

Dispersion Report

Workspace: 72438-1RiempFSRU-2R

Study: Riempimento FSRU-ME7

Equipment Item: 2Ra Compressore BOG HD

72438-1RiempFSRU-2R\Riempimento FSRU-ME7\2Ra Compressore BOG HD

Material	GAS NATURALE	
East	0	m
North	0	m

Scenario (Leak) : 75mm

72438-1RiempFSRU-2R\Riempimento FSRU-ME7\2Ra Compressore BOG HD\75mm

Material to track	GAS NATURALE
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Weather: Category 2/F

Wind speed [m/s]	2
Pasquill stability	F stable - night with moderate clouds and light/moderate wind
Atmospheric temperature [degC]	25
Relative humidity [fraction]	0,75
Solar radiation flux [kW/m2]	0,5
Mixing layer height [m]	100

Observer Release Data and Observer Mass Data

Observer number	Release type	Start time [s]	Start downwind distance [m]	Unit	Masses or mass rates		
					Release	Rainout	Final
1	Continuous	0	0	kg/s	1,36865	0	1,36865
2	Continuous	164,02	0	kg/s	1,36865	0	1,36865

Time-varying Observer Dispersion Data (before along-wind-diffusion effects)

Dispersion data correspond to an averaging time of: 18,75 s

Observer number	Time [s]	Down wind distance [m]	C/Line height [m]	C/Line conc [ppm]	Effective width [m]	Effective depth [m]	C/Line vapour temperature [degC]	C/Line liquid fraction	Centroid velocity [m/s]	C/Line cloud density [kg/m ³]
1	0	0	12,5	999.99 9,37	0,0530 633	0,0263 597	-134,87	0	300	1,6308 2
1	0,01	1,20402	12,5	336.59 4,94	0,2518 3	0,1260 4	-14,3226	0	74,475 4	1,1938
1	0,02	1,82402	12,49 99	246.94 7,85	0,3565 07	0,1784 13	-1,11701	0	53,318 8	1,1770 3
1	0,03	2,30448	12,49 99	204.20 7,07	0,4369 86	0,2186 76	3,93191	0	43,765	1,1742 9
1	0,04	2,71152	12,49 99	177.85 5,11	0,5051 26	0,2527 63	6,8428	0	38,035 4	1,1733 3
1	0,05	3,07193	12,49 98	159.46 7,97	0,5654 32	0,2829 29	8,7421	0	34,107 6	1,1731 3
1	0,06	3,39776	12,49 98	145.73 0,20	0,6199 85	0,3102 15	10,0951	0	31,209 8	1,1732 1
1	0,07	3,6977	12,49 98	134.94 2,69	0,6702 55	0,3353 57	11,1199	0	28,956	1,1734 1
1	0,08	3,97748	12,49 98	126.16 5,61	0,7172 01	0,3588 36	11,9305	0	27,136 1	1,1736 5
1	0,09	4,24087	12,49 97	118.83 6,69	0,7614 55	0,3809 68	12,5918	0	25,625 9	1,1739
1	0,1	4,49047	12,49 97	112.59 5,63	0,8034 53	0,4019 7	13,1441	0	24,346 7	1,1741 5
1	0,11	4,72835	12,49 97	107.19 4,32	0,8435 43	0,4220 17	13,6143	0	23,244 4	1,1743 9
1	0,12	4,95608	12,49 97	102.45 8,54	0,8819 83	0,4412 39	14,0208	0	22,281 8	1,1746 2
1	0,13	5,1745	12,49 96	98.267, 50	0,9189 2	0,4597 09	14,376	0	21,432 8	1,1748 4



1	0,14	5,38478	12,49	94.521,	0,9545	0,4775	14,6901	0	20,676	1,1750
			96	55	48	23			3	5
1	0,15	5,58794	12,49	91.144,	0,9890	0,4947	14,9704	0	19,996	1,1752
			96	47	3	65			1	4
1	0,16	5,7843	12,49	88.083,	1,0224	0,5114	15,2223	0	19,381	1,1754
			95	79	3	63			1	3
1	0,17	5,97452	12,49	85.292,	1,0548	0,5276	15,4501	0	18,821	1,1756
			95	43	5	72			6	
1	0,18	6,15924	12,49	82.731,	1,0864	0,5434	15,6577	0	18,309	1,1757
			94	39		45			2	6
1	0,19	6,33899	12,49	80.369,	1,1171	0,5588	15,8478	0	17,837	1,1759
			94	80	5	22			6	2
1	0,2	6,51421	12,49	78.182,	1,1472	0,5738	16,0228	0	17,401	1,1760
			94	06		41			5	7
1	0,212	6,71941	12,49	75.753,	1,1824	0,5914	16,2158	0	16,918	1,1762
			93	61	4	59			3	3
1	0,226	6,95834	12,49	73.091,	1,2235	0,6120	16,4261	0	16,389	1,1764
	4		92	25	8	25			5	2
1	0,243	7,23571	12,49	70.203,	1,2714	0,6359	16,6524	0	15,817	1,1766
	68		91	44	7	69			2	3
1	0,264	7,55642	12,49	67.107,	1,3270	0,6637	16,8931	0	15,205	1,1768
	416		9	99	5	5			1	6
1	0,289	7,92597	12,49	63.828,	1,3913	0,6958	17,1459	0	14,558	1,1771
	299		88	50	5	93			1	1
1	0,319	8,34981	12,49	60.398,	1,4654	0,7329	17,4081	0	13,883	1,1773
	159		86	36	8	43			2	8
1	0,354	8,83328	12,49	56.857,	1,5505	0,7754	17,6761	0	13,188	1,1776
	991		83	85	7	73			3	7
1	0,397	9,38291	12,49	53.244,	1,6480	0,8241	17,9472	0	12,481	1,1779
	989		78	90	2	81			2	7
1	0,449	10,0065	12,49	49.595,	1,7595	0,8799	18,2184	0	11,768	1,1782
	587		72	46	1	01			8	8
1	0,511	10,7113	12,49	45.950,	1,8867	0,9434	18,4867	0	11,059	1,1786
	504		63	69	7	98			2	
1	0,585	11,5054	12,49	42.347,	2,0318	1,0159	18,7494	0	10,359	1,1789
	805		5	90	1	7			7	2
1	0,674	12,3977	12,49	38.819,	2,1969	1,0985	19,0044	0	9,6764	1,1792
	966		31	79	8	1			9	4



1	0,781 959	13,3989	12,49 04	35.392, 80	2,3851 5	1,1925 3	19,2499	0	9,0144 7	1,1795 6
1	0,910 351	14,5163	12,48 64	32.097, 55	2,5991 1	1,2994 3	19,484	0	8,3793 7	1,1798 7
1	1,064 42	15,7602	12,48 06	28.951, 78	2,8425 5	1,4210 6	19,7056	0	7,7743 3	1,1801 8
1	1,249 31	17,1426	12,47 22	25.967, 44	3,1202 8	1,5598	19,9691	0	7,2013 6	1,1802 8
1	1,471 17	18,678	12,46 01	23.150, 71	3,4393 2	1,7191 8	20,5168	0	6,6613 2	1,1793
1	1,507 42	18,9181	12,45 79	22.750, 14	3,4901 1	1,7445 5	20,5947	0	6,5845 7	1,1791 7
1	1,737 4	20,3648	12,44 28	20.508, 93	3,8048 3	1,9017 6	21,0312	0	6,1552 5	1,1783 9
1	2,056 88	22,2284	12,41 92	18.042, 67	4,2253 5	2,1118 2	21,5123	0	5,6829 2	1,1775 4
1	2,440 26	24,3196	12,38 84	15.755, 85	4,7103 8	2,3541	21,9589	0	5,2448	1,1767 6
1	2,900 31	26,6469	12,34 83	13.646, 90	5,2724	2,6348 3	22,3714	0	4,8401 9	1,1760 4
1	3,452 37	29,2263	12,29 67	11.718, 26	5,9251 7	2,9609	22,7491	0	4,4691 5	1,1753 8
1	4,114 84	32,083	12,23 14	9.970,9 3	6,6847 7	3,3403 3	23,0917	0	4,1314 4	1,1747 8
1	4,909 81	35,2454	12,14 95	8.429,6 8	7,5536	3,7743 5	23,3942	0	3,8313 1	1,1742 6
1	5,863 77	38,7646	12,04 79	7.110,1 6	8,5228 4	4,2585 4	23,6534	0	3,5712 8	1,1738 2
1	7,008 53	42,7086	11,92 26	5.980,5 1	9,6071 2	4,8002 3	23,8754	0	3,3450 5	1,1734 4
1	8,382 23	47,1549	11,76 93	5.007,3 0	10,835 6	5,4140 1	24,0669	0	3,1468 8	1,1731 3
1	9,981 23	52,0511	11,58 87	4.188,0 7	12,205 8	6,0986	24,2281	0	2,9787 3	1,1728 7
2	164,0 2	0	12,5	999.99 9,37	0,0530 633	0,0263 597	-134,87	0	300	1,6308 2
2	164,0	1,20402	12,5	336.59	0,2518	0,1260	-14,3226	0	74,475	1,1938



	3			4,94	3	4			4	
2	164,0	1,82402	12,49	246.94	0,3565	0,1784	-1,11701	0	53,318	1,1770
	4		99	7,85	07	13			8	3
2	164,0	2,30448	12,49	204.20	0,4369	0,2186	3,93191	0	43,765	1,1742
	5		99	7,07	86	76				9
2	164,0	2,71152	12,49	177.85	0,5051	0,2527	6,8428	0	38,035	1,1733
	6		99	5,11	26	63			4	3
2	164,0	3,07193	12,49	159.46	0,5654	0,2829	8,7421	0	34,107	1,1731
	7		98	7,97	32	29			6	3
2	164,0	3,39776	12,49	145.73	0,6199	0,3102	10,0951	0	31,209	1,1732
	8		98	0,20	85	15			8	1
2	164,0	3,6977	12,49	134.94	0,6702	0,3353	11,1199	0	28,956	1,1734
	9		98	2,69	55	57				1
2	164,1	3,97748	12,49	126.16	0,7172	0,3588	11,9305	0	27,136	1,1736
			98	5,61	01	36			1	5
2	164,1	4,24087	12,49	118.83	0,7614	0,3809	12,5918	0	25,625	1,1739
	1		97	6,69	55	68			9	
2	164,1	4,49047	12,49	112.59	0,8034	0,4019	13,1441	0	24,346	1,1741
	2		97	5,63	53	7			7	5
2	164,1	4,72835	12,49	107.19	0,8435	0,4220	13,6143	0	23,244	1,1743
	3		97	4,32	43	17			4	9
2	164,1	4,95608	12,49	102.45	0,8819	0,4412	14,0208	0	22,281	1,1746
	4		97	8,54	83	39			8	2
2	164,1	5,1745	12,49	98.267,	0,9189	0,4597	14,376	0	21,432	1,1748
	5		96	50	2	09			8	4
2	164,1	5,38478	12,49	94.521,	0,9545	0,4775	14,6901	0	20,676	1,1750
	6		96	55	48	23			3	5
2	164,1	5,58794	12,49	91.144,	0,9890	0,4947	14,9704	0	19,996	1,1752
	7		96	47	3	65			1	4
2	164,1	5,7843	12,49	88.083,	1,0224	0,5114	15,2223	0	19,381	1,1754
	8		95	79	3	63			1	3
2	164,1	5,97452	12,49	85.292,	1,0548	0,5276	15,4501	0	18,821	1,1756
	9		95	43	5	72			6	
2	164,2	6,15924	12,49	82.731,	1,0864	0,5434	15,6577	0	18,309	1,1757
			94	39		45			2	6
2	164,2	6,33899	12,49	80.369,	1,1171	0,5588	15,8478	0	17,837	1,1759
	1		94	80	5	22			6	2
2	164,2	6,51421	12,49	78.182,	1,1472	0,5738	16,0228	0	17,401	1,1760



	2		94	06		41			5	7
2	164,2 32	6,71941	12,49 93	75.753, 61	1,1824 4	0,5914 59	16,2158	0	16,918 3	1,1762 3
2	164,2 46	6,95834	12,49 92	73.091, 25	1,2235 8	0,6120 25	16,4261	0	16,389 5	1,1764 2
2	164,2 64	7,23571	12,49 91	70.203, 44	1,2714 7	0,6359 69	16,6524	0	15,817 2	1,1766 3
2	164,2 84	7,55642	12,49 9	67.107, 99	1,3270 5	0,6637 5	16,8931	0	15,205 1	1,1768 6
2	164,3 09	7,92597	12,49 88	63.828, 50	1,3913 5	0,6958 93	17,1459	0	14,558 1	1,1771 1
2	164,3 39	8,34981	12,49 86	60.398, 36	1,4654 8	0,7329 43	17,4081	0	13,883 2	1,1773 8
2	164,3 75	8,83328	12,49 83	56.857, 85	1,5505 7	0,7754 73	17,6761	0	13,188 3	1,1776 7
2	164,4 18	9,38291	12,49 78	53.244, 90	1,6480 2	0,8241 81	17,9472	0	12,481 2	1,1779 7
2	164,4 7	10,0065	12,49 72	49.595, 46	1,7595 1	0,8799 01	18,2184	0	11,768 8	1,1782 8
2	164,5 32	10,7113	12,49 63	45.950, 69	1,8867 7	0,9434 98	18,4867	0	11,059 2	1,1786
2	164,6 06	11,5054	12,49 5	42.347, 90	2,0318 1	1,0159 7	18,7494	0	10,359 7	1,1789 2
2	164,6 95	12,3977	12,49 31	38.819, 79	2,1969 8	1,0985 1	19,0044	0	9,6764 9	1,1792 4
2	164,8 02	13,3989	12,49 04	35.392, 80	2,3851 5	1,1925 3	19,2499	0	9,0144 7	1,1795 6
2	164,9 3	14,5163	12,48 64	32.097, 55	2,5991 1	1,2994 3	19,484	0	8,3793 7	1,1798 7
2	165,0 84	15,7602	12,48 06	28.951, 78	2,8425 5	1,4210 6	19,7056	0	7,7743 3	1,1801 8
2	165,2 69	17,1426	12,47 22	25.967, 44	3,1202 8	1,5598	19,9691	0	7,2013 6	1,1802 8
2	165,4 91	18,678	12,46 01	23.150, 71	3,4393 2	1,7191 8	20,5168	0	6,6613 2	1,1793
2	165,5 27	18,9181	12,45 79	22.750, 14	3,4901 1	1,7445 5	20,5947	0	6,5845 7	1,1791 7
2	165,7	20,3648	12,44	20.508,	3,8048	1,9017	21,0312	0	6,1552	1,1783



	57		28	93	3	6			5	9
2	166,0 77	22,2284	12,41 92	18.042, 67	4,2253 5	2,1118 2	21,5123	0	5,6829 2	1,1775 4
2	166,4 6	24,3196	12,38 84	15.755, 85	4,7103 8	2,3541	21,9589	0	5,2448	1,1767 6
2	166,9 2	26,6469	12,34 83	13.646, 90	5,2724	2,6348 3	22,3714	0	4,8401 9	1,1760 4
2	167,4 72	29,2263	12,29 67	11.718, 26	5,9251 7	2,9609	22,7491	0	4,4691 5	1,1753 8
2	168,1 35	32,083	12,23 14	9.970,9 3	6,6847 7	3,3403 3	23,0917	0	4,1314 4	1,1747 8
2	168,9 3	35,2454	12,14 95	8.429,6 8	7,5536	3,7743 5	23,3942	0	3,8313 1	1,1742 6
2	169,8 84	38,7646	12,04 79	7.110,1 6	8,5228 4	4,2585 4	23,6534	0	3,5712 8	1,1738 2
2	171,0 29	42,7086	11,92 26	5.980,5 1	9,6071 2	4,8002 3	23,8754	0	3,3450 5	1,1734 4
2	172,4 02	47,1549	11,76 93	5.007,3 0	10,835 6	5,4140 1	24,0669	0	3,1468 8	1,1731 3
2	174,0 01	52,0511	11,58 87	4.188,0 7	12,205 8	6,0986	24,2281	0	2,9787 3	1,1728 7

Weather: Category 5/D

Wind speed [m/s]	5
Pasquill stability	D neutral - little sun and high wind or overcast/windy night
Atmospheric temperature [degC]	25
Relative humidity [fraction]	0,75
Solar radiation flux [kW/m2]	0,5
Mixing layer height [m]	800

Observer Release Data and Observer Mass Data

Observer number	Release type	Start time [s]	Start downwind distance [m]	Unit	Masses or mass rates		
					Release	Rainout	Final
1	Continuous	0	0	kg/s	1,36865	0	1,36865
2	Continuous	164,02	0	kg/s	1,36865	0	1,36865

Time-varying Observer Dispersion Data (before along-wind-diffusion effects)

Dispersion data correspond to an averaging time of: 18,75 s

Observer number	Time [s]	Down wind distance [m]	C/Li ne height [m]	C/Li ne conc [ppm]	Effect ive width [m]	Effect ive depth [m]	C/Line vapour temperature [degC]	C/Li ne liqui d fracti on	Centr oid veloci ty [m/s]	C/Lin e cloud densi ty [kg/m3]
1	0	0	12,5	999.99 9,37	0,0530 912	0,0263 458	-134,87	0	300	1,6308 2
1	0,01	1,21737	12,5	333.12 4,86	0,2509 55	0,1254 8	-14,0348	0	75,942	1,1941 8
1	0,02	1,85198	12,49 99	242.15 2,62	0,3556 53	0,1778 26	-0,759549	0	54,766 2	1,1776 7
1	0,03	2,34745	12,49	198.64	0,4366	0,2183	4,33415	0	45,181	1,1750



			99	5,05	06	03			3	5
1	0,04	2,76989	12,49 99	171.75 4,44	0,5055 42	0,2527 71	7,26484	0	39,421 6	1,1742
1	0,05	3,14414	12,49 98	153.03 1,44	0,5666 23	0,2833 12	9,17091	0	35,482 8	1,1740 9
1	0,06	3,48344	12,49 98	139.03 0,49	0,6220 92	0,3110 46	10,529	0	32,574 9	1,1742 5
1	0,07	3,79693	12,49 98	128.01 9,52	0,6734 42	0,3367 21	11,5588	0	30,310 2	1,1745
1	0,08	4,08986	12,49 98	119.06 1,75	0,7215 4	0,3607 7	12,3729	0	28,482	1,1747 9
1	0,09	4,3662	12,49 97	111.58 0,07	0,7670 32	0,3835 16	13,037	0	26,964 7	1,1750 8
1	0,1	4,6287	12,49 97	105.20 5,14	0,8103 61	0,4051 81	13,5919	0	25,678 8	1,1753 6
1	0,11	4,87935	12,49 97	99.687, 34	0,8518 52	0,4259 26	14,0643	0	24,570 8	1,1756 3
1	0,12	5,11979	12,49 97	94.847, 93	0,8917 69	0,4458 85	14,4726	0	23,602 8	1,1758 9
1	0,13	5,3512	12,49 96	90.558, 63	0,9303 01	0,4651 51	14,83	0	22,747 9	1,1761 4
1	0,14	5,57457	12,49 96	86.722, 25	0,9676 08	0,4838 05	15,1461	0	21,985 7	1,1763 6
1	0,15	5,79069	12,49 96	83.264, 56	1,0038 2	0,5019 1	15,4282	0	21,300 6	1,1765 8
1	0,16	6,00013	12,49 95	80.128, 11	1,0390 3	0,5195 16	15,6817	0	20,680 7	1,1767 8
1	0,17	6,20362	12,49 95	77.264, 86	1,0733 5	0,5366 76	15,9114	0	20,116 1	1,1769 7
1	0,18	6,40162	12,49 94	74.637, 53	1,1068 6	0,5534 29	16,1205	0	19,599	1,1771 5
1	0,19	6,59481	12,49 94	72.213, 39	1,1396 5	0,5698 24	16,3122	0	19,122 9	1,1773 2
1	0,2	6,78351	12,49 93	69.967, 92	1,1717 7	0,5858 85	16,4886	0	18,682 7	1,1774 9
1	0,212	7,00432	12,49 93	67.481, 17	1,2094 9	0,6047 46	16,6827	0	18,196	1,1776 7
1	0,226	7,26217	12,49	64.754,	1,2537	0,6268	16,8942	0	17,663	1,1778



	4		92	22	1	56			4	7
1	0,243 68	7,56203	12,49 91	61.799, 33	1,3053 8	0,6526 93	17,1216	0	17,087 4	1,1781
1	0,264 416	7,9096	12,49 9	58.634, 74	1,3656 2	0,6828 13	17,3631	0	16,472 1	1,1783 5
1	0,289 299	8,31119	12,49 88	55.286, 39	1,4356 9	0,7178 44	17,6166	0	15,822 5	1,1786 2
1	0,319 159	8,77387	12,49 85	51.786, 61	1,5170 2	0,7585 1	17,8791	0	15,145 4	1,1789 1
1	0,354 991	9,30496	12,49 82	48.175, 29	1,6112 2	0,8056 1	18,1475	0	14,448 5	1,1792 2
1	0,397 989	9,91142	12,49 77	44.499, 17	1,7200 1	0,8600 09	18,4182	0	13,741 1	1,1795 3
1	0,449 587	10,6022	12,49 7	40.801, 14	1,8455 6	0,9227 82	18,6879	0	13,031 4	1,1798 6
1	0,511 504	11,3868	12,49 61	37.125, 04	1,9903 1	0,9951 58	18,9535	0	12,327 8	1,1802
1	0,585 805	12,2764	12,49 47	33.510, 96	2,1572 4	1,0786 2	19,2122	0	11,637 9	1,1805 4
1	0,674 966	13,2842	12,49 28	29.995, 73	2,3498 9	1,1749 5	19,4616	0	10,968 5	1,1808 7
1	0,781 959	14,4233	12,49	26.614, 20	2,5723 9	1,2862	19,6994	0	10,326 2	1,1812
1	0,910 351	15,7085	12,48 6	23.395, 24	2,8314	1,4157	20,2981	0	9,7161 5	1,1801 8
1	0,940 041	15,995	12,48 49	22.750, 14	2,8901	1,4450 5	20,4235	0	9,5940 4	1,1799 6
1	1,064 42	17,1596	12,48 04	20.361, 14	3,1320 1	1,5660 1	20,8884	0	9,1422 2	1,1791 3
1	1,249 31	18,8019	12,47 3	17.530, 86	3,4818 7	1,7409 4	21,44	0	8,6077 4	1,1781 6
1	1,471 17	20,6627	12,46 33	14.920, 67	3,8903 1	1,9451 6	21,9496	0	8,1154 7	1,1772 6
1	1,737 4	22,7729	12,45 1	12.543, 01	4,3686 9	2,1843 5	22,4145	0	7,6674 6	1,1764 4
1	2,056 88	25,1641	12,43 56	10.406, 28	4,9308 5	2,4654 3	22,833	0	7,2649 7	1,1757
1	2,440	27,8837	12,41	8.511,5	5,5947	2,7973	23,2045	0	6,9079	1,1750



	26		67	2	5	8			5	5
1	2,615 08	29,0797	12,40 8	7.818,1 3	5,8949 8	2,9474 9	23,3407	0	6,7772	1,1748 1
2	164,0 2	0	12,5	999.99 9,37	0,0530 912	0,0263 458	-134,87	0	300	1,6308 2
2	164,0 3	1,21737	12,5	333.12 4,86	0,2509 55	0,1254 8	-14,0348	0	75,942	1,1941 8
2	164,0 4	1,85198	12,49 99	242.15 2,62	0,3556 53	0,1778 26	-0,759549	0	54,766 2	1,1776 7
2	164,0 5	2,34745	12,49 99	198.64 5,05	0,4366 06	0,2183 03	4,33415	0	45,181 3	1,1750 5
2	164,0 6	2,76989	12,49 99	171.75 4,44	0,5055 42	0,2527 71	7,26484	0	39,421 6	1,1742 6
2	164,0 7	3,14414	12,49 98	153.03 1,44	0,5666 23	0,2833 12	9,17091	0	35,482 8	1,1740 9
2	164,0 8	3,48344	12,49 98	139.03 0,49	0,6220 92	0,3110 46	10,529	0	32,574 9	1,1742 5
2	164,0 9	3,79693	12,49 98	128.01 9,52	0,6734 42	0,3367 21	11,5588	0	30,310 2	1,1745 2
2	164,1	4,08986	12,49 98	119.06 1,75	0,7215 4	0,3607 7	12,3729	0	28,482	1,1747 9
2	164,1 1	4,3662	12,49 97	111.58 0,07	0,7670 32	0,3835 16	13,037	0	26,964 7	1,1750 8
2	164,1 2	4,6287	12,49 97	105.20 5,14	0,8103 61	0,4051 81	13,5919	0	25,678 8	1,1753 6
2	164,1 3	4,87935	12,49 97	99.687, 34	0,8518 52	0,4259 26	14,0643	0	24,570 8	1,1756 3
2	164,1 4	5,11979	12,49 97	94.847, 93	0,8917 69	0,4458 85	14,4726	0	23,602 8	1,1758 9
2	164,1 5	5,3512	12,49 96	90.558, 63	0,9303 01	0,4651 51	14,83	0	22,747 9	1,1761 4
2	164,1 6	5,57457	12,49 96	86.722, 25	0,9676 08	0,4838 05	15,1461	0	21,985 7	1,1763 6
2	164,1 7	5,79069	12,49 96	83.264, 56	1,0038 2	0,5019 1	15,4282	0	21,300 6	1,1765 8
2	164,1 8	6,00013	12,49 95	80.128, 11	1,0390 3	0,5195 16	15,6817	0	20,680 7	1,1767 8



2	164,1 9	6,20362	12,49 95	77.264, 86	1,0733 5	0,5366 76	15,9114	0	20,116 1	1,1769 7
2	164,2	6,40162	12,49 94	74.637, 53	1,1068 6	0,5534 29	16,1205	0	19,599	1,1771 5
2	164,2 1	6,59481	12,49 94	72.213, 39	1,1396 5	0,5698 24	16,3122	0	19,122 9	1,1773 2
2	164,2 2	6,78351	12,49 93	69.967, 92	1,1717 7	0,5858 85	16,4886	0	18,682 7	1,1774 9
2	164,2 32	7,00432	12,49 93	67.481, 17	1,2094 9	0,6047 46	16,6827	0	18,196	1,1776 7
2	164,2 46	7,26217	12,49 92	64.754, 22	1,2537 1	0,6268 56	16,8942	0	17,663 4	1,1778 7
2	164,2 64	7,56203	12,49 91	61.799, 33	1,3053 8	0,6526 93	17,1216	0	17,087 4	1,1781
2	164,2 84	7,9096	12,49 9	58.634, 74	1,3656 2	0,6828 13	17,3631	0	16,472 1	1,1783 5
2	164,3 09	8,31119	12,49 88	55.286, 39	1,4356 9	0,7178 44	17,6166	0	15,822 5	1,1786 2
2	164,3 39	8,77387	12,49 85	51.786, 61	1,5170 2	0,7585 1	17,8791	0	15,145 4	1,1789 1
2	164,3 75	9,30496	12,49 82	48.175, 29	1,6112 2	0,8056 1	18,1475	0	14,448 5	1,1792 2
2	164,4 18	9,91142	12,49 77	44.499, 17	1,7200 1	0,8600 09	18,4182	0	13,741 1	1,1795 3
2	164,4 7	10,6022	12,49 7	40.801, 14	1,8455 6	0,9227 82	18,6879	0	13,031 4	1,1798 6
2	164,5 32	11,3868	12,49 61	37.125, 04	1,9903 1	0,9951 58	18,9535	0	12,327 8	1,1802
2	164,6 06	12,2764	12,49 47	33.510, 96	2,1572 4	1,0786 2	19,2122	0	11,637 9	1,1805 4
2	164,6 95	13,2842	12,49 28	29.995, 73	2,3498 9	1,1749 5	19,4616	0	10,968 5	1,1808 7
2	164,8 02	14,4233	12,49	26.614, 20	2,5723 9	1,2862	19,6994	0	10,326 2	1,1812
2	164,9 3	15,7085	12,48 6	23.395, 24	2,8314	1,4157	20,2981	0	9,7161 5	1,1801 8
2	164,9 6	15,995	12,48 49	22.750, 14	2,8901	1,4450 5	20,4235	0	9,5940 4	1,1799 6



2	165,084	17,1596	12,4804	20.361,14	3,13201	1,56601	20,8884	0	9,14222	1,17913
2	165,269	18,8019	12,473	17.530,86	3,48187	1,74094	21,44	0	8,60774	1,17816
2	165,491	20,6627	12,4633	14.920,67	3,89031	1,94516	21,9496	0	8,11547	1,17726
2	165,757	22,7729	12,451	12.543,01	4,36869	2,18435	22,4145	0	7,66746	1,17644
2	166,077	25,1641	12,4356	10.406,28	4,93085	2,46543	22,833	0	7,26497	1,1757
2	166,46	27,8837	12,4167	8.511,52	5,59475	2,79738	23,2045	0	6,90795	1,17505
2	166,635	29,0797	12,408	7.818,13	5,89498	2,94749	23,3407	0	6,7772	1,17481

