

Vrijeme od	Vrijeme do	Oznaka mjesta uzorkovanja	Mjesto uzorkovanja	Vrsta mjesta uzorkovanja
16.7.2022 6:00	17.7.2022 6:00	020-1	MRS Zagreb Jug stream 1	Kromatografski uzorak
17.7.2022 6:00	18.7.2022 6:00	020-1	MRS Zagreb Jug stream 1	Kromatografski uzorak
18.7.2022 6:00	19.7.2022 6:00	020-1	MRS Zagreb Jug stream 1	Kromatografski uzorak
19.7.2022 6:00	20.7.2022 6:00	020-1	MRS Zagreb Jug stream 1	Kromatografski uzorak
20.7.2022 6:00	21.7.2022 6:00	020-1	MRS Zagreb Jug stream 1	Kromatografski uzorak
21.7.2022 6:00	22.7.2022 6:00	020-1	MRS Zagreb Jug stream 1	Kromatografski uzorak
22.7.2022 6:00	23.7.2022 6:00	020-1	MRS Zagreb Jug stream 1	Kromatografski uzorak
23.7.2022 6:00	24.7.2022 6:00	020-1	MRS Zagreb Jug stream 1	Kromatografski uzorak
24.7.2022 6:00	25.7.2022 6:00	020-1	MRS Zagreb Jug stream 1	Kromatografski uzorak
25.7.2022 6:00	26.7.2022 6:00	020-1	MRS Zagreb Jug stream 1	Kromatografski uzorak
26.7.2022 6:00	27.7.2022 6:00	020-1	MRS Zagreb Jug stream 1	Kromatografski uzorak
27.7.2022 6:00	28.7.2022 6:00	020-1	MRS Zagreb Jug stream 1	Kromatografski uzorak
28.7.2022 6:00	29.7.2022 6:00	020-1	MRS Zagreb Jug stream 1	Kromatografski uzorak
29.7.2022 6:00	30.7.2022 6:00	020-1	MRS Zagreb Jug stream 1	Kromatografski uzorak
30.7.2022 6:00	31.7.2022 6:00	020-1	MRS Zagreb Jug stream 1	Kromatografski uzorak
31.7.2022 6:00	1.8.2022 6:00	020-1	MRS Zagreb Jug stream 1	Kromatografski uzorak
16.7.2022 6:00	17.7.2022 6:00	019-1	MRS Zagreb Zapad stream 1	Kromatografski uzorak
17.7.2022 6:00	18.7.2022 6:00	019-1	MRS Zagreb Zapad stream 1	Kromatografski uzorak
18.7.2022 6:00	19.7.2022 6:00	019-1	MRS Zagreb Zapad stream 1	Kromatografski uzorak
19.7.2022 6:00	20.7.2022 6:00	019-1	MRS Zagreb Zapad stream 1	Kromatografski uzorak
20.7.2022 6:00	21.7.2022 6:00	019-1	MRS Zagreb Zapad stream 1	Kromatografski uzorak
21.7.2022 6:00	22.7.2022 6:00	019-1	MRS Zagreb Zapad stream 1	Kromatografski uzorak
22.7.2022 6:00	23.7.2022 6:00	019-1	MRS Zagreb Zapad stream 1	Kromatografski uzorak
23.7.2022 6:00	24.7.2022 6:00	019-1	MRS Zagreb Zapad stream 1	Kromatografski uzorak
24.7.2022 6:00	25.7.2022 6:00	019-1	MRS Zagreb Zapad stream 1	Kromatografski uzorak
25.7.2022 6:00	26.7.2022 6:00	019-1	MRS Zagreb Zapad stream 1	Kromatografski uzorak
26.7.2022 6:00	27.7.2022 6:00	019-1	MRS Zagreb Zapad stream 1	Kromatografski uzorak
27.7.2022 6:00	28.7.2022 6:00	019-1	MRS Zagreb Zapad stream 1	Kromatografski uzorak
28.7.2022 6:00	29.7.2022 6:00	019-1	MRS Zagreb Zapad stream 1	Kromatografski uzorak
29.7.2022 6:00	30.7.2022 6:00	019-1	MRS Zagreb Zapad stream 1	Kromatografski uzorak
30.7.2022 6:00	31.7.2022 6:00	019-1	MRS Zagreb Zapad stream 1	Kromatografski uzorak
31.7.2022 6:00	1.8.2022 6:00	019-1	MRS Zagreb Zapad stream 1	Kromatografski uzorak
16.7.2022 6:00	17.7.2022 6:00	001-2	MRS/PČ Ivanja Reka - MRS Zagreb-Istok (stream 2)	Kromatografski uzorak
17.7.2022 6:00	18.7.2022 6:00	001-2	MRS/PČ Ivanja Reka - MRS Zagreb-Istok (stream 2)	Kromatografski uzorak
18.7.2022 6:00	19.7.2022 6:00	001-2	MRS/PČ Ivanja Reka - MRS Zagreb-Istok (stream 2)	Kromatografski uzorak
19.7.2022 6:00	20.7.2022 6:00	001-2	MRS/PČ Ivanja Reka - MRS Zagreb-Istok (stream 2)	Kromatografski uzorak
20.7.2022 6:00	21.7.2022 6:00	001-2	MRS/PČ Ivanja Reka - MRS Zagreb-Istok (stream 2)	Kromatografski uzorak
21.7.2022 6:00	22.7.2022 6:00	001-2	MRS/PČ Ivanja Reka - MRS Zagreb-Istok (stream 2)	Kromatografski uzorak
22.7.2022 6:00	23.7.2022 6:00	001-2	MRS/PČ Ivanja Reka - MRS Zagreb-Istok (stream 2)	Kromatografski uzorak
23.7.2022 6:00	24.7.2022 6:00	001-2	MRS/PČ Ivanja Reka - MRS Zagreb-Istok (stream 2)	Kromatografski uzorak
24.7.2022 6:00	25.7.2022 6:00	001-2	MRS/PČ Ivanja Reka - MRS Zagreb-Istok (stream 2)	Kromatografski uzorak
25.7.2022 6:00	26.7.2022 6:00	001-2	MRS/PČ Ivanja Reka - MRS Zagreb-Istok (stream 2)	Kromatografski uzorak
26.7.2022 6:00	27.7.2022 6:00	001-2	MRS/PČ Ivanja Reka - MRS Zagreb-Istok (stream 2)	Kromatografski uzorak
27.7.2022 6:00	28.7.2022 6:00	001-2	MRS/PČ Ivanja Reka - MRS Zagreb-Istok (stream 2)	Kromatografski uzorak
28.7.2022 6:00	29.7.2022 6:00	001-2	MRS/PČ Ivanja Reka - MRS Zagreb-Istok (stream 2)	Kromatografski uzorak
29.7.2022 6:00	30.7.2022 6:00	001-2	MRS/PČ Ivanja Reka - MRS Zagreb-Istok (stream 2)	Kromatografski uzorak
30.7.2022 6:00	31.7.2022 6:00	001-2	MRS/PČ Ivanja Reka - MRS Zagreb-Istok (stream 2)	Kromatografski uzorak
31.7.2022 6:00	1.8.2022 6:00	001-2	MRS/PČ Ivanja Reka - MRS Zagreb-Istok (stream 2)	Kromatografski uzorak

Kromatografska analiza plina za izlaz iz transportnog sustava Zaprešić - 6 bara - Zaprešić, je identična sa izlazom Zapad - 6 bara - Zagreb, a iz razloga jer obadva izlaza iz transportnog sustava preuzimaju plin iz istog plinovoda.
Podaci preuzeti sa web stranice transportnog operatora Plinacro.

Zadnja izmjena	N2 (mol %)	CO2 (mol %)	C1 (mol %)	C2 (mol %)	C3 (mol %)	C3+ (mol %)	n-C4 (mol %)	i-C4 (mol %)	n-C5 (mol %)	i-C5 (mol %)	neo-C5 (mol %)	C6 (mol %)	C6+ (mol %)	C7 (mol %)
1.8.2022 9:11	0,427	0,502	93,896	4,182	0,704	0,992	0,111	0,109	0,016	0,023	0,001	-	0,027	-
1.8.2022 9:11	0,53	0,627	93,363	4,321	0,822	1,159	0,13	0,125	0,02	0,028	0,001	-	0,032	-
1.8.2022 9:11	0,424	0,521	93,969	4,056	0,732	1,029	0,114	0,112	0,017	0,024	0,001	-	0,029	-
1.8.2022 9:11	0,462	0,543	94,003	3,941	0,741	1,051	0,118	0,116	0,018	0,026	0,002	-	0,031	-
1.8.2022 9:11	0,338	0,356	94,752	3,623	0,654	0,93	0,105	0,103	0,016	0,023	0,002	-	0,028	-
1.8.2022 9:11	0,236	0,241	95,222	3,549	0,531	0,752	0,084	0,085	0,011	0,018	0,001	-	0,022	-
1.8.2022 9:11	0,211	0,218	95,323	3,545	0,499	0,704	0,077	0,08	0,01	0,016	0,001	-	0,021	-
1.8.2022 9:11	0,205	0,23	95,362	3,519	0,484	0,684	0,075	0,078	0,01	0,016	0,001	-	0,021	-
1.8.2022 9:11	0,319	0,377	94,809	3,662	0,584	0,832	0,093	0,094	0,014	0,02	0,002	-	0,026	-
1.8.2022 9:11	0,193	0,214	95,421	3,484	0,484	0,687	0,076	0,079	0,01	0,016	0,001	-	0,021	-
1.8.2022 9:11	0,369	0,437	94,589	3,701	0,634	0,904	0,101	0,102	0,015	0,022	0,002	-	0,029	-
1.8.2022 9:11	0,232	0,261	95,221	3,556	0,515	0,73	0,081	0,083	0,011	0,017	0,001	-	0,022	-
1.8.2022 9:11	0,294	0,325	94,963	3,628	0,557	0,79	0,087	0,089	0,012	0,019	0,001	-	0,024	-
1.8.2022 9:11	0,406	0,459	94,343	3,82	0,685	0,972	0,109	0,108	0,016	0,024	0,002	-	0,029	-
1.8.2022 9:11	0,329	0,365	94,61	3,783	0,645	0,913	0,102	0,102	0,015	0,022	0,001	-	0,027	-
1.8.2022 9:11	0,381	0,438	94,254	3,923	0,71	1,004	0,112	0,11	0,017	0,024	0,001	-	0,029	-
1.8.2022 9:11	0,807	0,975	92,005	4,618	1,12	1,595	0,184	0,174	0,03	0,04	0,002	-	0,044	-
1.8.2022 9:11	0,831	1,009	91,865	4,673	1,144	1,622	0,186	0,175	0,03	0,041	0,002	-	0,045	-
1.8.2022 9:11	0,826	1,062	91,795	4,748	1,114	1,569	0,178	0,168	0,028	0,038	0,002	-	0,042	-
1.8.2022 9:11	0,718	0,845	92,804	4,216	0,992	1,416	0,164	0,156	0,027	0,035	0,002	-	0,04	-
1.8.2022 9:11	0,73	0,826	92,772	4,172	1,05	1,499	0,175	0,163	0,029	0,038	0,002	-	0,042	-
1.8.2022 9:11	0,809	0,929	92,25	4,498	1,064	1,515	0,175	0,166	0,028	0,037	0,002	-	0,042	-
1.8.2022 9:11	0,816	0,974	92,214	4,557	1,013	1,439	0,164	0,159	0,026	0,035	0,002	-	0,041	-
1.8.2022 9:11	0,657	0,833	93,193	4,111	0,842	1,206	0,138	0,135	0,022	0,03	0,002	-	0,037	-
1.8.2022 9:11	0,661	0,829	93,172	4,107	0,856	1,23	0,141	0,138	0,023	0,031	0,002	-	0,038	-
1.8.2022 9:11	0,637	0,781	93,373	3,979	0,855	1,23	0,142	0,138	0,024	0,031	0,002	-	0,038	-
1.8.2022 9:11	0,65	0,8	93,263	4,043	0,868	1,244	0,143	0,139	0,023	0,031	0,002	-	0,038	-
1.8.2022 9:11	0,682	0,84	93,095	4,128	0,877	1,255	0,143	0,14	0,023	0,031	0,002	-	0,038	-
1.8.2022 9:11	0,763	0,893	92,816	4,211	0,924	1,317	0,149	0,146	0,024	0,032	0,002	-	0,039	-
1.8.2022 9:11	0,779	0,915	92,526	4,327	1,019	1,453	0,167	0,16	0,027	0,036	0,002	-	0,042	-
1.8.2022 9:11	0,815	0,942	92,201	4,471	1,105	1,57	0,181	0,171	0,029	0,039	0,002	-	0,044	-
1.8.2022 9:11	0,833	0,986	91,971	4,586	1,147	1,624	0,186	0,175	0,03	0,04	0,002	-	0,045	-
1.8.2022 9:11	0,079	0,067	95,633	3,796	0,324	0,425	0,037	0,048	0,004	0,007	0	0,005	-	0
1.8.2022 9:11	0,129	0,129	95,362	3,875	0,382	0,505	0,044	0,057	0,006	0,009	0	0,007	-	0
1.8.2022 9:11	0,101	0,097	95,559	3,724	0,39	0,519	0,046	0,06	0,006	0,01	0	0,007	-	0
1.8.2022 9:11	0,077	0,061	95,888	3,474	0,372	0,5	0,044	0,059	0,006	0,011	0	0,007	-	0,002
1.8.2022 9:11	0,081	0,061	95,966	3,379	0,38	0,513	0,045	0,061	0,007	0,012	0	0,007	-	0,002
1.8.2022 9:11	0,068	0,041	96,071	3,315	0,373	0,506	0,045	0,06	0,007	0,012	0	0,007	-	0,003
1.8.2022 9:11	0,049	0,018	96,163	3,288	0,355	0,481	0,042	0,057	0,006	0,011	0	0,007	-	0,002
1.8.2022 9:11	0,038	0,003	96,221	3,269	0,347	0,469	0,041	0,056	0,006	0,011	0	0,007	-	0,002
1.8.2022 9:11	0,072	0,053	96,023	3,34	0,378	0,513	0,045	0,061	0,007	0,012	0	0,007	-	0,002
1.8.2022 9:11	0,06	0,039	96,065	3,333	0,372	0,503	0,044	0,06	0,006	0,011	0	0,007	-	0,002
1.8.2022 9:11	0,039	0,014	96,153	3,312	0,357	0,483	0,043	0,058	0,006	0,011	0	0,007	-	0,002
1.8.2022 9:11	0,031	0,002	96,178	3,312	0,352	0,477	0,042	0,057	0,006	0,011	0	0,007	-	0,002
1.8.2022 9:11	0,036	0,008	96,153	3,325	0,354	0,478	0,042	0,057	0,006	0,011	0	0,007	-	0,002
1.8.2022 9:11	0,036	0,01	96,138	3,338	0,354	0,479	0,042	0,057	0,006	0,011	0	0,007	-	0,002
1.8.2022 9:11	0,066	0,05	95,966	3,391	0,39	0,527	0,047	0,062	0,007	0,012	0	0,007	-	0,003
1.8.2022 9:11	0,147	0,152	95,516	3,543	0,473	0,642	0,057	0,075	0,009	0,015	0	0,008	-	0,004

C8 (mol %)	C9+ (mol %)	NCV (kWh/m3) @15/15	NCV (MJ/m3) @15/15	NCV (kWh/m3) @25/0	NCV (MJ/m3) @25/0	GCV (kWh/m3) @15/15	GCV (MJ/m3) @15/15	GCV (kWh/m3) @25/0	GCV (MJ/m3) @25/0	Wd(kWh/m3) @15/15	Wd(MJ/m3) @15/15	Wd(kWh/m3) @25/0
-	-	9,845979	35,446	10,390258	37,405	10,917045	39,301	11,509984	41,436	12,781	46,011	13,486
-	-	9,864346	35,512	10,409695	37,475	10,935896	39,369	11,529934	41,508	12,759	45,933	13,462
-	-	9,841542	35,43	10,385575	37,388	10,912237	39,284	11,504912	41,418	12,775	45,991	13,48
-	-	9,832483	35,397	10,376016	37,354	10,902311	39,248	11,494447	41,38	12,762	45,945	13,466
-	-	9,816685	35,34	10,359282	37,293	10,88654	39,192	11,477734	41,32	12,799	46,078	13,505
-	-	9,800185	35,281	10,341819	37,231	10,869638	39,131	11,459845	41,255	12,821	46,155	13,528
-	-	9,800185	35,281	10,341819	37,231	10,864859	39,113	11,459845	41,255	12,821	46,155	13,528
-	-	9,789437	35,242	10,330457	37,19	10,864859	39,113	11,454789	41,237	12,825	46,17	13,532
-	-	9,802233	35,288	10,344013	37,238	10,871039	39,136	11,461367	41,261	12,789	46,041	13,494
-	-	9,790364	35,245	10,331434	37,193	10,859369	39,094	11,44899	41,216	12,825	46,169	13,531
-	-	9,807751	35,308	10,34986	37,259	10,876549	39,156	11,467207	41,282	12,776	45,995	13,481
-	-	9,795148	35,263	10,3365	37,211	10,864191	39,111	11,454097	41,235	12,815	46,135	13,522
-	-	9,799067	35,277	10,340657	37,226	10,867926	39,125	11,458064	41,249	12,8	46,078	13,505
-	-	9,822621	35,361	10,365576	37,316	10,892267	39,212	11,483813	41,342	12,777	45,998	13,482
-	-	9,825297	35,371	10,368378	37,326	10,895765	39,225	11,487472	41,355	12,804	46,093	13,509
-	-	9,839642	35,423	10,38355	37,381	10,910674	39,278	11,503238	41,412	12,794	46,057	13,499
-	-	9,905449	35,66	10,453213	37,632	10,977657	39,52	11,574157	41,667	12,694	45,698	13,394
-	-	9,908491	35,671	10,456436	37,643	10,980705	39,531	11,577386	41,679	12,688	45,676	13,387
-	-	9,899076	35,637	10,446495	37,607	10,97043	39,494	11,566545	41,64	12,674	45,626	13,373
-	-	9,864779	35,513	10,410215	37,477	10,934894	39,366	11,52896	41,504	12,702	45,727	13,402
-	-	9,876818	35,557	10,422934	37,523	10,947817	39,412	11,542605	41,553	12,71	45,757	13,411
-	-	9,886398	35,591	10,433078	37,559	10,957406	39,447	11,552762	41,59	12,69	45,685	13,39
-	-	9,886398	35,591	10,433078	37,559	10,957406	39,447	11,536783	41,532	12,69	45,685	13,373
-	-	9,827416	35,379	10,370732	37,335	10,895108	39,222	11,536783	41,532	12,688	45,678	13,388
-	-	9,831691	35,394	10,375248	37,351	10,899686	39,239	11,491772	41,37	12,691	45,687	13,39
-	-	9,829329	35,386	10,372743	37,342	10,897429	39,231	11,489375	41,362	12,7	45,721	13,4
-	-	9,833025	35,399	10,376653	37,356	10,90127	39,245	11,493436	41,376	12,698	45,712	13,398
-	-	9,834283	35,403	10,37799	37,361	10,902349	39,248	11,494588	41,381	12,688	45,678	13,388
-	-	9,838476	35,419	10,382438	37,377	10,90635	39,263	11,498837	41,396	12,673	45,623	13,372
-	-	9,867188	35,522	10,412778	37,486	10,93698	39,373	11,531188	41,512	12,684	45,664	13,384
-	-	9,89232	35,612	10,439338	37,582	10,963683	39,469	11,559395	41,614	12,691	45,687	13,391
-	-	9,904308	35,656	10,452013	37,627	10,976304	39,515	11,572734	41,662	12,689	45,68	13,388
0	0	9,787714	35,236	10,328464	37,182	10,857355	39,086	11,446793	41,208	12,863	46,306	13,572
0	0	9,796779	35,268	10,338055	37,217	10,866657	39,12	11,456634	41,244	12,851	46,264	13,559
0	0	9,793887	35,258	10,334994	37,206	10,863785	39,11	11,453594	41,233	12,858	46,29	13,567
0	0	9,778676	35,203	10,31892	37,148	10,847715	39,052	11,436621	41,172	12,859	46,291	13,567
0	0	9,773918	35,186	10,313896	37,13	10,842605	39,033	11,431228	41,152	12,855	46,28	13,564
0	0	9,771027	35,176	10,310838	37,119	10,839629	39,023	11,428082	41,141	12,859	46,292	13,567
0	0	9,768637	35,167	10,308308	37,11	10,83722	39,014	11,425531	41,132	12,864	46,309	13,572
0	0	9,767738	35,164	10,307354	37,106	10,836355	39,011	11,424613	41,129	12,867	46,322	13,576
0	0	9,772518	35,181	10,312414	37,125	10,841167	39,028	11,429708	41,147	12,857	46,285	13,566
0	0	9,772823	35,182	10,312734	37,126	10,84159	39,03	11,43015	41,149	12,861	46,3	13,57
0	0	9,77224	35,18	10,312112	37,124	10,841137	39,028	11,429664	41,147	12,868	46,324	13,577
0	0	9,772803	35,182	10,312703	37,126	10,841808	39,031	11,430368	41,149	12,871	46,335	13,58
0	0	9,773028	35,183	10,312943	37,127	10,842012	39,031	11,430585	41,15	12,87	46,33	13,579
0	0	9,77398	35,186	10,313948	37,13	10,843024	39,035	11,431655	41,154	12,87	46,331	13,579
0	0	9,779611	35,207	10,319907	37,152	10,848802	39,056	11,437767	41,176	12,862	46,305	13,571
0	0	9,793543	35,257	10,334649	37,205	10,863058	39,107	11,452851	41,23	12,843	46,235	13,551

Wd(Mj/m3) @25/0	Wg(kWh/m3) @15/15	Wg(Mj/m3) @15/15	Wg(kWh/m3) @25/0	Wg(Mj/m3) @25/0	ρ (kg/m3) @15	ρ (kg/m3) @0	d@15	d@0	M kg/kmol	R J/kgK	MN (metansk i broj)
48,548	14,171	51,017	14,939	53,78	0,727	0,7675	0,5935	0,5936	17,156	484,651	82,683
48,465	14,145	50,922	14,911	53,68	0,732	0,7731	0,5977	0,5979	17,279	481,214	81,778
48,526	14,165	50,995	14,932	53,757	0,727	0,7675	0,5935	0,5936	17,156	484,671	82,777
48,478	14,151	50,944	14,918	53,703	0,727	0,7677	0,5936	0,5938	17,16	484,646	82,937
48,618	14,194	51,1	14,963	53,867	0,721	0,7608	0,5883	0,5884	17,007	488,958	83,96
48,7	14,22	51,192	14,99	53,964	0,716	0,7557	0,5843	0,5845	16,891	492,298	84,895
48,7	14,225	51,21	14,995	53,984	0,716	0,7557	0,5843	0,5845	16,864	493,06	85,121
48,715	14,225	51,21	14,99	53,965	0,715	0,7541	0,5834	0,5835	16,857	493,256	85,265
48,579	14,184	51,061	14,952	53,826	0,72	0,7597	0,5874	0,5876	16,984	489,568	84,315
48,713	14,225	51,21	14,995	53,983	0,714	0,7537	0,5828	0,583	16,847	493,536	85,3
48,53	14,169	51,007	14,936	53,77	0,722	0,7621	0,5893	0,5895	17,036	488,07	83,943
48,678	14,214	51,17	14,984	53,941	0,716	0,7556	0,5842	0,5844	16,887	492,393	84,985
48,618	14,196	51,105	14,964	53,872	0,718	0,7581	0,5862	0,5863	16,946	490,72	84,609
48,534	14,169	51,007	14,936	53,77	0,724	0,7644	0,591	0,5912	17,086	486,675	83,427
48,634	14,199	51,115	14,968	53,883	0,722	0,7616	0,5889	0,5891	17,024	488,396	83,694
48,596	14,186	51,07	14,954	53,836	0,725	0,7651	0,5915	0,5917	17,101	486,24	83,068
48,218	14,068	50,645	14,83	53,389	0,746	0,7875	0,6089	0,6091	17,601	472,392	79,624
48,194	14,061	50,618	14,822	53,361	0,747	0,7888	0,6099	0,6101	17,629	471,629	79,46
48,142	14,046	50,564	14,806	53,303	0,748	0,789	0,6101	0,6102	17,634	471,497	79,631
48,248	14,08	50,687	14,843	53,433	0,739	0,7801	0,6032	0,6034	17,438	476,837	80,973
48,28	14,088	50,719	14,852	53,466	0,74	0,781	0,6038	0,604	17,456	476,318	80,653
48,204	14,065	50,634	14,827	53,377	0,744	0,7849	0,6069	0,6071	17,544	473,919	80,121
48,141	14,047	50,57	14,827	53,377	0,744	0,7849	0,6068	0,607	17,539	474,07	80,378
48,196	14,047	50,57	14,808	53,309	0,735	0,7848	0,5999	0,6001	17,342	479,444	82,041
48,206	14,069	50,65	14,831	53,393	0,735	0,7762	0,6002	0,6004	17,35	479,227	81,921
48,242	14,08	50,689	14,843	53,435	0,734	0,7747	0,599	0,5992	17,316	480,165	82,111
48,232	14,077	50,678	14,84	53,423	0,735	0,7756	0,5997	0,5999	17,336	479,622	81,963
48,196	14,066	50,639	14,828	53,381	0,736	0,7769	0,6007	0,6009	17,366	478,783	81,793
48,138	14,049	50,575	14,81	53,314	0,739	0,7795	0,6027	0,6029	17,422	477,234	81,421
48,181	14,06	50,615	14,821	53,356	0,742	0,7826	0,6051	0,6053	17,493	475,319	80,653
48,206	14,065	50,635	14,827	53,378	0,745	0,7858	0,6076	0,6078	17,563	473,401	79,948
48,198	14,062	50,624	14,824	53,367	0,747	0,788	0,6093	0,6095	17,611	472,108	79,578
48,858	14,269	51,367	15,041	54,148	0,71	0,7488	0,579	0,5792	16,74	496,689	85,909
48,814	14,255	51,317	15,026	54,095	0,712	0,7516	0,5811	0,5813	16,801	494,886	85,35
48,841	14,263	51,347	15,035	54,127	0,711	0,7503	0,5801	0,5803	16,772	495,727	85,57
48,842	14,264	51,352	15,037	54,133	0,709	0,7479	0,5783	0,5785	16,72	497,289	86,171
48,83	14,261	51,34	15,033	54,12	0,708	0,7476	0,578	0,5782	16,712	497,518	86,296
48,842	14,265	51,354	15,037	54,135	0,708	0,7467	0,5774	0,5776	16,694	498,067	86,459
48,861	14,271	51,375	15,043	54,156	0,707	0,7458	0,5767	0,5768	16,673	498,682	86,632
48,874	14,275	51,39	15,048	54,172	0,706	0,7453	0,5763	0,5764	16,661	499,051	86,726
48,836	14,263	51,347	15,035	54,127	0,708	0,7472	0,5777	0,5779	16,703	497,785	86,378
48,851	14,268	51,363	15,04	54,144	0,708	0,7467	0,5774	0,5776	16,694	498,065	86,433
48,877	14,275	51,391	15,048	54,173	0,707	0,7459	0,5767	0,5769	16,674	498,639	86,565
48,889	14,279	51,404	15,052	54,187	0,706	0,7456	0,5765	0,5767	16,668	498,827	86,594
48,883	14,277	51,398	15,05	54,181	0,707	0,7458	0,5767	0,5768	16,672	498,698	86,564
48,884	14,277	51,399	15,05	54,182	0,707	0,7459	0,5768	0,5769	16,675	498,618	86,532
48,856	14,269	51,367	15,041	54,148	0,708	0,7476	0,5781	0,5782	16,713	497,483	86,191
48,783	14,246	51,284	15,017	54,061	0,713	0,752	0,5815	0,5817	16,811	494,581	85,356