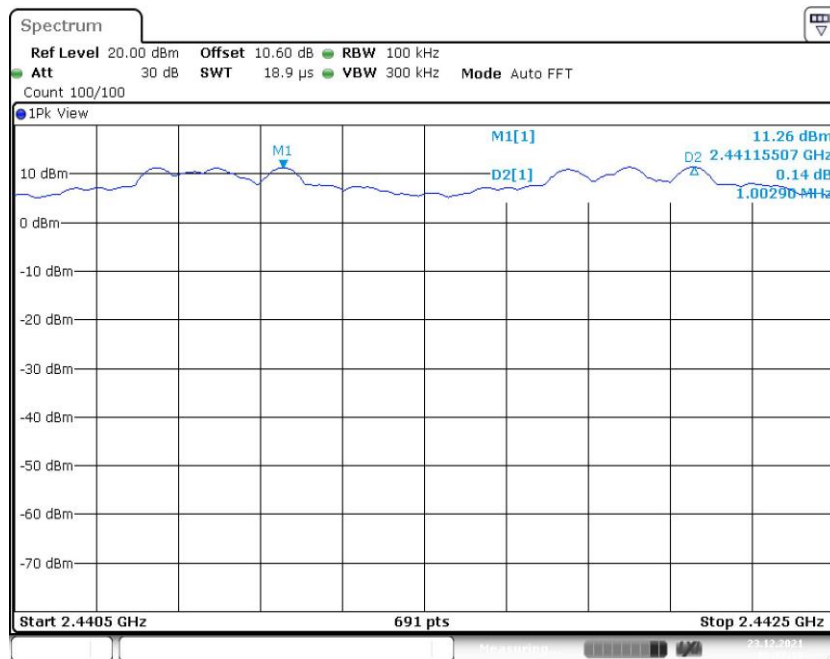


Fig. 86 Carrier Frequency Separation ($\pi/4$ DQPSK, CH39)

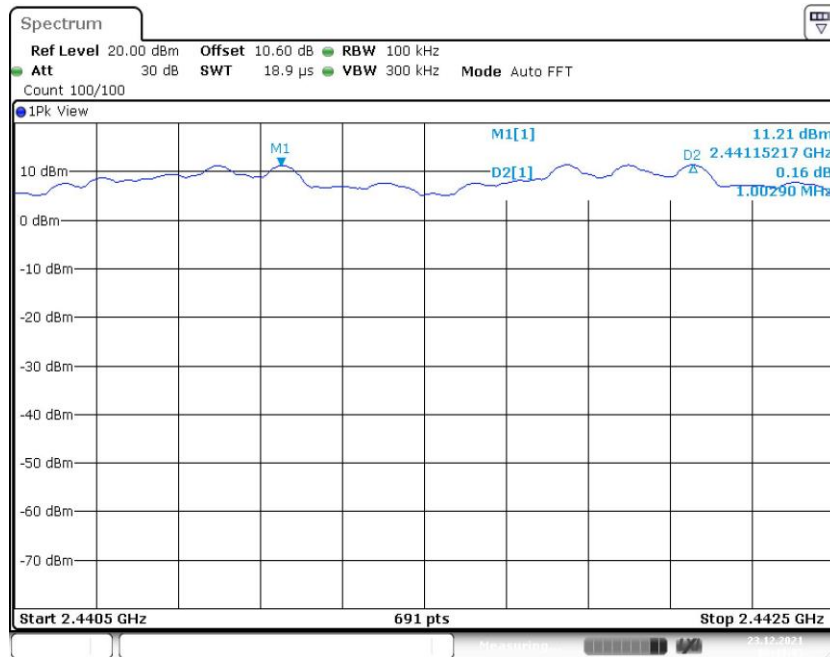


Fig. 87 Carrier Frequency Separation (8DPSK, CH39)



A.9 AC Power line Conducted Emission

Method of Measurement: See ANSI C63.10-clause 6.2

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

BT- AE2, AE3, AE4

Frequency range (MHz)	Quasi-peak Limit (dBµV)	Average-peak Limit (dBµV)	Result (dBµV)		Conclusion
			Traffic	Idle	
0.15 to 0.5	66 to 56	56 to 46	Fig.88	Fig.89	P
0.5 to 5	56	46			
5 to 30	60	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Note: The measurement results include the L1 and N measurements.

See below for test graphs.

Conclusion: Pass

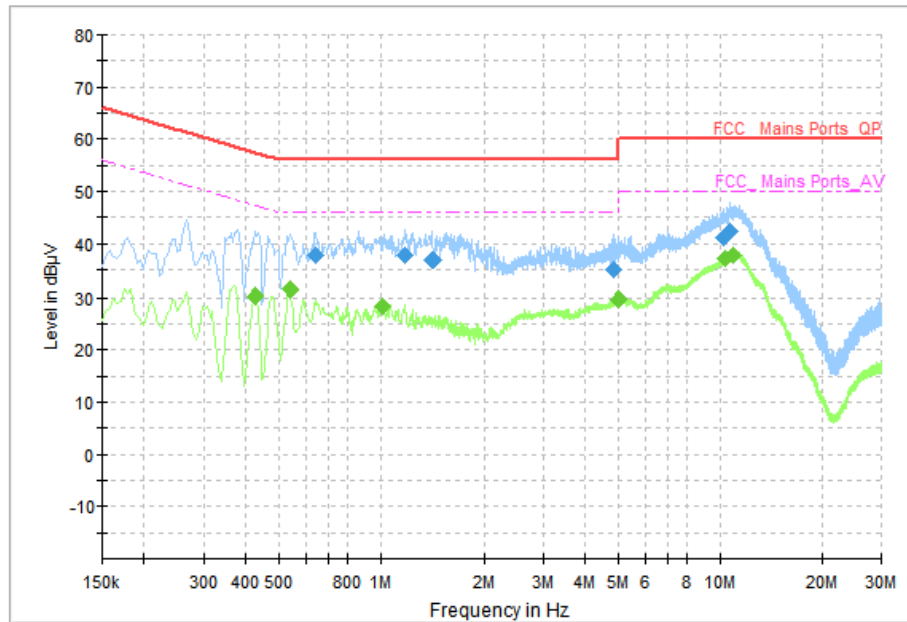


Fig. 88 AC Power line Conducted Emission (Traffic)

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.646000	37.82	56.00	18.18	L1	ON	10
1.186000	37.74	56.00	18.26	L1	ON	10
1.414000	36.81	56.00	19.19	L1	ON	10
4.866000	35.13	56.00	20.87	L1	ON	10
10.226000	41.11	60.00	18.89	L1	ON	10
10.694000	42.44	60.00	17.56	N	ON	10

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.426000	30.21	47.33	17.12	L1	ON	10
0.538000	31.23	46.00	14.77	L1	ON	10
1.014000	28.46	46.00	17.54	L1	ON	10
4.998000	29.51	46.00	16.49	L1	ON	10
10.386000	37.17	50.00	12.83	N	ON	10
10.958000	37.77	50.00	12.23	N	ON	10

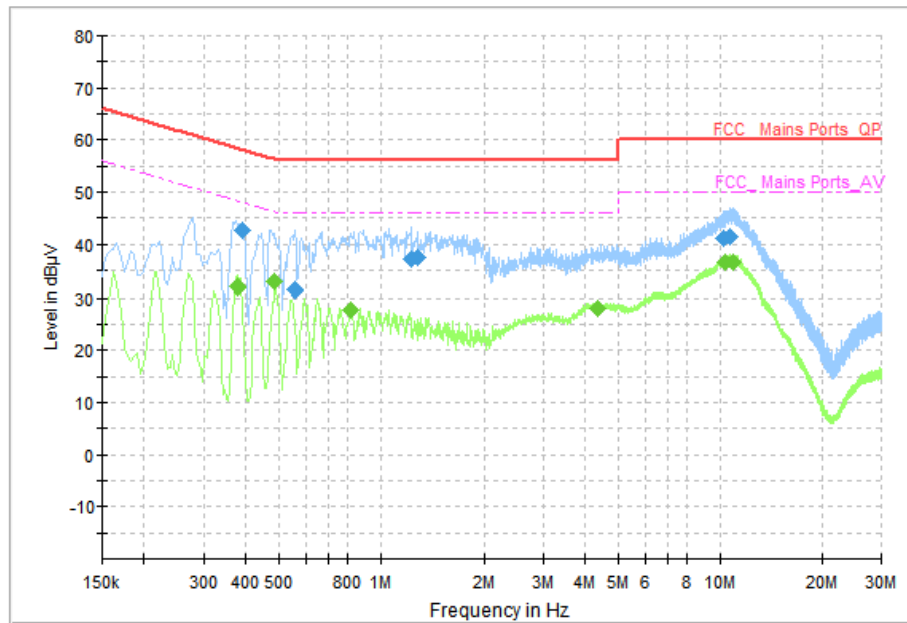


Fig. 89 AC Power line Conducted Emission (Idle)

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.390000	42.84	58.06	15.22	L1	ON	10
0.558000	31.51	56.00	24.49	L1	ON	10
1.230000	37.30	56.00	18.70	L1	ON	10
1.286000	37.38	56.00	18.62	L1	ON	10
10.238000	41.06	60.00	18.94	N	ON	10
10.682000	41.39	60.00	18.61	N	ON	10

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.378000	32.12	48.32	16.21	L1	ON	10
0.486000	32.85	46.24	13.38	L1	ON	10
0.818000	27.72	46.00	18.28	L1	ON	10
4.342000	28.12	46.00	17.88	N	ON	9
10.342000	36.57	50.00	13.43	N	ON	10
10.882000	36.56	50.00	13.44	N	ON	10

END OF REPORT