

## MAM Report | Image name: P001

### morphology

	Feature Name	Value	Unit	Feature details
1	area	138.4403	mm^2	MORPH,--,MAM,--,LIN:--,S:--,RS:--
2	perimeter	47.859	mm	MORPH,--,MAM,--,LIN:--,S:--,RS:--
3	perimeter to area ratio	0.3457	--	MORPH,--,MAM,--,LIN:--,S:--,RS:--
4	compactness	0.75953	--	MORPH,--,MAM,--,LIN:--,S:--,RS:--
5	circularity	0.87151	--	MORPH,--,MAM,--,LIN:--,S:--,RS:--
6	acircularity	0.14743	--	MORPH,--,MAM,--,LIN:--,S:--,RS:--
7	center of mass shift	0.57568	mm	MORPH,--,MAM,--,LIN:--,S:--,RS:--
8	maximum diameter	15.9612	mm	MORPH,--,MAM,--,LIN:--,S:--,RS:--
9	area density aabb	70.8454	--	MORPH,--,MAM,--,LIN:--,S:--,RS:--
10	perimeter density aabb	0.84851	--	MORPH,--,MAM,--,LIN:--,S:--,RS:--

### intensity-based statistics

	Feature Name	Value	Unit	Feature details
11	mean	455.254	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--
12	variance	2891.09	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--
13	skewness	0.69142	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--
14	kurtosis	1.8791	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--
15	median	452	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--
16	minimum	339	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--
17	10th percentile	385	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--
18	90th percentile	524	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--
19	maximum	698	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--
20	Interquartile range	70	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--
21	range	359	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--
22	Mean absolut deviation	41.4749	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--
23	Robust mean absolute deviation	28.467	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--
24	Median absolute deviation	41.3551	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--
25	Coefficient of variation	0.11811	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--
26	Quartile coefficient	0.077263	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--
27	Energy	29000200	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--
28	Root mean	458.418	--	STAT,--,MAM,--,LIN:2,S:1mm,RS:--

### intensity histogram

	Feature Name	Value	Unit	Feature details
29	mean	21.2246	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
30	variance	91.4061	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
31	skewness	0.68061	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
32	kurtosis	1.8183	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
33	median	21	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
34	10th percentile	9	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
35	90th percentile	33	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
36	maximum	64	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
37	mode	12	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
38	range	63	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
39	mean absolut deviation	7.3713	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
40	robust mean absolute deviation	5.2318	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
41	median absolut deviation	7.3551	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
42	coefficient of variation	0.45045	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
43	entropy	4.9959	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
44	uniformity	0.036232	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
45	energy	74781	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
46	maximum histogram gradient	2.5	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
47	maximum histogram gradient grey level	22	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
48	minimum histogram gradient	-4	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--
49	minimum histogram gradient grey level	24	--	IH,--,MAM,FBN:64,LIN:2,S:1mm,RS:--

*grey-level co-occurrence matrix*

	Feature Name	Value	Unit	Feature details
50	joint maximum	0.013398	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
51	joint average	21.7501	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
52	joint variance	88.7545	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
53	joint entropy	7.5908	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
54	difference average	8.6175	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
55	difference variance	52.8427	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
56	difference entropy	4.3208	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
57	sum average	43.5003	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
58	sum variance	226.194	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
59	sum entropy	5.4116	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
60	angular second moment	0.0056005	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
61	contrast	128.824	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
62	dissimilarity	8.6175	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
63	inverse difference	0.2063	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
64	inverse difference normalised	0.8894	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
65	inverse difference moment	0.12108	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
66	inverse difference moment normalised	0.97204	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
67	inverse variance	0.11151	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
68	correlation	0.27011	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
69	autocorrelation	497.509	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
70	cluster tendency	226.194	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
71	cluster shade	1141.34	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
72	cluster prominence	193758	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
73	first measure of information correlation	-0.4694	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
74	second measure of information correlation	0.99518	--	CM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
75	joint maximum	0.013398	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
76	joint average	21.7501	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
77	joint variance	88.7545	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
78	joint entropy	7.5908	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
79	difference average	8.6175	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
80	difference variance	52.8427	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
81	difference entropy	4.3208	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
82	sum average	43.5003	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
83	sum variance	226.194	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
84	sum entropy	5.4116	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
85	angular second moment	0.0056005	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
86	contrast	128.824	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
87	dissimilarity	8.6175	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
88	inverse difference	0.2063	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
89	inverse difference normalised	0.8894	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
90	inverse difference moment	0.12108	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
91	inverse difference moment normalised	0.97204	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
92	inverse variance	0.11151	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
93	correlation	0.27011	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
94	autocorrelation	497.509	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
95	cluster tendency	226.194	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
96	cluster shade	1141.34	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
97	cluster prominence	193758	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
98	first measure of information correlation	-0.4694	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
99	second measure of information correlation	0.99518	--	CM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
100	joint maximum	0.0082645	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
101	joint average	21.7428	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
102	joint variance	88.8935	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
103	joint entropy	8.9043	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
104	difference average	8.5847	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
105	difference variance	54.3585	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
106	difference entropy	4.4842	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
107	sum average	43.4855	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
108	sum variance	227.518	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
109	sum entropy	5.7844	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
110	angular second moment	0.0025272	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
111	contrast	128.056	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
112	dissimilarity	8.5847	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
113	inverse difference	0.20706	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
114	inverse difference normalised	0.88978	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--

115	inverse difference moment	0.12177	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
116	inverse difference moment normalised	0.9722	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
117	inverse variance	0.1121	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
118	correlation	0.27972	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
119	autocorrelation	497.614	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
120	cluster tendency	227.518	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
121	cluster shade	1088.81	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
122	cluster prominence	195718	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
123	first measure of information correlation	-0.20657	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
124	second measure of information correlation	0.9335	--	CM,2D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
125	joint maximum	0.0082645	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
126	joint average	21.7428	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
127	joint variance	88.8935	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
128	joint entropy	8.9043	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
129	difference average	8.5847	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
130	difference variance	54.3585	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
131	difference entropy	4.4842	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
132	sum average	43.4855	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
133	sum variance	227.518	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
134	sum entropy	5.7844	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
135	angular second moment	0.0025272	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
136	contrast	128.056	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
137	dissimilarity	8.5847	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
138	inverse difference	0.20706	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
139	inverse difference normalised	0.88978	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
140	inverse difference moment	0.12177	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
141	inverse difference moment normalised	0.9722	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
142	inverse variance	0.1121	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
143	correlation	0.27972	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
144	autocorrelation	497.614	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
145	cluster tendency	227.518	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
146	cluster shade	1088.81	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
147	cluster prominence	195718	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
148	first measure of information correlation	-0.20657	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
149	second measure of information correlation	0.9335	--	CM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--

#### grey-level run length matrix

	Feature Name	Value	Unit	Feature details
150	short run emphasis	0.96693	--	RLM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
151	long runs emphasis	1.1409	--	RLM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
152	Low grey level run emphasis	0.013469	--	RLM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
153	High grey level run emphasis	548.88	--	RLM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
154	Short run low grey level emphasis	0.013292	--	RLM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
155	Short run high grey level emphasis	536.084	--	RLM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
156	Long run low grey level emphasis	0.014199	--	RLM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
157	Long run high grey level emphasis	603.862	--	RLM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
158	Grey level non uniformity	4.7684	--	RLM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
159	Grey level non uniformity normalized	0.036127	--	RLM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
160	Run length non uniformity	121.011	--	RLM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
161	Run length non uniformity normalized	0.91644	--	RLM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
162	Run percentage	0.95652	--	RLM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
163	Grey level variance	93.156	--	RLM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
164	Run length variance	0.047233	--	RLM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
165	Run entropy	5.1351	--	RLM,2D:avg,MAM,FBN:64,LIN:2,S:1mm,RS:--
166	short run emphasis	0.96693	--	RLM,2.5D:dmg,MAM,FBN:64,LIN:2,S:1mm,RS:--
167	long runs emphasis	1.1409	--	RLM,2.5D:dmg,MAM,FBN:64,LIN:2,S:1mm,RS:--
168	Low grey level run emphasis	0.013469	--	RLM,2.5D:dmg,MAM,FBN:64,LIN:2,S:1mm,RS:--
169	High grey level run emphasis	548.88	--	RLM,2.5D:dmg,MAM,FBN:64,LIN:2,S:1mm,RS:--
170	Short run low grey level emphasis	0.013292	--	RLM,2.5D:dmg,MAM,FBN:64,LIN:2,S:1mm,RS:--
171	Short run high grey level emphasis	536.084	--	RLM,2.5D:dmg,MAM,FBN:64,LIN:2,S:1mm,RS:--
172	Long run low grey level emphasis	0.014199	--	RLM,2.5D:dmg,MAM,FBN:64,LIN:2,S:1mm,RS:--
173	Long run high grey level emphasis	603.862	--	RLM,2.5D:dmg,MAM,FBN:64,LIN:2,S:1mm,RS:--
174	Grey level non uniformity	4.7684	--	RLM,2.5D:dmg,MAM,FBN:64,LIN:2,S:1mm,RS:--
175	Grey level non uniformity normalized	0.036127	--	RLM,2.5D:dmg,MAM,FBN:64,LIN:2,S:1mm,RS:--
176	Run length non uniformity	121.011	--	RLM,2.5D:dmg,MAM,FBN:64,LIN:2,S:1mm,RS:--
177	Run length non uniformity normalized	0.91644	--	RLM,2.5D:dmg,MAM,FBN:64,LIN:2,S:1mm,RS:--
178	Run percentage	0.95652	--	RLM,2.5D:dmg,MAM,FBN:64,LIN:2,S:1mm,RS:--
179	Grey level variance	93.156	--	RLM,2.5D:dmg,MAM,FBN:64,LIN:2,S:1mm,RS:--

180	Run length variance	0.047233	--	RLM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
181	Run entropy	5.1351	--	RLM,2.5D:dmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
182	short run emphasis	0.96707	--	RLM,2.5D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
183	long runs emphasis	1.1401	--	RLM,2.5D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
184	Low grey level run emphasis	0.013468	--	RLM,2.5D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
185	High grey level run emphasis	548.828	--	RLM,2.5D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
186	Short run low grey level emphasis	0.013291	--	RLM,2.5D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
187	Short run high grey level emphasis	536.067	--	RLM,2.5D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
188	Long run low grey level emphasis	0.014194	--	RLM,2.5D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
189	Long run high grey level emphasis	603.583	--	RLM,2.5D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
190	Grey level non uniformity	18.9848	--	RLM,2.5D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
191	Grey level non uniformity normalized	0.035956	--	RLM,2.5D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
192	Run length non uniformity	483.92	--	RLM,2.5D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
193	Run length non uniformity normalized	0.91652	--	RLM,2.5D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
194	Run percentage	0.95652	--	RLM,2.5D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
195	Grey level variance	93.1507	--	RLM,2.5D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
196	Run length variance	0.047176	--	RLM,2.5D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
197	Run entropy	5.2032	--	RLM,2.5D:mrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
198	short run emphasis	0.96707	--	RLM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
199	long runs emphasis	1.1401	--	RLM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
200	Low grey level run emphasis	0.013468	--	RLM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
201	High grey level run emphasis	548.828	--	RLM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
202	Short run low grey level emphasis	0.013291	--	RLM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
203	Short run high grey level emphasis	536.067	--	RLM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
204	Long run low grey level emphasis	0.014194	--	RLM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
205	Long run high grey level emphasis	603.583	--	RLM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
206	Grey level non uniformity	18.9848	--	RLM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
207	Grey level non uniformity normalized	0.035956	--	RLM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
208	Run length non uniformity	483.92	--	RLM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
209	Run length non uniformity normalized	0.91652	--	RLM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
210	Run percentage	0.95652	--	RLM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
211	Grey level variance	49183.6	--	RLM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
212	Run length variance	24.9091	--	RLM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--
213	Run entropy	-2028.14	--	RLM,2.5D:vmrg,MAM,FBN:64,LIN:2,S:1mm,RS:--

#### grey-level size zone matrix

	Feature Name	Value	Unit	Feature details
214	small zone emphasis	0.89227	--	SZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
215	large zone emphasis	1.641	--	SZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
216	low grey level zone emphasis	0.014511	--	SZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
217	high grey level zone emphasis	567.786	--	SZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
218	small zone low grey level emphasis	0.013894	--	SZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
219	small zone high grey level emphasis	525.803	--	SZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
220	large zone low grey level emphasis	0.017714	--	SZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
221	large zone high grey level emphasis	829.513	--	SZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
222	grey level non uniformity glszm	4.2308	--	SZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
223	grey level non uniformity normalized glszm	0.03616	--	SZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
224	zone size non uniformity	88.5043	--	SZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
225	zone size non uniformity normalized	0.75645	--	SZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
226	zone percentage glszm	0.84783	--	SZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
227	grey level variance glszm	98.3419	--	SZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
228	zone size variance	0.24984	--	SZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
229	zone size entropy	5.3331	--	SZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
230	small zone emphasis	0.89227	--	SZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
231	large zone emphasis	1.641	--	SZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
232	low grey level zone emphasis	0.014511	--	SZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
233	high grey level zone emphasis	567.786	--	SZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
234	small zone low grey level emphasis	0.013894	--	SZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
235	small zone high grey level emphasis	525.803	--	SZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
236	large zone low grey level emphasis	0.017714	--	SZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
237	large zone high grey level emphasis	829.513	--	SZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
238	grey level non uniformity glszm	4.2308	--	SZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
239	grey level non uniformity normalized glszm	0.03616	--	SZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
240	zone size non uniformity	88.5043	--	SZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
241	zone size non uniformity normalized	0.75645	--	SZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
242	zone percentage glszm	0.84783	--	SZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
243	grey level variance glszm	98.3419	--	SZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
244	zone size variance	0.24984	--	SZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
245	zone size entropy	5.3331	--	SZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--

### neighbourhood grey tone difference matrix

	Feature Name	Value	Unit	Feature details
246	coarseness	0.042055	--	TDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
247	contrast	0.71356	--	TDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
248	busyness	0.034918	--	TDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
249	complexity	3629.22	--	TDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
250	strength	26.238	--	TDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
251	coarseness	0.042055	--	TDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
252	contrast	0.71356	--	TDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
253	busyness	0.034918	--	TDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
254	complexity	3629.22	--	TDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
255	strength	26.238	--	TDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--

### grey-level distance zone matrix

	Feature Name	Value	Unit	Feature details
256	small distance emphasis gldzm	0.41418	--	DZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
257	large distance emphasis gldzm	7.9316	--	DZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
258	low grey level zone emphasis gldzm	0.014511	--	DZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
259	high grey level zone emphasis gldzm	567.786	--	DZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
260	small distance high grey level emphasis gldzm	181.597	--	DZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
261	large distance low grey level emphasis gldzm	0.032336	--	DZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
262	large distance high grey level emphasis gldzm	5387.58	--	DZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
263	grey level non uniformity gldzm	4.2308	--	DZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
264	grey level non uniformity normalized gldzm	0.03616	--	DZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
265	zone distance non uniformity gldzm	26.7265	--	DZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
266	zone distance non uniformity normalized gldzm	0.22843	--	DZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
267	zone percentage gldzm	0.84783	--	DZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
268	grey level variance gldzm	98.3419	--	DZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
269	zone distance variance gldzm	1.8724	--	DZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
270	zone distance entropy gldzm	6.383	--	DZM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
271	small distance emphasis gldzm	0.41418	--	DZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
272	large distance emphasis gldzm	7.9316	--	DZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
273	low grey level zone emphasis gldzm	0.014511	--	DZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
274	high grey level zone emphasis gldzm	567.786	--	DZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
275	small distance high grey level emphasis gldzm	181.597	--	DZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
276	large distance low grey level emphasis gldzm	0.032336	--	DZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
277	large distance high grey level emphasis gldzm	5387.58	--	DZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
278	grey level non uniformity gldzm	4.2308	--	DZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
279	grey level non uniformity normalized gldzm	0.03616	--	DZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
280	zone distance non uniformity gldzm	26.7265	--	DZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
281	zone distance non uniformity normalized gldzm	0.22843	--	DZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
282	zone percentage gldzm	0.21196	--	DZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
283	grey level variance gldzm	98.3419	--	DZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
284	zone distance variance gldzm	1.8724	--	DZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
285	zone distance entropy gldzm	6.383	--	DZM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--

### neighbouring grey level dependence matrix

	Feature Name	Value	Unit	Feature details
286	low dependence emphasis	0.7885	--	LDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
287	high dependence emphasis	2.2174	--	LDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
288	low grey level count emphasis	0.013111	--	LDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
289	high grey level count emphasis	541.891	--	LDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
290	low dependence low grey level emphasis	0.011952	--	LDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
291	low dependence high grey level emphasis	458.918	--	LDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
292	high dependence low grey level emphasis	0.019327	--	LDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
293	high dependence high grey level emphasis	1017.27	--	LDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
294	grey level non uniformity	5	--	LDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
295	grey level non uniformity normalized	0.036232	--	LDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
296	dependence count non uniformity	79.7971	--	LDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
297	dependence count non uniformity normalized	0.57824	--	LDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
298	dependence count percentage	1	--	LDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
299	grey level variance	91.4061	--	LDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--

300	dependence count variance	0.40076	--	LDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
301	dependence count entropy	5.4989	--	LDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
302	dependence count energy	0.02594	--	LDM,2D,MAM,FBN:64,LIN:2,S:1mm,RS:--
303	low dependence emphasis	0.7885	--	LDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
304	high dependence emphasis	2.2174	--	LDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
305	low grey level count emphasis	0.013111	--	LDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
306	high grey level count emphasis	541.891	--	LDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
307	low dependence low grey level emphasis	0.011952	--	LDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
308	low dependence high grey level emphasis	458.918	--	LDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
309	high dependence low grey level emphasis	0.019327	--	LDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
310	high dependence high grey level emphasis	1017.27	--	LDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
311	grey level non uniformity	5	--	LDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
312	grey level non uniformity normalized	0.036232	--	LDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
313	dependence count non uniformity	79.7971	--	LDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
314	dependence count non uniformity normalized	0.57824	--	LDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
315	dependence count percentage	1	--	LDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
316	grey level variance	91.4061	--	LDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
317	dependence count variance	0.40076	--	LDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
318	dependence count entropy	5.4989	--	LDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--
319	dependence count energy	0.02594	--	LDM,2.5D,MAM,FBN:64,LIN:2,S:1mm,RS:--