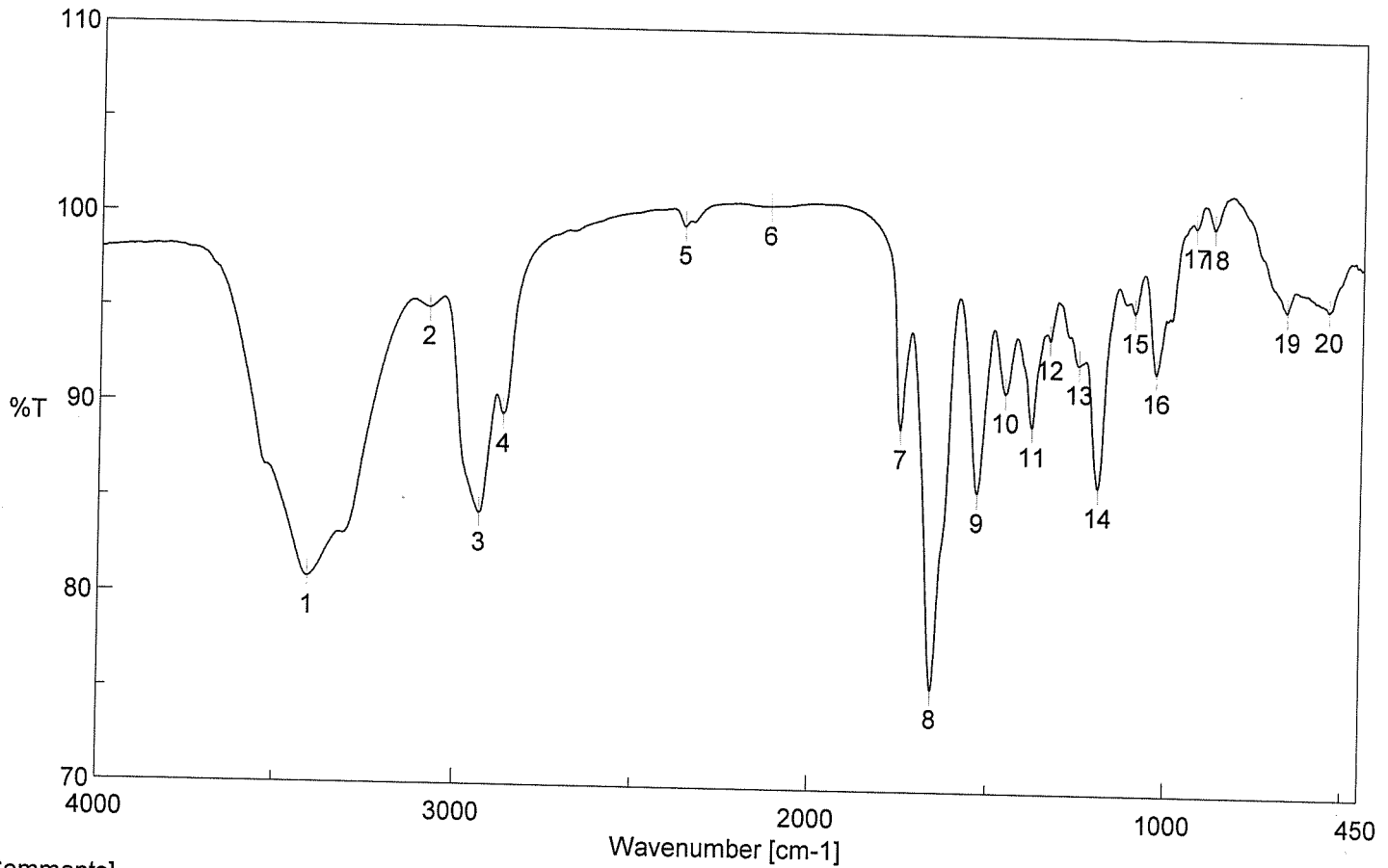


# Peak Find - Memory-159

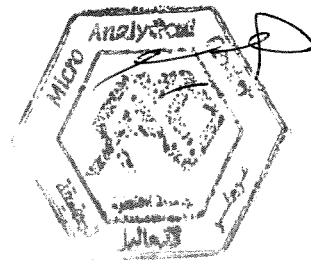


## [Comments]

Sample name SH-5 = 1  
 Comment 24/1/2017  
 User IR  
 Division R  
 Company MAC

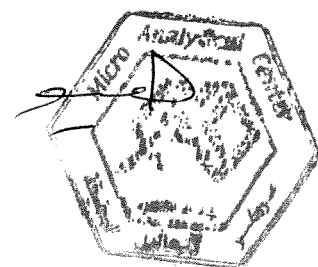
## [ Result of Peak Picking ]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3408.57	80.8431	2	3077.83	95.0902	✓ 3	2933.2	84.2776
4	2868.59	89.4869	5	2362.37	99.5843	✓ 6	2121.31	100.718
✓ 7	1752.01	89.0348	✓ 8	1659.45	75.4322	✓ 9	1535.06	85.7779
10	1457.92	91.052	✓ 11	1382.71	89.285	✓ 12	1334.5	93.9198
13	1252.54	92.6249	14	1195.65	86.168	15	1095.37	95.4245
16	1032.69	92.2318	17	924.7	99.9888	18	872.631	99.938
19	667.25	95.6271	20	547.685	95.6957			



# Cairo University Micro Analytical Center

## DI Analysis Shimadzu Qp-2010 Plus



### Sample Information

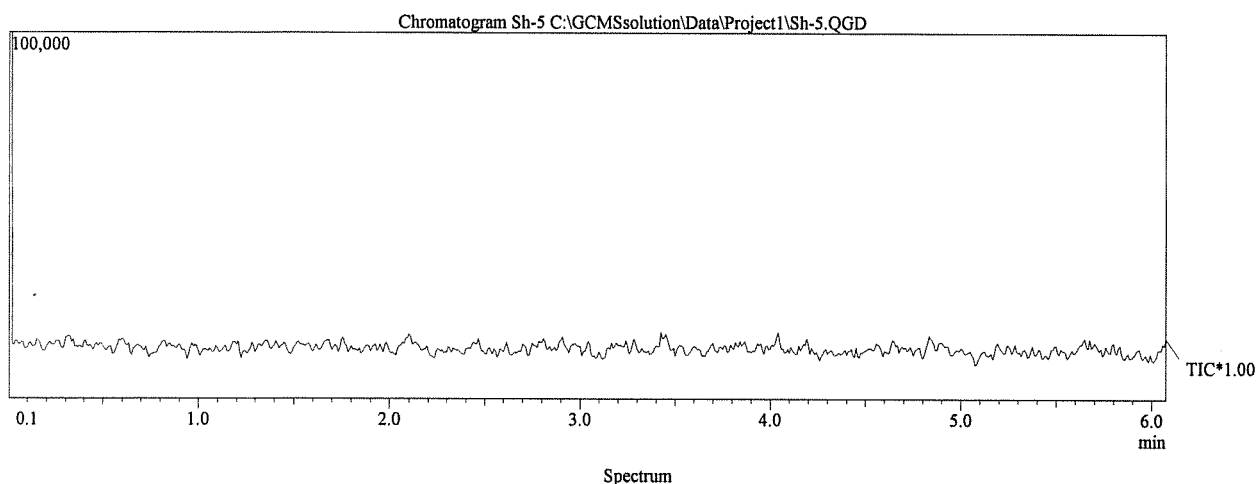
Analyzed by : Dr. Mai Younis  
 Analyzed : 29/01/2017 11:30:49 ص  
 Sample Name : Sh-5 = 1  
 Sample ID :  
 Customer Name : Dr. Gaber Osman - NRC  
 Data File : C:\GCMSsolution\Data\Project1\Sh-5.QGD  
 Org Data File : C:\GCMSsolution\Data\Project1\Sh-5.QGD  
 Method File : C:\GCMSsolution\Data\Project1\High Temperature Op  
 Org Method File : C:\GCMSsolution\Data\Project1\High Temperature Op  
 Report File :  
 Tuning File : C:\GCMSsolution\System\Tune1\\_default.qgt  
 \$EndIf\$Modified by : Dr. Mai Younis  
 Modified : 29/01/2017 11:36:57 ص

### Method

==== Analytical Line 1 =====  
 IonSourceTemp :250.00 °C  
 [MS Table]  
 --Group 1 - Event 1--  
 Start Time :0.00min  
 End Time :10.00min  
 ACQ Mode :Scan  
 Event Time :0.50sec  
 Scan Speed :1428  
 Start m/z :50.00  
 End m/z :700.00

Electron Voltage : 70 eV  
 Ionization Mode : EI

C:\GCMSsolution\Data\Project1\Sh-5.QGD

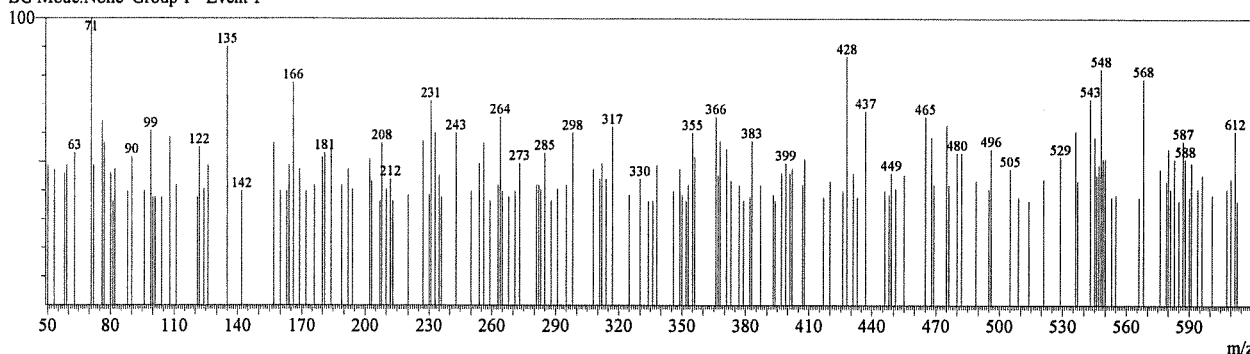


Line#:1 R.Time:3.5(Scan#:419)

MassPeaks:166

RawMode:Single 3.5(419) BasePeak:71(143)

BG Mode:None Group 1 - Event 1



### Mass Table

Line#:1 R.Time:3.5(Scan#:419)

MassPeaks:166

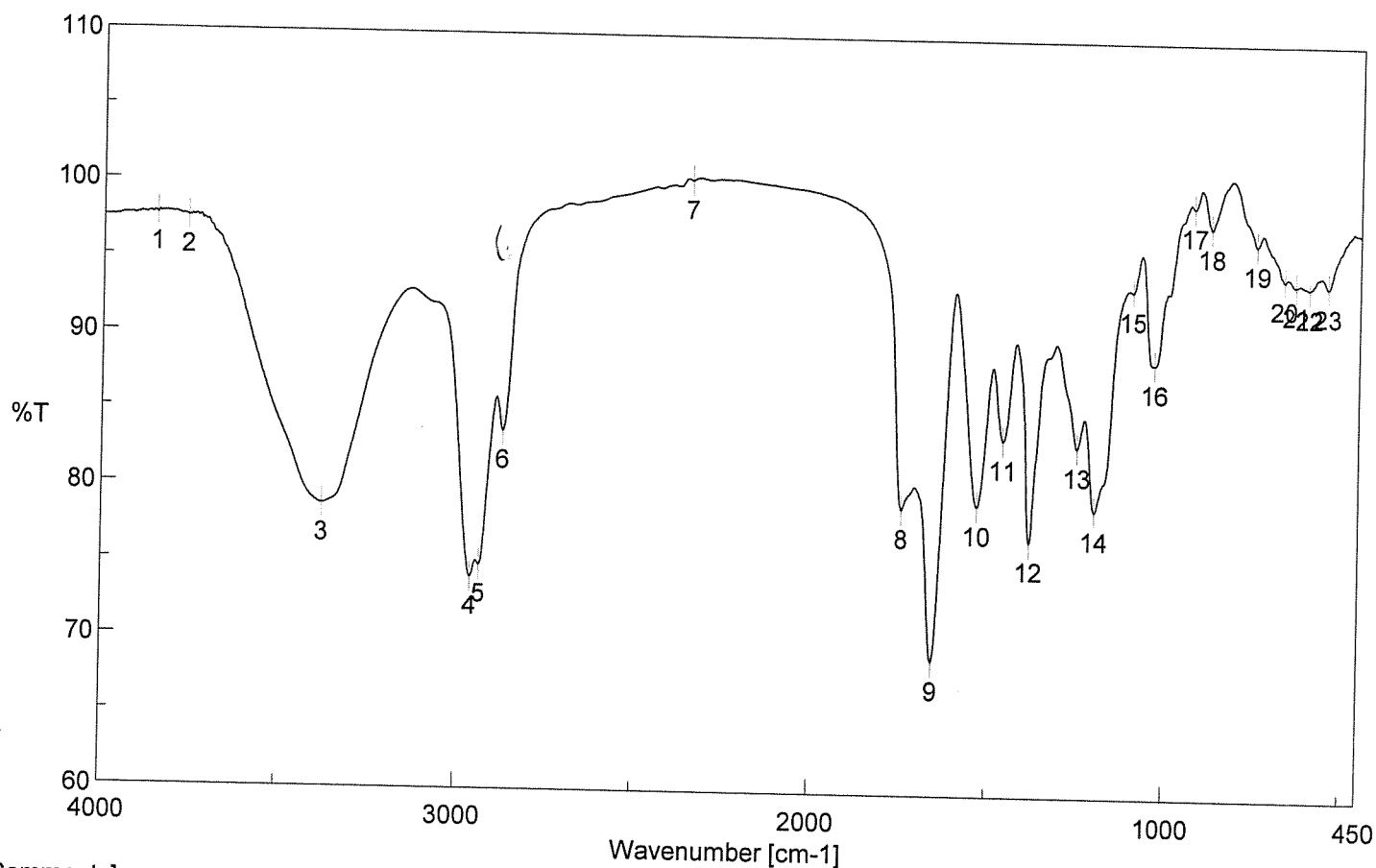
RawMode:Single 3.5(419) BasePeak:71(143)

BG Mode:None Group 1 - Event 1

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
1	50.00	70	48.95	4	59.00	70	48.95
2	53.00	68	47.55	5	63.00	76	53.15
3	58.00	66	46.15	6	71.00	143	100.00
				7	72.00	70	48.95
				8	76.00	92	64.34
				9	77.00	81	56.64

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
10	80.00	66	46.15	63	265.00	57	39.86	116	437.00	97	67.83
11	81.00	52	36.36	64	268.00	54	37.76	117	446.00	57	39.86
12	82.00	68	47.55	65	271.00	57	39.86	118	448.00	55	38.46
13	88.00	57	39.86	66	273.00	71	49.65	119	449.00	66	46.15
14	90.00	74	51.75	67	281.00	60	41.96	120	451.00	58	40.56
15	96.00	57	39.86	68	282.00	60	41.96	121	455.00	65	45.45
16	99.00	87	60.84	69	283.00	58	40.56	122	465.00	94	65.73
17	100.00	54	37.76	70	285.00	76	53.15	123	468.00	84	58.74
18	101.00	54	37.76	71	288.00	52	36.36	124	469.00	60	41.96
19	104.00	54	37.76	72	291.00	58	40.56	125	475.00	90	62.94
20	108.00	84	58.74	73	295.00	60	41.96	126	476.00	60	41.96
21	111.00	60	41.96	74	298.00	86	60.14	127	480.00	76	53.15
22	121.00	54	37.76	75	308.00	68	47.55	128	482.00	76	53.15
23	122.00	79	55.24	76	311.00	63	44.06	129	489.00	62	43.36
24	124.00	58	40.56	77	312.00	71	49.65	130	495.00	58	40.56
25	126.00	70	48.95	78	314.00	63	44.06	131	496.00	78	54.55
26	135.00	129	90.21	79	317.00	89	62.24	132	505.00	68	47.55
27	142.00	57	39.86	80	325.00	55	38.46	133	509.00	54	37.76
28	157.00	81	56.64	81	330.00	63	44.06	134	514.00	52	36.36
29	160.00	57	39.86	82	334.00	52	36.36	135	521.00	63	44.06
30	163.00	57	39.86	83	336.00	52	36.36	136	529.00	74	51.75
31	164.00	70	48.95	84	338.00	70	48.95	137	536.00	87	60.84
32	166.00	111	77.62	85	346.00	57	39.86	138	537.00	62	43.36
33	169.00	68	47.55	86	349.00	68	47.55	139	543.00	103	72.03
34	172.00	57	39.86	87	350.00	55	38.46	140	545.00	84	58.74
35	176.00	60	41.96	88	352.00	52	36.36	141	546.00	65	45.45
36	180.00	74	51.75	89	353.00	60	41.96	142	547.00	70	48.95
37	181.00	76	53.15	90	355.00	86	60.14	143	548.00	118	82.52
38	184.00	79	55.24	91	356.00	74	51.75	144	549.00	73	51.05
39	189.00	60	41.96	92	366.00	94	65.73	145	550.00	73	51.05
40	192.00	68	47.55	93	367.00	65	45.45	146	553.00	54	37.76
41	194.00	58	40.56	94	368.00	82	57.34	147	555.00	55	38.46
42	202.00	73	51.05	95	371.00	78	54.55	148	566.00	54	37.76
43	203.00	62	43.36	96	373.00	62	43.36	149	568.00	113	79.02
44	207.00	52	36.36	97	377.00	60	41.96	150	576.00	68	47.55
45	208.00	81	56.64	98	379.00	52	36.36	151	579.00	62	43.36
46	210.00	58	40.56	99	382.00	54	37.76	152	580.00	78	54.55
47	212.00	63	44.06	100	383.00	82	57.34	153	581.00	58	40.56
48	213.00	52	36.36	101	387.00	60	41.96	154	583.00	73	51.05
49	220.00	55	38.46	102	393.00	55	38.46	155	585.00	52	36.36
50	227.00	82	57.34	103	394.00	52	36.36	156	587.00	82	57.34
51	230.00	55	38.46	104	397.00	66	46.15	157	588.00	73	51.05
52	231.00	102	71.33	105	399.00	71	49.65	158	590.00	54	37.76
53	233.00	86	60.14	106	401.00	66	46.15	159	591.00	71	49.65
54	235.00	65	45.45	107	402.00	68	47.55	160	594.00	58	40.56
55	236.00	54	37.76	108	407.00	60	41.96	161	596.00	65	45.45
56	243.00	86	60.14	109	408.00	73	51.05	162	601.00	55	38.46
57	250.00	57	39.86	110	417.00	54	37.76	163	608.00	58	40.56
58	254.00	71	49.65	111	420.00	62	43.36	164	610.00	63	44.06
59	256.00	81	56.64	112	426.00	57	39.86	165	612.00	87	60.84
60	259.00	52	36.36	113	428.00	124	86.71	166	613.00	52	36.36
61	263.00	60	41.96	114	431.00	66	46.15				
62	264.00	94	65.73	115	433.00	54	37.76				

# Peak Find - Memory-182



## [Comments]

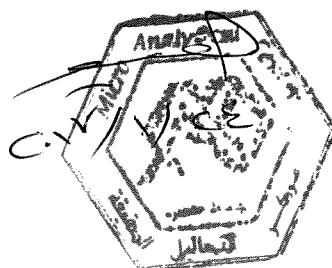
Sample name SH-1 = 2  
 Comment 24/1/2017  
 User IR  
 Division IR  
 Company MAC

## [ Result of Peak Picking ]

No.	Position	Intensity
1	3848.26	97.6517
4	2959.23	73.9579
7	2340.19	100.323
10	1530.24	79.1259
13	1250.61	83.0517
16	1031.73	88.635
19	746.317	96.6093
22	594.932	93.8247

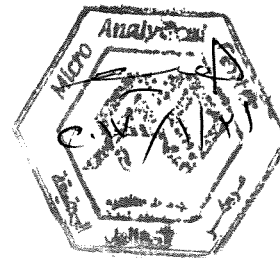
No.	Position	Intensity
2	3759.55	97.5053
5	2934.16	74.7764
8	1743.33	78.8584
11	1458.89	83.4826
14	1200.47	78.9007
17	923.736	99.061
20	668.214	94.333
23	542.863	93.9123

No.	Position	Intensity
3	3375.78	78.6706
6	2870.52	83.5995
9	1655.59	68.8535
12	1383.68	76.8402
15	1096.33	93.43
18	874.56	97.6974
21	634.466	93.993



# Cairo University Micro Analytical Center

## DI Analysis Shimadzu Qp-2010 Plus



### Sample Information

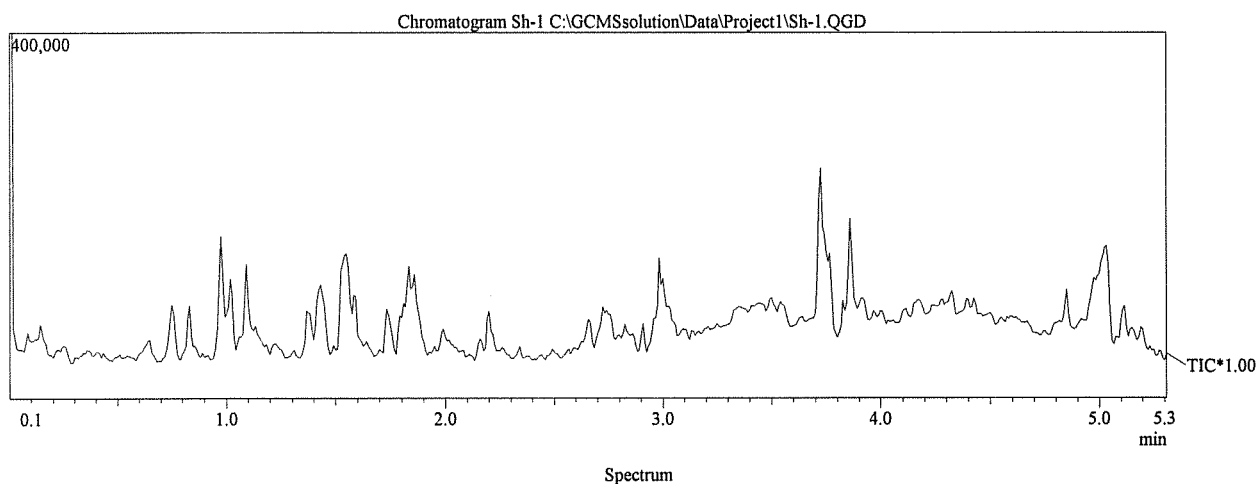
Analyzed by : Dr. Mai Younis  
 Analyzed : 29/01/2017 10:21:33 ص  
 Sample Name : Sh-1 = 2  
 Sample ID :  
 Customer Name : Dr. Gaber Osman - NRC  
 Data File : C:\GCMSsolution\Data\Project1\Sh-1.QGD  
 Org Data File : C:\GCMSsolution\Data\Project1\Sh-1.QGD  
 Method File : C:\GCMSsolution\Data\Project1\High Temperature Op  
 Org Method File : C:\GCMSsolution\Data\Project1\High Temperature Op  
 Report File :  
 Tuning File : C:\GCMSsolution\System\Tune1\\_default.qgt  
 \$EndIf\$Modified by : Dr. Mai Younis  
 Modified : 29/01/2017 10:26:55 ص

### Method

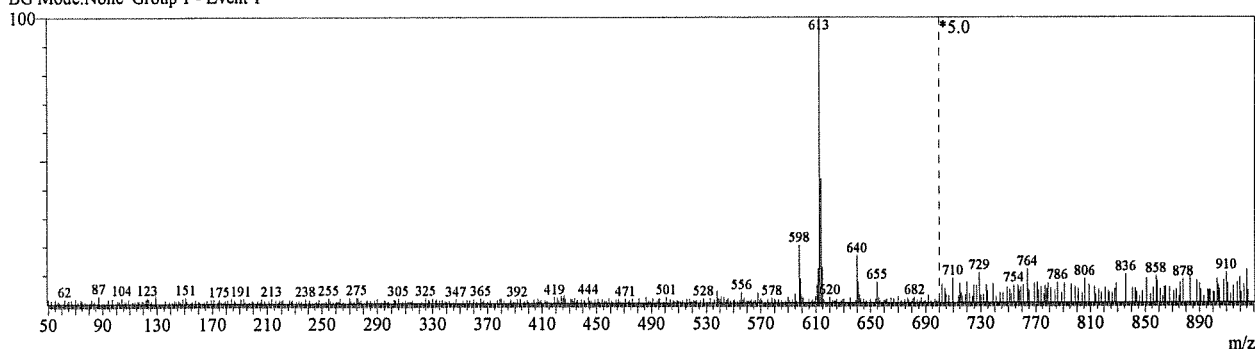
==== Analytical Line 1 ====  
 IonSourceTemp : 250.00 °C  
 [MS Table]  
 --Group 1 - Event 1--  
 Start Time : 0.00min  
 End Time : 10.00min  
 ACQ Mode : Scan  
 Event Time : 0.50sec  
 Scan Speed : 2500  
 Start m/z : 50.00  
 End m/z : 1090.00

Electron Voltage : 70 eV  
 Ionization Mode : EI

C:\GCMSsolution\Data\Project1\Sh-1.QGD



Line#:1 R.Time:4.3(Scan#:512)  
 MassPeaks:442  
 RawMode:Single 4.3(512) BasePeak:613(13053)  
 BG Mode:None Group 1 - Event 1



### Mass Table

Line#:1 R.Time:4.3(Scan#:512)  
 MassPeaks:442  
 RawMode:Single 4.3(512) BasePeak:613(13053)  
 BG Mode:None Group 1 - Event 1

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
1	50.00	188	1.44	4	57.00	102	0.78
2	52.00	140	1.07	5	58.00	52	0.40
3	55.00	169	1.29	6	62.00	209	1.60
				7	64.00	92	0.70
				8	65.00	158	1.21
				9	67.00	161	1.23

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
10	70.00	212	1.62	79	206.00	201	1.54	148	355.00	148	1.13
11	72.00	98	0.75	80	208.00	108	0.83	149	357.00	126	0.97
12	74.00	167	1.28	81	211.00	124	0.95	150	360.00	162	1.24
13	75.00	140	1.07	82	213.00	204	1.56	151	362.00	68	0.52
14	77.00	94	0.72	83	216.00	132	1.01	152	365.00	206	1.58
15	80.00	62	0.47	84	218.00	68	0.52	153	366.00	71	0.54
16	81.00	62	0.47	85	219.00	151	1.16	154	367.00	126	0.97
17	82.00	191	1.46	86	220.00	100	0.77	155	370.00	95	0.73
18	83.00	57	0.44	87	221.00	166	1.27	156	372.00	111	0.85
19	84.00	106	0.81	88	226.00	164	1.26	157	377.00	135	1.03
20	87.00	354	2.71	89	227.00	81	0.62	158	379.00	207	1.59
21	94.00	186	1.42	90	228.00	143	1.10	159	380.00	185	1.42
22	97.00	214	1.64	91	231.00	94	0.72	160	382.00	121	0.93
23	101.00	129	0.99	92	233.00	106	0.81	161	387.00	153	1.17
24	102.00	97	0.74	93	235.00	92	0.70	162	389.00	54	0.41
25	104.00	263	2.01	94	238.00	193	1.48	163	390.00	58	0.44
26	106.00	106	0.81	95	241.00	126	0.97	164	392.00	182	1.39
27	107.00	98	0.75	96	246.00	89	0.68	165	394.00	182	1.39
28	109.00	186	1.42	97	248.00	159	1.22	166	397.00	73	0.56
29	112.00	84	0.64	98	253.00	71	0.54	167	399.00	146	1.12
30	114.00	82	0.63	99	255.00	241	1.85	168	400.00	54	0.41
31	116.00	121	0.93	100	256.00	116	0.89	169	404.00	162	1.24
32	117.00	118	0.90	101	258.00	78	0.60	170	406.00	55	0.42
33	119.00	122	0.93	102	260.00	57	0.44	171	407.00	204	1.56
34	120.00	103	0.79	103	261.00	95	0.73	172	408.00	79	0.61
35	121.00	74	0.57	104	262.00	81	0.62	173	409.00	135	1.03
36	122.00	175	1.34	105	263.00	222	1.70	174	412.00	145	1.11
37	123.00	262	2.01	106	265.00	57	0.44	175	413.00	71	0.54
38	124.00	220	1.69	107	270.00	262	2.01	176	414.00	71	0.54
39	125.00	62	0.47	108	271.00	105	0.80	177	419.00	271	2.08
40	126.00	114	0.87	109	273.00	78	0.60	178	421.00	231	1.77
41	129.00	361	2.77	110	275.00	263	2.01	179	422.00	114	0.87
42	136.00	146	1.12	111	276.00	230	1.76	180	424.00	316	2.42
43	139.00	68	0.52	112	277.00	94	0.72	181	425.00	239	1.83
44	141.00	74	0.57	113	278.00	134	1.03	182	426.00	350	2.68
45	143.00	129	0.99	114	282.00	118	0.90	183	427.00	202	1.55
46	144.00	97	0.74	115	283.00	153	1.17	184	431.00	193	1.48
47	146.00	130	1.00	116	285.00	116	0.89	185	432.00	170	1.30
48	147.00	79	0.61	117	288.00	111	0.85	186	433.00	102	0.78
49	149.00	209	1.60	118	290.00	222	1.70	187	434.00	198	1.52
50	151.00	273	2.09	119	293.00	54	0.41	188	435.00	68	0.52
51	152.00	106	0.81	120	295.00	148	1.13	189	436.00	129	0.99
52	155.00	57	0.44	121	296.00	121	0.93	190	439.00	146	1.12
53	156.00	108	0.83	122	297.00	55	0.42	191	441.00	122	0.93
54	158.00	145	1.11	123	298.00	74	0.57	192	444.00	282	2.16
55	160.00	95	0.73	124	302.00	175	1.34	193	445.00	119	0.91
56	161.00	71	0.54	125	303.00	142	1.09	194	446.00	103	0.79
57	164.00	90	0.69	126	305.00	206	1.58	195	449.00	146	1.12
58	166.00	145	1.11	127	308.00	66	0.51	196	451.00	180	1.38
59	169.00	158	1.21	128	310.00	119	0.91	197	452.00	73	0.56
60	171.00	169	1.29	129	312.00	70	0.54	198	454.00	167	1.28
61	174.00	68	0.52	130	313.00	76	0.58	199	456.00	98	0.75
62	175.00	175	1.34	131	314.00	52	0.40	200	457.00	105	0.80
63	176.00	89	0.68	132	315.00	130	1.00	201	459.00	201	1.54
64	178.00	70	0.54	133	322.00	81	0.62	202	461.00	90	0.69
65	179.00	114	0.87	134	325.00	217	1.66	203	464.00	150	1.15
66	181.00	164	1.26	135	327.00	153	1.17	204	466.00	175	1.34
67	184.00	204	1.56	136	328.00	89	0.68	205	467.00	70	0.54
68	186.00	146	1.12	137	330.00	201	1.54	206	471.00	183	1.40
69	187.00	79	0.61	138	332.00	127	0.97	207	473.00	74	0.57
70	191.00	206	1.58	139	333.00	169	1.29	208	474.00	124	0.95
71	193.00	201	1.54	140	335.00	113	0.87	209	476.00	210	1.61
72	194.00	52	0.40	141	337.00	148	1.13	210	481.00	223	1.71
73	197.00	68	0.52	142	339.00	81	0.62	211	486.00	242	1.85
74	199.00	118	0.90	143	340.00	74	0.57	212	488.00	97	0.74
75	200.00	105	0.80	144	342.00	105	0.80	213	489.00	82	0.63
76	203.00	110	0.84	145	345.00	60	0.46	214	491.00	199	1.52
77	204.00	62	0.47	146	347.00	170	1.30	215	494.00	106	0.81
78	205.00	55	0.42	147	352.00	110	0.84	216	495.00	190	1.46

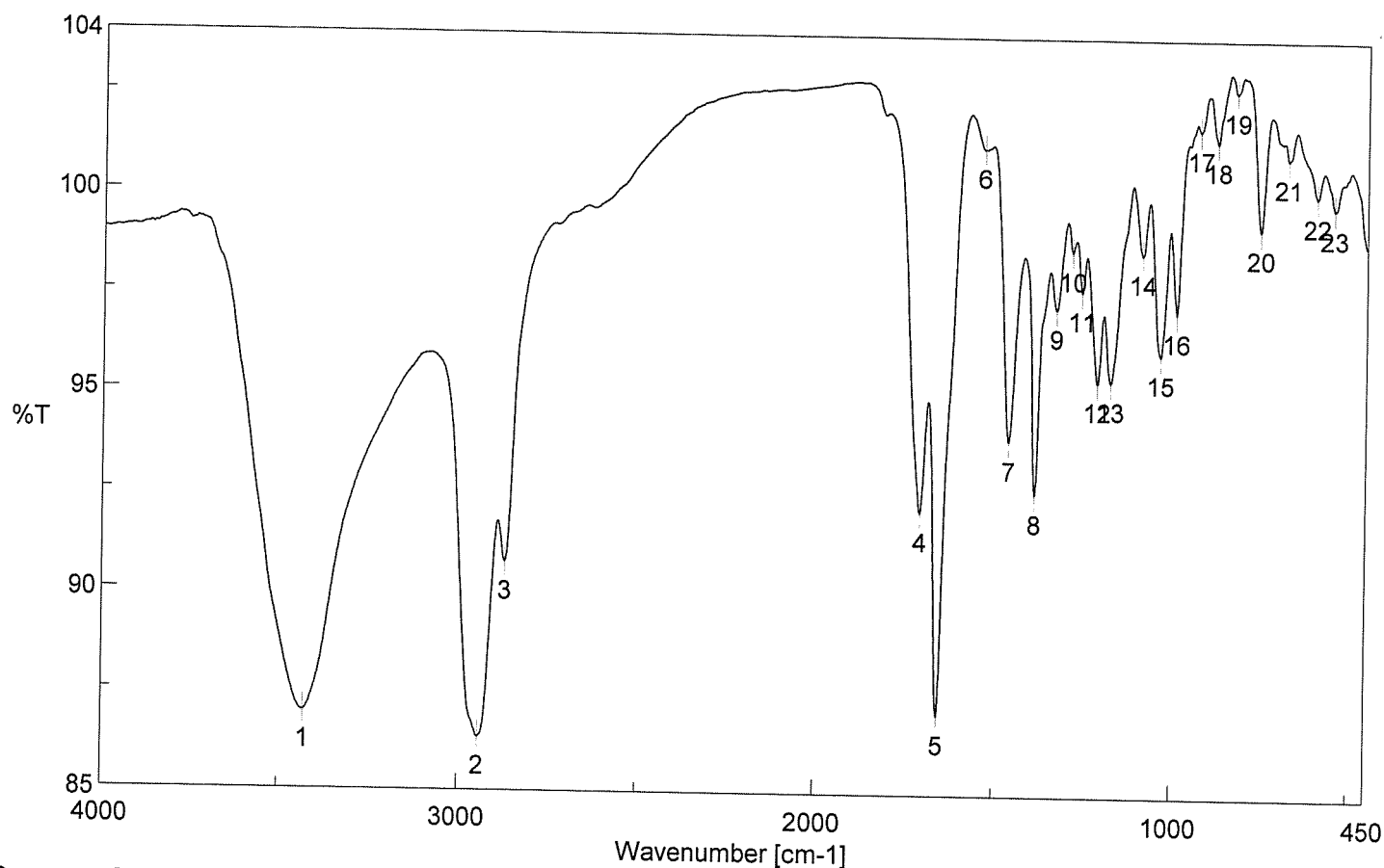
#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
217	496.00	206	1.58	286	612.05	1560	11.95	355	738.90	170	1.30
218	499.00	62	0.47	287	612.95	13053	100.00	356	740.90	54	0.41
219	501.00	242	1.85	288	613.95	5674	43.47	357	743.90	92	0.70
220	504.00	164	1.26	289	615.00	1606	12.30	358	745.90	87	0.67
221	506.00	121	0.93	290	616.00	142	1.09	359	748.90	138	1.06
222	507.00	71	0.54	291	620.00	233	1.79	360	750.90	118	0.90
223	508.00	55	0.42	292	622.00	95	0.73	361	751.90	76	0.58
224	509.00	121	0.93	293	623.00	81	0.62	362	753.90	159	1.22
225	510.00	90	0.69	294	624.00	76	0.58	363	756.90	154	1.18
226	511.00	81	0.62	295	625.00	150	1.15	364	757.90	113	0.87
227	513.00	98	0.75	296	628.00	79	0.61	365	758.90	140	1.07
228	516.00	178	1.36	297	629.00	113	0.87	366	760.90	161	1.23
229	518.00	166	1.27	298	630.00	166	1.27	367	763.90	305	2.34
230	519.00	79	0.61	299	635.00	218	1.67	368	764.90	114	0.87
231	520.00	52	0.40	300	639.00	102	0.78	369	768.90	175	1.34
232	521.00	124	0.95	301	640.00	2143	16.42	370	770.90	182	1.39
233	522.00	82	0.63	302	640.90	930	7.12	371	771.90	110	0.84
234	523.00	135	1.03	303	641.90	351	2.69	372	773.90	145	1.11
235	526.00	98	0.75	304	642.90	161	1.23	373	775.90	79	0.61
236	528.00	190	1.46	305	644.90	158	1.21	374	776.90	151	1.16
237	533.00	185	1.42	306	646.90	81	0.62	375	777.90	130	1.00
238	536.00	138	1.06	307	649.90	135	1.03	376	778.90	175	1.34
239	538.00	546	4.18	308	653.90	145	1.11	377	780.90	129	0.99
240	539.00	210	1.61	309	654.95	937	7.18	378	783.90	114	0.87
241	540.00	154	1.18	310	655.90	218	1.67	379	785.90	183	1.40
242	541.00	282	2.16	311	656.90	90	0.69	380	788.90	87	0.67
243	543.00	234	1.79	312	659.90	81	0.62	381	790.90	172	1.32
244	545.00	127	0.97	313	660.90	113	0.87	382	795.90	166	1.27
245	546.00	194	1.49	314	661.90	150	1.15	383	798.90	145	1.11
246	548.00	79	0.61	315	664.90	202	1.55	384	800.90	126	0.97
247	550.00	106	0.81	316	666.90	164	1.26	385	803.90	84	0.64
248	551.00	119	0.91	317	669.90	265	2.03	386	805.90	217	1.66
249	553.00	57	0.44	318	671.90	87	0.67	387	808.90	161	1.23
250	555.00	132	1.01	319	674.90	114	0.87	388	812.90	143	1.10
251	556.00	463	3.55	320	676.90	193	1.48	389	813.90	71	0.54
252	557.00	151	1.16	321	677.90	73	0.56	390	815.90	113	0.87
253	558.00	225	1.72	322	679.90	74	0.57	391	817.90	90	0.69
254	560.00	78	0.60	323	680.90	169	1.29	392	820.90	135	1.03
255	561.00	87	0.67	324	681.90	231	1.77	393	822.90	105	0.80
256	562.00	79	0.61	325	683.90	102	0.78	394	823.90	92	0.70
257	563.00	116	0.89	326	685.90	54	0.41	395	825.90	95	0.73
258	565.00	89	0.68	327	686.90	202	1.55	396	827.90	122	0.93
259	566.00	113	0.87	328	688.90	65	0.50	397	828.90	174	1.33
260	568.00	449	3.44	329	689.90	71	0.54	398	835.90	258	1.98
261	569.00	119	0.91	330	691.90	334	2.56	399	840.90	129	0.99
262	570.00	177	1.36	331	693.90	55	0.42	400	842.90	130	1.00
263	571.00	103	0.79	332	696.90	110	0.84	401	843.90	98	0.75
264	575.00	142	1.09	333	697.90	70	0.54	402	845.90	57	0.44
265	578.00	198	1.52	334	699.90	89	0.68	403	847.90	103	0.79
266	580.00	174	1.33	335	701.90	164	1.26	404	850.90	222	1.70
267	581.00	106	0.81	336	703.90	129	0.99	405	853.90	73	0.56
268	583.00	140	1.07	337	704.90	73	0.56	406	855.90	132	1.01
269	585.00	103	0.79	338	706.90	58	0.44	407	857.90	239	1.83
270	588.00	71	0.54	339	709.90	223	1.71	408	858.90	196	1.50
271	590.00	244	1.87	340	713.90	58	0.44	409	860.90	122	0.93
272	591.00	124	0.95	341	714.90	177	1.36	410	862.90	57	0.44
273	593.00	114	0.87	342	715.90	86	0.66	411	863.90	142	1.09
274	595.00	410	3.14	343	716.90	57	0.44	412	864.90	143	1.10
275	596.00	76	0.58	344	718.90	74	0.57	413	867.90	137	1.05
276	597.95	2640	20.23	345	719.90	188	1.44	414	870.90	106	0.81
277	598.90	1106	8.47	346	721.90	76	0.58	415	872.90	121	0.93
278	599.90	297	2.28	347	723.90	55	0.42	416	874.90	55	0.42
279	600.90	207	1.59	348	724.90	156	1.20	417	875.90	178	1.36
280	604.90	148	1.13	349	726.90	154	1.18	418	877.90	212	1.62
281	606.90	74	0.57	350	728.90	273	2.09	419	882.90	234	1.79
282	607.90	110	0.84	351	729.90	71	0.54	420	887.90	198	1.52
283	608.90	58	0.44	352	731.90	74	0.57	421	889.90	172	1.32
284	609.90	279	2.14	353	733.90	161	1.23	422	890.90	118	0.90
285	610.95	804	6.16	354	734.90	105	0.80	423	892.90	55	0.42

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
424	895.90	118	0.90	431	904.90	121	0.93	438	919.90	228	1.75
425	896.90	110	0.84	432	907.90	201	1.54	439	920.90	95	0.73
426	897.90	116	0.89	433	909.90	273	2.09	440	922.90	161	1.23
427	899.90	100	0.77	434	910.90	177	1.36	441	924.90	300	2.30
428	900.90	87	0.67	435	912.90	79	0.61	442	925.90	111	0.85
429	902.90	215	1.65	436	914.90	153	1.17				
430	903.90	158	1.21	437	917.90	185	1.42				





# Peak Find - Memory-162

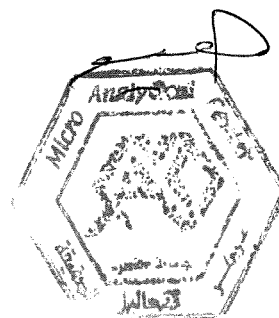


## [Comments]

Sample name SH-6 = 3  
Comment 24/1/2017  
User IR  
Division IR  
Company MAC

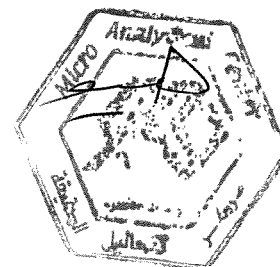
## [ Result of Peak Picking ]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3429.78	86.9548	2	2943.8	86.3375	3	2869.56	90.7131
✓ 4	1705.73	92.0589	5	1655.59	87.0058	6	1531.2	101.182
7	1458.89	93.8509	✓ 8	1386.57	92.5409	9	1326.79	97.1883
10	1283.39	98.637	11	1256.4	97.6327	12	1212.04	95.3551
13	1174.44	95.3671	14	1085.73	98.5757	15	1033.66	96.0503
16	989.304	97.1092	17	923.736	101.707	18	874.56	101.419
19	821.527	102.686	20	752.102	99.2278	21	676.892	101.012
22	592.039	100.055	23	544.792	99.7612			



# Cairo University Micro Analytical Center

## DI Analysis Shimadzu Qp-2010 Plus



### Sample Information

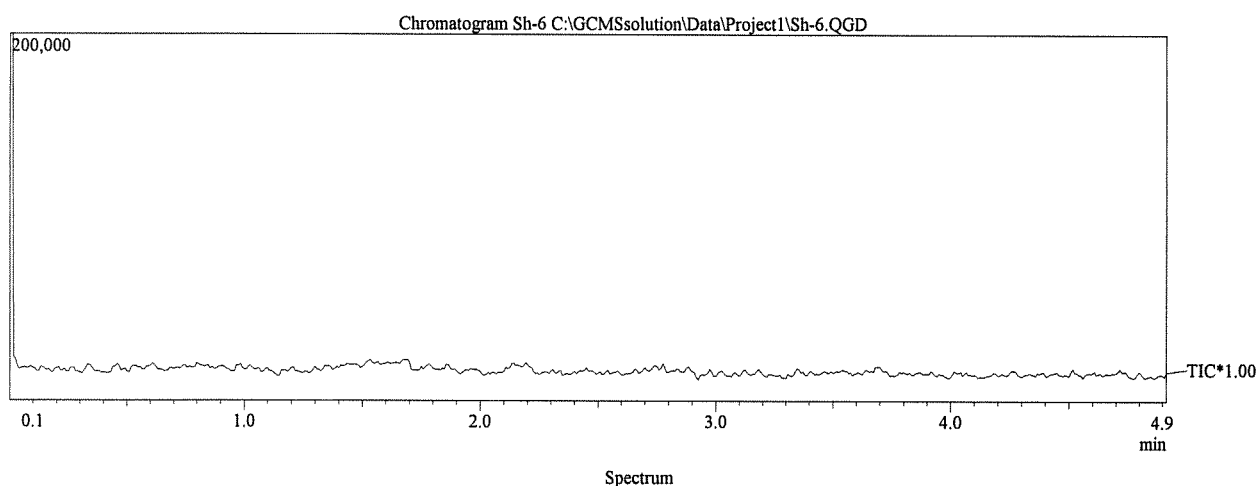
Analyzed by : Dr. Mai Younis  
 Analyzed : 29/01/2017 11:41:43  
 Sample Name : Sh-6  
 Sample ID : 3  
 Customer Name : Dr. Gaber Osman - NRC  
 Data File : C:\GCMSsolution\Data\Project1\Sh-6.QGD  
 Org Data File : C:\GCMSsolution\Data\Project1\Sh-6.QGD  
 Method File : C:\GCMSsolution\Data\Project1\High Temperature Op  
 Org Method File : C:\GCMSsolution\Data\Project1\High Temperature Op  
 Report File :  
 Tuning File : C:\GCMSsolution\System1\Tune1\\_default.qgt  
 \$EndIf\$Modified by : Dr. Mai Younis  
 Modified : 29/01/2017 11:46:41

### Method

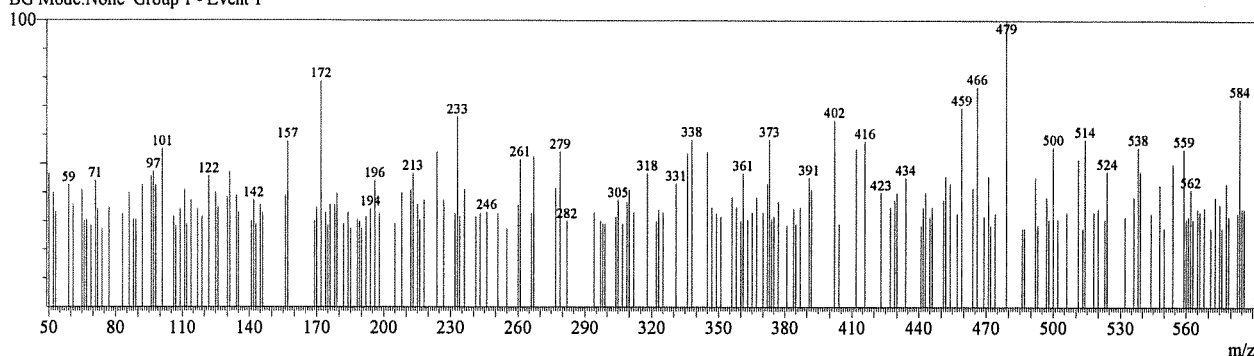
==== Analytical Line 1 ====  
 IonSourceTemp :250.00 °C  
 [MS Table]  
 --Group 1 - Event 1--  
 Start Time :0.00min  
 End Time :10.00min  
 ACQ Mode :Scan  
 Event Time :0.50sec  
 Scan Speed :1428  
 Start m/z :50.00  
 End m/z :700.00

Electron Voltage : 70 eV  
 Ionization Mode : EI

C:\GCMSsolution\Data\Project1\Sh-6.QGD



Line#:1 R.Time:2.8(Scan#:332)  
 MassPeaks:195  
 RawMode:Single 2.8(332) BasePeak:479(190)  
 BG Mode:None Group 1 - Event 1



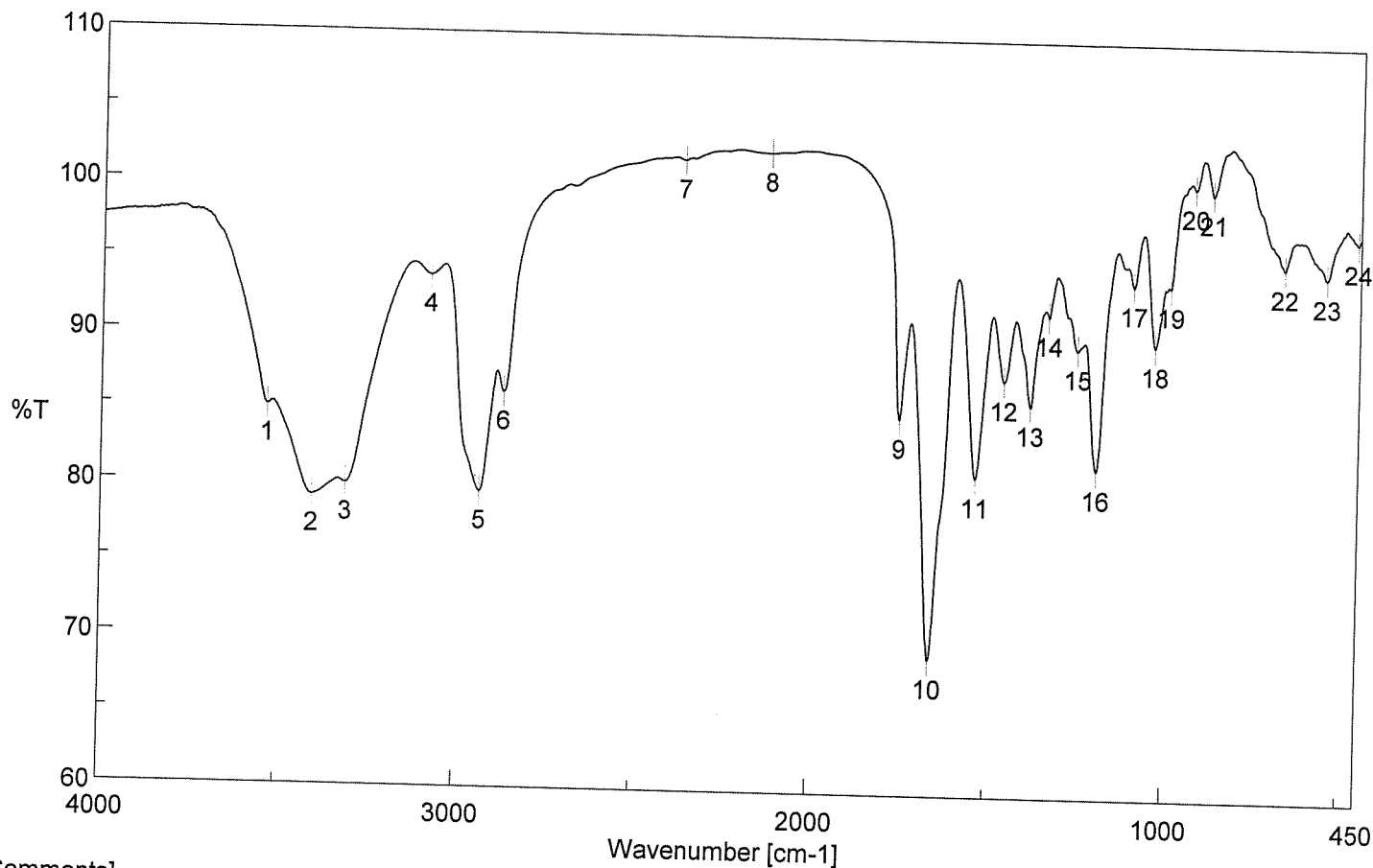
### Mass Table

Line#:1 R.Time:2.8(Scan#:332)  
 MassPeaks:195  
 RawMode:Single 2.8(332) BasePeak:479(190)  
 BG Mode:None Group 1 - Event 1

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
1	50.00	89	46.84	4	59.00	81	42.63
2	52.00	76	40.00	5	61.00	68	35.79
3	53.00	63	33.16	6	65.00	78	41.05
				7	66.00	57	30.00
				8	67.00	58	30.53
				9	69.00	54	28.42

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
10	71.00	84	44.21	72	232.00	62	32.63	134	429.00	71	37.37
11	72.00	65	34.21	73	233.00	126	66.32	135	430.00	76	40.00
12	74.00	52	27.37	74	234.00	60	31.58	136	434.00	86	45.26
13	77.00	66	34.74	75	236.00	78	41.05	137	441.00	54	28.42
14	83.00	62	32.63	76	241.00	60	31.58	138	442.00	66	34.74
15	86.00	76	40.00	77	243.00	62	32.63	139	443.00	76	40.00
16	88.00	58	30.53	78	246.00	63	33.16	140	445.00	60	31.58
17	89.00	58	30.53	79	251.00	62	32.63	141	446.00	66	34.74
18	92.00	81	42.63	80	255.00	52	27.37	142	451.00	71	37.37
19	96.00	87	45.79	81	260.00	68	35.79	143	452.00	87	45.79
20	97.00	90	47.37	82	261.00	98	51.58	144	454.00	82	43.16
21	98.00	81	42.63	83	266.00	62	32.63	145	457.00	62	32.63
22	101.00	105	55.26	84	267.00	100	52.63	146	459.00	132	69.47
23	106.00	60	31.58	85	277.00	79	41.58	147	464.00	79	41.58
24	107.00	54	28.42	86	279.00	103	54.21	148	466.00	146	76.84
25	109.00	65	34.21	87	282.00	57	30.00	149	469.00	60	31.58
26	111.00	78	41.05	88	294.00	63	33.16	150	471.00	87	45.79
27	112.00	55	28.95	89	297.00	57	30.00	151	472.00	54	28.42
28	114.00	71	37.37	90	298.00	55	28.95	152	474.00	62	32.63
29	117.00	65	34.21	91	299.00	55	28.95	153	479.00	190	100.00
30	119.00	60	31.58	92	304.00	60	31.58	154	486.00	52	27.37
31	122.00	87	45.79	93	305.00	71	37.37	155	487.00	52	27.37
32	125.00	76	40.00	94	307.00	55	28.95	156	492.00	86	45.26
33	126.00	66	34.74	95	309.00	70	36.84	157	493.00	54	28.42
34	130.00	73	38.42	96	310.00	78	41.05	158	497.00	73	38.42
35	131.00	90	47.37	97	312.00	63	33.16	159	498.00	58	30.53
36	134.00	74	38.95	98	318.00	89	46.84	160	500.00	106	55.79
37	135.00	63	33.16	99	322.00	57	30.00	161	502.00	58	30.53
38	141.00	57	30.00	100	323.00	65	34.21	162	506.00	63	33.16
39	142.00	71	37.37	101	325.00	63	33.16	163	511.00	98	51.58
40	143.00	55	28.95	102	331.00	82	43.16	164	513.00	52	27.37
41	145.00	68	35.79	103	336.00	102	53.68	165	514.00	111	58.42
42	146.00	63	33.16	104	338.00	111	58.42	166	518.00	63	33.16
43	156.00	74	38.95	105	345.00	103	54.21	167	520.00	65	34.21
44	157.00	110	57.89	106	347.00	66	34.74	168	523.00	58	30.53
45	169.00	57	30.00	107	349.00	62	32.63	169	524.00	90	47.37
46	170.00	66	34.74	108	351.00	60	31.58	170	532.00	60	31.58
47	172.00	150	78.95	109	356.00	73	38.42	171	536.00	73	38.42
48	174.00	63	33.16	110	358.00	66	34.74	172	538.00	106	55.79
49	175.00	54	28.42	111	360.00	57	30.00	173	539.00	90	47.37
50	176.00	68	35.79	112	361.00	89	46.84	174	544.00	62	32.63
51	178.00	68	35.79	113	363.00	58	30.53	175	548.00	81	42.63
52	179.00	76	40.00	114	365.00	63	33.16	176	550.00	52	27.37
53	182.00	55	28.95	115	367.00	73	38.42	177	554.00	95	50.00
54	184.00	63	33.16	116	370.00	63	33.16	178	559.00	105	55.26
55	185.00	52	27.37	117	372.00	82	43.16	179	560.00	58	30.53
56	188.00	58	30.53	118	373.00	111	58.42	180	561.00	60	31.58
57	189.00	57	30.00	119	374.00	58	30.53	181	562.00	78	41.05
58	190.00	52	27.37	120	375.00	60	31.58	182	563.00	58	30.53
59	192.00	60	31.58	121	377.00	70	36.84	183	565.00	65	34.21
60	194.00	65	34.21	122	381.00	54	28.42	184	566.00	63	33.16
61	196.00	84	44.21	123	384.00	65	34.21	185	568.00	66	34.74
62	198.00	62	32.63	124	385.00	55	28.95	186	571.00	52	27.37
63	205.00	55	28.95	125	387.00	66	34.74	187	573.00	73	38.42
64	208.00	76	40.00	126	391.00	86	45.26	188	575.00	68	35.79
65	212.00	78	41.05	127	392.00	78	41.05	189	576.00	52	27.37
66	213.00	89	46.84	128	402.00	124	65.26	190	578.00	82	43.16
67	215.00	68	35.79	129	404.00	55	28.95	191	579.00	60	31.58
68	216.00	58	30.53	130	412.00	105	55.26	192	583.00	62	32.63
69	218.00	71	37.37	131	416.00	110	57.89	193	584.00	138	72.63
70	224.00	103	54.21	132	423.00	76	40.00	194	585.00	65	34.21
71	227.00	71	37.37	133	427.00	66	34.74	195	586.00	65	34.21

# Peak Find - Memory-193

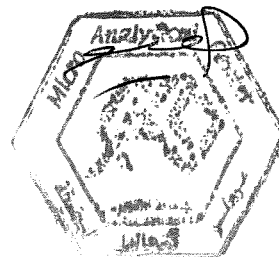


## [Comments]

Sample name SH-11 = 4  
 Comment 24/1/2017  
 User IR  
 Division IR  
 Company MAC

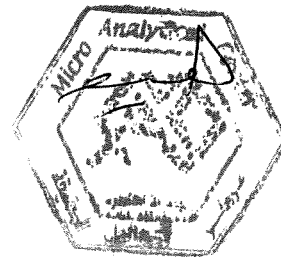
## [ Result of Peak Picking ]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3531.02	84.968	2	3402.78	79.0906	3	3310.21	79.8951
4	3075.9	93.779	5	2934.16	79.5012	6	2868.59	86.0632
7	2365.26	101.715	8	2121.31	102.281	9	1752.01	84.7788
10	1660.41	69	11	1535.06	81.006	12	1457.92	87.4395
13	1383.68	85.8063	14	1334.5	91.8111	15	1252.54	89.6315
16	1196.61	81.6607	17	1095.37	93.9249	18	1032.69	89.9079
19	990.268	93.8942	20	923.736	100.48	21	872.631	100.112
22	667.25	95.2613	23	545.756	94.7026	24	458.975	97.0863



# Cairo University Micro Analytical Center

## DI Analysis Shimadzu Qp-2010 Plus



### Sample Information

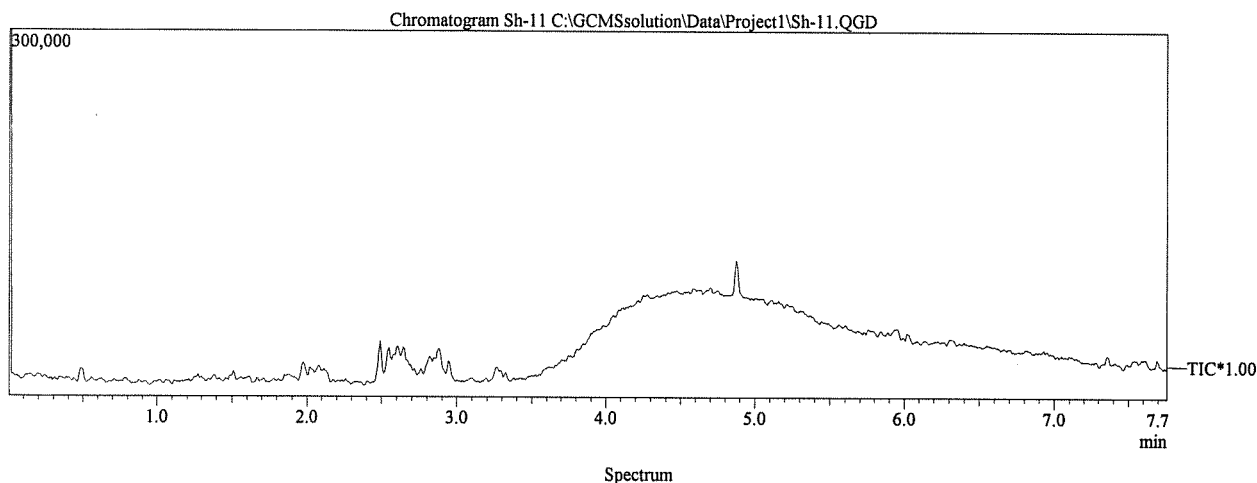
Analyzed by : Dr. Mai Younis  
 Analyzed : 29/01/2017 12:13:57  
 Sample Name : Sh-11 = 4  
 Sample ID :  
 Customer Name : Dr. Gaber Osman - NRC  
 Data File : C:\GCMSsolution\Data\Project1\Sh-11.QGD  
 Org Data File : C:\GCMSsolution\Data\Project1\Sh-11.QGD  
 Method File : C:\GCMSsolution\Data\Project1\High Temperature Op  
 Org Method File : C:\GCMSsolution\Data\Project1\High Temperature Op  
 Report File :  
 Tuning File : C:\GCMSsolution\System\Tune1\\_default.qgt  
 SEndIf\$Modified by : Dr. Mai Younis  
 Modified : 29/01/2017 12:21:46

### Method

==== Analytical Line 1 ====  
 IonSourceTemp : 250.00 °C  
 [MS Table]  
 --Group 1 - Event 1--  
 Start Time : 0.00min  
 End Time : 10.00min  
 ACQ Mode : Scan  
 Event Time : 0.50sec  
 Scan Speed : 1666  
 Start m/z : 50.00  
 End m/z : 750.00

Electron Voltage : 70 eV  
 Ionization Mode : EI

C:\GCMSsolution\Data\Project1\Sh-11.QGD

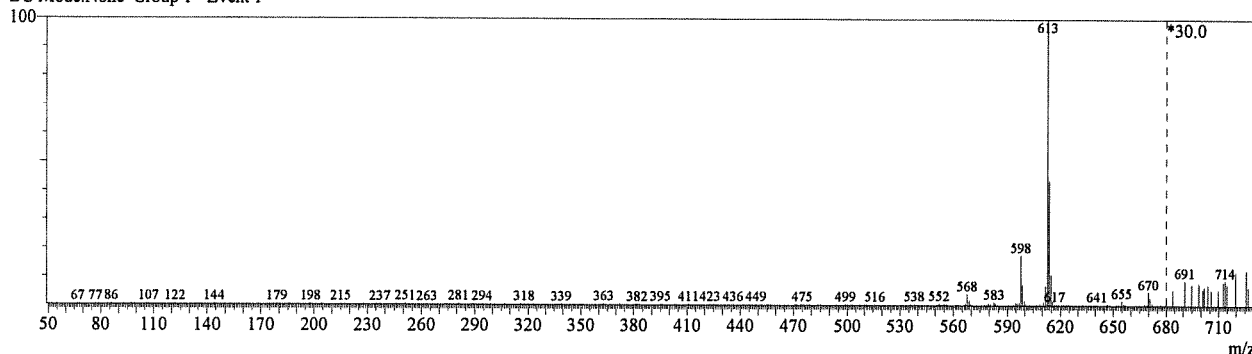


Line#:1 R.Time:4.2(Scan#:505)

MassPeaks:220

RawMode:Single 4.2(505) BasePeak:613(28959)

BG Mode:None Group 1 - Event 1



### Mass Table

Line#:1 R.Time:4.2(Scan#:505)

MassPeaks:220

RawMode:Single 4.2(505) BasePeak:613(28959)

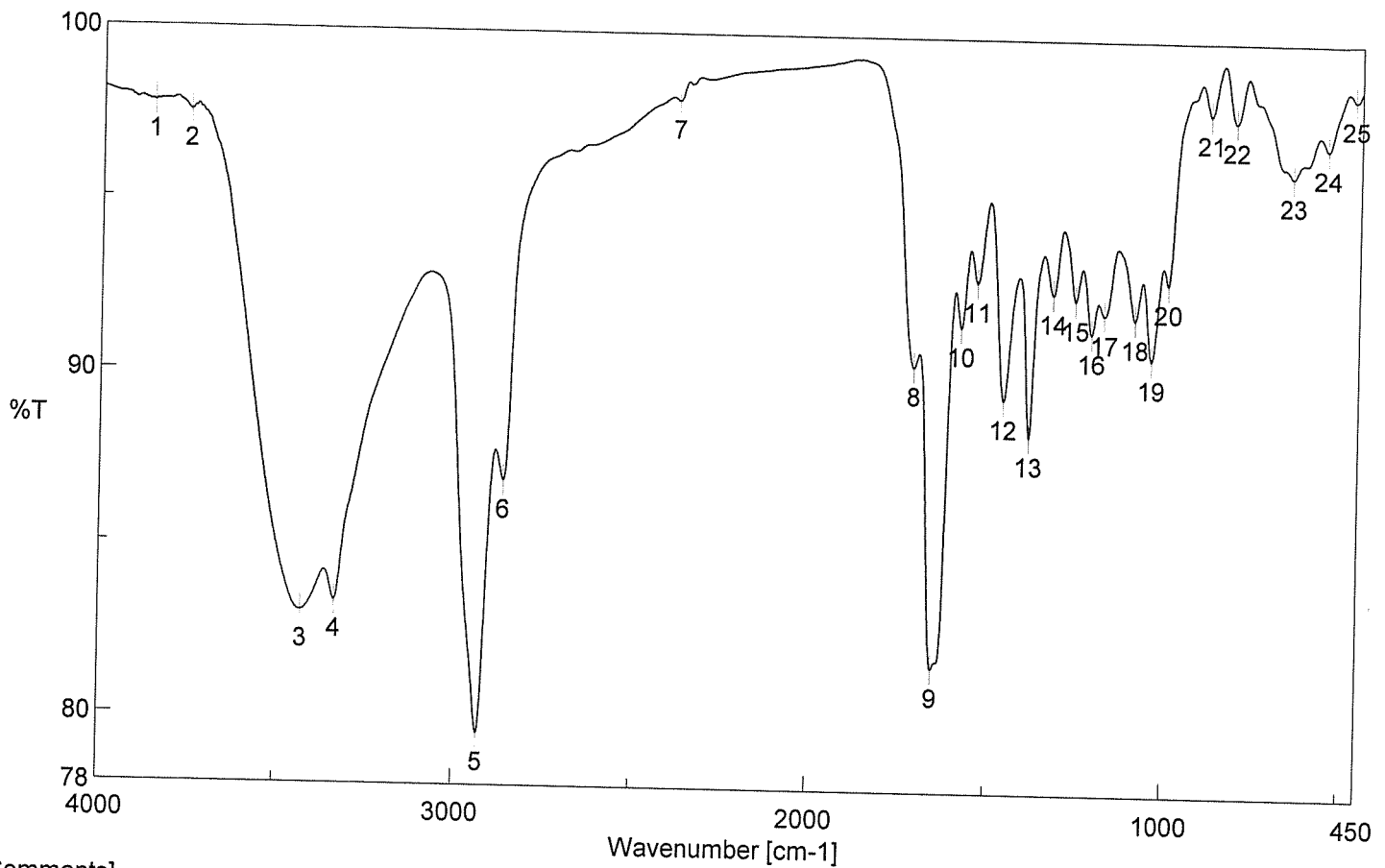
BG Mode:None Group 1 - Event 1

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
1	50.00	63	0.22	4	67.00	81	0.28	7	79.00	60	0.21
2	52.00	62	0.21	5	68.00	70	0.24	8	84.00	55	0.19
3	55.00	52	0.18	6	77.00	81	0.28	9	86.00	84	0.29

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
10	93.00	73	0.25	79	362.00	106	0.37	148	580.70	145	0.50
11	96.00	52	0.18	80	363.00	127	0.44	149	582.70	330	1.14
12	97.00	52	0.18	81	364.00	79	0.27	150	583.70	177	0.61
13	98.00	58	0.20	82	372.00	84	0.29	151	584.70	74	0.26
14	99.00	81	0.28	83	381.00	57	0.20	152	590.70	79	0.27
15	105.00	54	0.19	84	382.00	62	0.21	153	593.70	78	0.27
16	106.00	54	0.19	85	383.00	55	0.19	154	594.70	258	0.89
17	107.00	94	0.32	86	395.00	103	0.36	155	595.70	183	0.63
18	119.00	68	0.23	87	396.00	71	0.25	156	596.70	278	0.96
19	120.00	74	0.26	88	400.00	60	0.21	157	597.75	5081	17.55
20	122.00	84	0.29	89	403.00	66	0.23	158	598.70	2095	7.23
21	128.00	58	0.20	90	404.00	74	0.26	159	599.70	489	1.69
22	133.00	97	0.33	91	411.00	100	0.35	160	600.70	126	0.44
23	144.00	86	0.30	92	414.00	58	0.20	161	602.70	78	0.27
24	150.00	63	0.22	93	423.00	100	0.35	162	606.70	55	0.19
25	153.00	57	0.20	94	425.00	70	0.24	163	608.70	119	0.41
26	155.00	65	0.22	95	427.00	60	0.21	164	610.70	351	1.21
27	157.00	60	0.21	96	431.00	65	0.22	165	611.85	1998	6.90
28	162.00	60	0.21	97	433.00	78	0.27	166	612.80	28959	100.00
29	169.00	66	0.23	98	436.00	111	0.38	167	613.80	12618	43.57
30	175.00	55	0.19	99	445.00	68	0.23	168	614.80	3124	10.79
31	177.00	70	0.24	100	449.00	94	0.32	169	615.75	523	1.81
32	179.00	86	0.30	101	452.00	65	0.22	170	616.80	118	0.41
33	180.00	60	0.21	102	455.00	58	0.20	171	617.80	62	0.21
34	186.00	94	0.32	103	456.00	52	0.18	172	618.80	86	0.30
35	197.00	95	0.33	104	457.00	78	0.27	173	620.80	89	0.31
36	198.00	110	0.38	105	471.00	65	0.22	174	621.80	90	0.31
37	201.00	78	0.27	106	472.00	70	0.24	175	622.80	52	0.18
38	204.00	60	0.21	107	474.00	71	0.25	176	623.80	111	0.38
39	205.00	54	0.19	108	475.00	100	0.35	177	624.80	102	0.35
40	215.00	87	0.30	109	476.00	70	0.24	178	625.80	52	0.18
41	217.00	73	0.25	110	479.00	70	0.24	179	628.80	60	0.21
42	224.00	68	0.23	111	484.00	57	0.20	180	630.80	57	0.20
43	226.00	55	0.19	112	485.00	92	0.32	181	632.80	87	0.30
44	227.00	68	0.23	113	494.00	66	0.23	182	635.80	73	0.25
45	228.00	57	0.20	114	499.00	90	0.31	183	636.80	65	0.22
46	235.00	52	0.18	115	500.00	62	0.21	184	637.80	68	0.23
47	237.00	73	0.25	116	502.00	63	0.22	185	639.80	55	0.19
48	246.00	52	0.18	117	503.00	70	0.24	186	640.80	89	0.31
49	251.00	127	0.44	118	507.00	54	0.19	187	645.80	57	0.20
50	253.00	74	0.26	119	510.00	87	0.30	188	646.80	150	0.52
51	255.00	65	0.22	120	511.00	84	0.29	189	647.80	87	0.30
52	258.00	60	0.21	121	516.00	89	0.31	190	651.80	86	0.30
53	261.00	68	0.23	122	521.00	58	0.20	191	652.80	68	0.23
54	263.00	76	0.26	123	527.00	87	0.30	192	653.80	95	0.33
55	266.00	71	0.25	124	531.00	73	0.25	193	654.80	455	1.57
56	269.00	68	0.23	125	536.00	55	0.19	194	655.80	210	0.73
57	274.00	62	0.21	126	538.00	124	0.43	195	656.80	55	0.19
58	276.00	57	0.20	127	540.00	57	0.20	196	662.80	63	0.22
59	281.00	118	0.41	128	546.00	60	0.21	197	664.80	66	0.23
60	289.00	87	0.30	129	551.00	79	0.27	198	667.80	132	0.46
61	294.00	84	0.29	130	552.00	178	0.61	199	668.90	103	0.36
62	299.00	60	0.21	131	553.00	65	0.22	200	669.90	1370	4.73
63	307.00	54	0.19	132	554.00	102	0.35	201	670.80	700	2.42
64	316.00	73	0.25	133	555.00	122	0.42	202	671.80	210	0.73
65	318.00	82	0.28	134	556.00	132	0.46	203	674.80	60	0.21
66	320.00	57	0.20	135	557.00	63	0.22	204	676.80	73	0.25
67	323.00	90	0.31	136	561.00	70	0.24	205	679.80	121	0.42
68	329.00	58	0.20	137	562.00	57	0.20	206	683.80	52	0.18
69	336.00	52	0.18	138	563.00	68	0.23	207	690.80	84	0.29
70	337.00	62	0.21	139	566.00	60	0.21	208	694.80	71	0.25
71	339.00	74	0.26	140	566.70	172	0.59	209	698.80	74	0.26
72	344.00	65	0.22	141	567.70	1162	4.01	210	700.80	55	0.19
73	346.00	54	0.19	142	568.70	489	1.69	211	701.80	63	0.22
74	349.00	63	0.22	143	569.70	146	0.50	212	703.80	68	0.23
75	350.00	86	0.30	144	570.70	74	0.26	213	705.80	52	0.18
76	351.00	52	0.18	145	577.70	54	0.19	214	709.80	52	0.18
77	358.00	82	0.28	146	578.70	65	0.22	215	712.80	79	0.27
78	361.00	57	0.20	147	579.70	238	0.82	216	713.80	84	0.29

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
217	714.80	73	0.25	219	725.80	118	0.41
218	719.80	114	0.39	220	726.80	62	0.21

# Peak Find - Memory-152

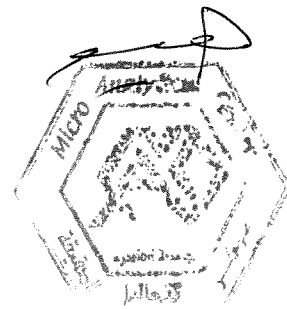


## [Comments]

Sample name SH-9 = 5  
 Comment 24/1/2017  
 User IR  
 Division IR  
 Company MAC

## [ Result of Peak Picking ]

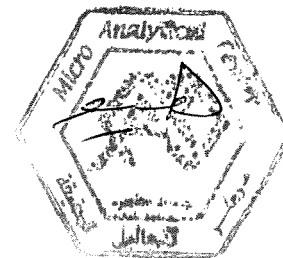
No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3855.01	97.7664	2	3750.87	97.5152	✓3	3424.96	83.0301
4	3330.46	83.3404	5	2930.31	79.5166	6	2862.81	86.8743
7	2377.8	98.0177	8	1707.66	90.3724	✓9	1650.77	81.6265
10	1577.49	91.5566	11	1533.13	92.8651	12	1456.96	89.4517
13	1385.6	88.3861	14	1320.04	92.5549	15	1256.4	92.3831
16	1210.11	91.4192	17	1174.44	91.9701	18	1087.66	91.855
19	1039.44	90.6812	20	994.125	92.9028	21	879.381	97.8637
22	807.063	97.6593	23	642.179	96.0794	24	545.756	96.9008
25	468.617	98.3735						





# Cairo University Micro Analytical Center

**DI Analysis**  
**Shimadzu Qp-2010 Plus**



## Sample Information

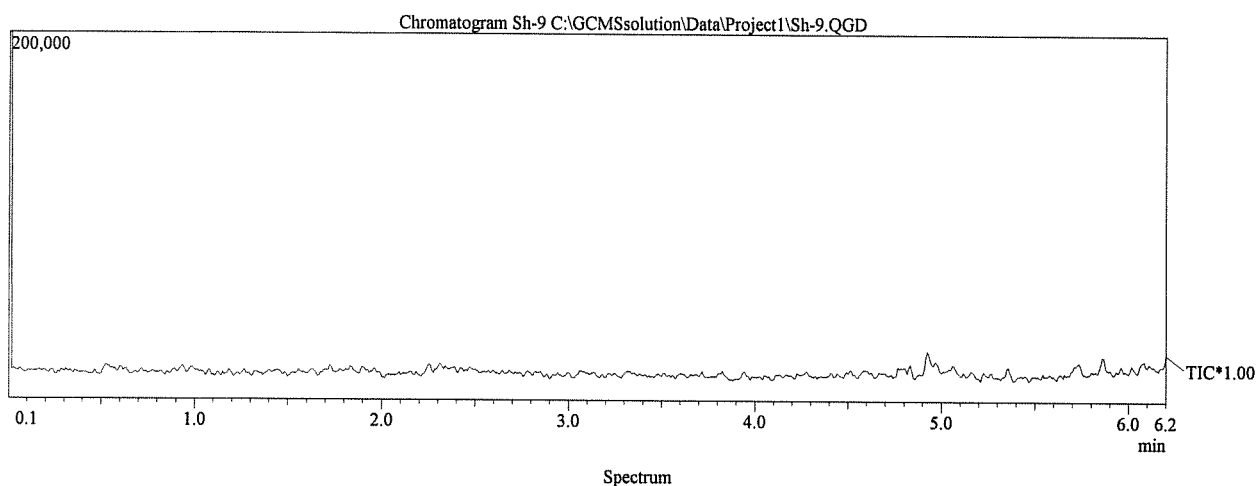
Analyzed by : Dr. Mai Younis  
 Analyzed : 29/01/2017 11:53:23 ص  
 Sample Name : Sh-9 25  
 Sample ID :  
 Customer Name : Dr. Gaber Osman - NRC  
 Data File : C:\GCMSsolution\Data\Project1\Sh-9.QGD  
 Org Data File : C:\GCMSsolution\Data\Project1\Sh-9.QGD  
 Method File : C:\GCMSsolution\Data\Project1\High Temperature Op  
 Org Method File : C:\GCMSsolution\Data\Project1\High Temperature Op  
 Report File :  
 Tuning File : C:\GCMSsolution\System\Tune1\\_default.qgt  
 \$EndIf\$Modified by : Dr. Mai Younis  
 Modified : 29/01/2017 11:59:38 ص

## Method

==== Analytical Line 1 ====  
 IonSourceTemp : 250.00 °C  
 [MS Table]  
 --Group 1 - Event 1--  
 Start Time : 0.00min  
 End Time : 10.00min  
 ACQ Mode : Scan  
 Event Time : 0.50sec  
 Scan Speed : 1666  
 Start m/z : 50.00  
 End m/z : 750.00

Electron Voltage : 70 eV  
 Ionization Mode : EI

C:\GCMSsolution\Data\Project1\Sh-9.QGD

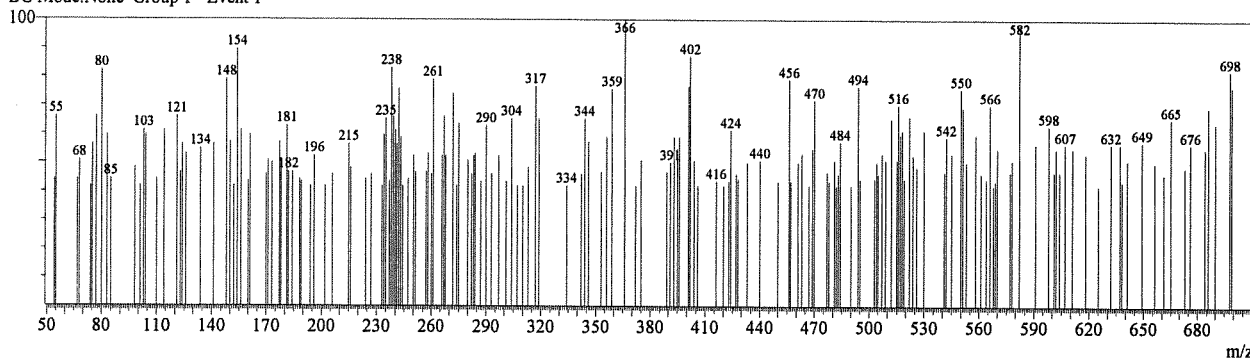


Line#:1 R.Time:4.3(Scan#:522)

MassPeaks:185

RawMode:Single 4.3(522) BasePeak:366(124)

BG Mode:None Group 1 - Event 1



## Mass Table

Line#:1 R.Time:4.3(Scan#:522)

MassPeaks:185

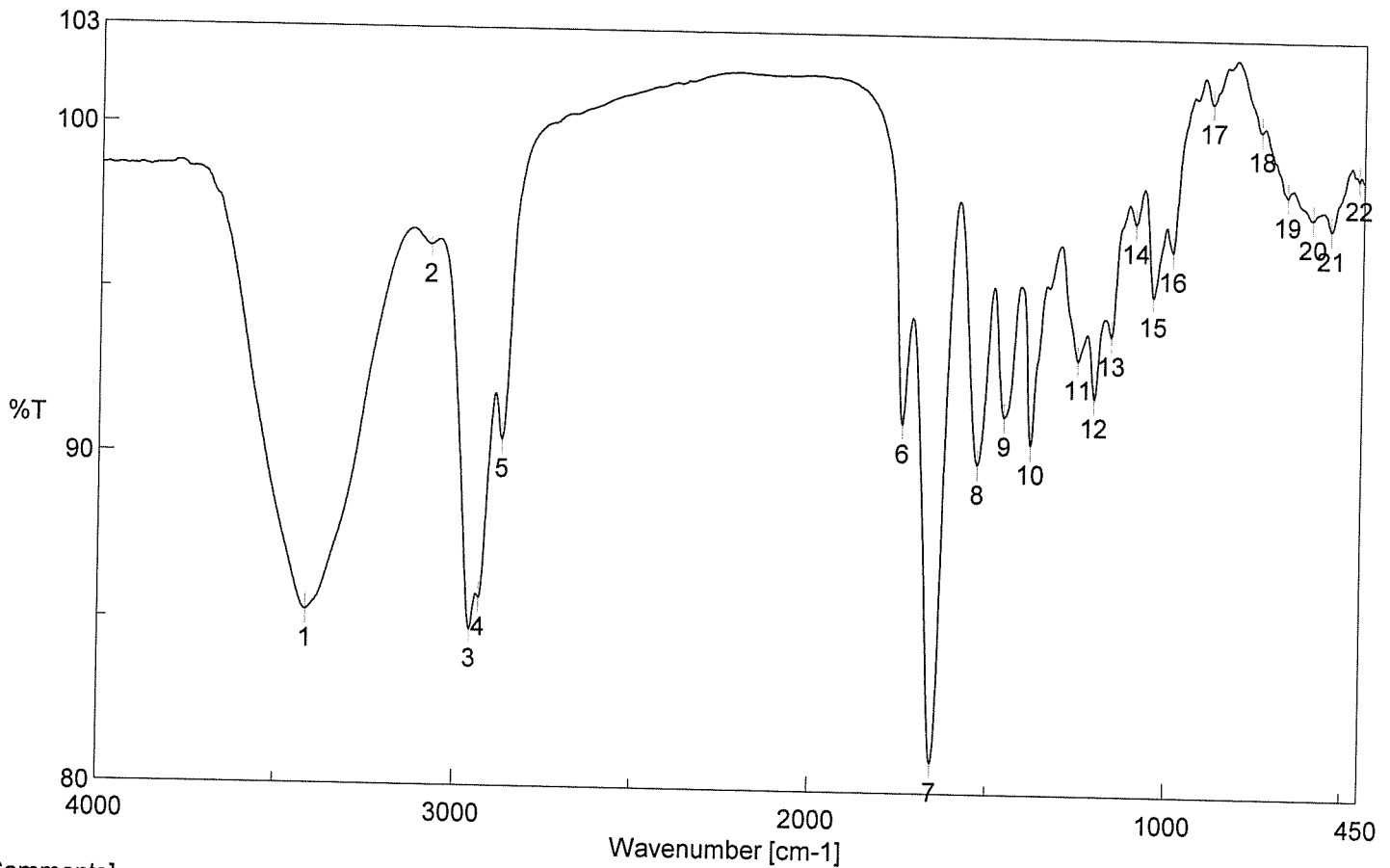
RawMode:Single 4.3(522) BasePeak:366(124)

BG Mode:None Group 1 - Event 1

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
1	54.00	55	44.35	4	68.00	63	50.81
2	55.00	82	66.13	5	74.00	52	41.94
3	67.00	55	44.35	6	75.00	70	56.45
				7	77.00	82	66.13
				8	80.00	102	82.26
				9	83.00	74	59.68

#	m/z	Abs. In	Ref. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
10	85.00	55	44.35	69	272.00	92	74.19	128	490.00	52	41.94
11	98.00	60	48.39	70	274.00	52	41.94	129	494.00	95	76.61
12	101.00	52	41.94	71	275.00	79	63.71	130	495.00	55	44.35
13	103.00	76	61.29	72	280.00	63	50.81	131	503.00	55	44.35
14	104.00	74	59.68	73	282.00	57	45.97	132	504.00	62	50.00
15	110.00	55	44.35	74	283.00	65	52.42	133	505.00	57	45.97
16	114.00	76	61.29	75	284.00	66	53.23	134	507.00	66	53.23
17	121.00	82	66.13	76	287.00	54	43.55	135	509.00	63	50.81
18	123.00	58	46.77	77	290.00	78	62.90	136	512.00	81	65.32
19	124.00	70	56.45	78	293.00	57	45.97	137	515.00	63	50.81
20	126.00	66	53.23	79	297.00	65	52.42	138	516.00	87	70.16
21	134.00	68	54.84	80	301.00	54	43.55	139	517.00	74	59.68
22	141.00	70	56.45	81	304.00	81	65.32	140	518.00	76	61.29
23	148.00	98	79.03	82	307.00	52	41.94	141	519.00	55	44.35
24	150.00	71	57.26	83	310.00	52	41.94	142	522.00	82	66.13
25	152.00	52	41.94	84	313.00	60	48.39	143	524.00	65	52.42
26	154.00	111	89.52	85	317.00	95	76.61	144	526.00	60	48.39
27	156.00	76	61.29	86	319.00	81	65.32	145	530.00	76	61.29
28	160.00	54	43.55	87	334.00	52	41.94	146	541.00	58	46.77
29	161.00	74	59.68	88	342.00	57	45.97	147	542.00	73	58.87
30	170.00	57	45.97	89	344.00	81	65.32	148	545.00	66	53.23
31	171.00	63	50.81	90	346.00	71	57.26	149	550.00	94	75.81
32	173.00	62	50.00	91	353.00	58	46.77	150	551.00	86	69.35
33	177.00	71	57.26	92	356.00	73	58.87	151	553.00	62	50.00
34	178.00	63	50.81	93	359.00	94	75.81	152	558.00	74	59.68
35	181.00	78	62.90	94	366.00	124	100.00	153	561.00	57	45.97
36	182.00	58	46.77	95	372.00	52	41.94	154	564.00	55	44.35
37	184.00	58	46.77	96	375.00	63	50.81	155	566.00	87	70.16
38	188.00	55	44.35	97	389.00	58	46.77	156	568.00	52	41.94
39	189.00	54	43.55	98	391.00	62	50.00	157	569.00	54	43.55
40	194.00	52	41.94	99	393.00	73	58.87	158	570.00	68	54.84
41	196.00	65	52.42	100	395.00	68	54.84	159	577.00	58	46.77
42	202.00	52	41.94	101	396.00	73	58.87	160	578.00	63	50.81
43	206.00	57	45.97	102	401.00	95	76.61	161	582.00	122	98.39
44	215.00	70	56.45	103	402.00	108	87.10	162	591.00	70	56.45
45	216.00	60	48.39	104	404.00	63	50.81	163	598.00	78	62.90
46	224.00	55	44.35	105	406.00	52	41.94	164	601.00	58	46.77
47	227.00	57	45.97	106	416.00	54	43.55	165	602.00	68	54.84
48	233.00	52	41.94	107	420.00	52	41.94	166	604.00	58	46.77
49	234.00	74	59.68	108	423.00	54	43.55	167	607.00	70	56.45
50	235.00	81	65.32	109	424.00	76	61.29	168	611.00	68	54.84
51	237.00	54	43.55	110	427.00	57	45.97	169	618.00	66	53.23
52	238.00	103	83.06	111	428.00	55	44.35	170	625.00	52	41.94
53	239.00	82	66.13	112	433.00	62	50.00	171	632.00	70	56.45
54	240.00	76	61.29	113	440.00	63	50.81	172	637.00	70	56.45
55	241.00	70	56.45	114	450.00	54	43.55	173	638.00	54	43.55
56	242.00	94	75.81	115	456.00	98	79.03	174	641.00	63	50.81
57	243.00	73	58.87	116	457.00	54	43.55	175	649.00	71	57.26
58	244.00	52	41.94	117	461.00	62	50.00	176	656.00	62	50.00
59	247.00	55	44.35	118	463.00	66	53.23	177	661.00	57	45.97
60	250.00	65	52.42	119	467.00	52	41.94	178	665.00	81	65.32
61	251.00	58	46.77	120	469.00	68	54.84	179	673.00	60	48.39
62	257.00	58	46.77	121	470.00	89	71.77	180	676.00	70	56.45
63	258.00	66	53.23	122	477.00	58	46.77	181	684.00	68	54.84
64	260.00	57	45.97	123	478.00	54	43.55	182	686.00	86	69.35
65	261.00	98	79.03	124	481.00	63	50.81	183	690.00	79	63.71
66	266.00	65	52.42	125	482.00	52	41.94	184	698.00	102	82.26
67	267.00	82	66.13	126	483.00	57	45.97	185	699.00	95	76.61
68	268.00	65	52.42	127	484.00	71	57.26				

# Peak Find - Memory-155

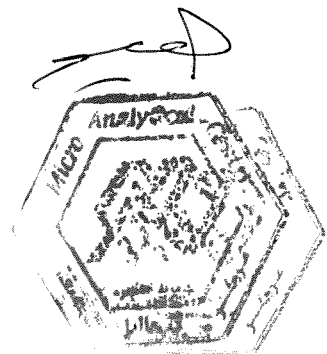


## [Comments]

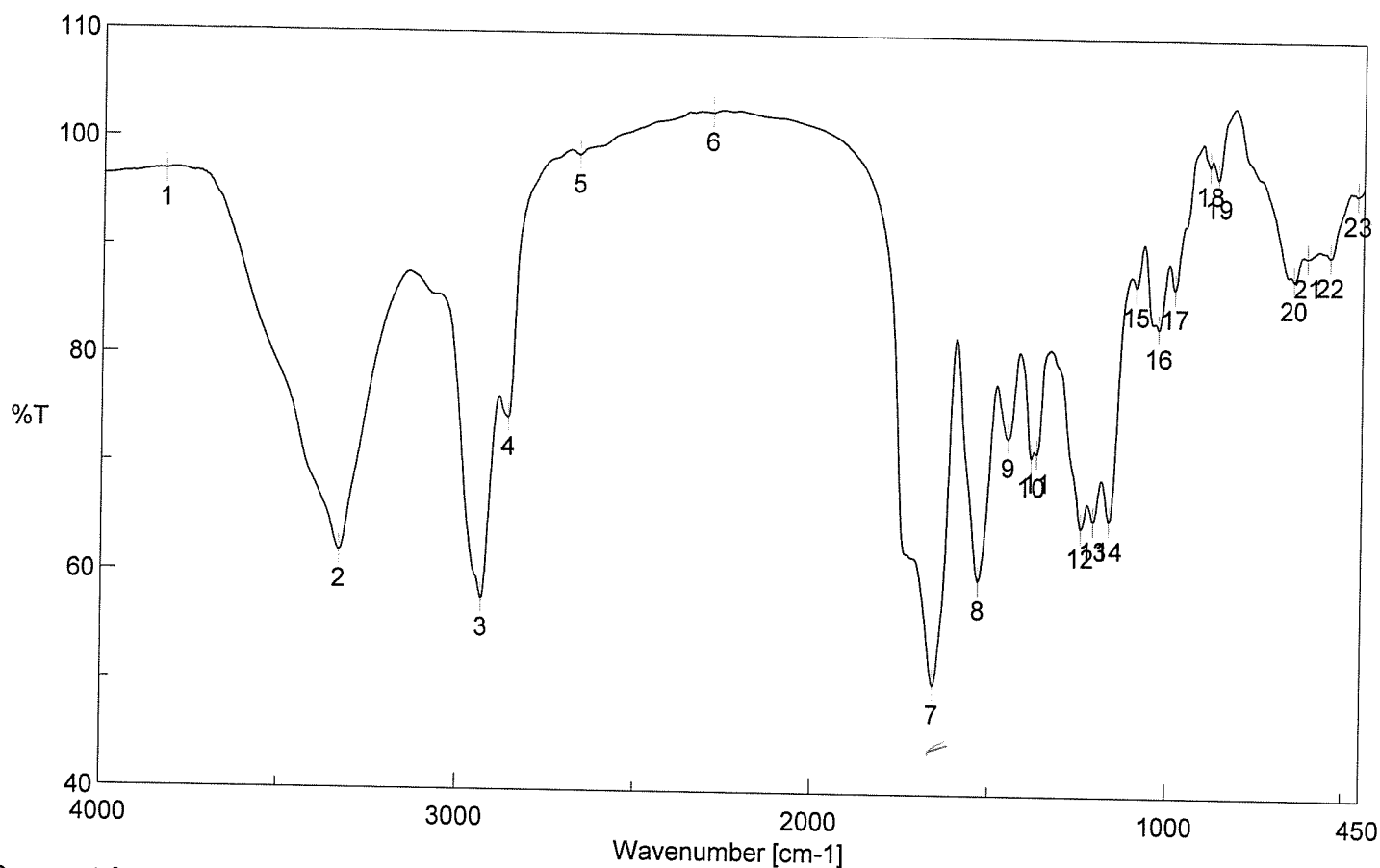
Sample name SH-10 = 7  
 Comment 24/1/2017  
 User IR  
 Division IR  
 Company MAC

## [ Result of Peak Picking ]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3414.35	85.2733	✓ 2	3072.05	96.3645	✓ 3	2956.34	84.737
4	2931.27	85.6993	5	2869.56	90.4874	6	1744.3	91.1526
7	1656.55	80.9428	✓ 8	1532.17	89.9617	✓ 9	1458.89	91.4227
✓ 10	1384.64	90.5868	11	1253.5	93.1838	12	1207.22	92.0273
13	1159.97	93.9263	14	1094.4	97.3515	15	1043.3	95.1443
16	990.268	96.5226	17	880.345	101.067	18	742.46	100.231
19	668.214	98.2486	20	593.968	97.5846	21	542.863	97.255
22	465.725	98.7938						



# Peak Find - Memory-174

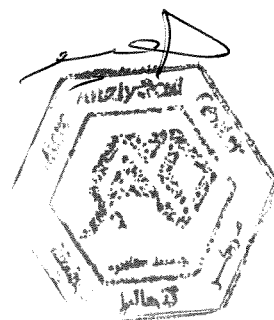


## [Comments]

Sample name SH-2 = 8  
 Comment 24/1/2017  
 User IR  
 Division IR  
 Company MAC

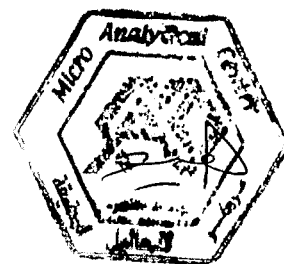
## [ Result of Peak Picking ]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3824.15	96.8742	✓ 2	3329.5	61.9202	3	2931.27	57.5931
4	2858.95	74.2732	5	2663.21	98.6153	6	2290.05	102.679
7	1658.48	50.1426	✓ 8	1532.17	59.7663	✓ 9	1452.14	72.9331
✓ 10	1386.57	71.1753	11	1372.1	71.5332	12	1246.75	64.7238
13	1212.04	65.377	14	1166.72	65.4258	15	1093.44	87.0638
16	1027.87	83.2525	17	983.518	86.9155	18	887.095	98.3064
19	862.989	97.1688	20	646.036	87.8817	21	606.503	89.9889
22	542.863	90.097	23	467.653	95.781			



# Cairo University Micro Analytical Center

## DI Analysis Shimadzu Qp-2010 Plus



### Sample Information

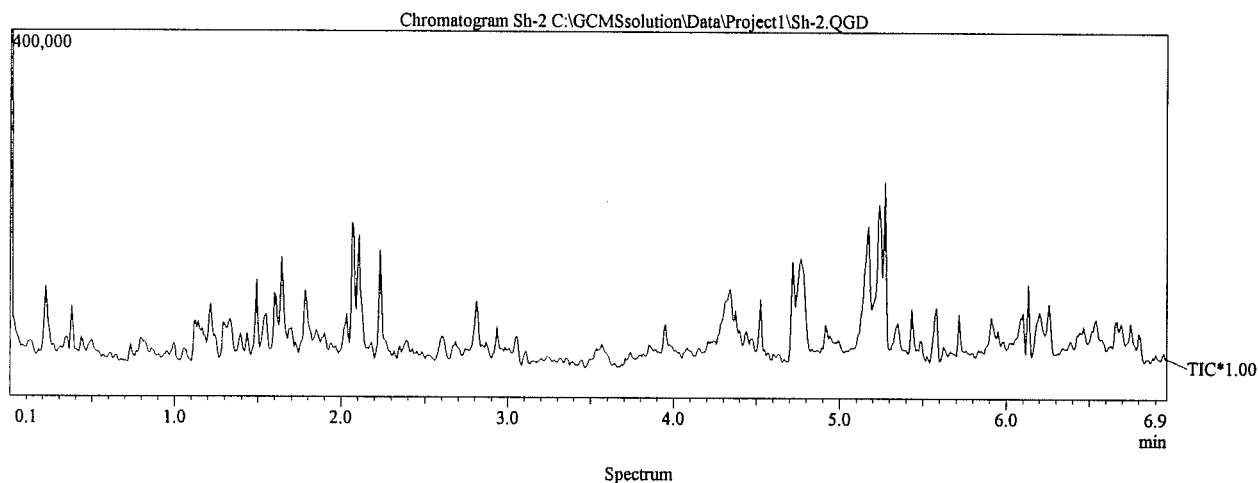
Analyzed by : Dr. Mai Younis  
 Analyzed : 29/01/2017 10:34:40  
 Sample Name : Sh-2 = 8  
 Sample ID :  
 Customer Name : Dr. Gaber Osman - NRC  
 Data File : C:\GCMSsolution\Data\Project1\Sh-2.QGD  
 Org Data File : C:\GCMSsolution\Data\Project1\Sh-2.QGD  
 Method File : C:\GCMSsolution\Data\Project1\High Temperature Op  
 Org Method File : C:\GCMSsolution\Data\Project1\High Temperature Op  
 Report File :  
 Tuning File : C:\GCMSsolution\System\Tune1\\_default.qgt  
 \$EndIf\$Modified by : Dr. Mai Younis  
 Modified : 29/01/2017 10:41:41

### Method

==== Analytical Line 1 ====  
 IonSourceTemp : 250.00 °C  
 [MS Table]  
 --Group 1 - Event 1--  
 Start Time : 0.00min  
 End Time : 10.00min  
 ACQ Mode : Scan  
 Event Time : 0.50sec  
 Scan Speed : 2500  
 Start m/z : 50.00  
 End m/z : 1090.00

Electron Voltage : 70 eV  
 Ionization Mode : EI

C:\GCMSsolution\Data\Project1\Sh-2.QGD

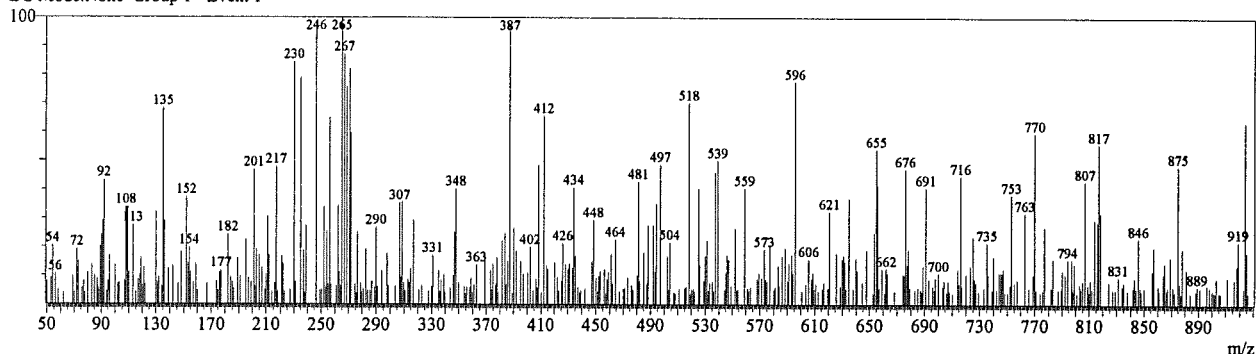


Line#:1 R.Time:5.2(Scan#:626)

MassPeaks:450

RawMode:Single 5.2(626) BasePeak:265(1392)

BG Mode:None Group 1 - Event 1



### Mass Table

Line#:1 R.Time:5.2(Scan#:626)

MassPeaks:450

RawMode:Single 5.2(626) BasePeak:265(1392)

BG Mode:None Group 1 - Event 1

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
1	50.00	111	7.97	4	56.00	146	10.49	7	69.00	134	9.63
2	53.00	130	9.34	5	58.00	68	4.89	8	70.00	58	4.17
3	54.00	282	20.26	6	62.00	55	3.95	9	72.00	266	19.11

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
10	73.00	209	15.01	79	211.00	428	30.75	148	339.80	58	4.17
11	76.00	79	5.68	80	212.00	239	17.17	149	343.80	78	5.60
12	77.00	111	7.97	81	214.00	58	4.17	150	345.80	137	9.84
13	78.00	55	3.95	82	216.00	102	7.33	151	346.80	350	25.14
14	80.00	151	10.85	83	217.00	666	47.84	152	347.80	559	40.16
15	83.00	190	13.65	84	218.00	62	4.45	153	349.80	102	7.33
16	85.00	137	9.84	85	221.00	231	16.59	154	353.80	84	6.03
17	87.00	122	8.76	86	222.00	196	14.08	155	354.80	52	3.74
18	88.00	78	5.60	87	223.00	60	4.31	156	355.80	82	5.89
19	89.00	281	20.19	88	227.00	71	5.10	157	357.80	78	5.60
20	90.00	338	24.28	89	230.00	1175	84.41	158	358.80	124	8.91
21	91.00	407	29.24	90	231.00	110	7.90	159	359.80	57	4.09
22	92.00	601	43.18	91	235.00	1098	78.88	160	360.80	94	6.75
23	94.00	63	4.53	92	237.00	260	18.68	161	362.80	190	13.65
24	95.00	111	7.97	93	238.00	57	4.09	162	368.80	217	15.59
25	96.00	236	16.95	94	239.00	380	27.30	163	372.80	162	11.64
26	100.00	190	13.65	95	246.25	1367	98.20	164	373.80	70	5.03
27	102.00	98	7.04	96	249.20	65	4.67	165	374.80	194	13.94
28	103.00	103	7.40	97	250.20	71	5.10	166	376.80	90	6.47
29	107.00	114	8.19	98	252.20	473	33.98	167	377.80	226	16.24
30	108.00	470	33.76	99	253.20	81	5.82	168	378.80	58	4.17
31	109.00	470	33.76	100	254.20	354	25.43	169	381.80	310	22.27
32	110.00	154	11.06	101	255.20	97	6.97	170	383.80	343	24.64
33	113.00	383	27.51	102	256.20	905	65.01	171	384.80	97	6.97
34	115.00	60	4.31	103	257.20	95	6.82	172	385.80	207	14.87
35	117.00	119	8.55	104	261.20	86	6.18	173	387.20	1343	96.48
36	118.00	140	10.06	105	262.20	478	34.34	174	389.20	52	3.74
37	119.00	225	16.16	106	263.20	154	11.06	175	390.20	369	26.51
38	120.00	92	6.61	107	264.20	90	6.47	176	392.20	257	18.46
39	121.00	177	12.72	108	265.15	1392	100.00	177	395.20	206	14.80
40	122.00	95	6.82	109	266.85	1212	87.07	178	397.20	145	10.42
41	130.00	449	32.26	110	268.80	1054	75.72	179	400.20	150	10.78
42	131.00	106	7.61	111	270.80	1142	82.04	180	402.20	276	19.83
43	132.00	130	9.34	112	271.80	830	59.63	181	404.20	65	4.67
44	134.00	86	6.18	113	274.80	97	6.97	182	406.20	122	8.76
45	135.00	948	68.10	114	275.80	54	3.88	183	407.20	81	5.82
46	136.00	404	29.02	115	276.80	351	25.22	184	408.20	674	48.42
47	139.00	170	12.21	116	278.80	102	7.33	185	410.20	55	3.95
48	142.00	185	13.29	117	279.80	58	4.17	186	412.20	913	65.59
49	146.00	100	7.18	118	280.80	73	5.24	187	414.20	186	13.36
50	148.00	255	18.32	119	282.80	265	19.04	188	415.20	167	12.00
51	152.00	519	37.28	120	283.80	66	4.74	189	420.20	201	14.44
52	153.00	199	14.30	121	285.80	66	4.74	190	422.20	129	9.27
53	154.00	273	19.61	122	286.80	110	7.90	191	423.20	66	4.74
54	155.00	156	11.21	123	288.80	82	5.89	192	425.20	111	7.97
55	157.00	105	7.54	124	289.80	372	26.72	193	426.20	295	21.19
56	159.00	196	14.08	125	290.80	86	6.18	194	428.20	191	13.72
57	160.00	65	4.67	126	293.80	161	11.57	195	430.20	170	12.21
58	167.00	100	7.18	127	297.80	246	17.67	196	431.20	196	14.08
59	174.00	111	7.97	128	298.80	87	6.25	197	433.20	175	12.57
60	175.00	68	4.89	129	303.80	86	6.18	198	434.20	566	40.66
61	176.00	153	10.99	130	306.80	490	35.20	199	435.20	234	16.81
62	177.00	162	11.64	131	307.80	130	9.34	200	437.20	81	5.82
63	182.00	338	24.28	132	308.80	497	35.70	201	438.20	54	3.88
64	184.00	132	9.48	133	309.80	103	7.40	202	439.20	66	4.74
65	185.00	108	7.76	134	310.80	66	4.74	203	442.20	73	5.24
66	186.00	76	5.46	135	312.80	119	8.55	204	447.20	204	14.66
67	189.00	222	15.95	136	313.80	105	7.54	205	448.20	407	29.24
68	191.00	135	9.70	137	314.80	170	12.21	206	450.20	127	9.12
69	195.00	314	22.56	138	316.80	407	29.24	207	451.20	63	4.53
70	197.00	127	9.12	139	320.80	68	4.89	208	452.20	135	9.70
71	199.00	108	7.76	140	322.80	89	6.39	209	453.20	158	11.35
72	201.00	652	46.84	141	327.80	63	4.53	210	456.20	167	12.00
73	202.00	87	6.25	142	329.80	86	6.18	211	457.20	52	3.74
74	203.00	265	19.04	143	330.80	236	16.95	212	458.20	118	8.48
75	205.00	236	16.95	144	334.80	161	11.57	213	459.20	154	11.06
76	207.00	175	12.57	145	335.80	62	4.45	214	461.20	242	17.39
77	209.00	71	5.10	146	336.80	114	8.19	215	462.20	100	7.18
78	210.00	143	10.27	147	338.80	142	10.20	216	464.20	314	22.56

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
217	467.20	62	4.45	286	595.75	1079	77.51	355	735.00	298	21.41
218	470.20	74	5.32	287	600.70	62	4.45	356	736.00	142	10.20
219	471.20	76	5.46	288	603.70	95	6.82	357	739.00	70	5.03
220	473.20	129	9.27	289	605.70	218	15.66	358	740.00	230	16.52
221	476.20	90	6.47	290	607.70	122	8.76	359	742.00	71	5.10
222	477.20	71	5.10	291	608.70	151	10.85	360	744.00	150	10.78
223	480.20	138	9.91	292	609.70	74	5.32	361	745.00	151	10.85
224	481.20	593	42.60	293	610.70	97	6.97	362	746.00	150	10.78
225	482.20	113	8.12	294	612.70	63	4.53	363	747.00	170	12.21
226	485.20	250	17.96	295	615.70	74	5.32	364	748.00	57	4.09
227	487.20	97	6.97	296	616.70	105	7.54	365	750.00	54	3.88
228	488.20	382	27.44	297	619.70	76	5.46	366	752.00	94	6.75
229	492.20	382	27.44	298	620.70	450	32.33	367	753.00	529	38.00
230	493.20	158	11.35	299	625.70	249	17.89	368	755.00	100	7.18
231	494.20	489	35.13	300	628.70	87	6.25	369	757.00	118	8.48
232	497.20	676	48.56	301	629.70	218	15.66	370	763.00	442	31.75
233	502.20	233	16.74	302	630.70	236	16.95	371	766.00	78	5.60
234	503.20	71	5.10	303	631.70	204	14.66	372	769.00	142	10.20
235	504.20	300	21.55	304	632.70	76	5.46	373	770.00	828	59.48
236	507.20	55	3.95	305	634.70	513	36.85	374	771.00	68	4.89
237	508.20	52	3.74	306	637.70	74	5.32	375	774.00	54	3.88
238	511.20	74	5.32	307	639.70	223	16.02	376	776.00	65	4.67
239	515.20	78	5.60	308	640.70	162	11.64	377	777.00	374	26.87
240	516.20	84	6.03	309	644.70	106	7.61	378	782.00	78	5.60
241	518.20	977	70.19	310	647.70	263	18.89	379	783.00	218	15.66
242	519.20	52	3.74	311	652.70	52	3.74	380	787.00	70	5.03
243	520.20	71	5.10	312	653.70	346	24.86	381	789.00	74	5.32
244	521.20	74	5.32	313	655.00	750	53.88	382	790.00	162	11.64
245	522.20	62	4.45	314	656.00	577	41.45	383	792.00	142	10.20
246	525.20	561	40.30	315	657.00	78	5.60	384	794.00	217	15.59
247	526.20	191	13.72	316	659.00	170	12.21	385	797.00	217	15.59
248	529.20	113	8.12	317	661.00	55	3.95	386	798.00	68	4.89
249	530.20	234	16.81	318	662.00	172	12.36	387	799.00	196	14.08
250	531.20	311	22.34	319	663.00	148	10.63	388	801.00	52	3.74
251	532.20	66	4.74	320	668.00	62	4.45	389	803.00	95	6.82
252	533.20	102	7.33	321	674.00	143	10.27	390	804.00	73	5.24
253	535.20	110	7.90	322	675.00	142	10.20	391	805.00	111	7.97
254	536.20	65	4.67	323	676.00	654	46.98	392	807.00	596	42.82
255	537.20	639	45.91	324	677.00	191	13.72	393	809.00	94	6.75
256	539.20	695	49.93	325	678.00	266	19.11	394	810.00	60	4.31
257	544.20	68	4.89	326	679.00	79	5.68	395	811.00	116	8.33
258	545.20	150	10.78	327	683.00	70	5.03	396	812.00	73	5.24
259	546.20	238	17.10	328	685.00	79	5.68	397	814.00	410	29.45
260	547.20	214	15.37	329	687.00	71	5.10	398	816.00	398	28.59
261	549.20	86	6.18	330	688.00	60	4.31	399	817.00	775	55.68
262	552.20	370	26.58	331	689.00	185	13.29	400	818.00	442	31.75
263	553.20	68	4.89	332	691.00	564	40.52	401	824.00	108	7.76
264	554.20	71	5.10	333	693.00	119	8.55	402	827.00	68	4.89
265	559.20	562	40.37	334	696.00	86	6.18	403	829.00	71	5.10
266	561.20	76	5.46	335	697.00	68	4.89	404	831.00	132	9.48
267	562.20	66	4.74	336	698.00	127	9.12	405	834.00	89	6.39
268	563.20	82	5.89	337	700.00	148	10.63	406	835.00	105	7.54
269	568.20	122	8.76	338	703.00	86	6.18	407	838.00	65	4.67
270	569.20	150	10.78	339	704.00	113	8.12	408	842.00	79	5.68
271	571.20	126	9.05	340	706.00	58	4.17	409	843.00	126	9.05
272	573.20	265	19.04	341	707.00	113	8.12	410	844.00	76	5.46
273	574.20	118	8.48	342	708.00	63	4.53	411	846.00	319	22.92
274	575.20	111	7.97	343	710.00	52	3.74	412	847.00	78	5.60
275	577.20	282	20.26	344	714.00	169	12.14	413	848.00	63	4.53
276	580.20	71	5.10	345	715.00	100	7.18	414	850.00	78	5.60
277	581.20	82	5.89	346	716.00	620	44.54	415	856.00	161	11.57
278	583.20	186	13.36	347	717.00	87	6.25	416	857.00	276	19.83
279	584.20	89	6.39	348	720.00	145	10.42	417	860.00	87	6.25
280	586.20	233	16.74	349	723.00	186	13.36	418	861.00	65	4.67
281	588.20	271	19.47	350	725.00	327	23.49	419	864.00	146	10.49
282	590.20	113	8.12	351	726.00	122	8.76	420	865.00	198	14.22
283	591.20	198	14.22	352	727.00	106	7.61	421	866.00	68	4.89
284	593.20	239	17.17	353	729.00	60	4.31	422	867.00	79	5.68
285	594.20	148	10.63	354	733.00	78	5.60	423	869.00	228	16.38

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
424	871.00	84	6.03	433	889.00	86	6.18	442	906.00	55	3.95
425	872.00	60	4.31	434	891.00	79	5.68	443	911.00	129	9.27
426	875.00	668	47.99	435	896.00	92	6.61	444	916.00	121	8.69
427	876.00	102	7.33	436	898.00	82	5.89	445	918.00	188	13.51
428	877.00	52	3.74	437	900.00	65	4.67	446	919.00	305	21.91
429	878.00	268	19.25	438	901.00	58	4.17	447	923.00	76	5.46
430	881.00	167	12.00	439	902.00	57	4.09	448	924.00	881	63.29
431	884.00	54	3.88	440	903.00	127	9.12	449	925.00	252	18.10
432	888.00	66	4.74	441	905.00	57	4.09	450	926.00	54	3.88