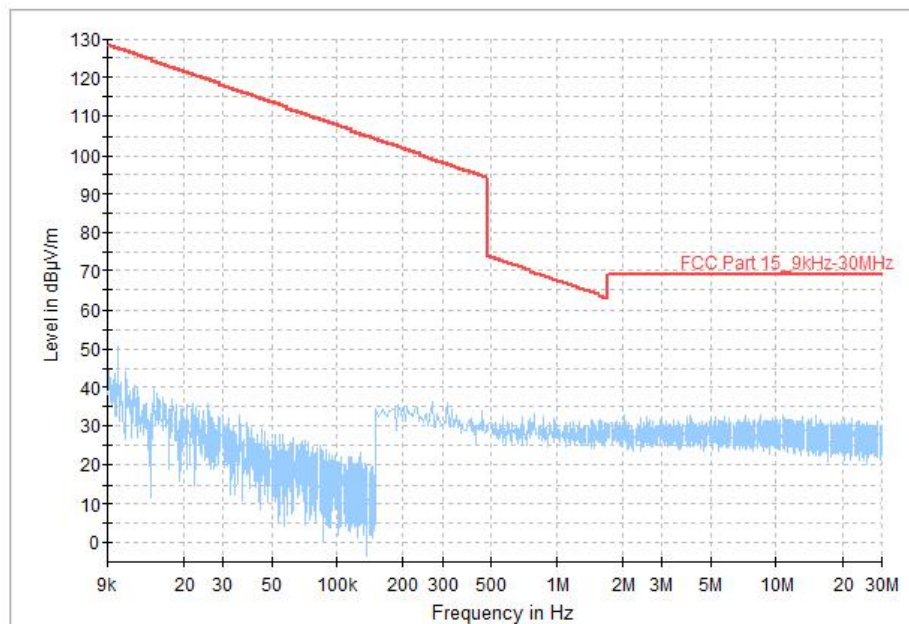
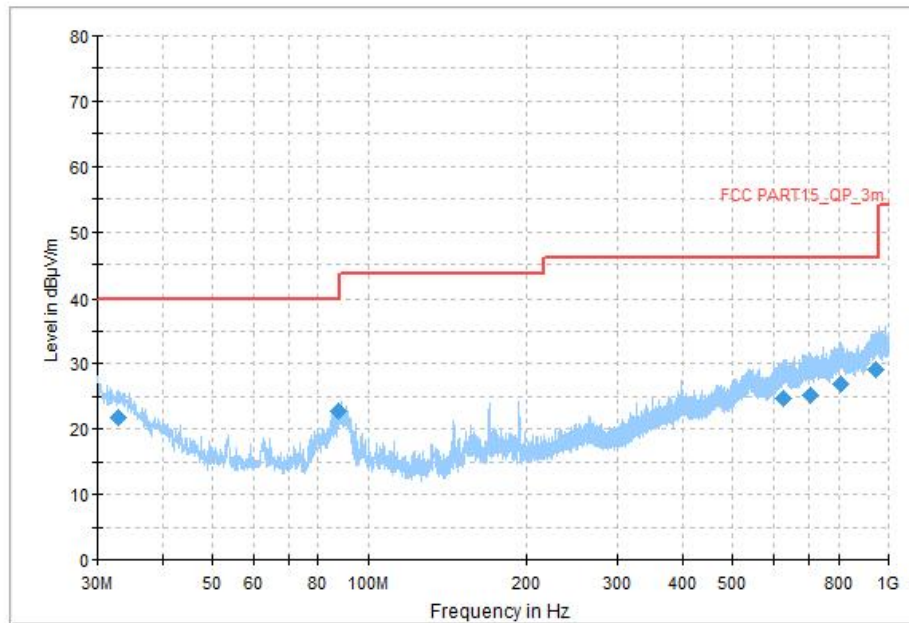


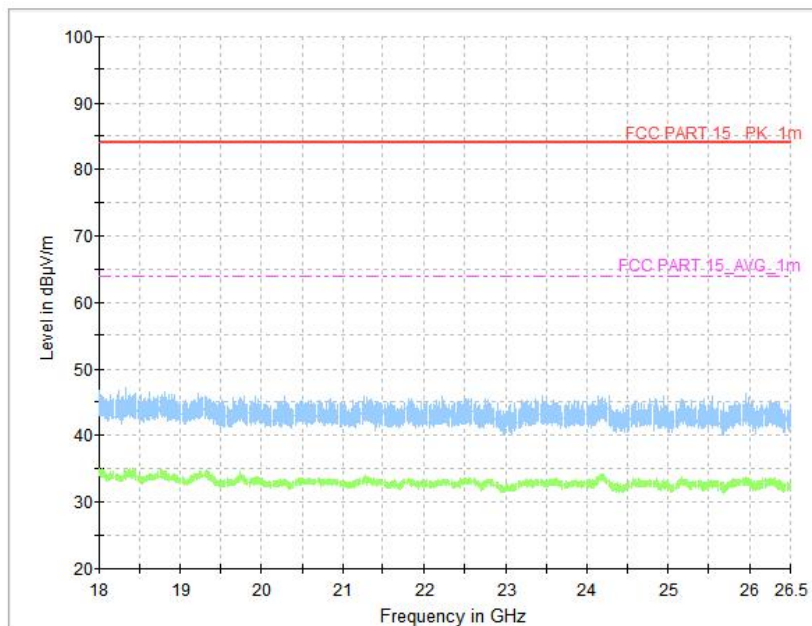
**Fig. 37 Radiated Band Edges (8DPSK, CH78, 2.45GHz~2.50GHz)**



**Fig. 38 Radiated Spurious Emission (All Channels, 9kHz ~30MHz)**



**Fig. 39 Radiated Spurious Emission (All Channels, 30MHz ~1GHz)**



**Fig. 40 Radiated Spurious Emission (All Channels, 18GHz ~26.5GHz)**

**A.5 20dB Bandwidth****Method of Measurement: See ANSI C63.10-clause 7.8.7.****Measurement Limit:**

Standard	Limit (MHz)
FCC 47 CFR Part 15.247 (a)	/

**Measurement Result:**

Mode	Frequency (MHz)	20dB Bandwidth (MHz)		Conclusion
GFSK	2402(CH0)	Fig.41	0.90	/
	2441(CH39)	Fig.42	0.90	
	2480(CH78)	Fig.43	0.90	
$\pi/4$ DQPSK	2402(CH0)	Fig.44	1.32	/
	2441(CH39)	Fig.45	1.32	
	2480(CH78)	Fig.46	1.32	
8DPSK	2402(CH0)	Fig.47	1.29	/
	2441(CH39)	Fig.48	1.29	
	2480(CH78)	Fig.49	1.29	

**See below for test graphs.****Conclusion: PASS**

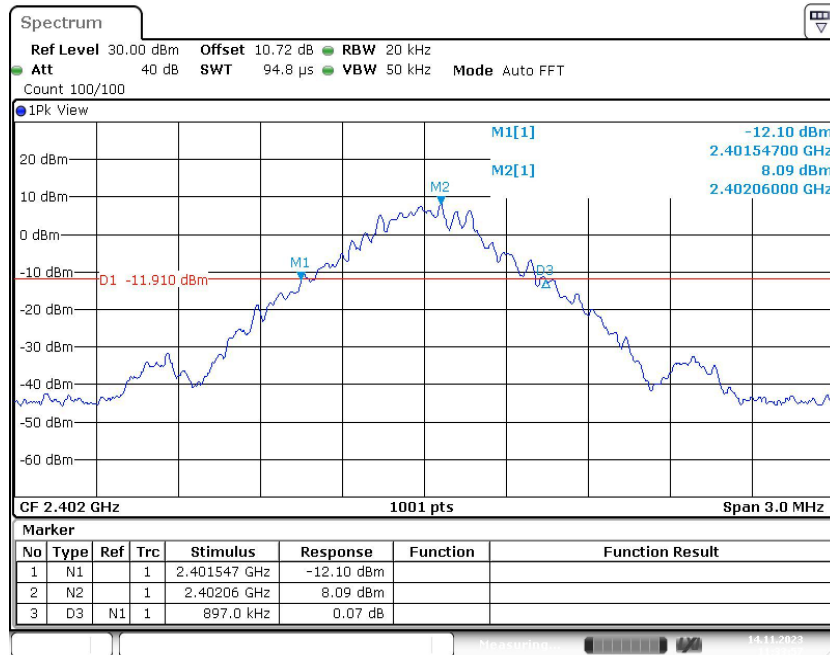


Fig. 41 20dB Bandwidth (GFSK, CH0)

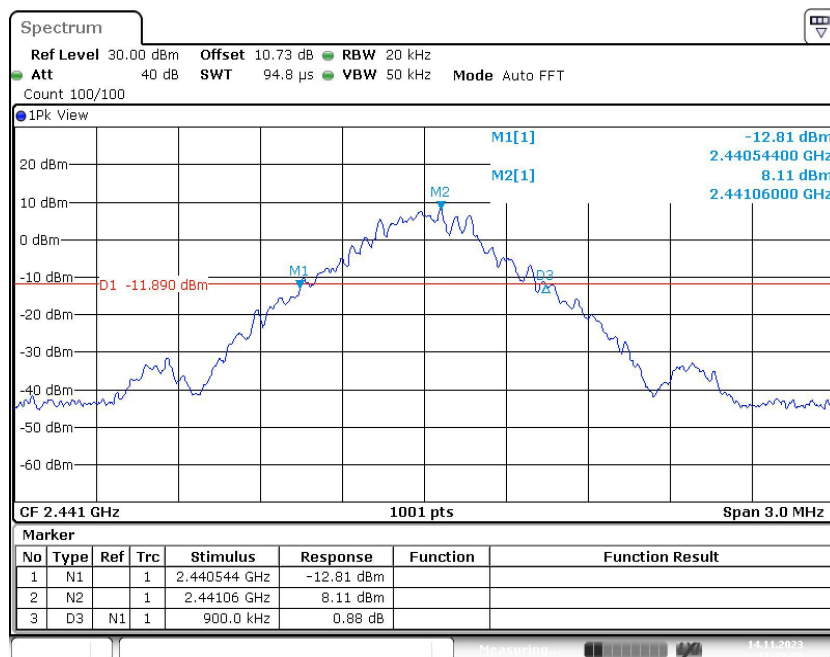


Fig. 42 20dB Bandwidth (GFSK, CH39)

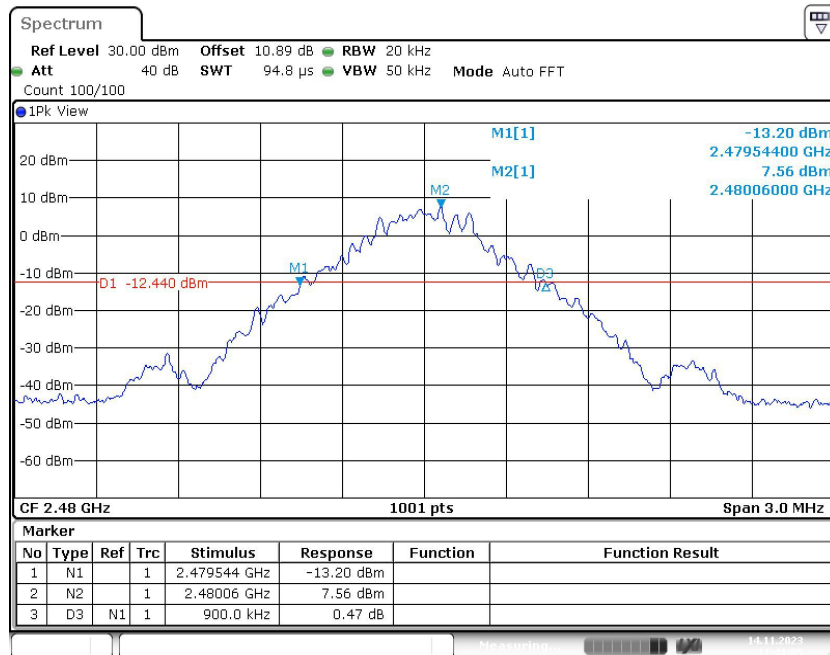
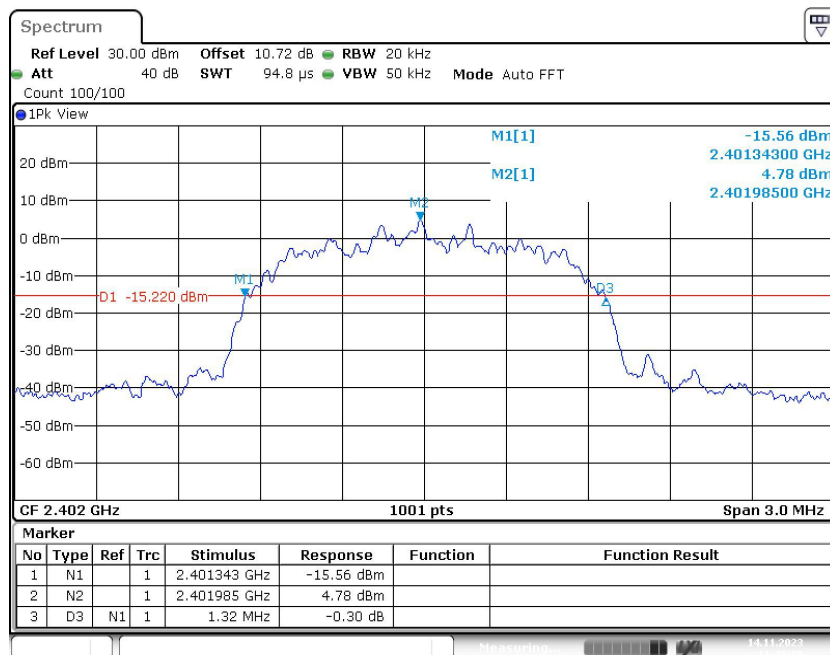


Fig. 43 20dB Bandwidth (GFSK, CH78)


 Fig. 44 20dB Bandwidth ( $\pi/4$  DQPSK, CH0)

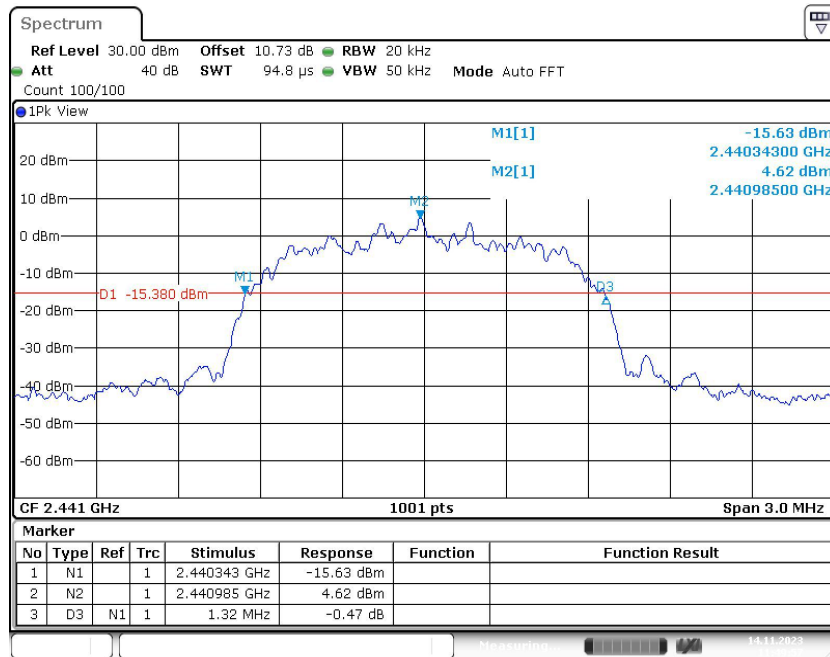


Fig. 45 20dB Bandwidth ( $\pi/4$  DQPSK, CH39)

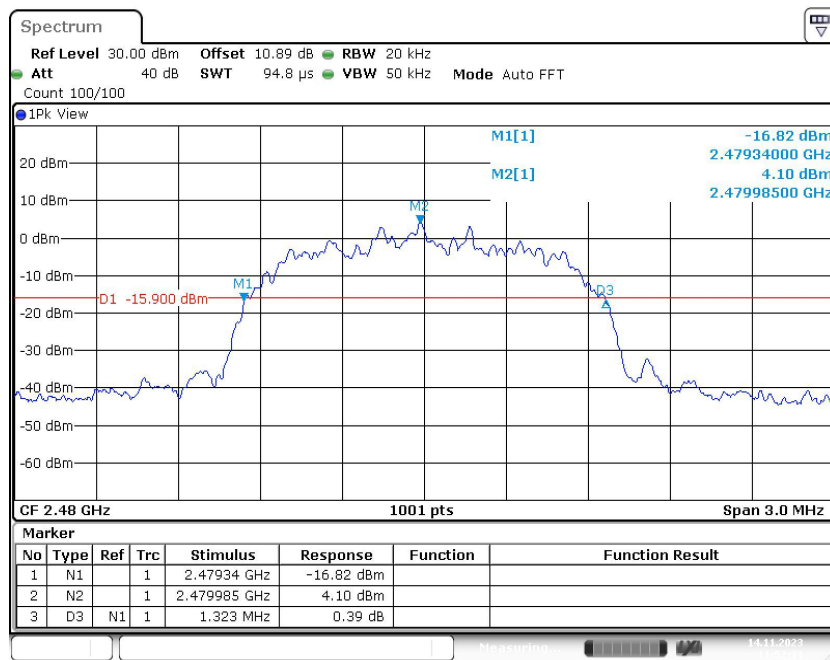


Fig. 46 20dB Bandwidth ( $\pi/4$  DQPSK, CH78)

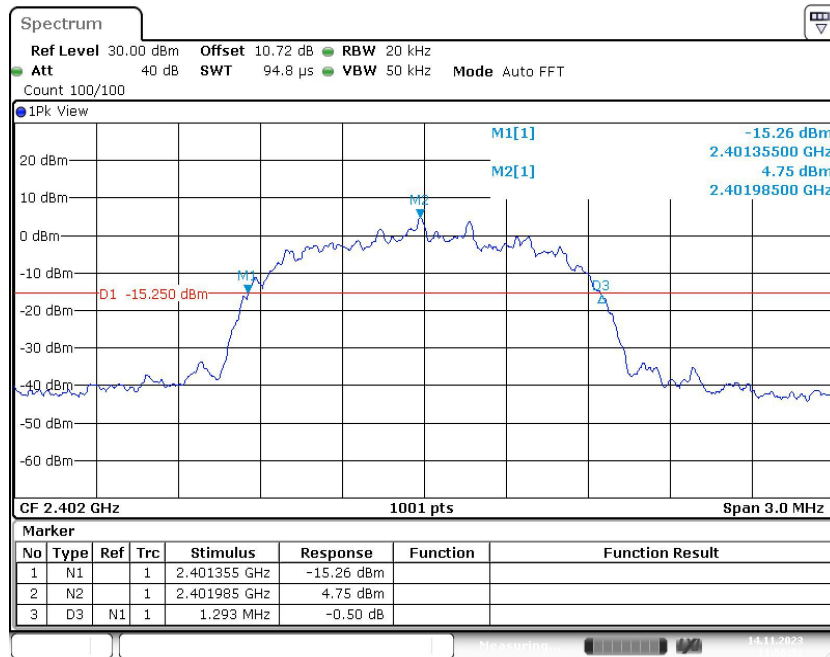


Fig. 47 20dB Bandwidth (8DPSK, CH0)

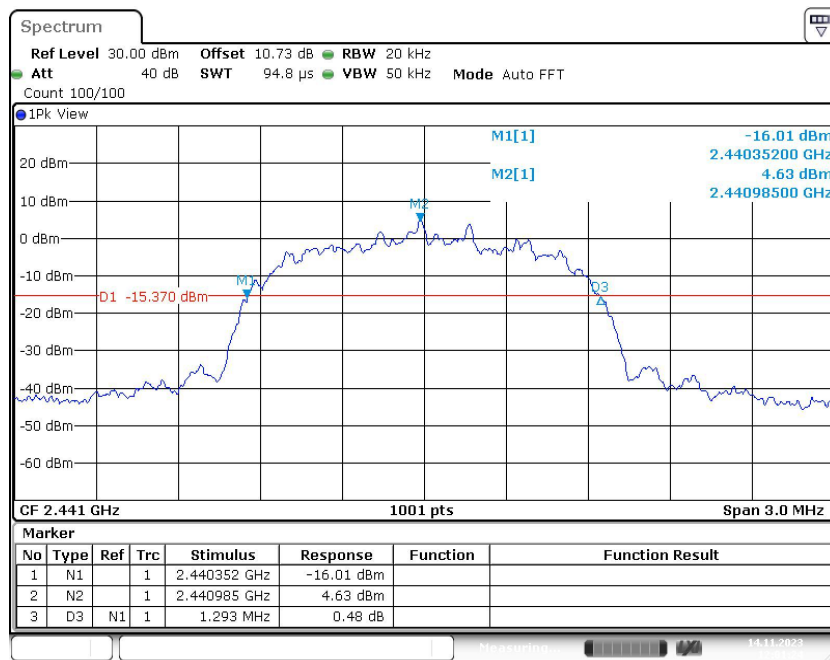


Fig. 48 20dB Bandwidth (8DPSK, CH39)

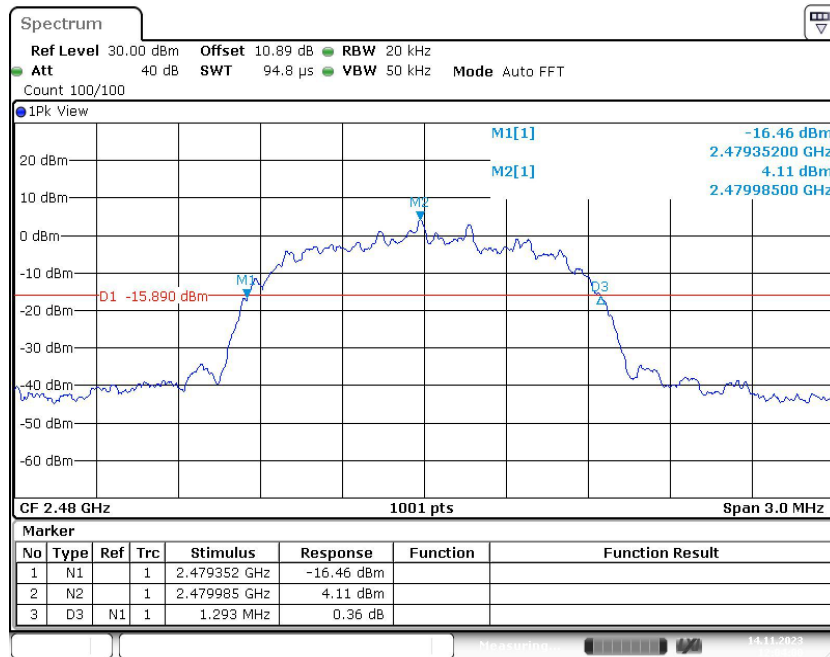


Fig. 49 20dB Bandwidth (8DPSK, CH78)



**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	Frequency (MHz)	Packet	BurstWidth (ms)		TotalHops (Num)		Result (s)	Conclusion
GFSK	2441(CH39)	DH5	Fig.50	2.87	Fig.51	120	0.344	<b>P</b>
$\pi/4$ DQPSK	2441(CH39)	2-DH5	Fig.52	2.87	Fig.53	100	0.287	<b>P</b>
8DPSK	2441(CH39)	3-DH5	Fig.54	2.87	Fig.55	110	0.316	<b>P</b>

**See below for test graphs.****Conclusion: Pass**

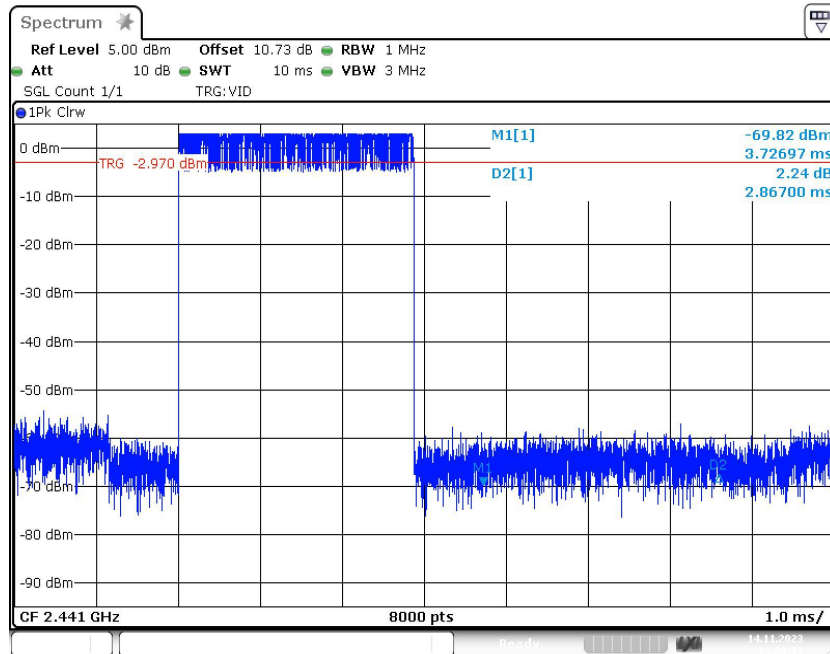


Fig. 50 BurstWidth (Dwell Time) (GFSK, CH39)

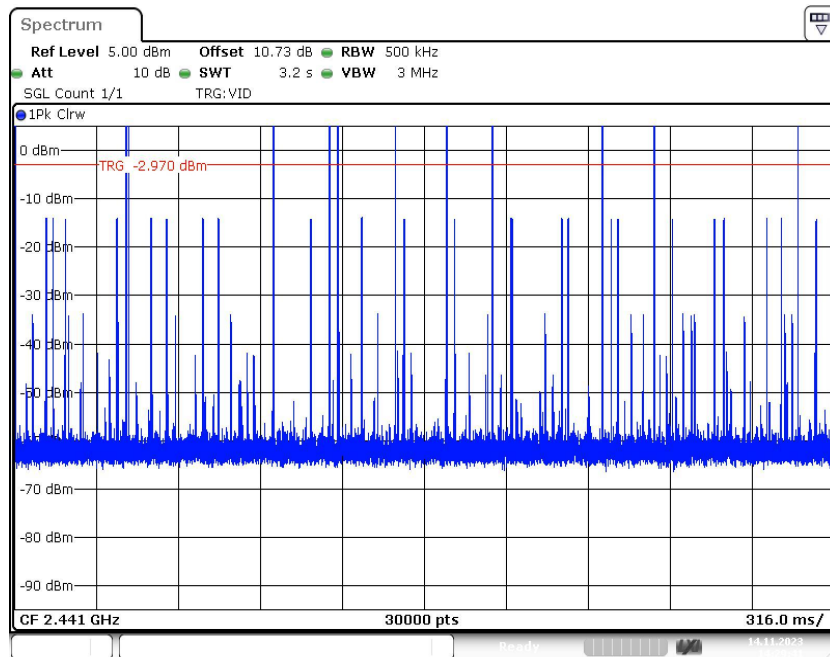


Fig. 51 Number of Burst in Observation Period (Dwell Time) (GFSK, CH39)

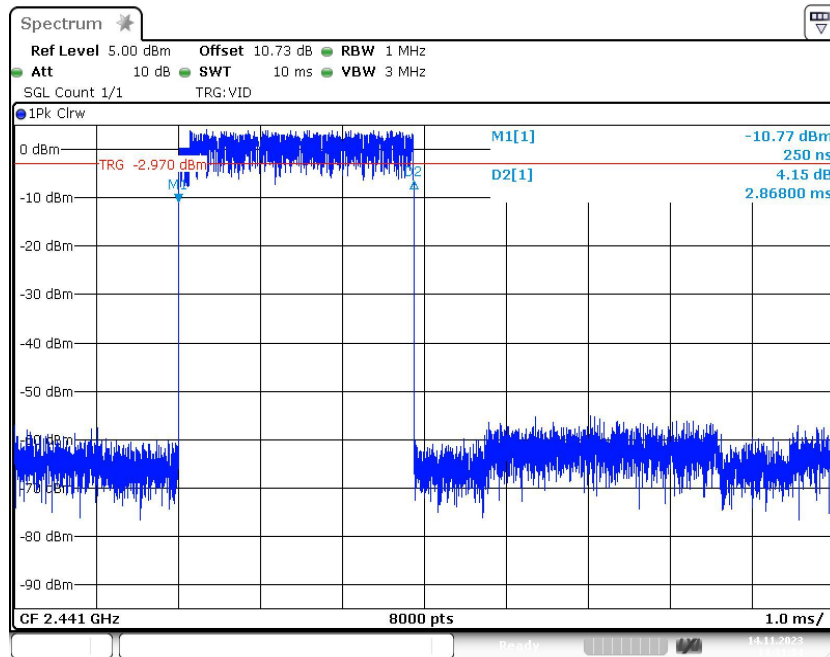


Fig. 52 BurstWidth (Dwell Time) ( $\pi/4$  DQPSK, CH39)

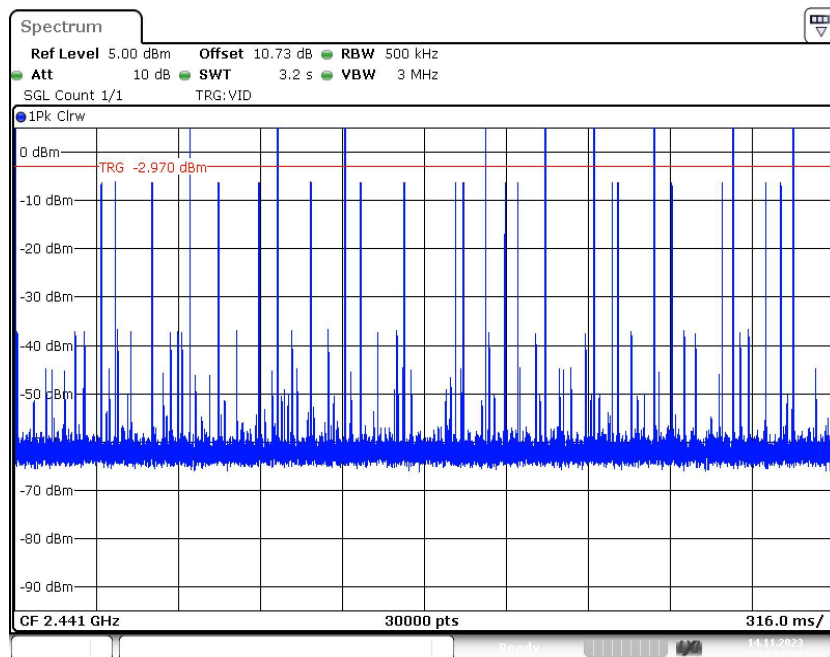


Fig. 53 Number of Burst in Observation Period (Dwell Time) ( $\pi/4$  DQPSK, CH39)

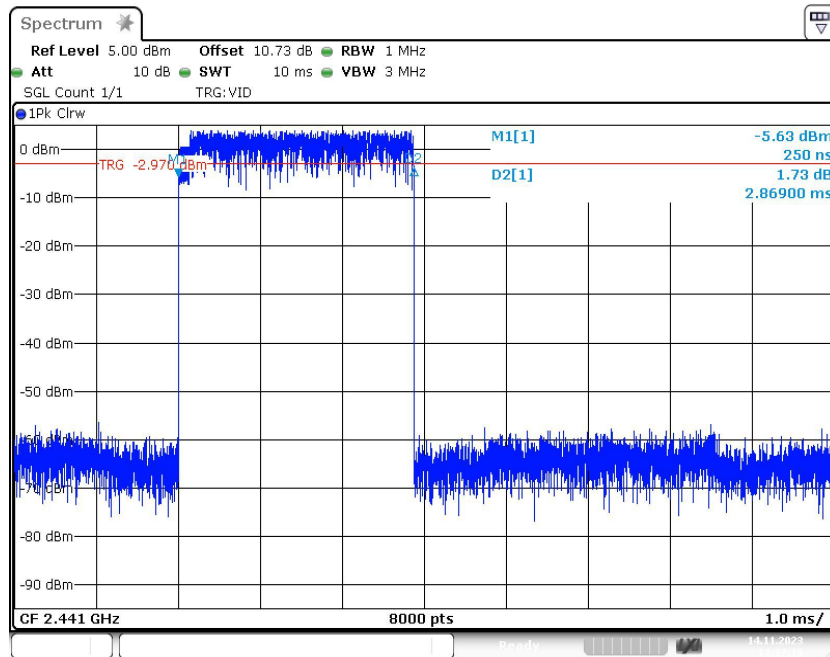


Fig. 54 BurstWidth (Dwell Time) (8DPSK, CH39)

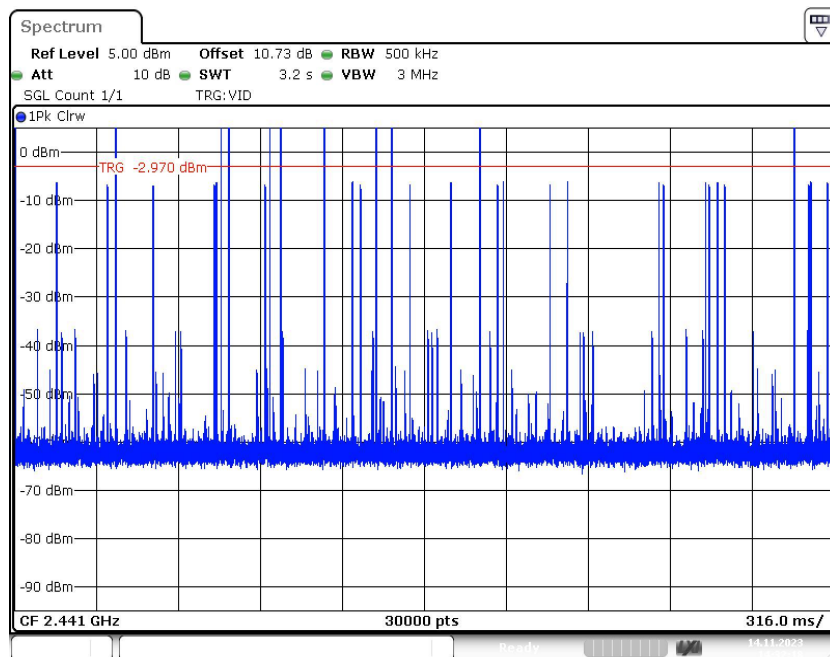


Fig. 55 Number of Burst in Observation Period (Dwell Time) (8DPSK, CH39)



### A.7 Number of Hopping Channels

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

**Measurement Limit:**

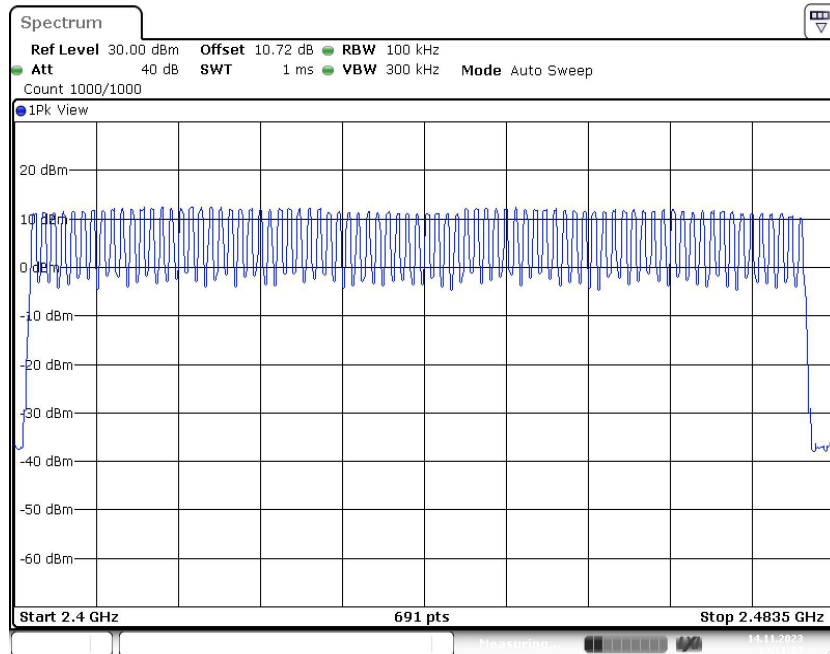
Standard	Limit (Num)
FCC 47 CFR Part 15.247(a)	At least 15 non-overlapping channels

**Measurement Results:**

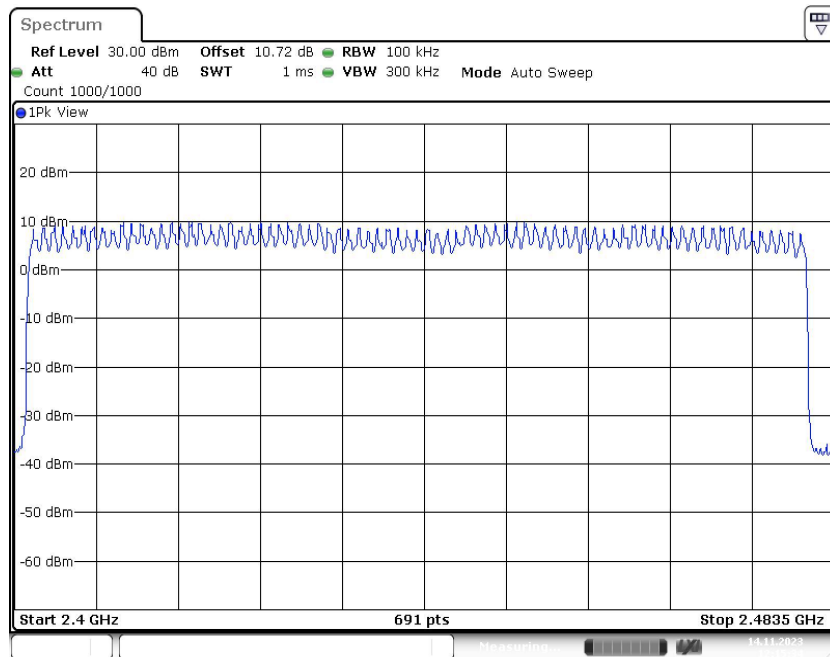
Mode	Packet	Number of Hopping Channels	Test results (Num)	Conclusion
GFSK	DH5	Fig.56	79	<b>P</b>
$\pi/4$ DQPSK	2-DH5	Fig.57	79	<b>P</b>
8DPSK	3-DH5	Fig.58	79	<b>P</b>

**See below for test graphs.**

**Conclusion: Pass**



**Fig. 56 Number of Hopping Channels (GFSK, Hopping)**



**Fig. 57 Number of Hopping Channels ( $\pi/4$  DQPSK, Hopping)**

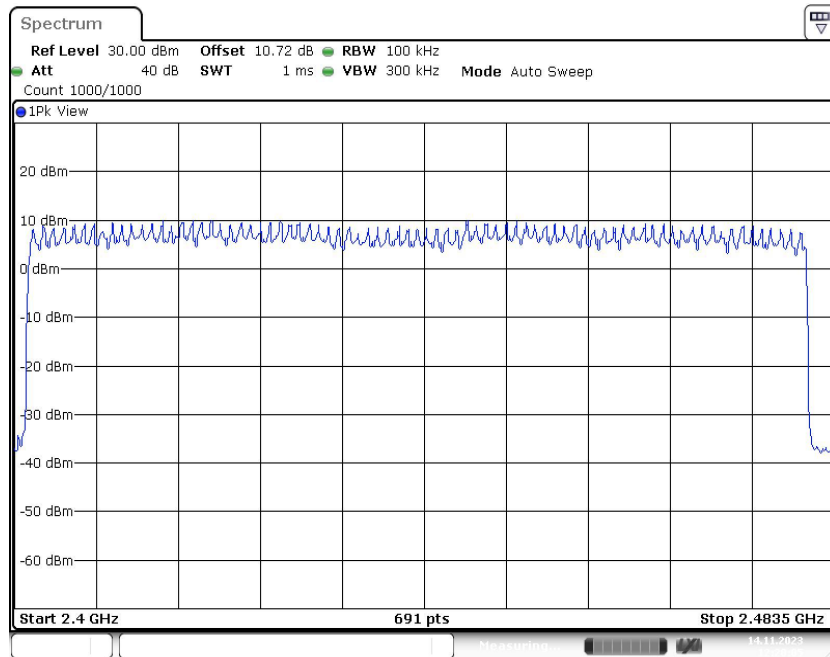


Fig. 58 Number of Hopping Channels (8DPSK, Hopping)

**A.8 Carrier Frequency Separation****Method of Measurement: See ANSI C63.10-clause 7.8.2.****Measurement Limit:**

Standard	Limit (kHz)
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	Frequency (MHz)	Packet	Separation of hopping channels	Test result (kHz)	Conclusion
GFSK	2441(CH39)	DH5	Fig.59	1000.00	<b>P</b>
$\pi/4$ DQPSK	2441(CH39)	2-DH5	Fig.60	1003.00	<b>P</b>
8DPSK	2441(CH39)	3-DH5	Fig.61	1003.00	<b>P</b>

**See below for test graphs.****Conclusion: Pass**



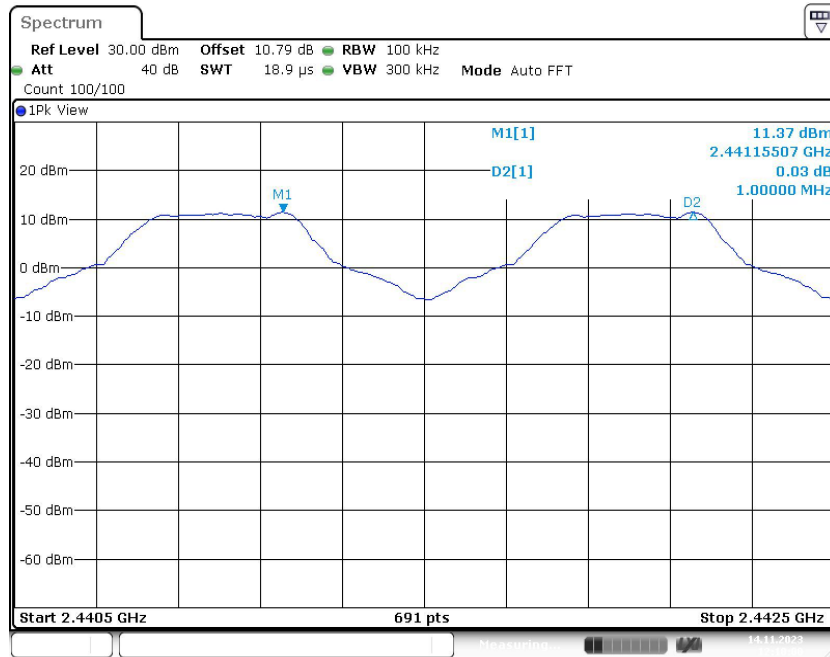


Fig. 59 Carrier Frequency Separation (GFSK, CH39)

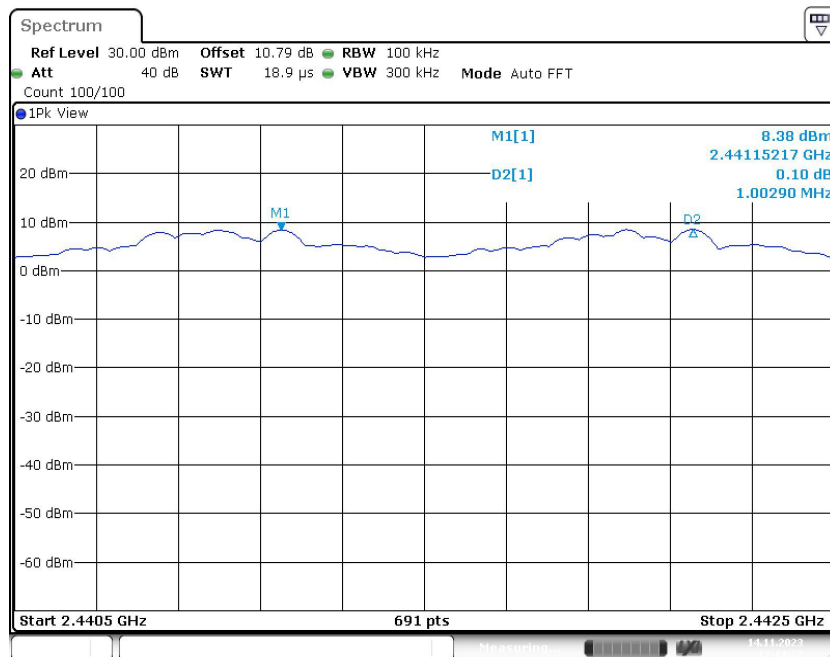


Fig. 60 Carrier Frequency Separation ( $\pi/4$  DQPSK, CH39)

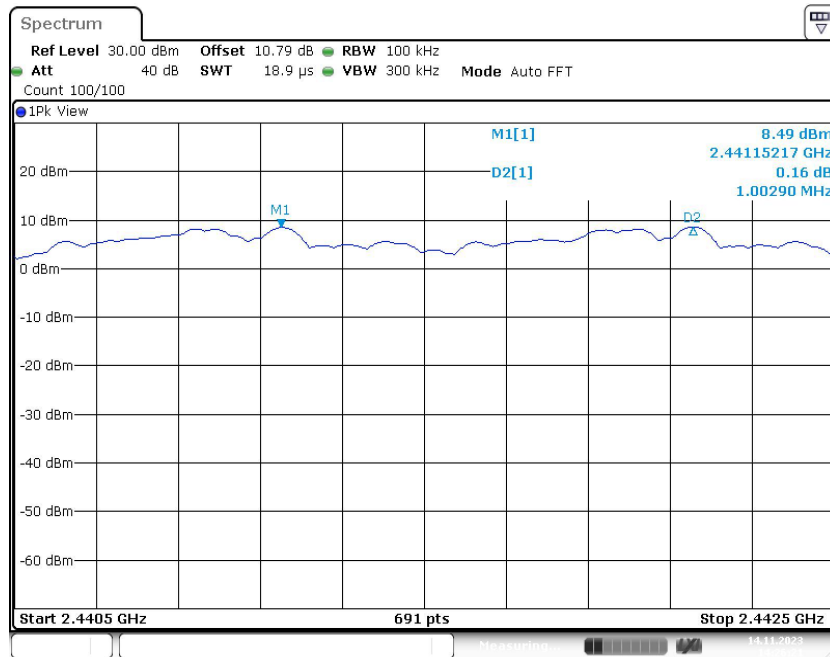


Fig. 61 Carrier Frequency Separation (8DPSK, CH39)



## 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:**

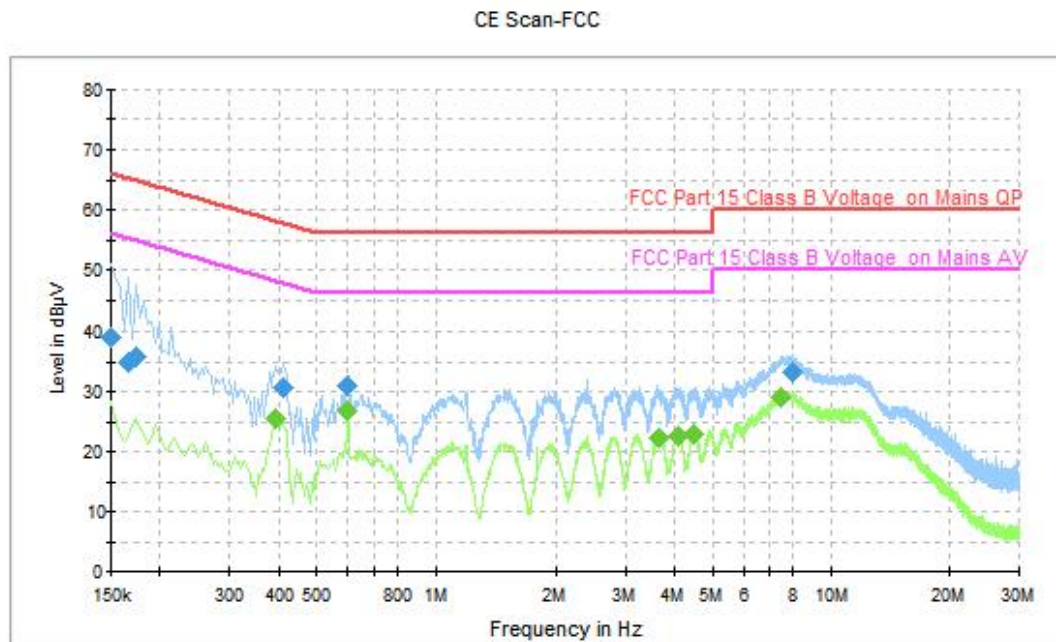
Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Average-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
			Traffic	Idle	
0.15 to 0.5	66 to 56	56 to 46	Fig.62	Fig.63	<b>P</b>
0.5 to 5	56	46			
5 to 30	60	50			

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. 62 AC Power line Conducted Emission (Traffic)**

**Measurement Results: Quasi Peak**

Frequency (MHz)	Quasi Peak (dBµV)	PE	Line	Corr. (dB)	Limit (dBµV)	Margin (dB)
0.150000	39.1	GND	L1	9.8	26.9	66.0
0.166000	34.8	GND	L1	9.8	30.4	65.2
0.174000	35.8	GND	L1	9.8	29.0	64.8
0.410000	30.6	GND	N	9.8	27.0	57.6
0.598000	30.9	GND	L1	9.8	25.1	56.0
7.954000	33.2	GND	N	9.7	26.8	60.0

**Measurement Results: Average**

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Limit (dBµV)	Margin (dB)
0.394000	25.5	GND	L1	9.8	22.5	48.0
0.598000	26.9	GND	L1	9.8	19.1	46.0
3.634000	22.1	GND	L1	9.8	23.9	46.0
4.078000	22.7	GND	L1	9.8	23.3	46.0
4.478000	22.8	GND	L1	9.8	23.2	46.0
7.490000	29.1	GND	L1	9.8	20.9	50.0

CE Scan-FCC

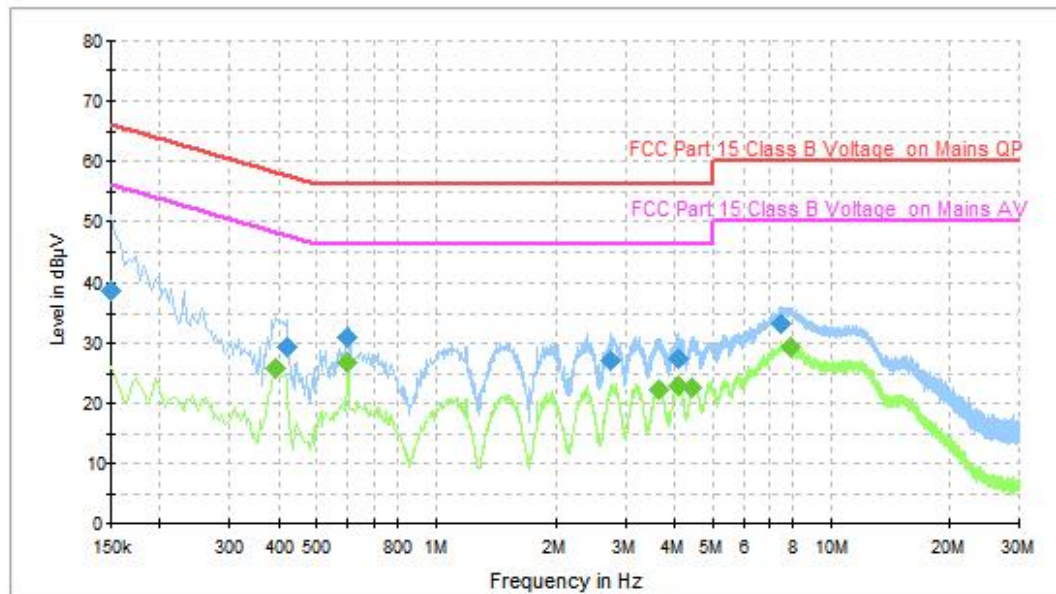


Fig. 63 AC Power line Conducted Emission (Idle)

**Measurement Results: Quasi Peak**

Frequency (MHz)	Quasi Peak (dBµV)	PE	Line	Corr. (dB)	Limit (dBµV)	Margin (dB)
0.150000	38.8	GND	N	9.8	27.2	66.0
0.418000	29.3	GND	N	9.8	28.2	57.5
0.598000	30.9	GND	L1	9.8	25.1	56.0
2.746000	27.1	GND	L1	9.8	28.9	56.0
4.086000	27.5	GND	L1	9.8	28.5	56.0
7.466000	33.2	GND	N	9.8	26.8	60.0

**Measurement Results: Average**

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Limit (dBµV)	Margin (dB)
0.394000	25.7	GND	L1	9.8	22.3	48.0
0.598000	26.9	GND	L1	9.8	19.1	46.0
3.646000	22.4	GND	L1	9.8	23.6	46.0
4.078000	23.0	GND	L1	9.8	23.0	46.0
4.450000	22.5	GND	L1	9.8	23.5	46.0
7.846000	29.4	GND	N	9.7	20.6	50.0

\*\*\*END OF REPORT\*\*\*