



**SUDOP PRAHA A.S., OLŠANSKÁ 1A, 130 80 PRAHA 3
208 STŘEDISKO ELEKTROTECHNIKY, TRAKCE, SDĚLOVACÍ A ZABEZPEČOVACÍ
TECHNIKY**

ETCS PRAHA UHŘÍNĚVES – PRAHA HL. N. (MIMO)

VÝSLEDKY MĚŘENÍ RÁDIOVÉHO SIGNÁLU GSM-R

OBSAH

1	Výsledky měření rádiového signálu GSM-R	3
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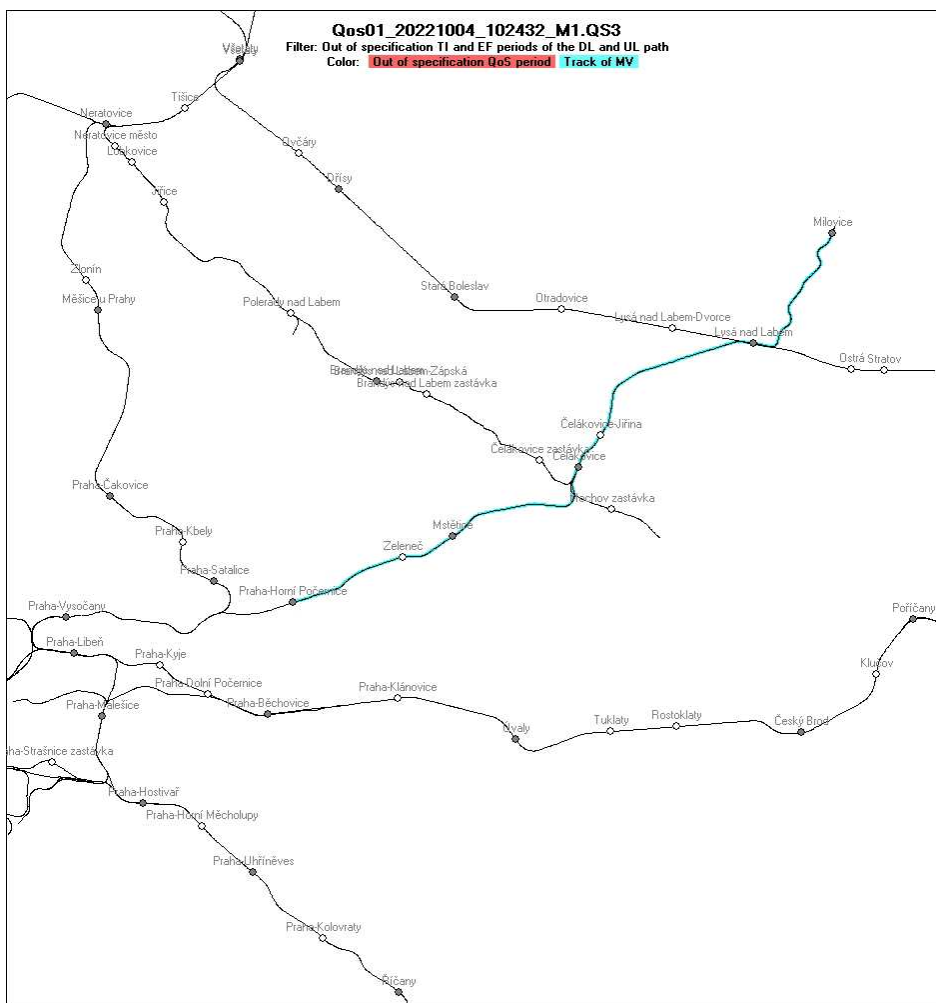
1 VÝSLEDKY MĚŘENÍ RÁDIOVÉHO SIGNÁLU GSM-R

V rámci stavby bylo před samotnou realizací provedeno předrealizační měření rádiového signálu GSM-R, jehož výsledky jsou uvedeny níže.

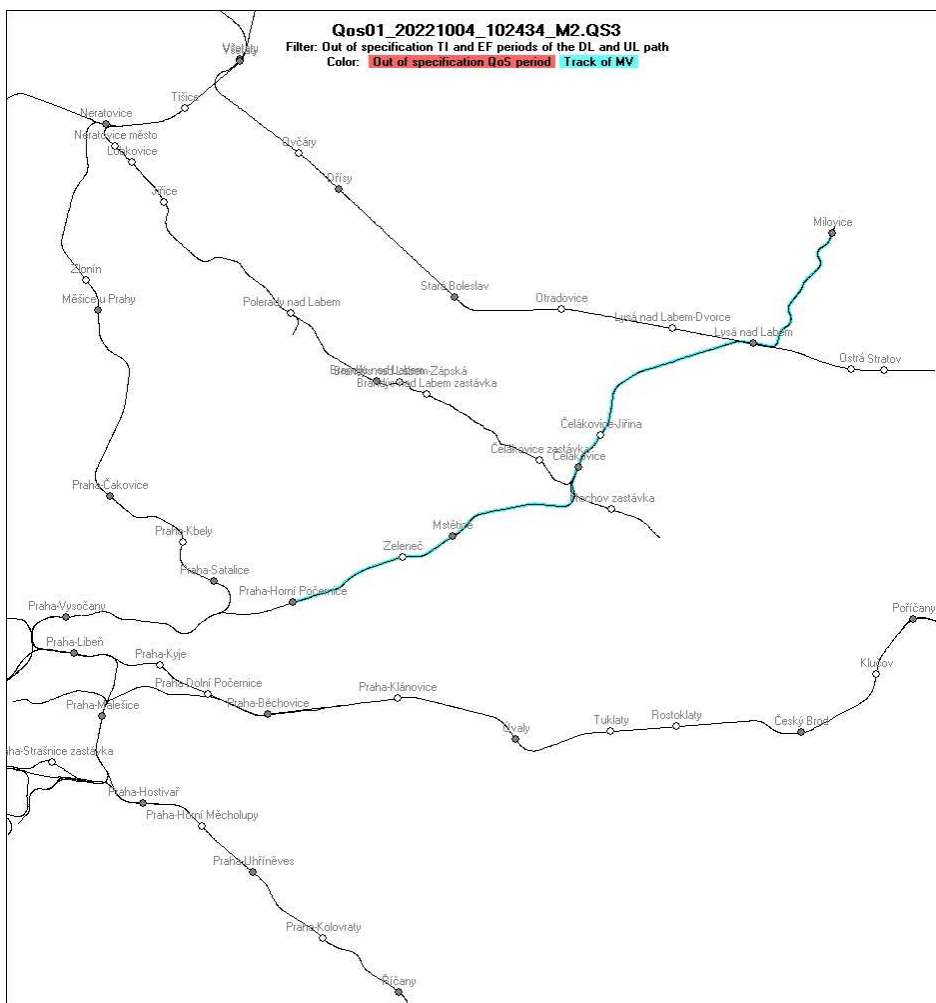
Na základě tohoto měření bude provedena optimalizace a úprava rádiového systému GSM-R. Optimalizace a úpravy rádiového systému GSM-R jsou navrženy v PS 02-03-11 a PS 02-03-12.



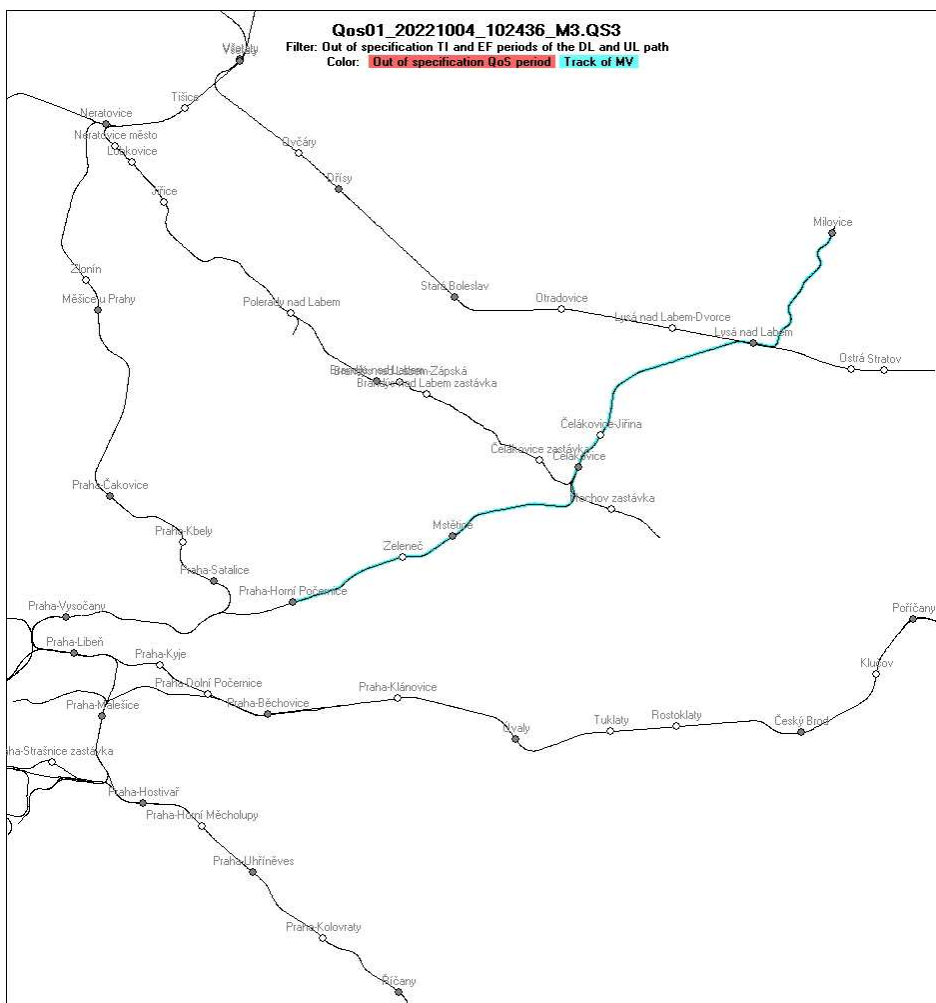
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		26846	(26826)	(20)
DL Interference period [sec]	(0,290) s	9	0,160 s	0,559 s
TI < 0,8 sec [%] required 95 %	100 %	9		
TI < 1 sec [%] required 99 %	100 %	9		
DL Recovery period [sec]	(262,912) s	10	56,446 s	869,894 s
EF > 20 sec [%] required 95 %	100 %	10		
EF > 7 sec [%] required 99 %	100 %	10		
UL pakets [#]		26845	(26823)	(22)
UL Interference period [sec]	(0,338) s	9	0,294 s	0,393 s
TI < 0,8 sec [%] required 95 %	100 %	9		
TI < 1 sec [%] required 99 %	100 %	9		
UL Recovery period [sec]	(262,849) s	10	56,269 s	870,511 s
EF > 20 sec [%] required 95 %	100 %	10		
EF > 7 sec [%] required 99 %	100 %	10		
Connection loss rate [1/h]	0,000	0,731 h		(0)



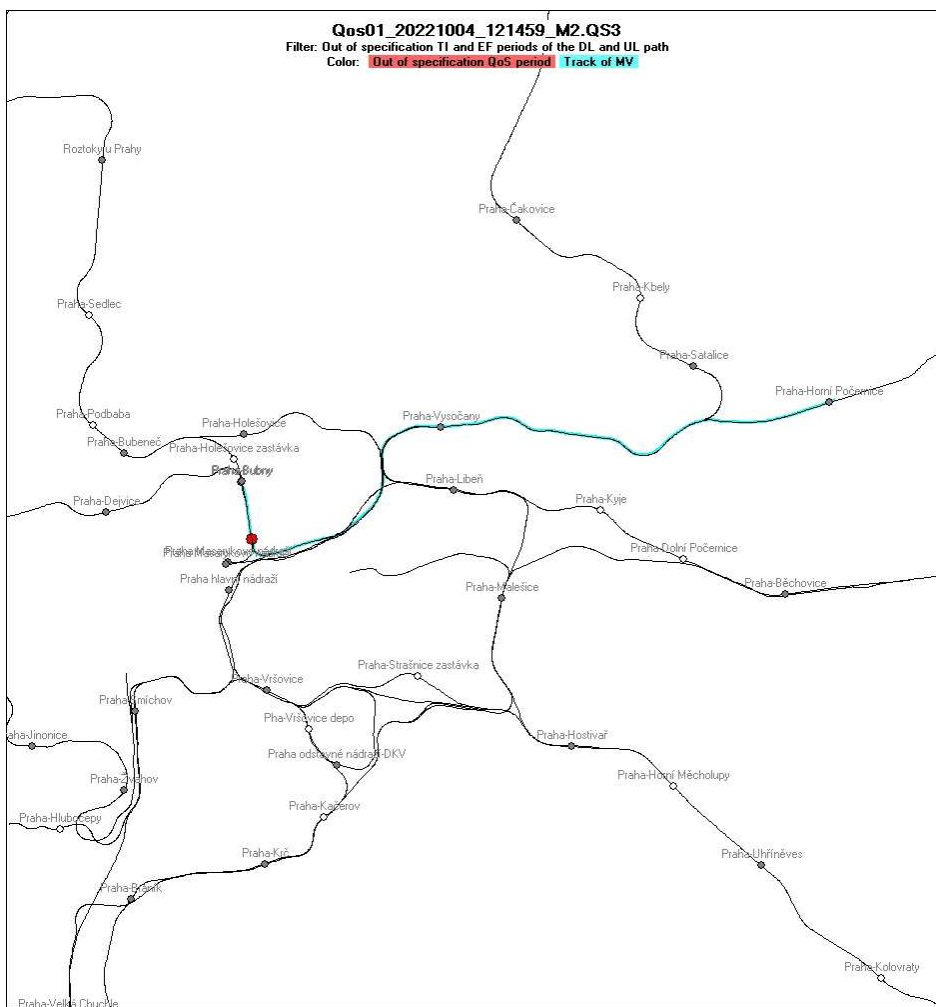
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		26784	(26764)	(20)
DL Interference period [sec]	(0,333) s	9	0,176 s	0,640 s
TI < 0,8 sec [%] required 95 %	100 %	9		
TI < 1 sec [%] required 99 %	100 %	9		
DL Recovery period [sec]	(262,269) s	10	52,606 s	868,134 s
EF > 20 sec [%] required 95 %	100 %	10		
EF > 7 sec [%] required 99 %	100 %	10		
UL pakets [#]		26783	(26763)	(20)
UL Interference period [sec]	(0,316) s	9	0,196 s	0,393 s
TI < 0,8 sec [%] required 95 %	100 %	9		
TI < 1 sec [%] required 99 %	100 %	9		
UL Recovery period [sec]	(262,265) s	10	52,545 s	868,857 s
EF > 20 sec [%] required 95 %	100 %	10		
EF > 7 sec [%] required 99 %	100 %	10		
Connection loss rate [1/h]	0,000	0,729 h		(0)



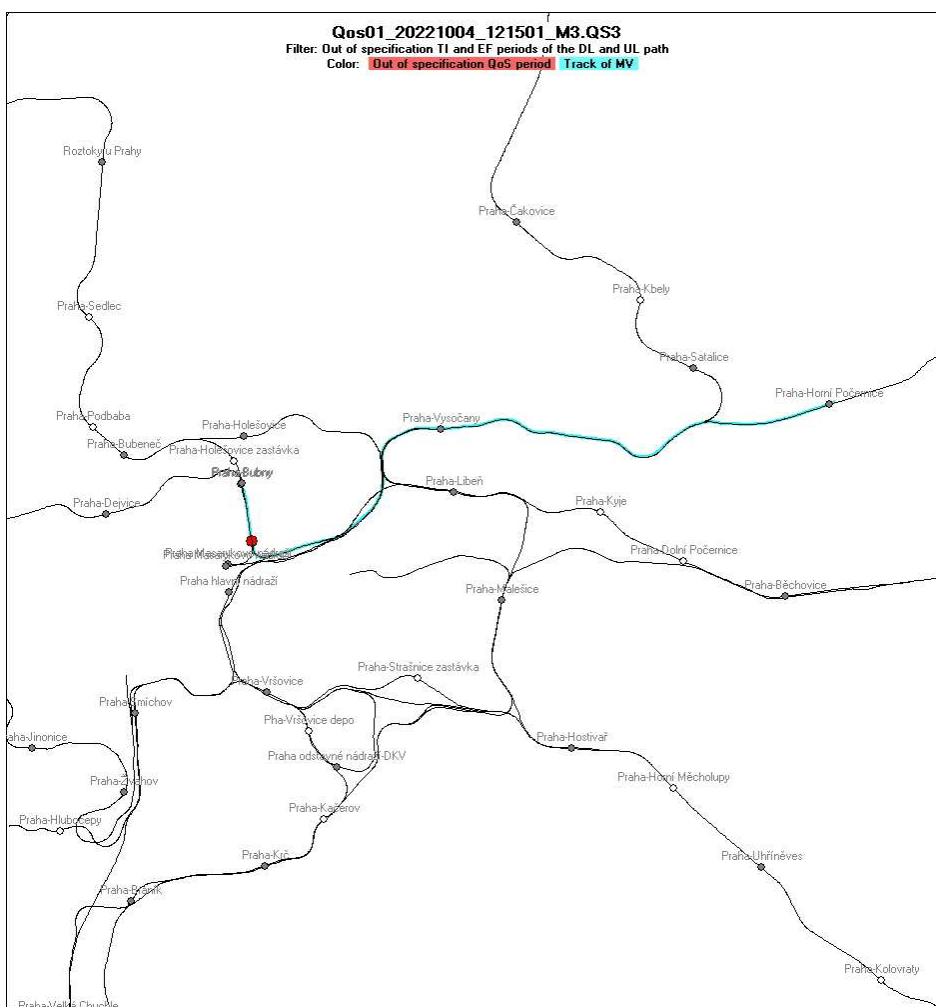
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		26781	(26757)	(24)
DL Interference period [sec]	(0,396) s	8	0,176 s	0,720 s
TI < 0,8 sec [%] required 95 %	100 %	8		
TI < 1 sec [%] required 99 %	100 %	8		
DL Recovery period [sec]	(291,367) s	9	56,238 s	864,966 s
EF > 20 sec [%] required 95 %	100 %	9		
EF > 7 sec [%] required 99 %	100 %	9		
UL pakets [#]		26780	(26756)	(24)
UL Interference period [sec]	(0,359) s	9	0,294 s	0,393 s
TI < 0,8 sec [%] required 95 %	100 %	9		
TI < 1 sec [%] required 99 %	100 %	9		
UL Recovery period [sec]	(262,204) s	10	56,272 s	865,648 s
EF > 20 sec [%] required 95 %	100 %	10		
EF > 7 sec [%] required 99 %	100 %	10		
Connection loss rate [1/h]	0,000	0,729 h		(0)



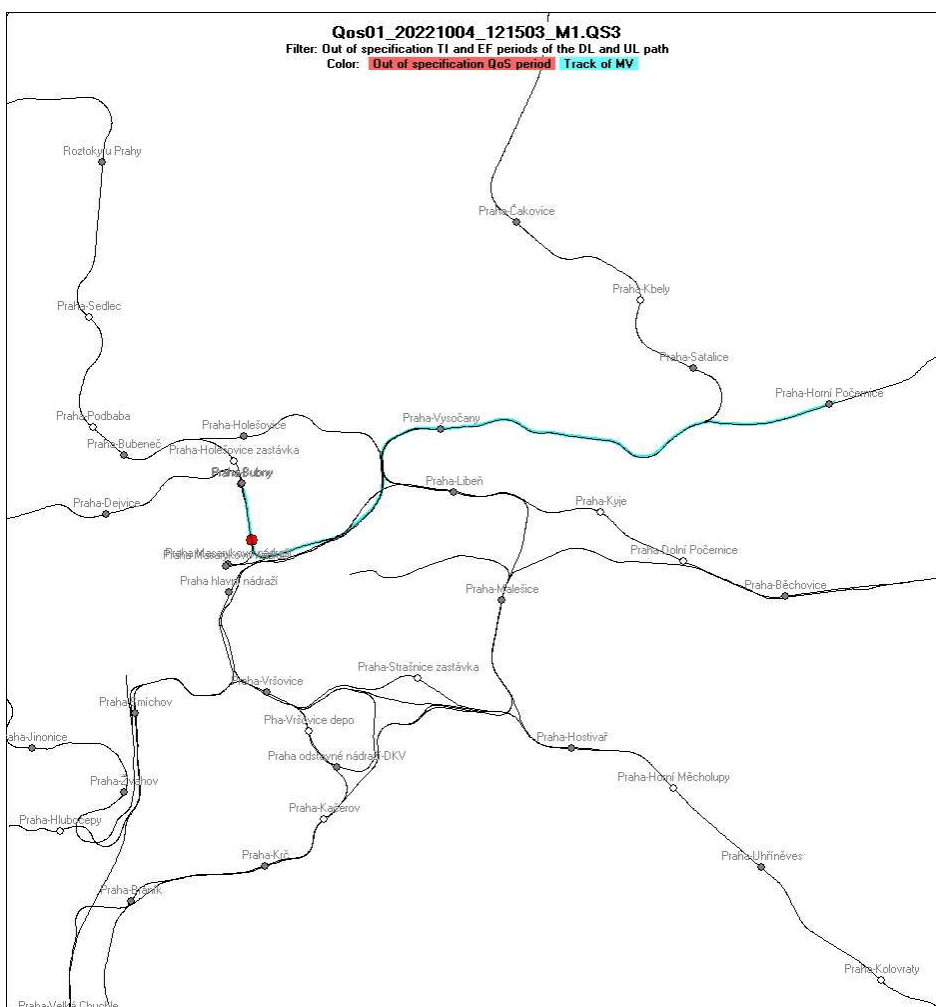
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		28270	(28260)	(10)
DL Interference period [sec]	(0,301) s	6	0,192 s	0,608 s
TI < 0,8 sec [%] required 95 %	100 %	6		
TI < 1 sec [%] required 99 %	100 %	6		
DL Recovery period [sec]	(395,627) s	7	79,790 s	1850,824 s
EF > 20 sec [%] required 95 %	100 %	7		
EF > 7 sec [%] required 99 %	100 %	7		
UL pakets [#]		28269	(28247)	(22)
UL Interference period [sec]	(0,457) s	6	0,196 s	1,078 s
TI < 0,8 sec [%] required 95 %	83 %	5		
TI < 1 sec [%] required 99 %	83 %	5		
UL Recovery period [sec]	(395,465) s	7	80,087 s	1851,614 s
EF > 20 sec [%] required 95 %	100 %	7		
EF > 7 sec [%] required 99 %	100 %	7		
Connection loss rate [1/h]	0,000	0,770 h		(0)



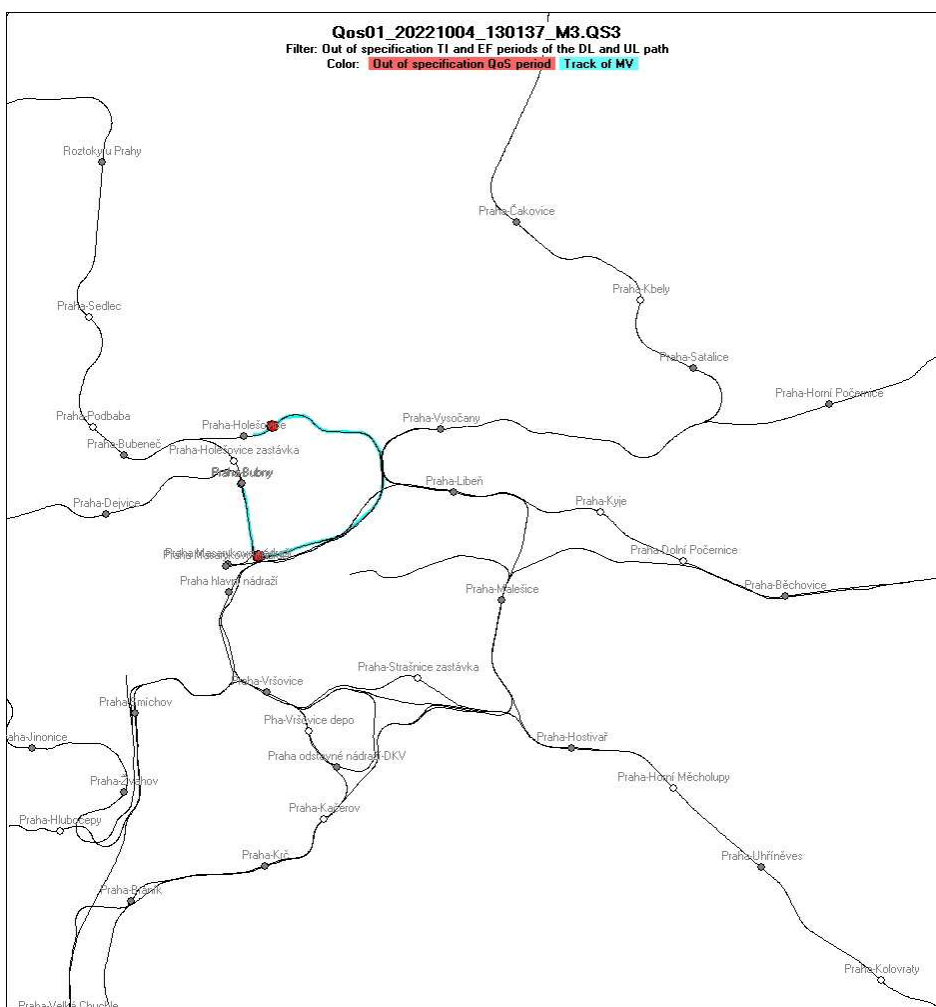
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		28268	(28259)	(9)
DL Interference period [sec]	(0,301) s	6	0,160 s	0,512 s
TI < 0,8 sec [%] required 95 %	100 %	6		
TI < 1 sec [%] required 99 %	100 %	6		
DL Recovery period [sec]	(395,599) s	7	81,262 s	1849,032 s
EF > 20 sec [%] required 95 %	100 %	7		
EF > 7 sec [%] required 99 %	100 %	7		
UL packets [#]		28267	(28246)	(21)
UL Interference period [sec]	(0,441) s	6	0,294 s	0,980 s
TI < 0,8 sec [%] required 95 %	83 %	5		
TI < 1 sec [%] required 99 %	100 %	6		
UL Recovery period [sec]	(395,452) s	7	81,362 s	1849,852 s
EF > 20 sec [%] required 95 %	100 %	7		
EF > 7 sec [%] required 99 %	100 %	7		
Connection loss rate [1/h]	0,000	0,770 h		(0)



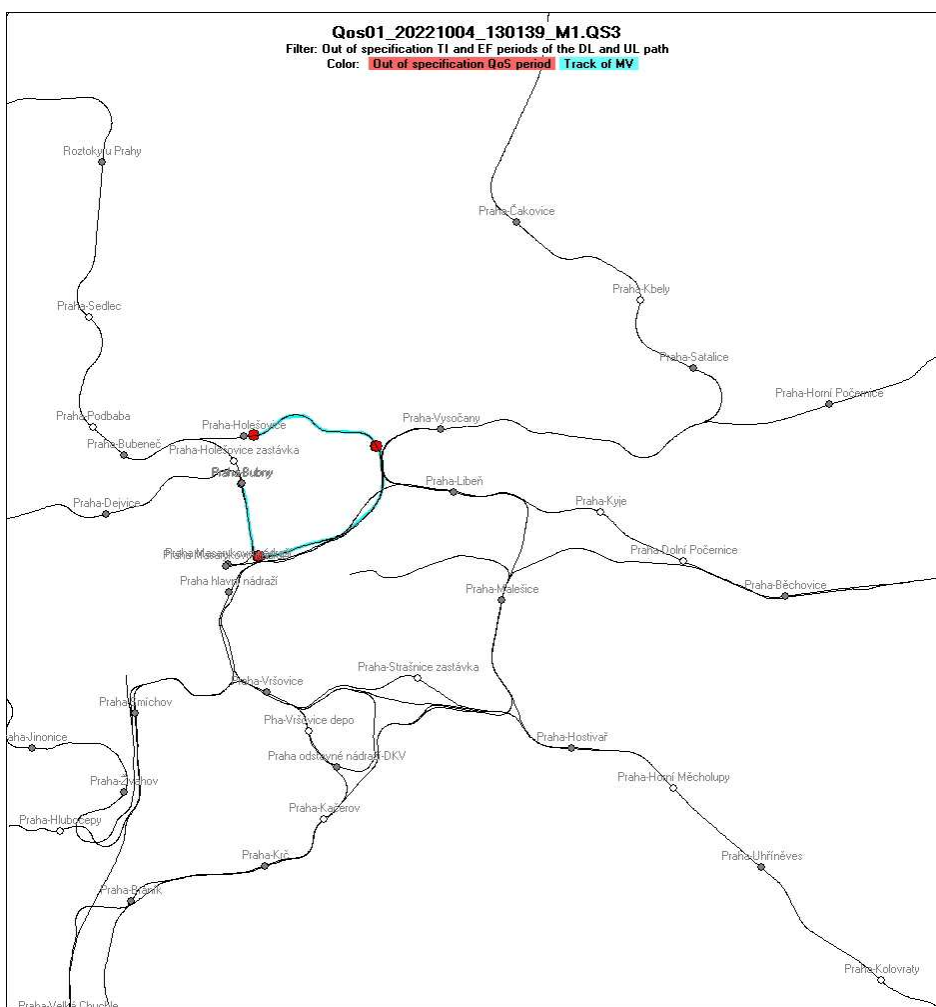
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		28272	(28258)	(14)
DL Interference period [sec]	(0,371) s	6	0,272 s	0,672 s
TI < 0,8 sec [%] required 95 %	100 %	6		
TI < 1 sec [%] required 99 %	100 %	6		
DL Recovery period [sec]	(395,572) s	7	81,006 s	1847,080 s
EF > 20 sec [%] required 95 %	100 %	7		
EF > 7 sec [%] required 99 %	100 %	7		
UL packets [#]		28271	(28250)	(21)
UL Interference period [sec]	(0,441) s	6	0,294 s	0,980 s
TI < 0,8 sec [%] required 95 %	83 %	5		
TI < 1 sec [%] required 99 %	100 %	6		
UL Recovery period [sec]	(395,484) s	7	81,357 s	1847,779 s
EF > 20 sec [%] required 95 %	100 %	7		
EF > 7 sec [%] required 99 %	100 %	7		
Connection loss rate [1/h]	0,000	0,770 h		(0)



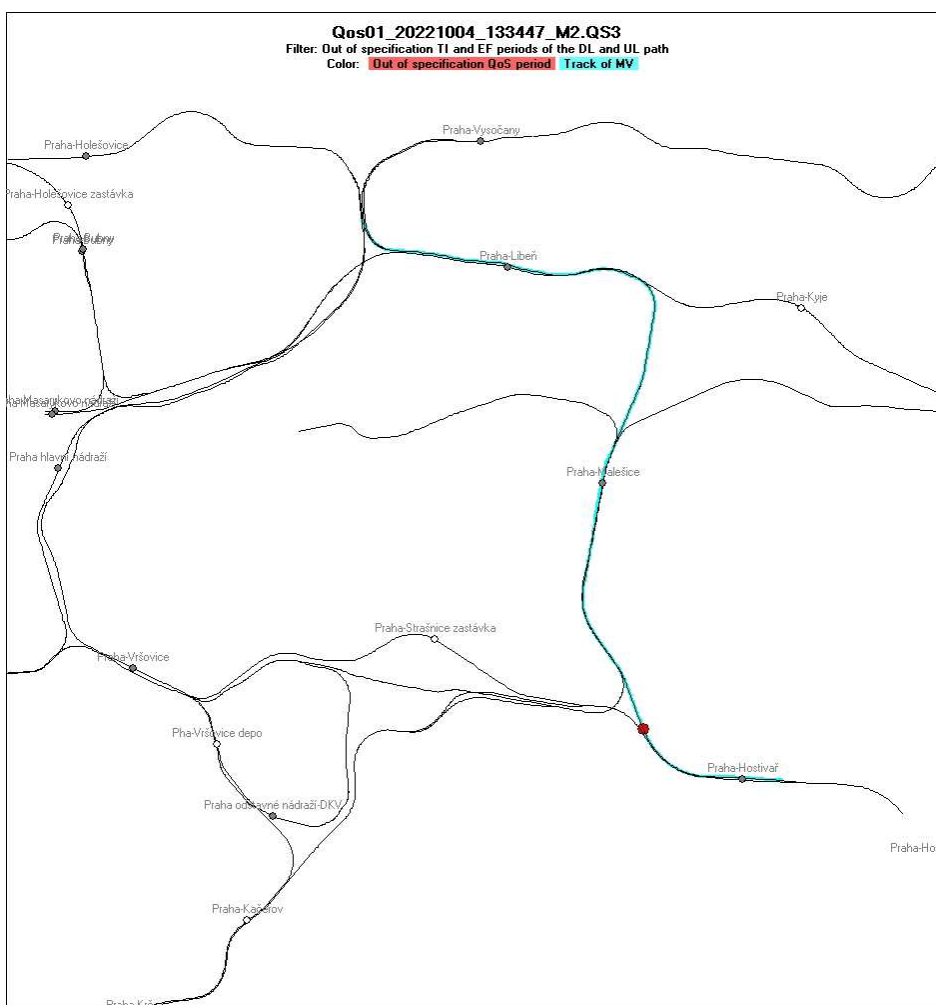
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		20064	(20040)	(24)
DL Interference period [sec]	(0,380) s	11	0,192 s	0,640 s
TI < 0,8 sec [%] required 95 %	100 %	11		
TI < 1 sec [%] required 99 %	100 %	11		
DL Recovery period [sec]	(163,571) s	12	1,856 s	920,420 s
EF > 20 sec [%] required 95 %	83 %	10		
EF > 7 sec [%] required 99 %	92 %	11		
UL packets [#]		20063	(20033)	(30)
UL Interference period [sec]	(0,392) s	10	0,295 s	0,490 s
TI < 0,8 sec [%] required 95 %	100 %	10		
TI < 1 sec [%] required 99 %	100 %	10		
UL Recovery period [sec]	(178,447) s	11	1,765 s	966,359 s
EF > 20 sec [%] required 95 %	82 %	9		
EF > 7 sec [%] required 99 %	91 %	10		
Connection loss rate [1/h]	0,000	0,546 h		(0)



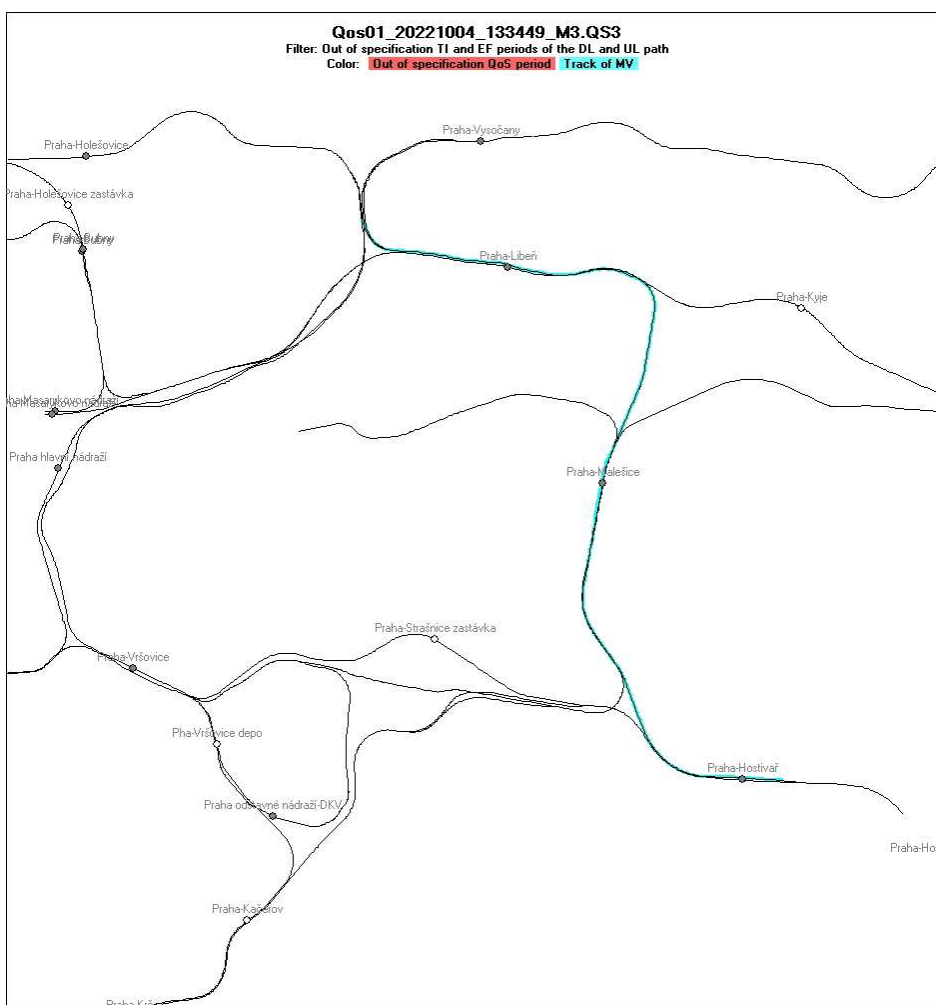
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		20067	(20042)	(25)
DL Interference period [sec]	(0,321) s	13	0,170 s	0,656 s
TI < 0,8 sec [%] required 95 %	100 %	13		
TI < 1 sec [%] required 99 %	100 %	13		
DL Recovery period [sec]	(140,210) s	14	0,384 s	963,059 s
EF > 20 sec [%] required 95 %	71 %	10		
EF > 7 sec [%] required 99 %	79 %	11		
UL packets [#]		20066	(20026)	(40)
UL Interference period [sec]	(0,400) s	13	0,196 s	0,490 s
TI < 0,8 sec [%] required 95 %	100 %	13		
TI < 1 sec [%] required 99 %	100 %	13		
UL Recovery period [sec]	(140,123) s	14	1,765 s	918,709 s
EF > 20 sec [%] required 95 %	79 %	11		
EF > 7 sec [%] required 99 %	86 %	12		
Connection loss rate [1/h]	0,000	0,546 h		(0)



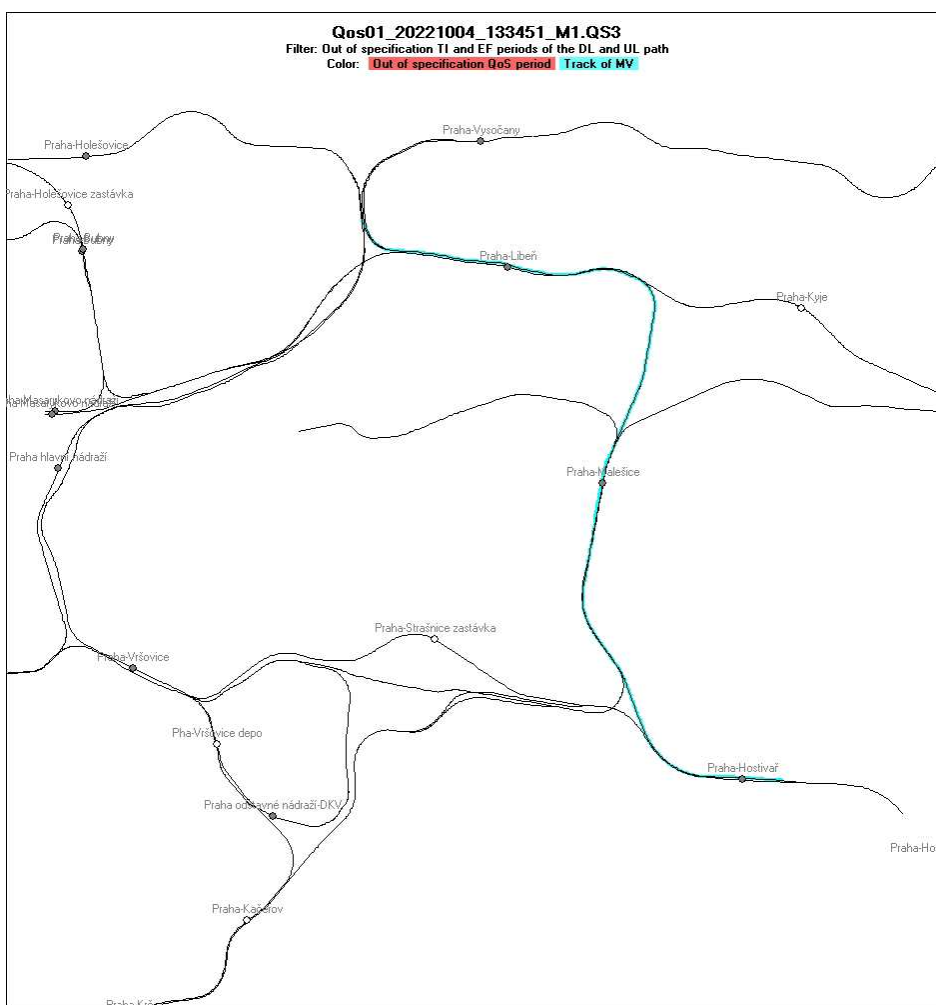
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		21352	(21336)	(16)
DL Interference period [sec]	(0,300) s	8	0,176 s	0,720 s
TI < 0,8 sec [%] required 95 %	100 %	8		
TI < 1 sec [%] required 99 %	100 %	8		
DL Recovery period [sec]	(232,382) s	9	8,895 s	1001,921 s
EF > 20 sec [%] required 95 %	89 %	8		
EF > 7 sec [%] required 99 %	100 %	9		
UL packets [#]		21351	(21326)	(25)
UL Interference period [sec]	(0,370) s	9	0,294 s	0,588 s
TI < 0,8 sec [%] required 95 %	100 %	9		
TI < 1 sec [%] required 99 %	100 %	9		
UL Recovery period [sec]	(209,031) s	10	8,924 s	1002,891 s
EF > 20 sec [%] required 95 %	90 %	9		
EF > 7 sec [%] required 99 %	100 %	10		
Connection loss rate [1/h]	0,000	0,582 h		(0)



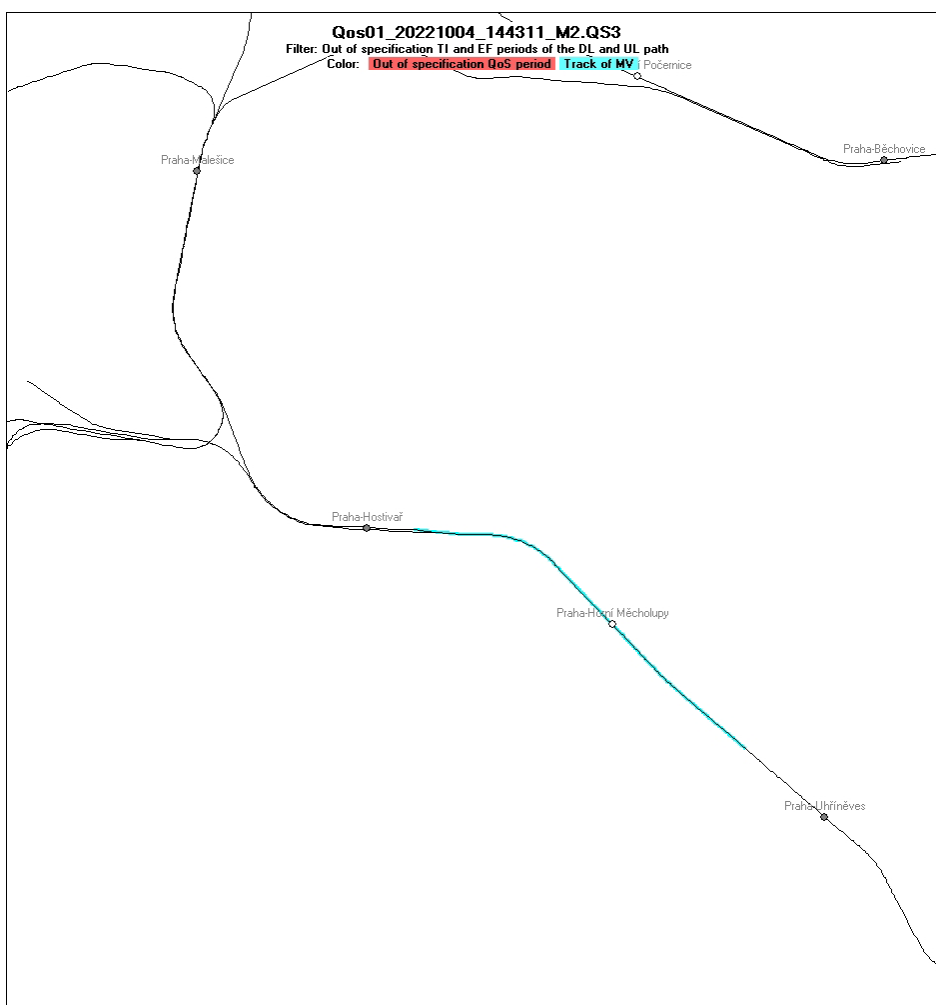
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		21350	(21329)	(21)
DL Interference period [sec]	(0,336) s	8	0,192 s	0,784 s
TI < 0,8 sec [%] required 95 %	100 %	8		
TI < 1 sec [%] required 99 %	100 %	8		
DL Recovery period [sec]	(232,253) s	9	28,495 s	1001,713 s
EF > 20 sec [%] required 95 %	100 %	9		
EF > 7 sec [%] required 99 %	100 %	9		
UL packets [#]		21349	(21329)	(20)
UL Interference period [sec]	(0,343) s	8	0,196 s	0,490 s
TI < 0,8 sec [%] required 95 %	100 %	8		
TI < 1 sec [%] required 99 %	100 %	8		
UL Recovery period [sec]	(232,225) s	9	28,429 s	1002,465 s
EF > 20 sec [%] required 95 %	100 %	9		
EF > 7 sec [%] required 99 %	100 %	9		
Connection loss rate [1/h]	0,000	0,581 h		(0)



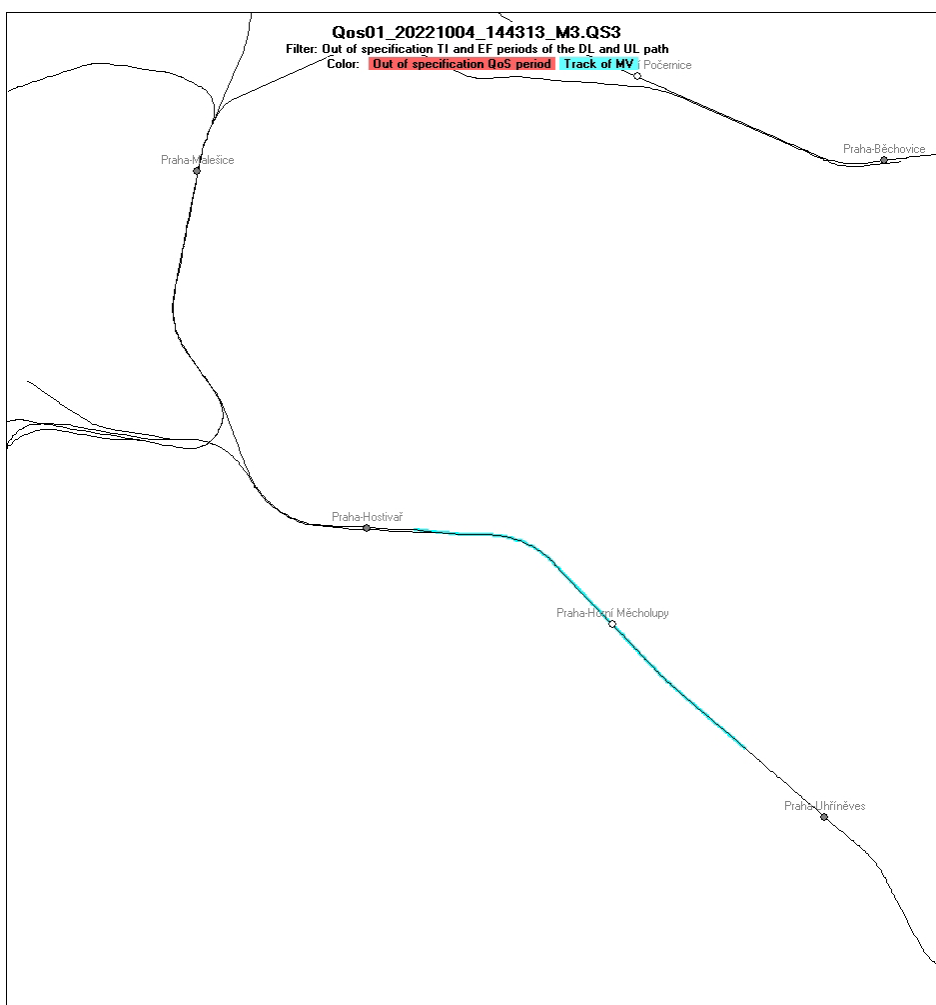
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		21352	(21337)	(15)
DL Interference period [sec]	(0,327) s	6	0,256 s	0,640 s
TI < 0,8 sec [%] required 95 %	100 %	6		
TI < 1 sec [%] required 99 %	100 %	6		
DL Recovery period [sec]	(298,720) s	7	30,735 s	1001,281 s
EF > 20 sec [%] required 95 %	100 %	7		
EF > 7 sec [%] required 99 %	100 %	7		
UL packets [#]		21351	(21337)	(14)
UL Interference period [sec]	(0,327) s	6	0,294 s	0,392 s
TI < 0,8 sec [%] required 95 %	100 %	6		
TI < 1 sec [%] required 99 %	100 %	6		
UL Recovery period [sec]	(298,692) s	7	30,583 s	1001,803 s
EF > 20 sec [%] required 95 %	100 %	7		
EF > 7 sec [%] required 99 %	100 %	7		
Connection loss rate [1/h]	0,000	0,581 h		(0)



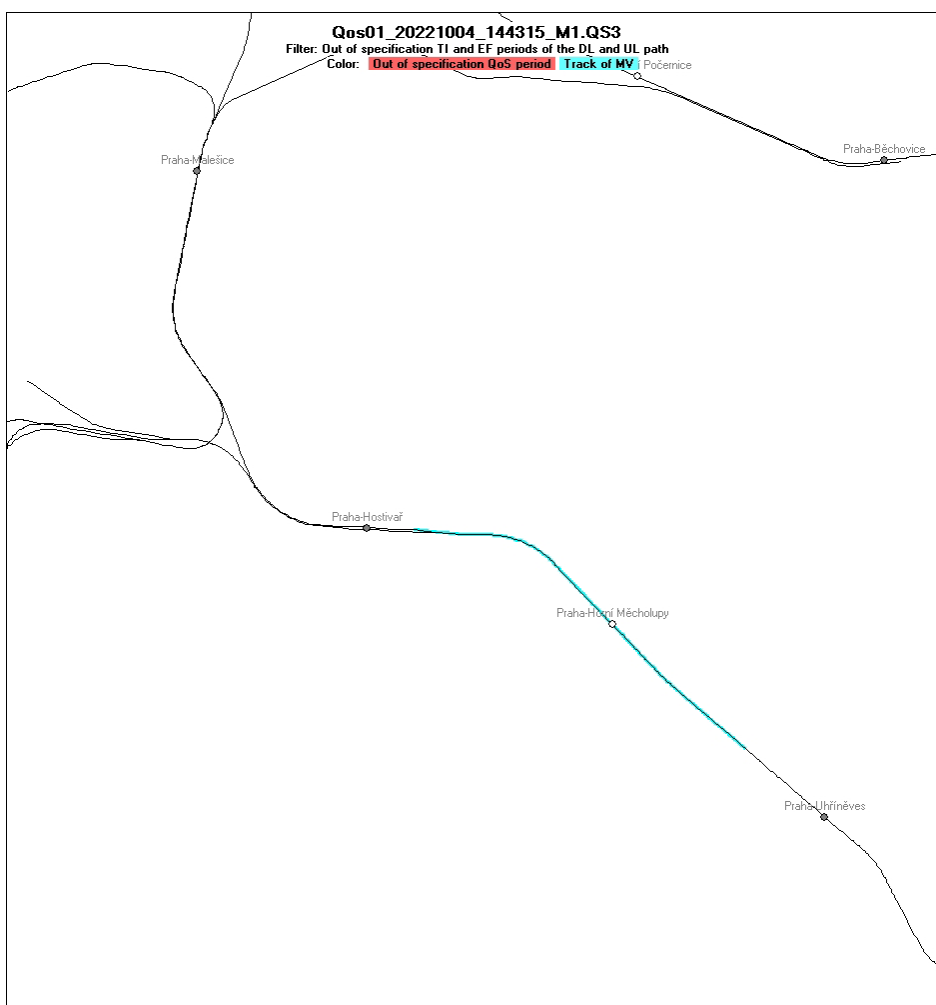
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		20012	(20011)	(1)
DL Interference period [sec]	(0,368) s	1	0,368 s	0,368 s
TI < 0,8 sec [%] required 95 %	100 %	1		
TI < 1 sec [%] required 99 %	100 %	1		
DL Recovery period [sec]	(980,722) s	2	345,573 s	1615,871 s
EF > 20 sec [%] required 95 %	100 %	2		
EF > 7 sec [%] required 99 %	100 %	2		
UL packets [#]		20011	(20009)	(2)
UL Interference period [sec]	(0,294) s	1	0,294 s	0,294 s
TI < 0,8 sec [%] required 95 %	100 %	1		
TI < 1 sec [%] required 99 %	100 %	1		
UL Recovery period [sec]	(980,661) s	2	344,386 s	1616,936 s
EF > 20 sec [%] required 95 %	100 %	2		
EF > 7 sec [%] required 99 %	100 %	2		
Connection loss rate [1/h]	0,000	0,545 h		(0)



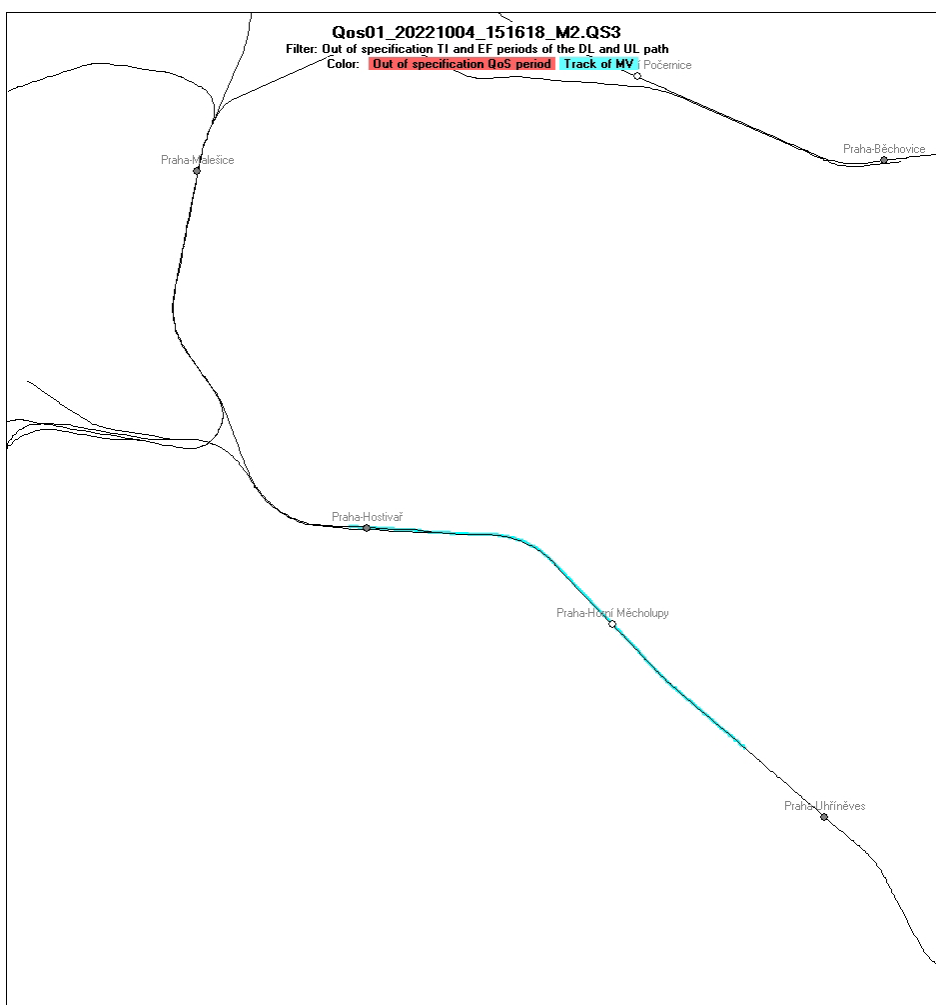
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		20006	(20005)	(1)
DL Interference period [sec]	(0,160) s	1	0,160 s	0,160 s
TI < 0,8 sec [%] required 95 %	100 %	1		
TI < 1 sec [%] required 99 %	100 %	1		
DL Recovery period [sec]	(981,146) s	2	344,757 s	1617,534 s
EF > 20 sec [%] required 95 %	100 %	2		
EF > 7 sec [%] required 99 %	100 %	2		
UL packets [#]		20005	(20004)	(1)
UL Interference period [sec]	(0,196) s	1	0,196 s	0,196 s
TI < 0,8 sec [%] required 95 %	100 %	1		
TI < 1 sec [%] required 99 %	100 %	1		
UL Recovery period [sec]	(981,030) s	2	343,424 s	1618,635 s
EF > 20 sec [%] required 95 %	100 %	2		
EF > 7 sec [%] required 99 %	100 %	2		
Connection loss rate [1/h]	0,000	0,545 h		(0)



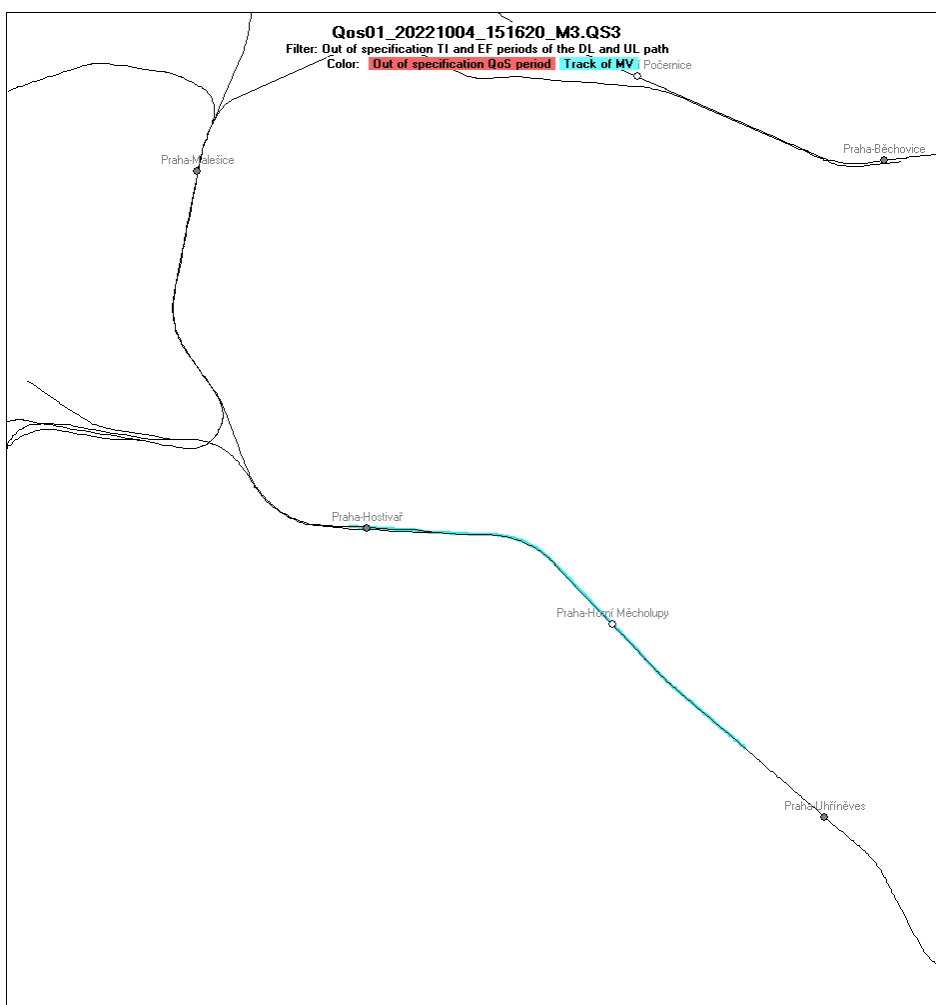
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		20010	(20008)	(2)
DL Interference period [sec]	(0,304) s	1	0,304 s	0,304 s
TI < 0,8 sec [%] required 95 %	100 %	1		
TI < 1 sec [%] required 99 %	100 %	1		
DL Recovery period [sec]	(980,706) s	2	340,709 s	1620,703 s
EF > 20 sec [%] required 95 %	100 %	2		
EF > 7 sec [%] required 99 %	100 %	2		
UL packets [#]		20009	(20006)	(3)
UL Interference period [sec]	(0,393) s	1	0,393 s	0,393 s
TI < 0,8 sec [%] required 95 %	100 %	1		
TI < 1 sec [%] required 99 %	100 %	1		
UL Recovery period [sec]	(980,564) s	2	339,501 s	1621,626 s
EF > 20 sec [%] required 95 %	100 %	2		
EF > 7 sec [%] required 99 %	100 %	2		
Connection loss rate [1/h]	0,000	0,545 h		(0)



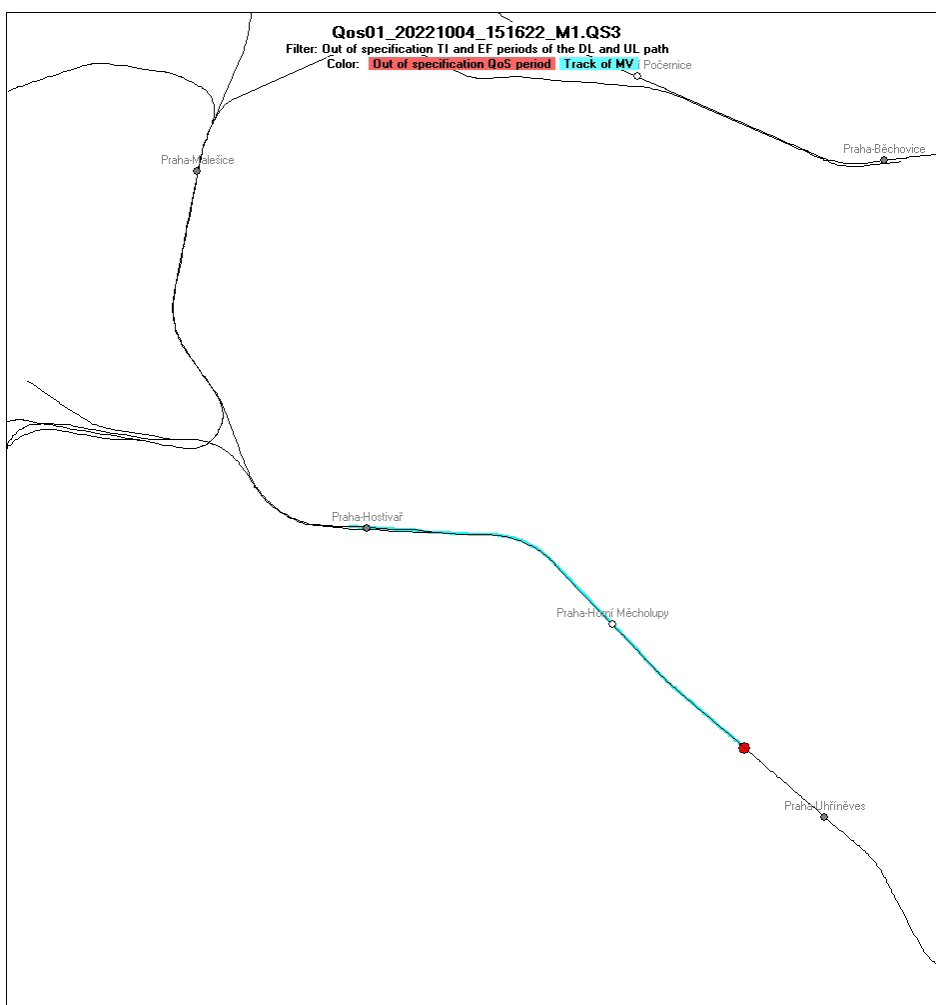
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		20014	(20012)	(2)
DL Interference period [sec]	(0,272) s	1	0,272 s	0,272 s
TI < 0,8 sec [%] required 95 %	100 %	1		
TI < 1 sec [%] required 99 %	100 %	1		
DL Recovery period [sec]	(980,778) s	2	241,592 s	1719,964 s
EF > 20 sec [%] required 95 %	100 %	2		
EF > 7 sec [%] required 99 %	100 %	2		
UL packets [#]		20013	(20011)	(2)
UL Interference period [sec]	(0,294) s	1	0,294 s	0,294 s
TI < 0,8 sec [%] required 95 %	100 %	1		
TI < 1 sec [%] required 99 %	100 %	1		
UL Recovery period [sec]	(980,669) s	2	242,018 s	1719,320 s
EF > 20 sec [%] required 95 %	100 %	2		
EF > 7 sec [%] required 99 %	100 %	2		
Connection loss rate [1/h]	0,000	0,545 h		(0)



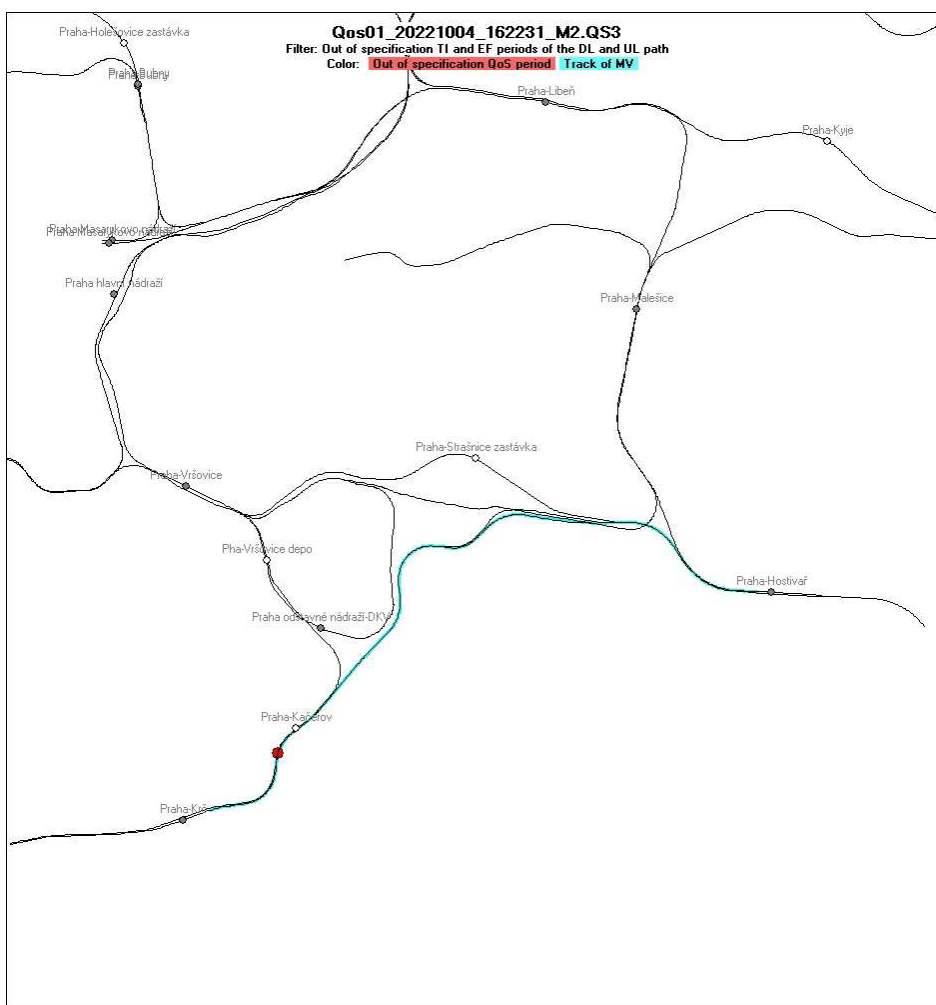
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		20010	(20009)	(1)
DL Interference period [sec]	(0,464) s	1	0,464 s	0,464 s
TI < 0,8 sec [%] required 95 %	100 %	1		
TI < 1 sec [%] required 99 %	100 %	1		
DL Recovery period [sec]	(980,618) s	2	237,176 s	1724,060 s
EF > 20 sec [%] required 95 %	100 %	2		
EF > 7 sec [%] required 99 %	100 %	2		
UL packets [#]		20009	(20007)	(2)
UL Interference period [sec]	(0,295) s	1	0,295 s	0,295 s
TI < 0,8 sec [%] required 95 %	100 %	1		
TI < 1 sec [%] required 99 %	100 %	1		
UL Recovery period [sec]	(980,604) s	2	238,031 s	1723,178 s
EF > 20 sec [%] required 95 %	100 %	2		
EF > 7 sec [%] required 99 %	100 %	2		
Connection loss rate [1/h]	0,000	0,545 h		(0)



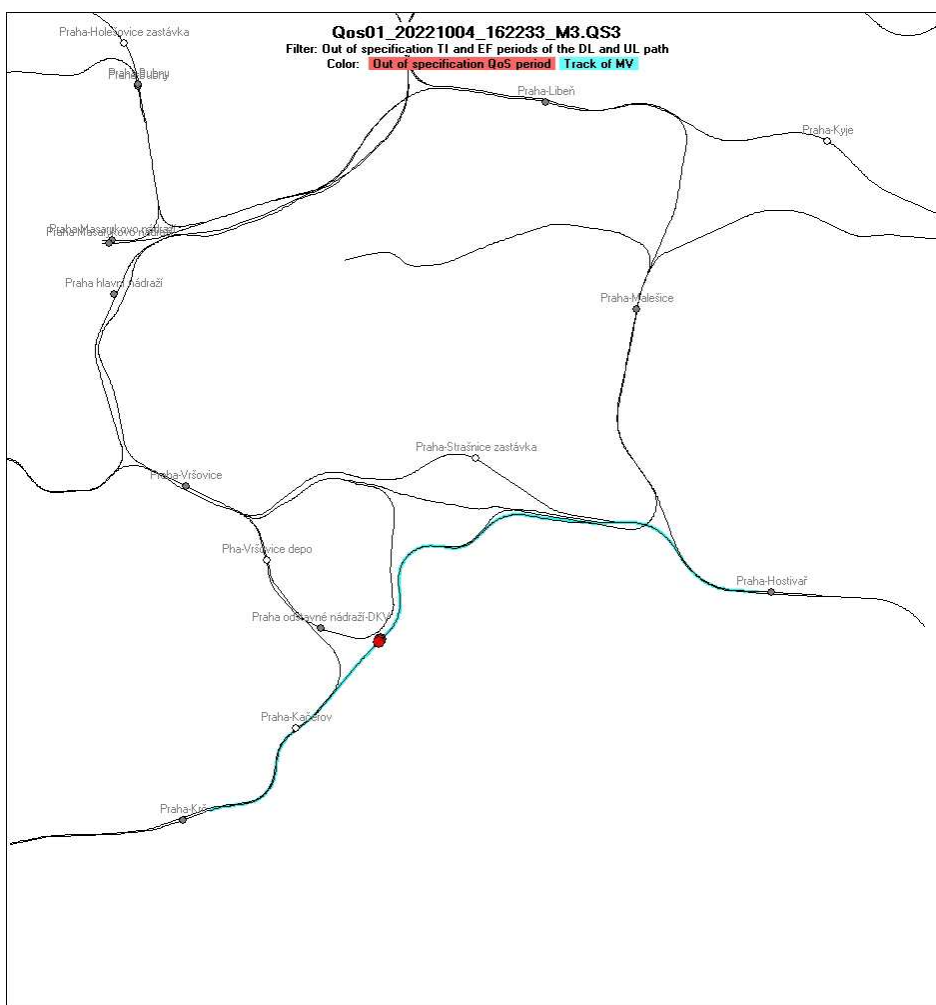
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		20012	(20008)	(4)
DL Interference period [sec]	(0,219) s	3	0,192 s	0,272 s
TI < 0,8 sec [%] required 95 %	100 %	3		
TI < 1 sec [%] required 99 %	100 %	3		
DL Recovery period [sec]	(490,281) s	4	8,800 s	1725,660 s
EF > 20 sec [%] required 95 %	75 %	3		
EF > 7 sec [%] required 99 %	100 %	4		
UL packets [#]		20011	(20003)	(8)
UL Interference period [sec]	(0,359) s	3	0,294 s	0,392 s
TI < 0,8 sec [%] required 95 %	100 %	3		
TI < 1 sec [%] required 99 %	100 %	3		
UL Recovery period [sec]	(490,126) s	4	8,627 s	1724,939 s
EF > 20 sec [%] required 95 %	75 %	3		
EF > 7 sec [%] required 99 %	100 %	4		
Connection loss rate [1/h]	0,000	0,545 h		(0)



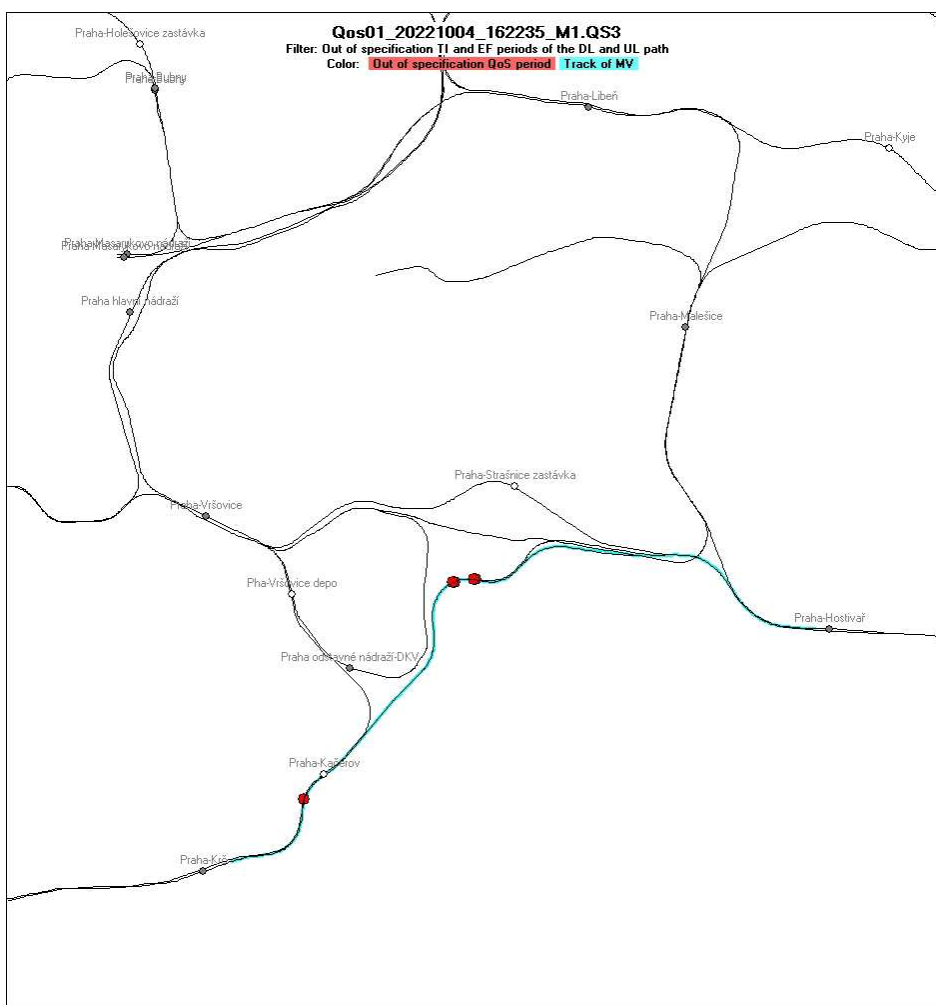
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		20012	(20006)	(6)
DL Interference period [sec]	(0,238) s	4	0,176 s	0,304 s
TI < 0,8 sec [%] required 95 %	100 %	4		
TI < 1 sec [%] required 99 %	100 %	4		
DL Recovery period [sec]	(392,180) s	5	56,846 s	1438,629 s
EF > 20 sec [%] required 95 %	100 %	5		
EF > 7 sec [%] required 99 %	100 %	5		
UL packets [#]		20011	(19996)	(15)
UL Interference period [sec]	(0,392) s	5	0,294 s	0,490 s
TI < 0,8 sec [%] required 95 %	100 %	5		
TI < 1 sec [%] required 99 %	100 %	5		
UL Recovery period [sec]	(326,616) s	6	15,980 s	1439,528 s
EF > 20 sec [%] required 95 %	83 %	5		
EF > 7 sec [%] required 99 %	100 %	6		
Connection loss rate [1/h]	0,000	0,545 h		(0)



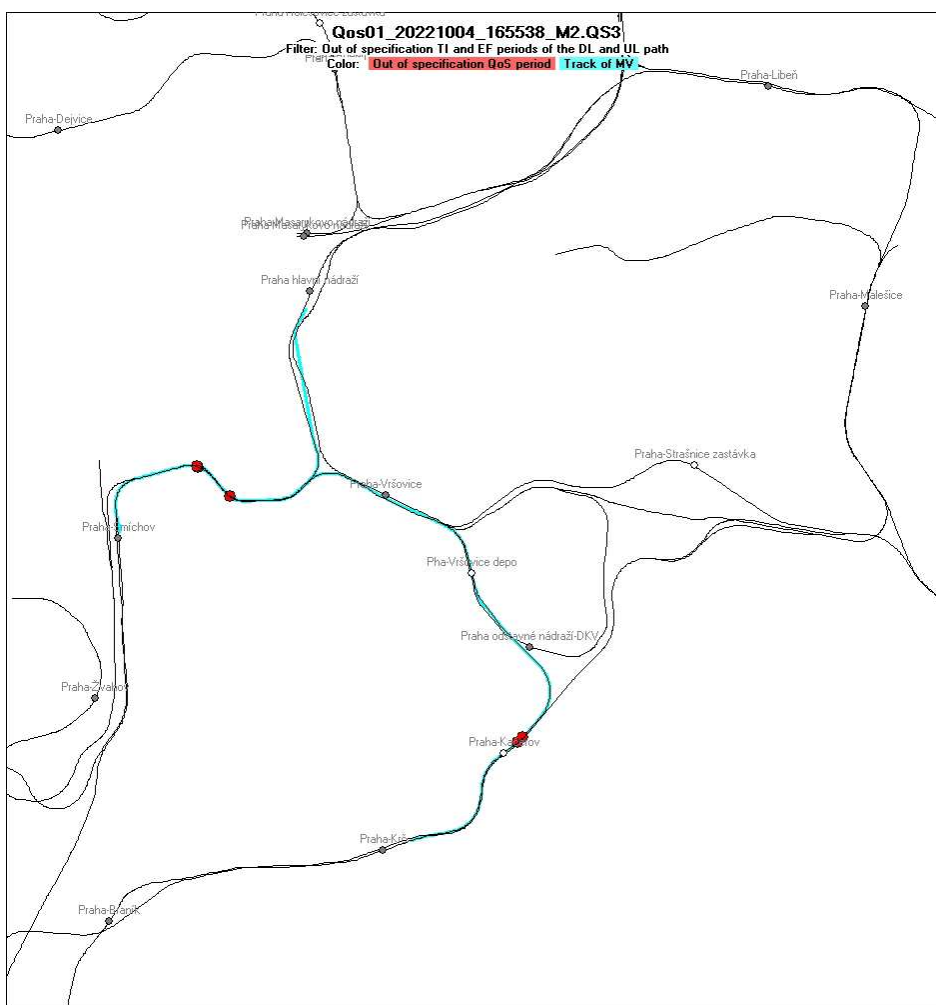
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		20070	(20061)	(9)
DL Interference period [sec]	(0,237) s	5	0,176 s	0,336 s
TI < 0,8 sec [%] required 95 %	100 %	5		
TI < 1 sec [%] required 99 %	100 %	5		
DL Recovery period [sec]	(327,758) s	6	0,864 s	1441,429 s
EF > 20 sec [%] required 95 %	67 %	4		
EF > 7 sec [%] required 99 %	67 %	4		
UL packets [#]		20069	(20045)	(24)
UL Interference period [sec]	(0,569) s	5	0,392 s	1,275 s
TI < 0,8 sec [%] required 95 %	80 %	4		
TI < 1 sec [%] required 99 %	80 %	4		
UL Recovery period [sec]	(327,449) s	6	0,980 s	1442,318 s
EF > 20 sec [%] required 95 %	83 %	5		
EF > 7 sec [%] required 99 %	83 %	5		
Connection loss rate [1/h]	0,000	0,547 h		(0)



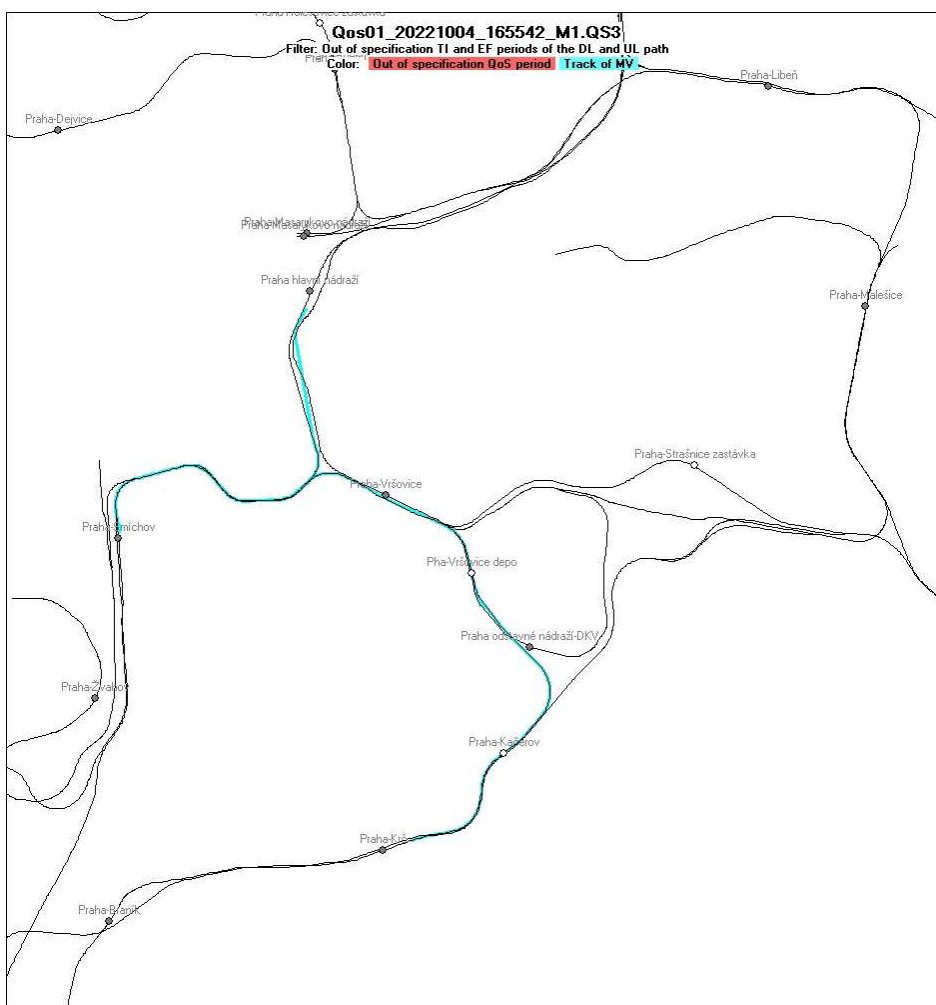
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		20013	(20002)	(11)
DL Interference period [sec]	(0,275) s	6	0,144 s	0,656 s
TI < 0,8 sec [%] required 95 %	100 %	6		
TI < 1 sec [%] required 99 %	100 %	6		
DL Recovery period [sec]	(280,026) s	7	11,248 s	1435,461 s
EF > 20 sec [%] required 95 %	71 %	5		
EF > 7 sec [%] required 99 %	100 %	7		
UL packets [#]		20012	(19994)	(18)
UL Interference period [sec]	(0,350) s	7	0,294 s	0,588 s
TI < 0,8 sec [%] required 95 %	100 %	7		
TI < 1 sec [%] required 99 %	100 %	7		
UL Recovery period [sec]	(244,898) s	8	5,392 s	1436,204 s
EF > 20 sec [%] required 95 %	62 %	5		
EF > 7 sec [%] required 99 %	88 %	7		
Connection loss rate [1/h]	0,000	0,545 h		(0)



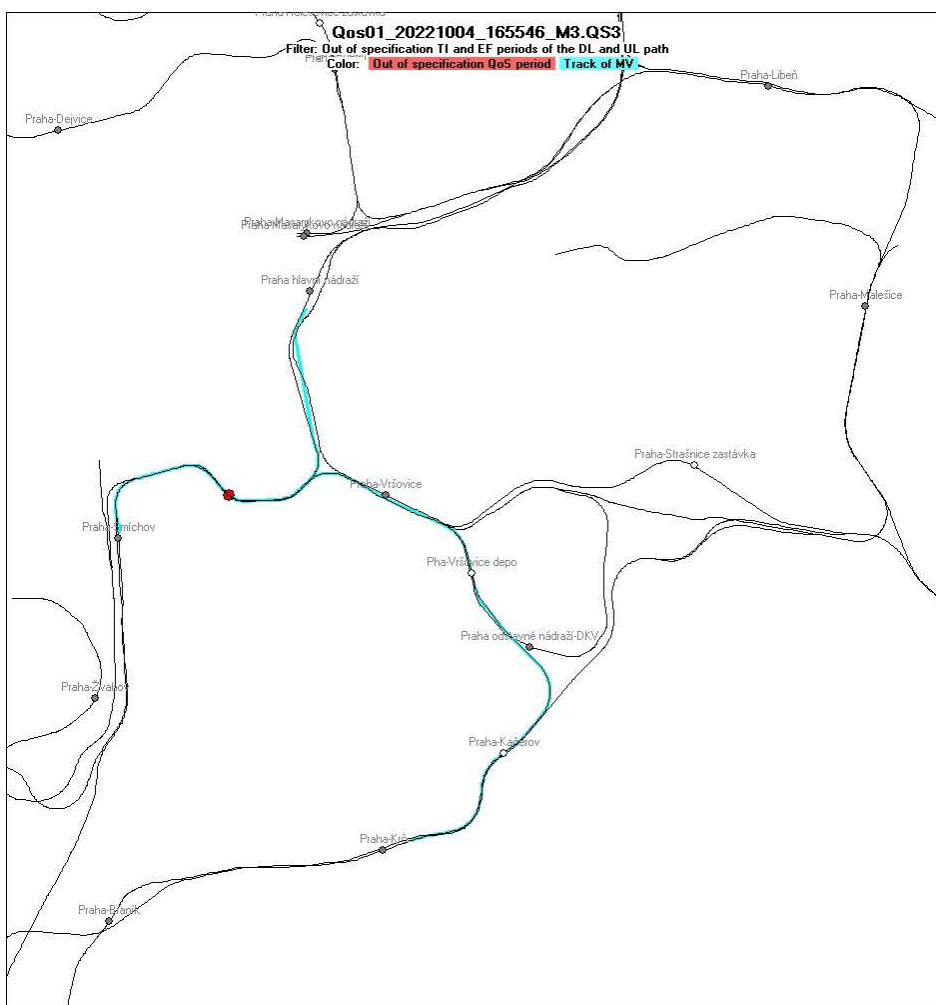
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		20078	(20052)	(26)
DL Interference period [sec]	(0,517) s	7	0,192 s	0,736 s
TI < 0,8 sec [%] required 95 %	100 %	7		
TI < 1 sec [%] required 99 %	100 %	7		
DL Recovery period [sec]	(245,558) s	8	59,406 s	818,295 s
EF > 20 sec [%] required 95 %	100 %	8		
EF > 7 sec [%] required 99 %	100 %	8		
UL packets [#]		20077	(20008)	(69)
UL Interference period [sec]	(0,485) s	18	0,196 s	0,980 s
TI < 0,8 sec [%] required 95 %	94 %	17		
TI < 1 sec [%] required 99 %	100 %	18		
UL Recovery period [sec]	(103,114) s	19	1,274 s	818,877 s
EF > 20 sec [%] required 95 %	68 %	13		
EF > 7 sec [%] required 99 %	79 %	15		
Connection loss rate [1/h]	0,000	0,547 h		(0)



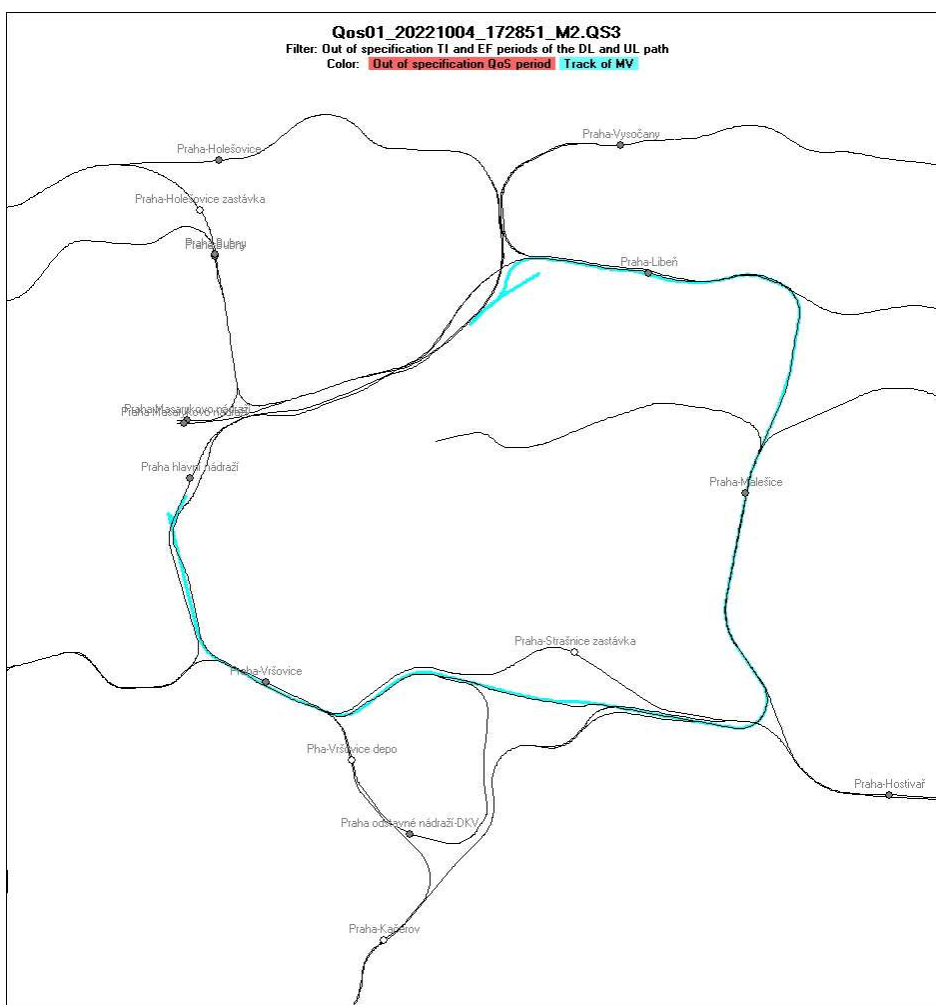
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		20074	(20053)	(21)
DL Interference period [sec]	(0,531) s	6	0,272 s	0,656 s
TI < 0,8 sec [%] required 95 %	100 %	6		
TI < 1 sec [%] required 99 %	100 %	6		
DL Recovery period [sec]	(280,691) s	7	64,094 s	815,271 s
EF > 20 sec [%] required 95 %	100 %	7		
EF > 7 sec [%] required 99 %	100 %	7		
UL packets [#]		20073	(20055)	(18)
UL Interference period [sec]	(0,350) s	7	0,294 s	0,392 s
TI < 0,8 sec [%] required 95 %	100 %	7		
TI < 1 sec [%] required 99 %	100 %	7		
UL Recovery period [sec]	(245,672) s	8	63,039 s	816,071 s
EF > 20 sec [%] required 95 %	100 %	8		
EF > 7 sec [%] required 99 %	100 %	8		
Connection loss rate [1/h]	0,000	0,547 h		(0)



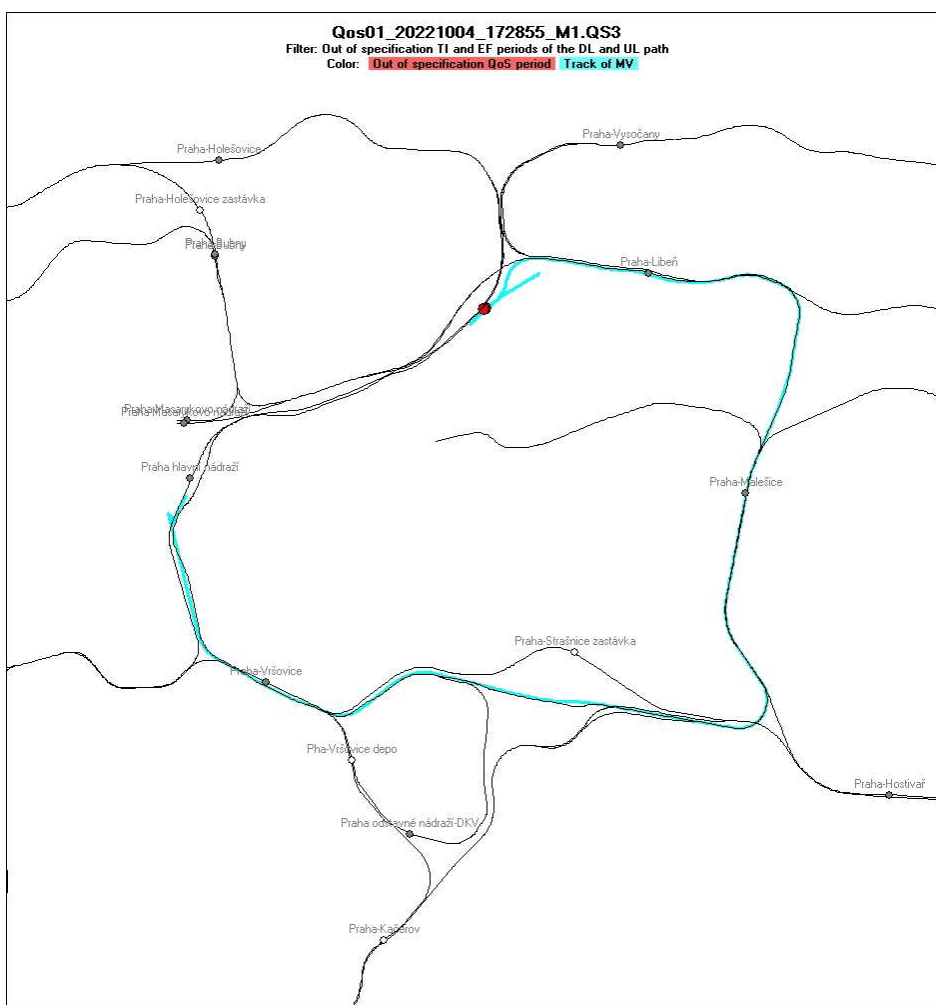
KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		20074	(20048)	(26)
DL Interference period [sec]	(0,498) s	7	0,288 s	0,656 s
TI < 0,8 sec [%] required 95 %	100 %	7		
TI < 1 sec [%] required 99 %	100 %	7		
DL Recovery period [sec]	(245,546) s	8	67,966 s	810,119 s
EF > 20 sec [%] required 95 %	100 %	8		
EF > 7 sec [%] required 99 %	100 %	8		
UL pakets [#]		20073	(20056)	(17)
UL Interference period [sec]	(0,319) s	8	0,196 s	0,588 s
TI < 0,8 sec [%] required 95 %	100 %	8		
TI < 1 sec [%] required 99 %	100 %	8		
UL Recovery period [sec]	(218,346) s	9	0,588 s	810,809 s
EF > 20 sec [%] required 95 %	89 %	8		
EF > 7 sec [%] required 99 %	89 %	8		
Connection loss rate [1/h]	0,000	0,547 h		(0)



KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		20080	(20047)	(33)
DL Interference period [sec]	(0,411) s	13	0,176 s	0,751 s
TI < 0,8 sec [%] required 95 %	100 %	13		
TI < 1 sec [%] required 99 %	100 %	13		
DL Recovery period [sec]	(140,219) s	14	20,991 s	329,255 s
EF > 20 sec [%] required 95 %	100 %	14		
EF > 7 sec [%] required 99 %	100 %	14		
UL packets [#]		20079	(20040)	(39)
UL Interference period [sec]	(0,371) s	14	0,294 s	0,686 s
TI < 0,8 sec [%] required 95 %	100 %	14		
TI < 1 sec [%] required 99 %	100 %	14		
UL Recovery period [sec]	(130,868) s	15	20,978 s	328,100 s
EF > 20 sec [%] required 95 %	100 %	15		
EF > 7 sec [%] required 99 %	100 %	15		
Connection loss rate [1/h]	0,000	0,547 h		(0)



KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		20078	(20039)	(39)
DL Interference period [sec]	(0,393) s	15	0,193 s	0,720 s
TI < 0,8 sec [%] required 95 %	100 %	15		
TI < 1 sec [%] required 99 %	100 %	15		
DL Recovery period [sec]	(122,665) s	16	0,847 s	332,517 s
EF > 20 sec [%] required 95 %	88 %	14		
EF > 7 sec [%] required 99 %	88 %	14		
UL packets [#]		20077	(20029)	(48)
UL Interference period [sec]	(0,434) s	14	0,197 s	1,373 s
TI < 0,8 sec [%] required 95 %	93 %	13		
TI < 1 sec [%] required 99 %	93 %	13		
UL Recovery period [sec]	(130,817) s	15	0,980 s	331,096 s
EF > 20 sec [%] required 95 %	93 %	14		
EF > 7 sec [%] required 99 %	93 %	14		
Connection loss rate [1/h]	0,000	0,547 h		(0)



KPI QoS parameter	Value (Avg)	Samples	Min (OK)	Max (NO)
DL packets [#]		20078	(20039)	(39)
DL Interference period [sec]	(0,393) s	14	0,128 s	0,661 s
TI < 0,8 sec [%] required 95 %	100 %	14		
TI < 1 sec [%] required 99 %	100 %	14		
DL Recovery period [sec]	(130,856) s	15	0,848 s	335,398 s
EF > 20 sec [%] required 95 %	87 %	13		
EF > 7 sec [%] required 99 %	87 %	13		
UL packets [#]		20077	(20035)	(42)
UL Interference period [sec]	(0,392) s	14	0,196 s	1,274 s
TI < 0,8 sec [%] required 95 %	93 %	13		
TI < 1 sec [%] required 99 %	93 %	13		
UL Recovery period [sec]	(130,844) s	15	1,078 s	334,299 s
EF > 20 sec [%] required 95 %	93 %	14		
EF > 7 sec [%] required 99 %	93 %	14		
Connection loss rate [1/h]	0,000	0,547 h		(0)

