

5

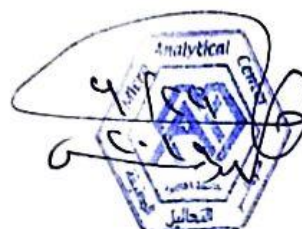
Cairo University Micro Analytical Center

DI Analysis
Shimadzu Qp-2010 Plus

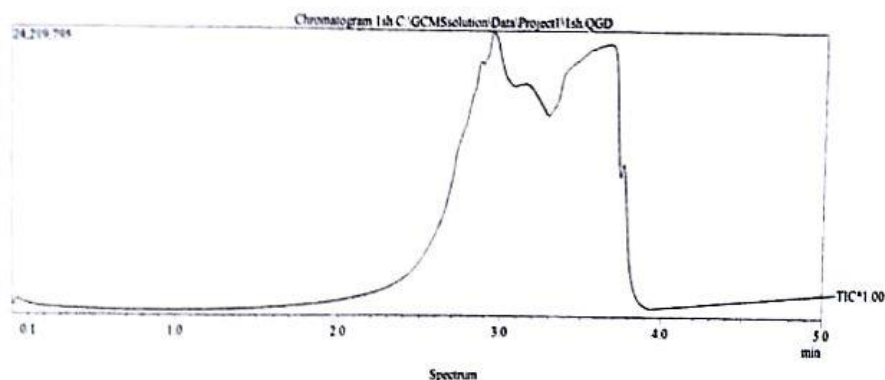
Sample Information
Analyst: Dr. M. Youssef
Sample Name: 28/09/2019 04:18:05
Sample ID:
Sample Name: Dr. Hoda Kamel Science - Cairo
Data File: C:\GCMSolution\Data\Project1\1sh.QGD
Orig. Data File: C:\GCMSolution\Data\Project1\1sh.QGD
Method File: C:\GCMSolution\Data\Project1\High Temperature Op
Orig. Method File: C:\GCMSolution\Data\Project1\High Temperature Op
Report File:
Timing File: C:\GCMSolution\System1\default.qpt
Method Modified by: Dr. M. Youssef
Modified: 28/09/2019 03:22:04

Method

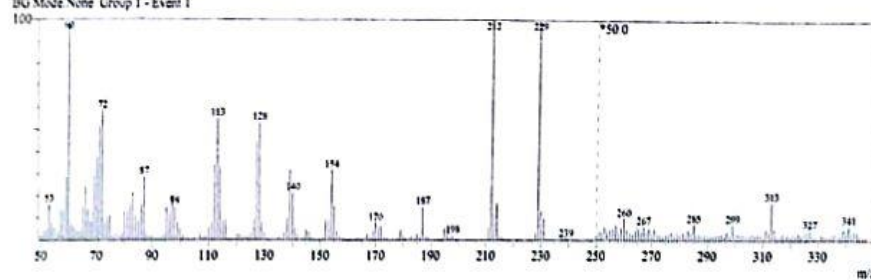
Analytical Line 1
InletSourceTemp: 250.00 °C
[MS Table]
-Group 1 - Event 1-
Start Time: 0.00min
End Time: 10.00min
ACQ Mode: Scan
Event Time: 0.50sec
Scan Speed: 1250
Start m/z: 50.00
End m/z: 650.00
Electron Voltage: 70 eV
Ionization Mode: EI



C:\GCMSolution\Data\Project1\1sh.QGD



Line# 1 R.Time:3.4(Scan# 411)
MassPeaks:298
RawMode:Single 3.4(411) BasePeak:212(1374518)
BG Mode:None Group 1 - Event 1



Mass Table

Line# 1 R.Time:3.4(Scan# 411)

MassPeaks:298

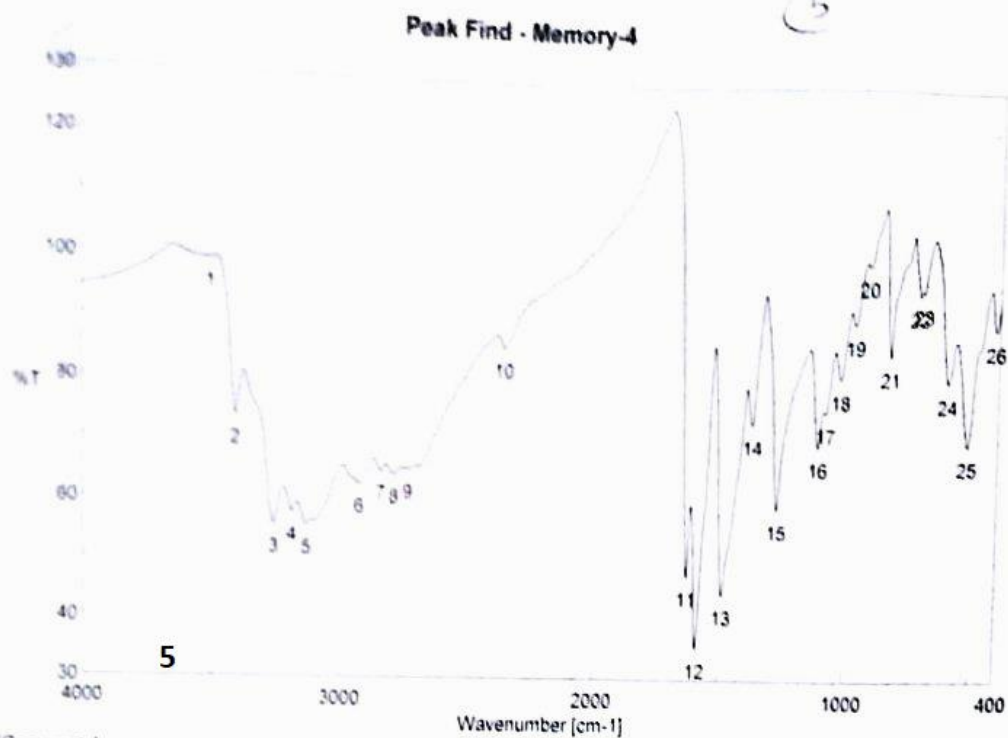
RawMode:Single 3.4(411) BasePeak:212(1374518)

BG Mode:None Group 1 - Event 1

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
1	50.00	24598	1.79	4	53.00	221041	16.08
2	51.00	56298	4.10	5	54.00	109042	7.93
3	52.05	68718	5.00	6	55.05	79897	5.81
				7	56.05	48159	3.50
				8	57.05	192449	14.00
				9	58.00	179887	13.09

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
10	59.05	291224	28.46	79	128.05	731940	53.25	148	196.95	21041	1.53
11	59.95	134052	97.53	80	129.05	110902	8.07	149	197.90	26430	1.92
12	61.00	96775	7.04	81	130.05	46713	3.40	150	198.90	5260	0.38
13	62.00	82721	6.02	82	131.05	7696	0.56	151	199.90	3791	0.28
14	63.05	58156	4.23	83	132.05	3703	0.27	152	200.95	1404	0.10
15	64.05	54000	3.93	84	133.10	2898	0.21	153	201.95	680	0.05
16	65.05	210061	15.28	85	134.05	2688	0.20	154	203.00	732	0.05
17	66.05	333727	24.28	86	135.05	13722	1.00	155	204.05	410	0.03
18	67.05	192599	14.01	87	136.05	12065	0.88	156	205.05	715	0.05
19	68.05	117545	8.55	88	137.05	47555	3.46	157	205.95	546	0.04
20	69.00	402076	29.25	89	138.05	135852	9.88	158	206.95	575	0.04
21	70.00	518098	37.69	90	139.05	434954	31.64	159	207.95	877	0.06
22	71.00	713982	51.94	91	140.05	294884	21.45	160	208.95	1199	0.09
23	72.00	805335	58.59	92	141.05	75945	5.53	161	209.95	3601	0.26
24	73.00	100924	7.34	93	142.05	32234	2.35	162	210.95	78441	5.71
25	74.00	142998	10.40	94	143.05	10033	0.73	163	211.90	137451	100.00
26	75.00	149972	10.91	95	144.05	23639	1.72	164	212.85	175171	12.74
27	76.00	30822	2.24	96	145.00	61241	4.46	165	213.90	226921	16.51
28	77.00	38671	2.81	97	146.00	47287	3.44	166	214.85	24472	1.78
29	78.05	27965	2.03	98	147.00	10074	0.73	167	215.90	13358	0.97
30	79.05	46195	3.36	99	148.00	6546	0.48	168	216.90	1841	0.13
31	80.05	180867	13.16	100	149.00	3255	0.24	169	217.95	874	0.06
32	81.05	171309	12.46	101	150.05	2822	0.21	170	218.95	764	0.06
33	82.05	223008	16.22	102	151.05	13499	0.98	171	219.95	640	0.05
34	83.00	293895	21.38	103	152.00	128137	9.32	172	221.00	783	0.06
35	84.00	147964	10.76	104	153.05	123052	8.95	173	222.00	674	0.05
36	85.05	115543	8.41	105	154.00	436241	31.74	174	223.00	854	0.06
37	86.05	221862	16.14	106	155.00	218170	15.87	175	224.05	642	0.05
38	87.00	394095	28.67	107	156.00	52622	3.83	176	225.05	2250	0.16
39	88.00	41374	3.01	108	157.00	18820	1.37	177	225.95	1084	0.08
40	89.00	23001	1.67	109	158.00	8783	0.64	178	226.95	2959	0.22
41	90.05	24120	1.75	110	159.00	3354	0.24	179	227.95	49600	3.61
42	91.05	10820	0.79	111	159.95	2652	0.19	180	228.90	135366	98.48
43	92.05	9194	0.67	112	161.05	1495	0.11	181	229.85	181643	13.22
44	93.05	25037	1.82	113	162.00	2959	0.22	182	230.90	132503	9.64
45	94.15	37202	2.71	114	163.05	4756	0.35	183	231.85	16612	1.21
46	95.05	198572	14.45	115	164.00	7758	0.56	184	232.90	5170	0.38
47	96.05	160563	11.68	116	165.05	4801	0.35	185	233.90	1161	0.08
48	97.00	275119	20.02	117	166.00	14009	1.02	186	235.00	673	0.05
49	98.00	206068	14.99	118	167.00	32762	2.38	187	236.00	998	0.07
50	99.00	106609	7.76	119	168.05	17361	1.26	188	237.05	1131	0.08
51	100.00	72967	5.31	120	169.00	56657	4.12	189	238.15	1081	0.08
52	101.00	30974	2.25	121	169.95	103949	7.56	190	239.10	4526	0.33
53	102.00	12145	0.88	122	170.95	82623	6.01	191	240.00	1500	0.11
54	103.00	11108	0.81	123	171.90	85897	6.25	192	241.05	1315	0.10
55	104.05	5914	0.43	124	172.90	18490	1.35	193	242.00	1135	0.08
56	105.05	15175	1.10	125	173.90	12671	0.92	194	243.05	988	0.07
57	106.15	13428	0.98	126	174.95	2230	0.16	195	243.95	682	0.05
58	107.05	42517	3.09	127	175.95	1205	0.09	196	245.05	769	0.06
59	108.05	17631	1.28	128	177.05	1304	0.09	197	246.05	581	0.04
60	109.05	25026	1.82	129	178.05	5604	0.41	198	247.10	1012	0.07
61	110.05	72820	5.30	130	178.95	64037	4.66	199	248.10	644	0.05
62	111.05	108130	7.87	131	179.95	27787	2.02	200	249.10	618	0.04
63	112.05	467522	34.01	132	180.95	10492	0.76	201	250.05	758	0.06
64	113.05	755935	55.00	133	181.95	9400	0.68	202	251.05	1063	0.08
65	114.00	458102	33.33	134	182.95	19088	1.39	203	252.00	1023	0.07
66	115.05	121975	8.87	135	183.95	9415	0.68	204	253.00	1590	0.12
67	116.05	125101	9.10	136	184.95	36774	2.68	205	253.95	1062	0.08
68	117.05	11904	0.87	137	185.95	19279	1.40	206	255.05	1250	0.09
69	118.05	8151	0.59	138	186.95	206356	15.01	207	256.05	1419	0.10
70	119.15	6279	0.46	139	187.90	21761	1.58	208	257.05	1904	0.14
71	120.10	32244	2.35	140	188.90	19700	1.43	209	257.95	933	0.07
72	121.10	37807	2.75	141	189.95	2463	0.18	210	259.00	1510	0.11
73	122.10	17055	1.24	142	191.00	1380	0.10	211	260.00	2644	0.19
74	123.10	18839	1.37	143	191.95	815	0.06	212	261.00	1196	0.09
75	124.10	24324	1.77	144	192.95	1173	0.09	213	262.00	830	0.06
76	125.10	44054	3.21	145	193.95	6702	0.49	214	263.05	740	0.05
77	126.15	120952	8.80	146	194.90	69545	5.06	215	264.05	1212	0.09
78	127.05	618871	45.02	147	195.95	38137	2.77	216	265.05	1404	0.10

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
217	266.05	993	0.07	245	294.05	616	0.04	273	321.95	535	0.04
218	267.05	1679	0.12	246	295.05	731	0.05	274	321.00	739	0.06
219	268.00	921	0.07	247	295.95	538	0.04	275	321.00	567	0.04
220	269.00	1465	0.11	248	296.95	1023	0.07	276	325.15	958	0.07
221	270.05	874	0.06	249	297.95	619	0.05	277	326.05	1092	0.08
222	271.00	1334	0.10	250	299.05	1922	0.14	278	327.05	1223	0.09
223	272.05	704	0.05	251	299.95	695	0.05	279	327.90	652	0.05
224	272.95	622	0.05	252	300.95	798	0.06	280	328.90	394	0.03
225	273.95	464	0.03	253	302.05	750	0.05	281	329.90	265	0.02
226	274.95	605	0.04	254	303.00	646	0.05	282	331.05	631	0.05
227	275.90	657	0.05	255	304.00	513	0.04	283	332.00	502	0.04
228	276.90	932	0.07	256	305.05	620	0.05	284	333.00	422	0.03
229	278.05	600	0.04	257	305.95	820	0.06	285	334.00	410	0.03
230	279.10	935	0.07	258	307.05	623	0.05	286	334.95	652	0.05
231	280.05	705	0.05	259	308.00	732	0.05	287	335.95	890	0.06
232	281.10	919	0.07	260	309.05	652	0.05	288	337.05	512	0.04
233	282.05	670	0.05	261	310.05	511	0.04	289	338.05	520	0.04
234	283.05	1193	0.09	262	311.05	1238	0.09	290	339.10	1319	0.10
235	284.05	906	0.07	263	312.15	1102	0.08	291	340.15	1278	0.09
236	285.10	1953	0.14	264	313.10	3695	0.34	292	341.10	1764	0.13
237	286.00	654	0.05	265	314.00	1338	0.10	293	342.00	719	0.05
238	287.00	753	0.05	266	314.90	594	0.04	294	343.00	1150	0.08
239	288.05	553	0.04	267	316.00	441	0.03	295	343.95	954	0.07
240	289.00	575	0.04	268	317.00	751	0.05	296	344.90	564	0.04
241	290.05	570	0.04	269	318.00	374	0.03	297	345.95	455	0.03
242	291.05	508	0.04	270	318.95	487	0.04	298	347.00	353	0.03
243	292.00	577	0.04	271	320.00	470	0.03				
244	293.05	614	0.04	272	321.00	636	0.05				



[Comments]

Sample name

Comment 5/2018

User IR

Division IR

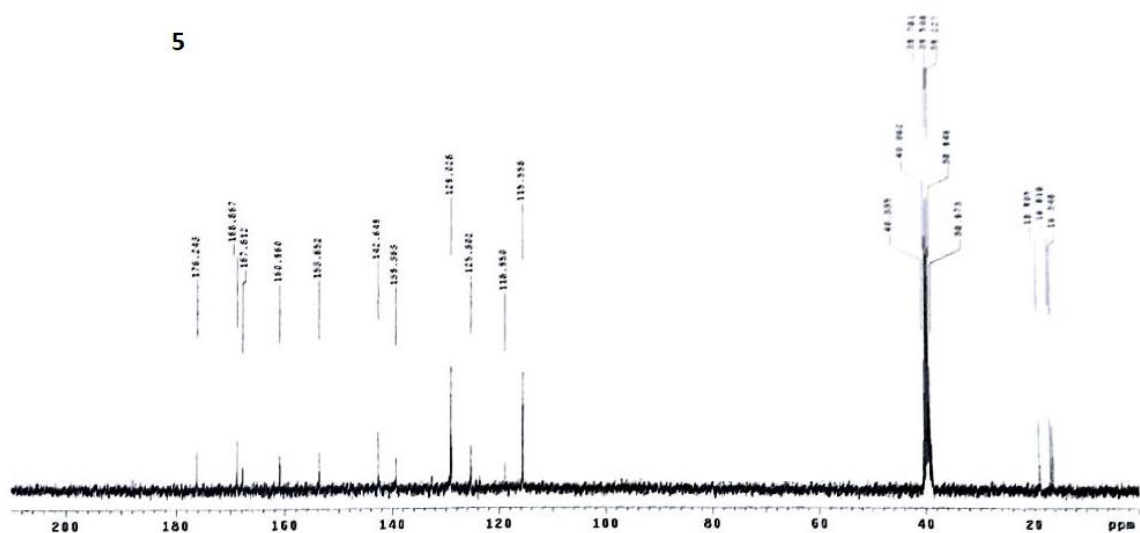
Company MAC

[Result of Peak Picking]

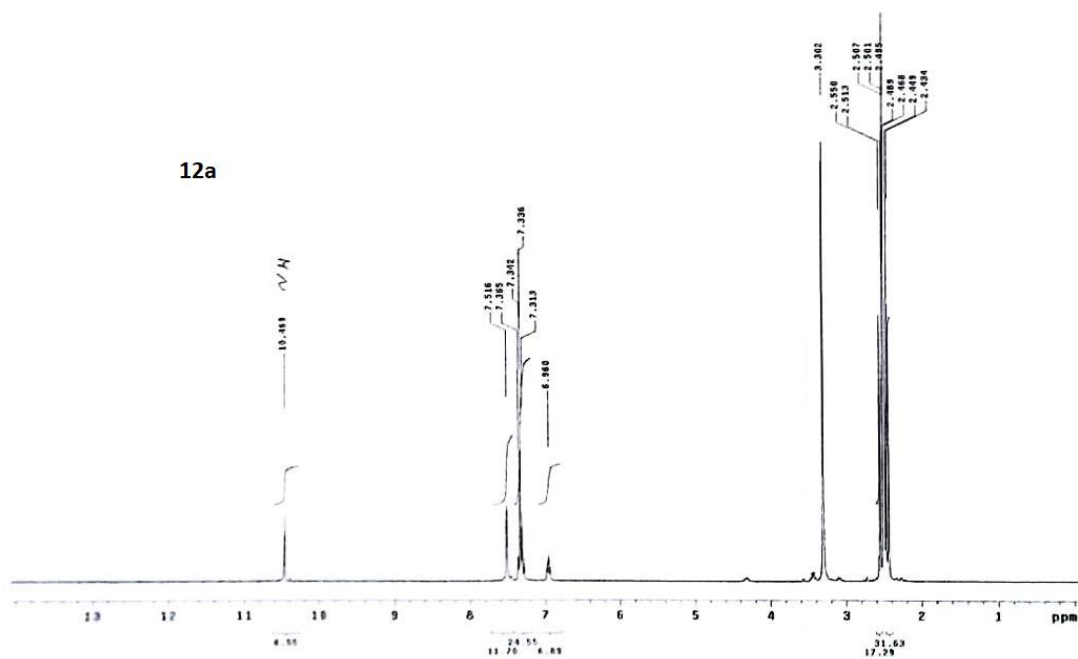
No	Position	Intensity	No	Position	Intensity	No	Position	Intensity
1	3505.95	99.8298	2	3408.57	74.0181	3	3260.07	55.7072
4	3189.68	57.78	5	3133.76	55.6291	6	2928.38	62.7584
7	2844.49	65.0463	8	2793.38	64.5018	9	2739.39	65.3682
10	2363.34	86.1976	11	1631.48	47.6962	12	1591.95	35.4582
13	1491.67	44.6196	14	1376.93	73.8279	15	1277.61	59.4119
16	1116.58	70.1354	17	1087.66	75.9074	18	1028.84	81.6097
19	973.876	90.7925	20	922.771	100.515	21	832.133	85.4158
22	720.282	95.4796	23	704.855	95.9484	24	604.574	80.7902
25	522.615	70.2353	26	414.62	89.8112			

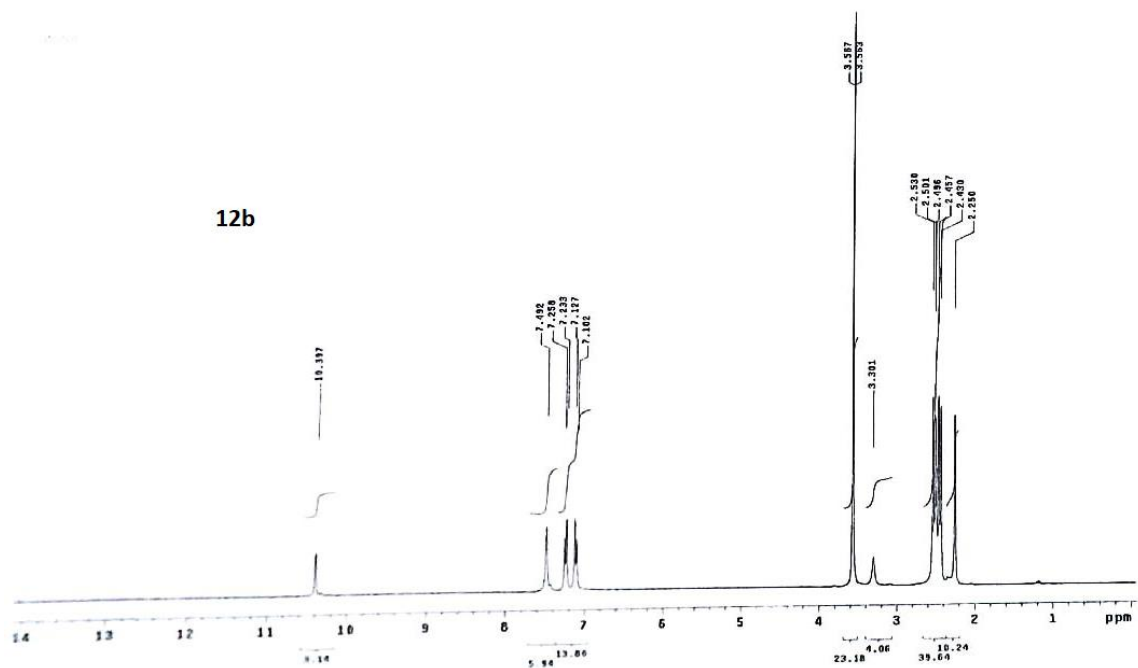


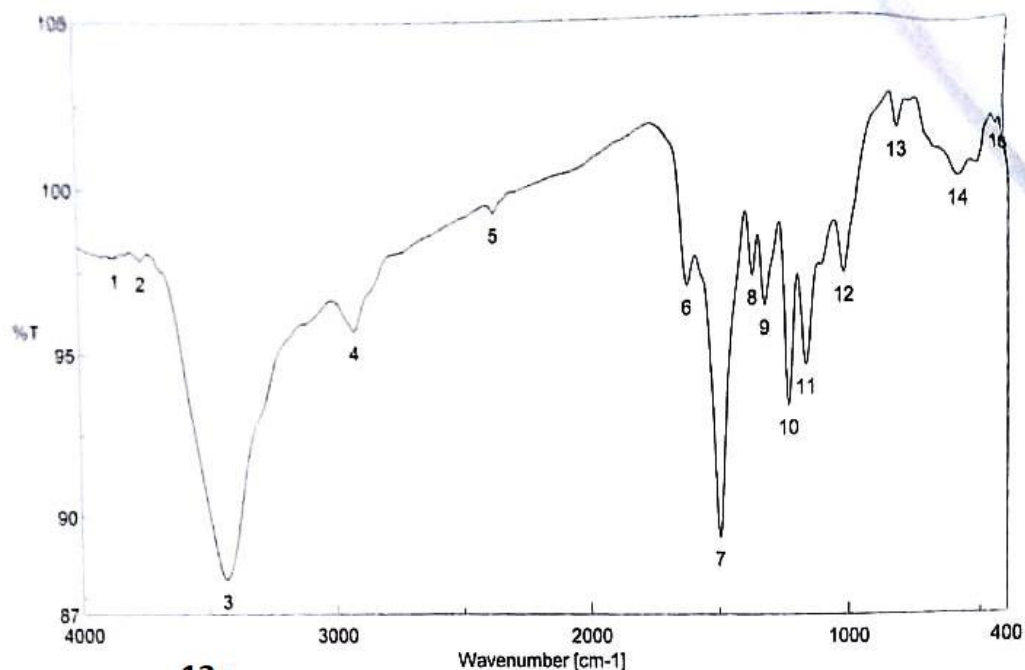
5



12a





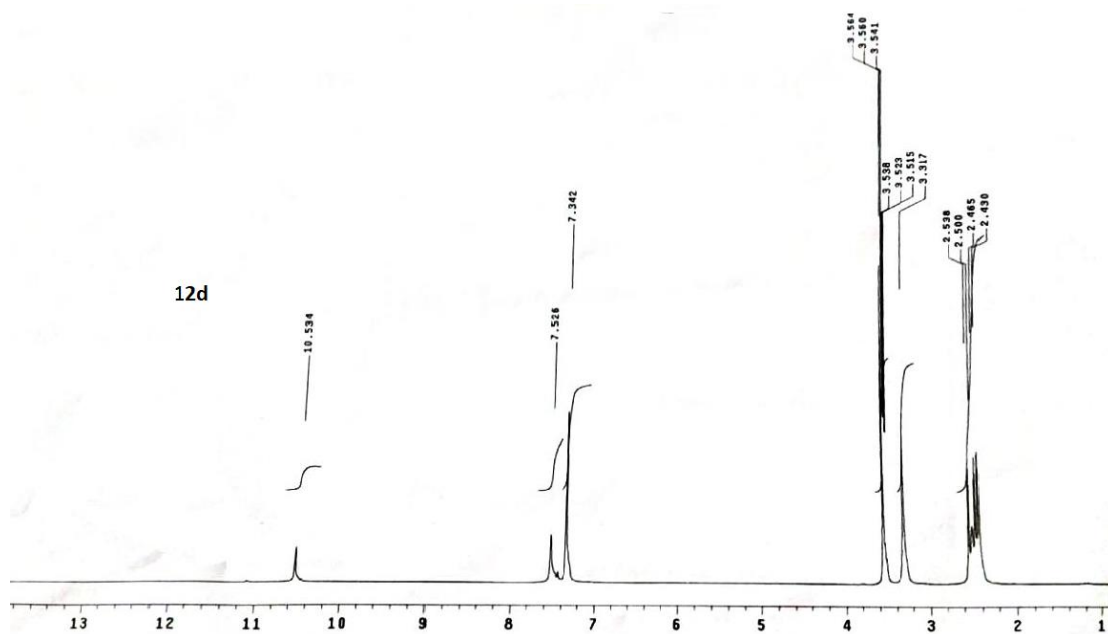


12c
 [Comments]
 Sample name
 Comment 4/2018
 User IR
 Division IR
 Company MAC

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3855.97	97.925	2	3752.8	97.8479	3	3430.74	88.0687
4	2924.52	95.7071	5	2375.87	99.3106	6	1623.77	97.0557
7	1496.49	89.3904	8	1374.03	97.2845	9	1326.79	96.3746
10	1233.25	93.3798	11	1167.69	94.5738	12	1023.05	97.3436
13	824.42	101.609	14	590.111	100.121	15	431.012	101.914





12d

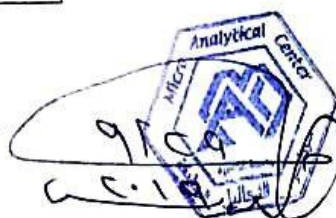
Cairo University Micro Analytical Center

DI Analysis Shimadzu Qp-2010 Plus

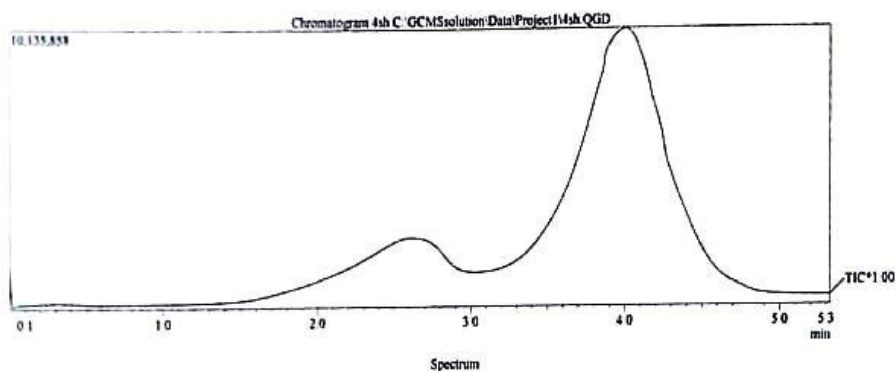
Sample Information
 Analyzed by Dr. Mai Younis
 Analyzed 28/09/2019 04:24:40
 Sample Name Jib
 Sample ID
 Customer Name Dr. Hoda Kameel - Science - Cairo
 Data File C:\GCMSolution\Data\Project1\4sh QGD
 Orig. Data File C:\GCMSolution\Data\Project1\4sh QGD
 Method File C:\GCMSolution\Data\Project1\High Temperature Op
 Orig. Method File C:\GCMSolution\Data\Project1\High Temperature Op
 Report File
 Tuning File C:\GCMSolution\System Tune1_default.gci
 Head/Mod/Modified by Dr. Mai Younis
 Modified 28/09/2019 04:30:03

Method

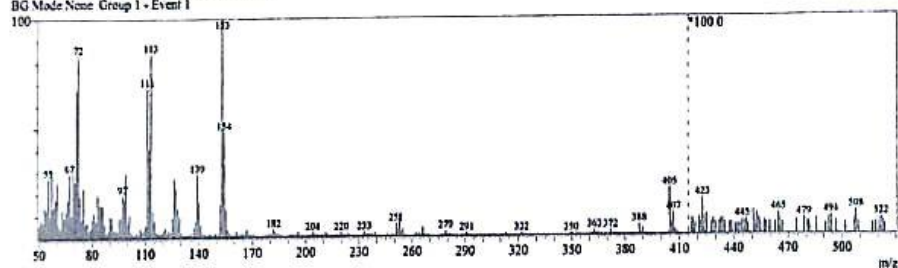
Analytical Line 1
 IonSource Temp 250.00 °C
 [MS Table]
 -Group 1 - Event 1-
 Start Time 0.00min
 End Time 10.00min
 Scan ACQ Mode
 Event Time 0.50sec
 Scan Speed 1250
 Start m/z 50.00
 End m/z 650.00
 Electron Voltage 70 eV
 Ionization Mode EI



C:\GCMSolution\Data\Project1\4sh QGD



Line# 1 R.Time:3.6(Scan# 431)
 MassPeaks:420
 RawMode:Single 3.6(431) BasePeak:153(232681)
 BG Mode:None Group 1 - Event 1



Mass Table

Line# 1 R.Time:3.6(Scan# 431)

MassPeaks:420

RawMode:Single 3.6(431) BasePeak:153(232681)

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	50.05	13504	5.80	4	53.05	32803	14.10	7	56.10	23689	10.18
2	51.05	19357	8.32	5	54.10	29137	12.52	8	57.10	66004	28.37
3	52.05	16536	7.11	6	55.10	63681	27.37	9	58.05	31865	13.69

13a

Cairo University Micro Analytical Center

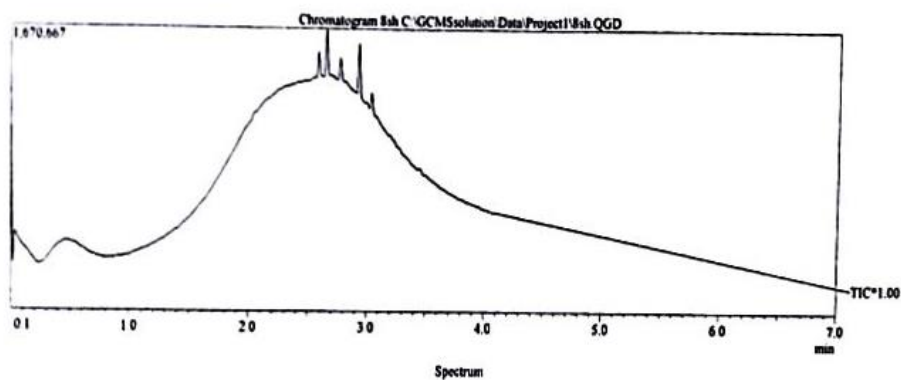
DI Analysis Shimadzu Qp-2010 Plus

Sample Information
 Analyzed by Dr. Mai Younis
 Analyzed 28/09/2019 05:35:13
 Sample Name Rsh
 Sample ID
 Customer Name Dr. Hoda Kamel - Science - Cairo
 Data File C:\GCMSolution\Data\Project1\8sh QGD
 Orig Data File C:\GCMSolution\Data\Project1\8sh QGD
 Method File C:\GCMSolution\Data\Project1\High Temperature Op
 Orig Method File C:\GCMSolution\Data\Project1\High Temperature Op
 Report File
 Tuning File C:\GCMSolution\System1\Tune1\default.gct
 SEAD/Modified by Dr. Mai Younis
 Modified 28/09/2019 05:39:22

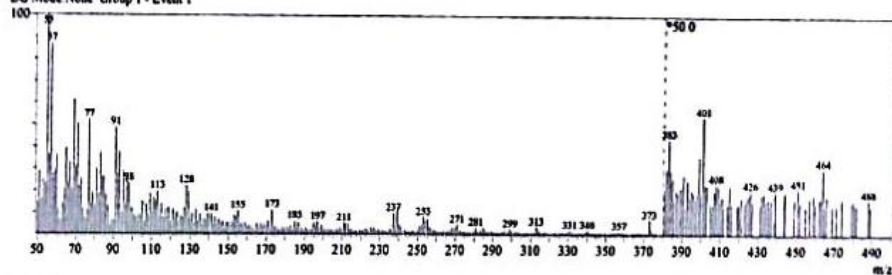
Method
 Analytical Line 1
 IonSourceTemp 250.00 °C
 [MS Table]
 -Group 1 - Event 1-
 Start Time 0.00min
 End Time 10.00min
 ACQ Mode Scan
 Event Time 0.50sec
 Scan Speed 1250
 Start m/z 50.00
 End m/z 650.00
 Electron Voltage 70 eV
 Ionization Mode EI



C:\GCMSolution\Data\Project1\8sh QGD



Line# 1 R.Time:3.3(Scan# 399)
 MassPeaks:401
 RawMode:Single 3.3(399) BasePeak:55(40102)
 BG Mode:None Group 1 - Event 1

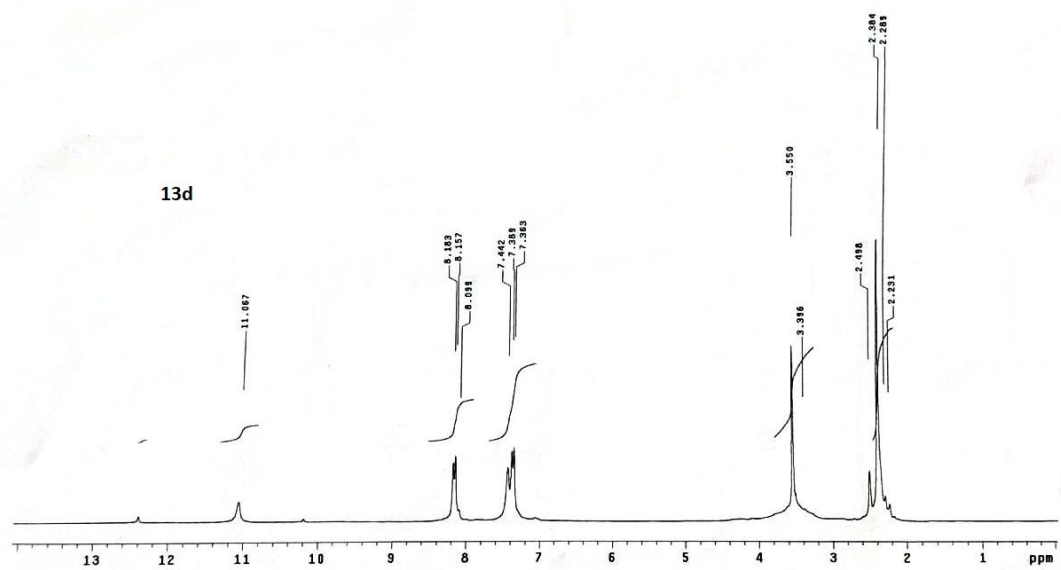


Mass Table
 Line#:1 R.Time:3.3(Scan#:399)
 MassPeaks:401
 RawMode:Single 3.3(399) BasePeak:55(40102)
 BG Mode:None Group 1 - Event 1

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
1	50.10	6004	14.97	4	53.10	10094	25.17	7	56.10	14495	36.15
2	51.05	11525	28.74	5	54.10	9308	23.21	8	57.10	34786	86.74
3	52.10	6431	16.04	6	55.10	40102	100.00	9	58.10	11041	27.53

13a

#	m/z	Abs. In	Rel. Int	#	m/z	Abs. In	Rel. Int	#	m/z	Abs. In	Rel. Int
217	266.05	805	1.51	270	327.00	204	0.51	341	391.00	105	0.26
218	267.05	823	2.05	280	328.00	178	0.44	342	392.00	199	0.50
219	268.05	1074	2.68	281	329.00	166	0.41	343	393.00	138	0.34
220	269.05	1147	2.86	282	330.00	706	1.76	344	394.00	162	0.40
221	270.05	1194	2.98	283	331.00	142	0.35	345	395.00	151	0.38
222	271.00	1784	4.37	284	332.00	236	0.59	346	396.00	132	0.33
223	272.10	689	1.72	285	333.00	231	0.58	347	397.00	151	0.38
224	273.10	850	1.37	286	334.00	159	0.40	348	398.00	284	0.71
225	274.10	326	0.81	287	335.00	242	0.60	349	399.00	151	0.38
226	275.05	514	1.28	288	336.00	166	0.41	350	400.00	433	1.08
227	276.10	434	1.08	289	337.00	233	0.58	351	401.00	182	0.45
228	277.10	302	0.78	290	338.05	389	0.99	352	402.00	183	0.46
229	278.10	380	0.98	291	340.00	714	1.78	353	404.00	114	0.28
230	279.10	402	1.00	292	341.00	436	1.09	354	405.00	111	0.28
231	279.45	404	1.01	293	342.00	289	0.72	355	406.00	162	0.40
232	280.00	1231	3.07	294	343.00	374	0.93	356	407.00	185	0.46
233	282.05	892	1.48	295	344.00	226	0.56	357	408.00	177	0.44
234	283.05	720	1.80	296	345.00	217	0.54	358	409.00	126	0.31
235	284.10	578	1.44	297	346.00	241	0.60	359	410.00	138	0.34
236	285.05	1180	2.94	298	347.00	292	0.73	360	411.00	105	0.26
237	286.05	573	1.43	299	348.00	191	0.48	361	413.00	111	0.28
238	287.10	470	1.17	300	349.00	194	0.48	362	414.00	178	0.44
239	288.10	308	0.77	301	350.00	159	0.40	363	415.00	111	0.28
240	289.10	468	1.17	302	352.00	198	0.49	364	418.00	106	0.26
241	290.10	276	0.69	303	353.00	231	0.58	365	419.00	114	0.28
242	291.10	326	0.81	304	354.00	311	0.78	366	420.00	134	0.33
243	292.10	287	0.72	305	355.00	359	0.90	367	422.00	119	0.30
244	293.10	226	0.56	306	356.00	404	1.01	368	423.00	137	0.34
245	294.10	280	0.72	307	357.00	529	1.32	369	424.00	145	0.36
246	295.10	342	0.85	308	358.00	303	0.76	370	425.00	161	0.40
247	296.05	578	1.44	309	359.00	270	0.67	371	426.00	121	0.30
248	297.05	451	1.12	310	360.00	146	0.36	372	430.00	110	0.27
249	298.05	893	1.45	311	361.00	146	0.36	373	431.00	148	0.37
250	299.10	930	2.32	312	362.00	124	0.31	374	432.00	153	0.38
251	300.00	540	1.35	313	363.00	156	0.39	375	433.00	116	0.29
252	301.00	382	0.95	314	364.00	218	0.54	376	434.00	130	0.32
253	302.00	444	1.11	315	365.00	190	0.47	377	435.00	110	0.27
254	303.00	412	1.03	316	366.00	204	0.51	378	436.00	126	0.31
255	304.00	268	0.67	317	367.00	364	0.91	379	438.00	158	0.39
256	305.00	174	0.43	318	368.00	281	0.70	380	443.00	156	0.39
257	306.00	129	0.32	319	369.00	292	0.73	381	448.00	135	0.34
258	307.00	218	0.54	320	370.00	169	0.42	382	450.00	167	0.42
259	308.00	252	0.63	321	371.00	241	0.60	383	451.00	118	0.29
260	309.00	218	0.54	322	371.00	239	0.60	384	454.00	102	0.25
261	310.00	207	0.52	323	372.00	2636	6.57	385	456.00	135	0.34
262	311.00	266	0.66	324	373.00	793	1.98	386	458.00	148	0.37
263	312.05	451	1.12	325	374.00	385	0.96	387	459.00	114	0.28
264	313.10	1306	3.26	326	375.00	154	0.38	388	461.00	129	0.32
265	314.10	750	1.87	327	376.00	162	0.40	389	462.00	135	0.34
266	314.90	494	1.23	328	376.00	138	0.34	390	463.00	244	0.61
267	315.90	276	0.69	329	379.00	127	0.32	391	464.00	103	0.26
268	316.90	274	0.68	330	380.00	170	0.42	392	465.00	143	0.36
269	317.90	337	0.84	331	381.00	241	0.60	393	468.00	105	0.26
270	318.90	238	0.59	332	382.00	351	0.88	394	470.00	106	0.26
271	319.90	196	0.49	333	383.00	234	0.58	395	473.00	130	0.32
272	320.90	140	0.35	334	384.00	206	0.51	396	478.00	118	0.29
273	321.90	223	0.56	335	385.00	127	0.32	397	479.00	127	0.32
274	322.90	263	0.66	336	386.00	159	0.40	398	480.00	110	0.27
275	323.90	186	0.46	337	387.00	156	0.39	399	481.00	105	0.26
276	324.90	244	0.61	338	388.00	169	0.42	400	487.00	130	0.32
277	325.90	214	0.53	339	389.00	178	0.44	401	488.00	105	0.26
278	326.90	271	0.68	340	390.00	217	0.54				



13e

Cairo University Micro Analytical Center

DI Analysis Shimadzu Qp-2010 Plus

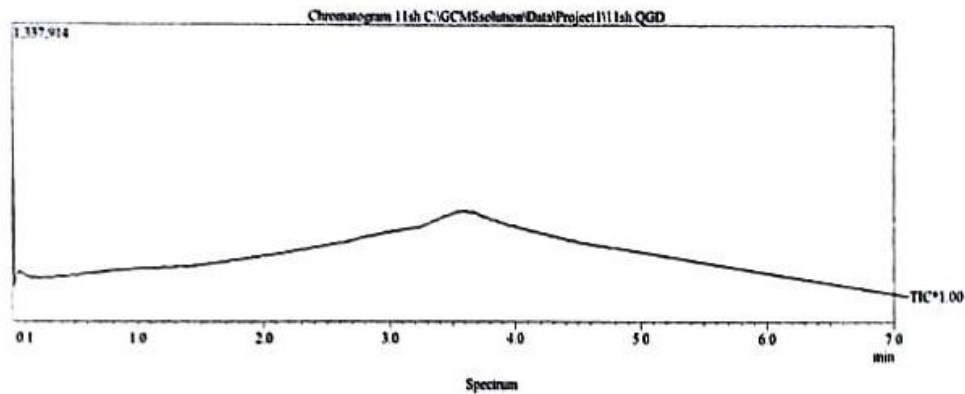
Sample Information
 Analyzed by: Dr. Mai Younis
 Analyzed: 28/09/2019 05:41:53
 Sample Name: 11sh
 Sample ID:
 Customer Name: Dr. Hoda Kamel - Science - Cairo
 Data File: C:\GCMSolution\Data\Project1\11sh QGD
 Org Data File: C:\GCMSolution\Data\Project1\11sh QGD
 Method File: C:\GCMSolution\Data\Project1\High Temperature Op
 Org Method File: C:\GCMSolution\Data\Project1\High Temperature Op
 Report File:
 Tuning File: C:\GCMSolution\System1\Tune1_default.qqt
 Modified by: Dr. Mai Younis
 Modified: 28/09/2019 05:46:44

Method
 Analytical Line 1
 IonSource Temp: 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: 1250
 Start m/z: 50.00
 End m/z: 650.00

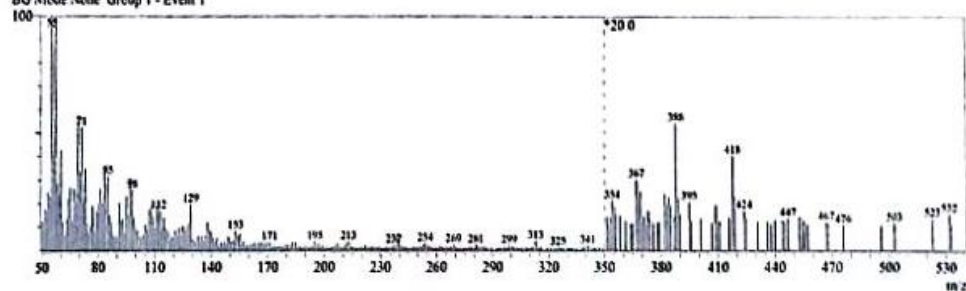
Electron Voltage: 70 eV
 Ionization Mode: EI



C:\GCMSolution\Data\Project1\11sh QGD



Line# 1 R.Time:4.4(Scan# 523)
 MassPeaks:344
 RawMode:Single 4.4(523) BasePeak:55(19300)
 BG Mode:None Group 1 - Event 1



Mass Table

Line#:1 R.Time:4.4(Scan#:523)

MassPeaks:344

RawMode:Single 4.4(523) BasePeak:55(19300)

BG Mode:None Group 1 - Event 1

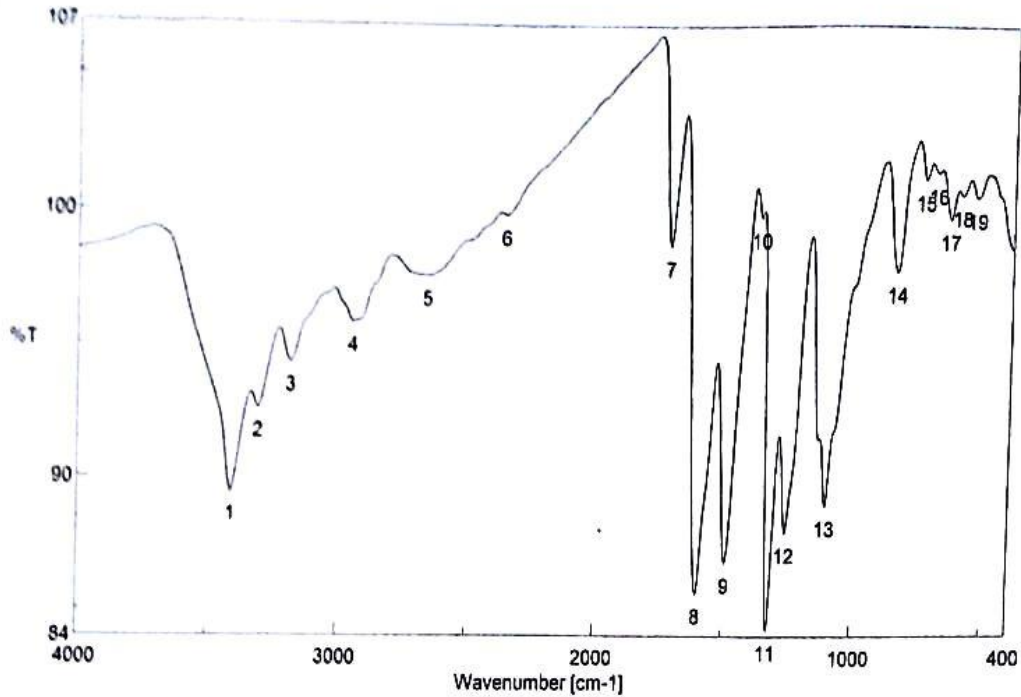
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1	50.05	2385	12.36	4	53.05	4747	24.60	7	56.10	7802	40.42
2	51.05	3462	17.94	5	54.10	4398	22.79	8	57.10	19202	99.49
3	52.10	3252	16.85	6	55.10	19300	100.00	9	58.10	5390	27.93

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
10	59.05	4542	23.53	79	128.10	2166	11.22	148	196.95	516	2.67
11	60.05	8195	42.46	80	129.15	1753	19.45	149	198.00	287	1.49
12	61.05	2280	11.87	81	130.15	813	4.21	150	199.00	183	1.08
13	62.10	1302	6.75	82	131.10	889	4.61	151	200.00	220	1.14
14	63.05	2551	13.22	83	132.20	649	3.36	152	201.00	177	0.92
15	64.05	4316	22.16	84	133.15	1131	5.86	153	202.00	143	0.74
16	65.10	5202	26.95	85	134.10	754	3.91	154	203.00	201	1.04
17	66.10	2478	12.84	86	135.15	1135	5.88	155	204.00	231	1.20
18	67.10	5038	26.10	87	136.10	788	4.08	156	205.00	377	1.95
19	68.10	1940	20.41	88	137.10	1210	6.27	157	206.00	298	1.54
20	69.10	11100	57.51	89	138.10	2265	11.74	158	207.10	505	2.62
21	70.10	6398	33.15	90	139.10	1636	8.48	159	208.10	244	1.26
22	71.10	10108	52.37	91	140.10	1487	7.70	160	209.10	198	1.03
23	72.10	1930	20.16	92	141.15	995	5.16	161	210.10	265	1.37
24	73.10	6692	34.67	93	142.10	647	3.35	162	211.10	422	2.19
25	74.10	2146	11.12	94	143.10	921	4.77	163	211.95	555	2.88
26	75.05	1417	7.34	95	144.10	414	2.15	164	213.05	665	3.45
27	76.10	2015	10.44	96	145.05	629	3.26	165	214.10	322	1.67
28	77.10	3647	18.90	97	146.05	450	2.33	166	215.10	228	1.18
29	78.10	1548	8.02	98	147.05	683	3.54	167	216.10	161	0.83
30	79.10	3137	16.25	99	148.05	532	2.76	168	217.10	143	0.74
31	80.10	3809	19.74	100	149.05	1132	5.87	169	218.10	222	1.15
32	81.10	5038	26.10	101	150.10	718	3.72	170	219.10	241	1.25
33	82.15	3871	20.06	102	151.10	694	3.60	171	220.10	188	0.97
34	83.15	6877	35.63	103	152.05	849	4.40	172	221.10	274	1.42
35	84.10	5438	28.18	104	153.05	1556	8.06	173	222.10	399	2.07
36	85.15	6068	31.44	105	154.10	1119	5.80	174	223.10	239	1.24
37	86.15	2866	14.85	106	155.10	1335	6.92	175	224.10	250	1.30
38	87.15	2328	12.06	107	156.10	478	2.48	176	225.10	297	1.54
39	88.05	1186	6.15	108	157.10	705	3.65	177	226.10	206	1.07
40	89.15	1060	5.49	109	158.10	337	1.75	178	227.10	260	1.35
41	90.10	1199	6.21	110	159.05	437	2.26	179	228.10	199	1.03
42	91.15	3870	20.05	111	160.00	356	1.84	180	229.10	271	1.40
43	92.10	2378	12.32	112	161.00	447	2.32	181	230.10	174	0.90
44	93.15	2528	13.10	113	162.05	471	2.44	182	231.10	119	0.62
45	94.10	1506	7.80	114	163.05	562	2.91	183	232.10	170	0.88
46	95.10	4447	23.04	115	164.10	393	2.04	184	233.10	194	1.01
47	96.10	2863	14.83	116	165.10	615	3.19	185	234.10	194	1.01
48	97.10	5892	30.53	117	166.05	532	2.76	186	235.10	236	1.22
49	98.10	4945	25.62	118	167.05	663	3.44	187	236.10	306	1.59
50	99.10	2650	13.73	119	168.10	468	2.42	188	237.10	394	2.04
51	100.15	1837	9.52	120	169.05	567	2.94	189	238.10	316	1.64
52	101.10	1607	8.33	121	170.00	634	3.28	190	239.10	1305	6.76
53	102.10	1087	5.63	122	171.10	641	3.32	191	240.05	504	2.61
54	103.10	1127	5.84	123	172.10	282	1.46	192	241.10	430	2.23
55	104.10	1289	6.68	124	173.10	276	1.43	193	242.10	207	1.07
56	105.10	2118	10.97	125	174.10	255	1.32	194	243.10	218	1.13
57	106.10	1609	8.34	126	175.10	327	1.69	195	244.10	146	0.76
58	107.10	3330	17.25	127	176.10	311	1.61	196	245.10	182	0.94
59	108.10	3522	18.25	128	177.10	334	1.73	197	246.10	172	0.89
60	109.15	2764	14.32	129	178.10	268	1.39	198	247.10	242	1.25
61	110.15	1810	9.38	130	179.10	434	2.25	199	248.10	274	1.42
62	111.15	3544	18.36	131	180.10	396	2.05	200	249.10	226	1.17
63	112.15	3219	16.68	132	181.10	452	2.34	201	250.10	234	1.21
64	113.10	3198	16.57	133	182.10	322	1.67	202	251.10	276	1.43
65	114.10	1748	9.06	134	182.95	612	3.17	203	252.10	255	1.32
66	115.10	2646	13.71	135	184.00	263	1.36	204	253.05	453	2.35
67	116.05	1681	8.71	136	185.05	653	3.38	205	254.00	519	2.69
68	117.10	1610	8.34	137	186.10	335	1.74	206	255.00	324	1.68
69	118.15	852	4.41	138	187.10	286	1.48	207	256.00	335	1.74
70	119.15	1049	5.44	139	188.10	180	0.93	208	257.00	238	1.23
71	120.15	916	4.75	140	189.10	273	1.41	209	258.00	198	1.03
72	121.20	1630	8.45	141	190.10	332	1.72	210	259.00	191	0.99
73	122.15	1126	5.83	142	191.10	281	1.46	211	260.00	194	1.01
74	123.15	1852	9.60	143	192.10	241	1.25	212	261.00	143	0.74
75	124.15	1210	6.27	144	193.10	281	1.46	213	262.00	340	1.76
76	125.15	1971	10.21	145	194.00	399	2.07	214	263.00	210	1.09
77	126.10	1623	8.41	146	195.00	671	3.48	215	264.00	154	0.80
78	127.15	1916	9.93	147	196.00	428	2.22	216	265.00	266	1.38

13e

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
217	266.00	230	1.19	260	312.00	226	1.17	303	374.10	122	0.63
218	267.00	284	1.47	261	313.10	746	3.87	304	376.10	108	0.56
219	268.00	257	1.33	262	314.10	265	1.37	305	378.10	113	0.59
220	269.00	423	2.19	263	315.10	174	0.90	306	379.10	119	0.62
221	270.00	218	1.13	264	316.10	220	1.14	307	382.10	233	1.21
222	271.00	180	0.93	265	319.10	102	0.53	308	383.10	191	0.99
223	272.00	177	0.92	266	321.10	122	0.63	309	384.10	215	1.11
224	273.00	130	0.67	267	323.10	129	0.67	310	385.10	183	0.95
225	274.00	151	0.78	268	324.10	106	0.55	311	387.10	143	0.74
226	275.00	185	0.96	269	325.10	206	1.07	312	387.95	524	2.72
227	276.00	148	0.77	270	326.10	169	0.88	313	389.00	215	1.11
228	277.00	207	1.07	271	327.10	178	0.92	314	390.00	150	0.78
229	278.00	207	1.07	272	328.10	106	0.55	315	395.00	198	1.03
230	279.00	215	1.11	273	330.10	146	0.76	316	396.00	119	0.62
231	280.00	182	0.94	274	331.10	132	0.68	317	401.00	130	0.67
232	281.00	385	1.99	275	332.10	145	0.75	318	407.00	114	0.59
233	282.00	298	1.54	276	333.10	124	0.64	319	409.00	185	0.96
234	283.00	287	1.49	277	335.10	126	0.65	320	410.00	111	0.58
235	284.00	318	1.65	278	338.10	142	0.74	321	411.00	118	0.61
236	285.00	268	1.39	279	339.10	239	1.24	322	416.00	135	0.70
237	286.00	228	1.18	280	341.10	362	1.88	323	418.00	390	2.02
238	287.00	156	0.81	281	343.10	114	0.59	324	419.00	215	1.11
239	289.00	186	0.96	282	344.10	121	0.63	325	424.00	161	0.83
240	292.00	138	0.72	283	345.10	150	0.78	326	425.00	132	0.68
241	293.00	164	0.85	284	347.10	145	0.75	327	431.00	119	0.62
242	294.00	177	0.92	285	349.10	121	0.63	328	436.00	119	0.62
243	295.00	164	0.85	286	351.10	138	0.72	329	438.00	106	0.55
244	296.00	199	1.03	287	352.10	102	0.53	330	440.00	121	0.63
245	297.00	223	1.16	288	353.10	135	0.70	331	444.00	121	0.63
246	298.00	150	0.78	289	354.10	201	1.04	332	445.00	113	0.59
247	299.00	366	1.90	290	355.10	177	0.92	333	447.00	129	0.67
248	300.00	145	0.75	291	356.10	146	0.76	334	453.00	135	0.70
249	301.00	290	1.50	292	358.10	140	0.73	335	455.00	122	0.63
250	302.00	102	0.53	293	361.10	121	0.63	336	457.00	105	0.54
251	303.00	167	0.87	294	364.10	106	0.55	337	467.00	114	0.59
252	304.00	129	0.67	295	365.10	105	0.54	338	468.00	106	0.55
253	305.00	153	0.79	296	367.10	290	1.50	339	476.00	102	0.53
254	306.00	175	0.91	297	368.10	218	1.13	340	496.00	103	0.53
255	307.00	122	0.63	298	369.10	242	1.25	341	503.00	110	0.57
256	308.00	178	0.92	299	370.10	114	0.59	342	523.00	129	0.67
257	309.00	146	0.76	300	371.10	138	0.72	343	532.00	148	0.77
258	310.00	142	0.74	301	372.10	108	0.56	344	533.00	111	0.58
259	311.00	234	1.21	302	373.10	161	0.83				

Peak Find - Memory-35



[Comments]
Sample name 13e
Comment 3/2018
User IR
Division IR
Company MAC

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3410.49	89.4744	2	3309.25	92.66	3	3187.76	94.3848
4	2950.55	95.8784	5	2666.11	97.6148	6	2362.37	99.9013
7	1724.05	98.7979	8	1601.59	85.6386	9	1491.67	86.8189
10	1376.93	99.8545	11	1323.89	84.2391	12	1261.22	87.9625
13	1107.9	88.966	14	848.525	97.7783	15	747.281	101.222
16	698.105	101.47	17	647.965	99.7453	18	603.61	100.648
19	545.756	100.554						



16a

Cairo University Micro Analytical Center

DI Analysis
Shimadzu Qp-2010 Plus

Sample Information
Analyzed by Dr. Mai Younis
Analyzed 28/09/2019 05:48:27
Sample Name IshN
Sample ID
Customer Name Dr. Hoda Kamel - Science - Cairo
Data File C:\GCMSolution\Data\Project1\IshN.QGD
Orig Data File C:\GCMSolution\Data\Project1\IshN.QGD
Method File C:\GCMSolution\Data\Project1\High Temperature Op
Orig Method File C:\GCMSolution\Data\Project1\High Temperature Op
Report File
Tuning File C:\GCMSolution\System\Tune1\default.qtl
Method Modified by Dr. Mai Younis
Modified 28/09/2019 05:51:01

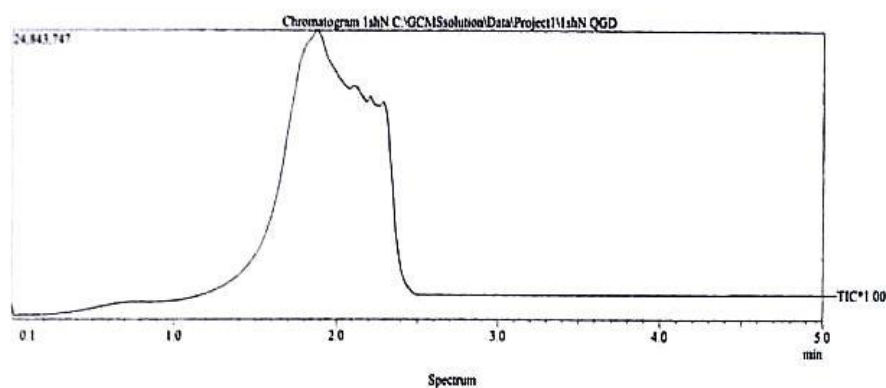
Method

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 1250
Start m/z 50.00
End m/z 650.00

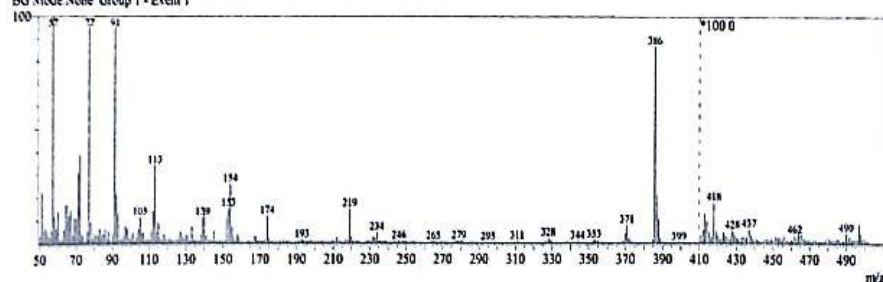
Electron Voltage 70 eV
Ionization Mode EI



C:\GCMSolution\Data\Project1\IshN.QGD



Line# 1 R.Time:2.0(Scan# 235)
MassPeaks:452
RawMode:Single 2.0(235) BasePeak:57(1844146)
BG Mode:None Group 1 - Event 1



Mass Table

Line#:1 R.Time:2.0(Scan#:235)

MassPeaks:452

RawMode:Single 2.0(235) BasePeak:57(1844146)

BG Mode:None Group 1 - Event 1

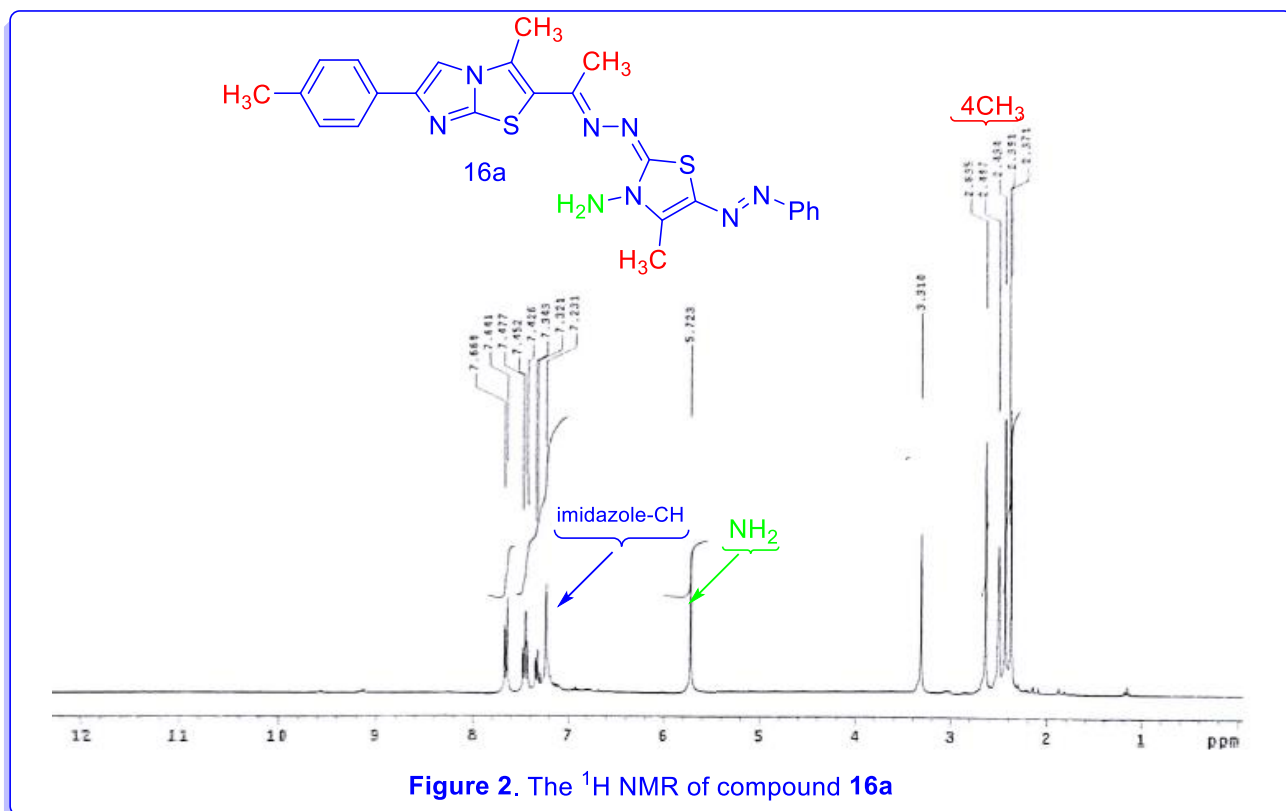
#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
1	50.05	59816	3.24	4	53.10	123807	6.71	7	56.15	102257	5.54
2	51.05	415849	22.55	5	54.10	98127	5.32	8	57.10	184414	100.00
3	52.05	98008	5.31	6	55.10	52729	2.86	9	58.10	212809	11.54

16a

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
10	59.05	119173	6.46	79	128.10	52337	2.84	148	196.95	8485	0.46
11	60.05	256347	13.90	80	129.10	34831	1.89	149	197.95	21248	1.15
12	61.05	27097	1.47	81	130.10	66822	3.62	150	198.95	6434	0.35
13	62.10	29156	1.58	82	131.15	48738	2.64	151	199.95	7461	0.40
14	63.10	105454	5.72	83	132.15	20075	1.09	152	201.00	6474	0.35
15	64.10	306023	16.59	84	133.15	133970	7.26	153	202.00	10038	0.54
16	65.10	314367	17.05	85	134.10	23935	1.30	154	202.95	8748	0.47
17	66.10	217052	11.77	86	135.10	22908	1.24	155	204.00	9617	0.52
18	67.10	267228	14.49	87	136.10	18524	1.00	156	205.00	10754	0.58
19	68.15	66638	3.61	88	137.10	23092	1.25	157	206.00	7190	0.39
20	69.10	199783	10.83	89	138.10	65934	3.58	158	206.95	7448	0.40
21	70.05	203830	11.05	90	139.10	204767	11.10	159	207.95	4790	0.26
22	71.05	569884	30.90	91	140.10	267210	14.49	160	208.95	6038	0.33
23	72.05	718563	38.96	92	141.05	56937	3.09	161	209.90	15545	0.84
24	73.05	69895	3.79	93	142.10	22884	1.24	162	210.95	12263	0.66
25	74.05	54471	2.95	94	143.10	26254	1.42	163	211.95	41580	2.25
26	75.10	21142	1.15	95	144.10	25407	1.38	164	212.95	18667	1.01
27	76.15	97270	5.27	96	145.05	92442	5.01	165	213.95	8610	0.47
28	77.10	177980	96.51	97	146.10	19262	1.04	166	214.95	6833	0.37
29	78.10	167198	9.07	98	147.05	16669	0.90	167	216.00	7908	0.43
30	79.10	37396	2.03	99	148.05	21870	1.19	168	216.95	32537	1.76
31	80.10	78958	4.28	100	149.05	11924	0.65	169	218.05	19679	1.07
32	81.10	59834	3.24	101	150.05	9075	0.49	170	219.00	273372	14.82
33	82.10	65180	3.53	102	151.05	18902	1.02	171	219.95	47031	2.55
34	83.05	122246	6.63	103	152.05	209075	11.34	172	220.95	19526	1.06
35	84.05	78344	4.25	104	153.05	274428	14.88	173	221.95	8981	0.49
36	85.10	67289	3.65	105	154.05	473238	25.66	174	222.95	14552	0.79
37	86.05	108715	5.90	106	155.05	125893	6.83	175	224.00	9249	0.50
38	87.10	40118	2.18	107	156.05	43797	2.37	176	224.95	5752	0.31
39	88.10	98370	5.33	108	157.05	17994	0.98	177	226.00	3684	0.20
40	89.10	25934	1.41	109	158.05	69915	3.79	178	226.95	5492	0.30
41	90.15	73620	3.99	110	159.00	19106	1.04	179	227.95	8063	0.44
42	91.10	176301	95.60	111	160.05	6728	0.36	180	228.95	17468	0.95
43	92.10	391423	21.23	112	161.00	5449	0.30	181	230.00	8158	0.44
44	93.10	239369	12.98	113	162.00	5649	0.31	182	231.00	7108	0.39
45	94.10	31542	1.71	114	163.00	11921	0.65	183	232.00	44892	2.43
46	95.10	41358	2.24	115	164.05	11986	0.65	184	233.00	39700	2.15
47	96.10	64738	3.51	116	165.00	11932	0.65	185	234.00	82071	4.45
48	97.05	138969	7.54	117	166.05	17887	0.97	186	234.95	18221	0.99
49	98.05	116202	6.30	118	167.00	54308	2.94	187	235.95	13140	0.71
50	99.10	45833	2.49	119	168.00	56647	3.07	188	236.95	7676	0.42
51	100.10	37362	2.03	120	169.00	16729	0.91	189	238.00	11705	0.63
52	101.05	87844	4.76	121	170.00	25487	1.38	190	239.00	11510	0.62
53	102.10	16577	0.90	122	171.00	16202	0.88	191	240.00	4695	0.25
54	103.10	43526	2.36	123	172.00	12377	0.67	192	241.00	3580	0.19
55	104.10	111503	6.05	124	173.05	28408	1.54	193	242.00	4561	0.25
56	105.10	207937	11.28	125	174.05	217137	11.77	194	243.00	10897	0.59
57	106.10	83001	4.50	126	175.00	33588	1.82	195	243.95	10765	0.58
58	107.10	80044	4.34	127	176.00	9575	0.52	196	245.00	6441	0.35
59	108.10	27410	1.49	128	177.00	7938	0.43	197	245.95	14497	0.79
60	109.10	25654	1.39	129	177.95	7744	0.42	198	246.95	5688	0.31
61	110.15	28704	1.56	130	178.95	12234	0.66	199	248.00	10543	0.57
62	111.10	94166	5.11	131	180.00	12910	0.70	200	248.95	8234	0.45
63	112.10	258694	14.03	132	181.00	16409	0.89	201	249.95	8277	0.45
64	113.10	624178	33.85	133	181.95	7852	0.43	202	250.95	6058	0.33
65	114.10	91378	4.96	134	182.95	13724	0.74	203	251.95	4635	0.25
66	115.10	162297	8.80	135	183.95	8011	0.43	204	252.95	7634	0.41
67	116.10	46782	2.54	136	185.00	16527	0.90	205	253.95	6173	0.33
68	117.15	28336	1.54	137	185.95	6306	0.34	206	255.00	7230	0.39
69	118.10	71489	3.88	138	186.95	6669	0.36	207	256.00	5268	0.29
70	119.10	36594	1.98	139	188.00	4783	0.26	208	257.00	4841	0.26
71	120.15	24384	1.32	140	189.00	6545	0.35	209	257.95	4700	0.25
72	121.10	37842	2.05	141	190.00	8159	0.44	210	258.95	4368	0.24
73	122.10	24754	1.34	142	191.00	13686	0.74	211	259.95	3750	0.20
74	123.10	16626	0.90	143	192.00	11922	0.65	212	260.95	4671	0.25
75	124.10	20126	1.09	144	193.00	24102	1.31	213	261.95	5798	0.31
76	125.10	29079	1.58	145	193.90	10857	0.59	214	262.95	3527	0.19
77	126.10	50705	2.75	146	194.95	11674	0.63	215	263.95	8609	0.47
78	127.10	88031	4.77	147	195.95	12420	0.67	216	264.95	10539	0.57

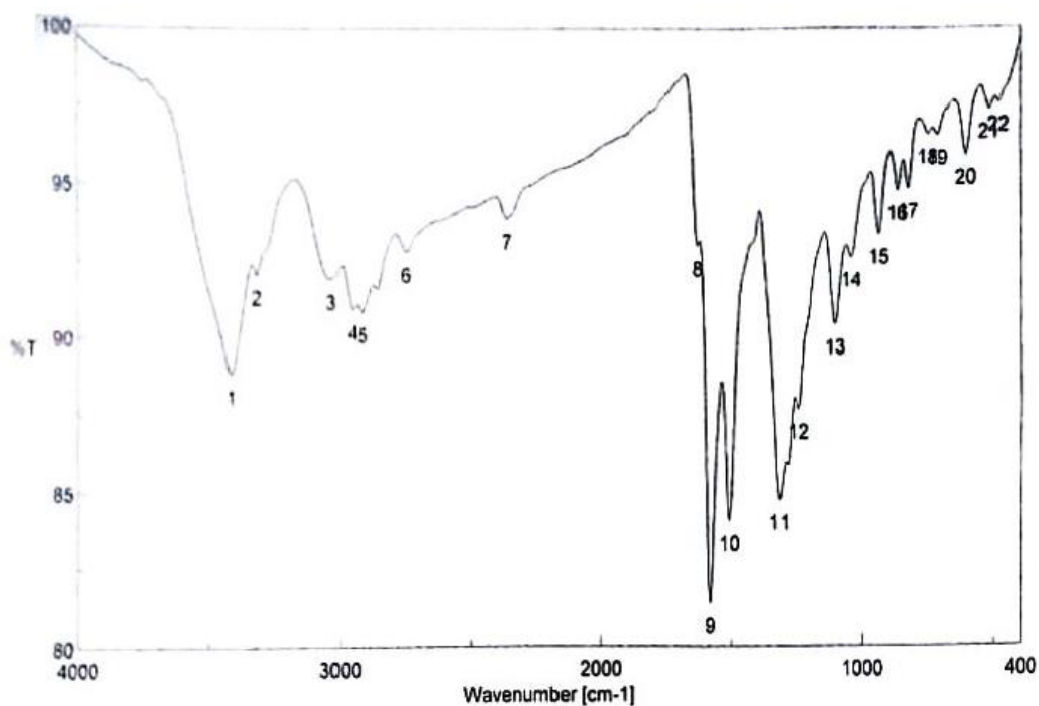
16a

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
424	473.10	180	0.01	434	484.10	268	0.01	444	493.80	274	0.01
425	475.10	174	0.01	435	485.10	370	0.02	445	494.80	287	0.02
426	476.10	102	0.01	436	486.10	281	0.02	446	495.90	305	0.02
427	477.10	106	0.01	437	487.10	186	0.01	447	496.90	1481	0.08
428	478.10	178	0.01	438	488.10	143	0.01	448	497.90	769	0.04
429	479.10	354	0.02	439	488.80	113	0.01	449	498.90	278	0.02
430	480.10	190	0.02	440	489.85	789	0.04	450	499.90	321	0.02
431	481.10	247	0.01	441	490.80	233	0.01	451	500.90	135	0.01
432	482.10	226	0.01	442	491.80	516	0.03	452	501.90	164	0.01
433	483.10	233	0.01	443	492.80	327	0.02				



16a

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
217	266.00	12990	0.70	286	334.95	766	0.04	355	403.90	359	0.02
218	267.00	6775	0.37	287	336.00	2551	0.14	356	404.90	372	0.02
219	268.00	5210	0.28	288	337.00	2038	0.11	357	405.90	310	0.02
220	269.00	6188	0.34	289	337.95	8324	0.45	358	406.95	636	0.03
221	270.00	10354	0.56	290	339.00	3516	0.19	359	407.95	551	0.03
222	271.00	7390	0.40	291	339.90	2137	0.12	360	408.95	680	0.04
223	272.00	3778	0.20	292	340.95	2466	0.13	361	409.90	812	0.04
224	273.00	7358	0.40	293	341.95	6756	0.37	362	410.95	625	0.03
225	274.00	3359	0.18	294	342.95	5471	0.30	363	411.90	1031	0.06
226	274.90	2966	0.16	295	343.95	12159	0.66	364	412.95	2411	0.13
227	275.95	3372	0.18	296	344.90	4367	0.24	365	413.90	1748	0.09
228	276.95	7828	0.42	297	345.95	2378	0.13	366	415.00	831	0.05
229	277.95	10489	0.57	298	346.95	1072	0.06	367	416.00	527	0.03
230	278.95	15381	0.83	299	347.95	640	0.03	368	416.95	447	0.02
231	279.95	10401	0.56	300	348.95	575	0.03	369	417.90	3247	0.18
232	280.95	18023	0.98	301	349.95	550	0.03	370	418.90	993	0.05
233	281.95	4882	0.26	302	350.95	779	0.04	371	419.85	625	0.03
234	282.95	4238	0.23	303	351.95	1372	0.07	372	420.90	343	0.02
235	284.00	3167	0.17	304	352.90	23794	1.29	373	421.90	433	0.02
236	284.95	7377	0.40	305	353.90	20937	1.14	374	423.05	900	0.05
237	285.95	5958	0.32	306	354.90	14026	0.76	375	424.05	651	0.04
238	286.95	7586	0.41	307	355.90	8794	0.48	376	425.00	498	0.03
239	287.95	6463	0.35	308	356.90	2836	0.15	377	426.00	310	0.02
240	288.95	2529	0.14	309	357.95	2886	0.16	378	426.95	509	0.03
241	290.00	1322	0.07	310	358.95	1206	0.07	379	427.95	975	0.05
242	291.00	1071	0.06	311	359.90	694	0.04	380	428.90	745	0.04
243	292.00	2129	0.12	312	360.90	348	0.02	381	429.90	407	0.02
244	293.00	2175	0.12	313	361.90	401	0.02	382	430.90	372	0.02
245	293.95	4832	0.26	314	362.95	601	0.03	383	431.90	202	0.01
246	295.00	4351	0.24	315	363.95	1004	0.05	384	432.95	456	0.02
247	296.00	4273	0.23	316	365.00	738	0.04	385	433.90	486	0.03
248	297.00	3934	0.21	317	365.95	1506	0.08	386	435.10	378	0.02
249	297.95	3006	0.16	318	366.95	1601	0.09	387	436.00	503	0.03
250	299.00	2962	0.16	319	367.95	4866	0.26	388	437.00	1105	0.06
251	299.95	2769	0.15	320	368.95	12970	0.70	389	438.00	671	0.04
252	300.95	2976	0.16	321	369.90	78588	4.26	390	439.00	343	0.02
253	302.00	2300	0.12	322	370.90	143702	7.79	391	440.00	236	0.01
254	302.95	2275	0.12	323	371.90	38239	2.07	392	441.00	284	0.02
255	303.95	1356	0.07	324	372.90	16766	0.91	393	442.00	225	0.01
256	305.00	1223	0.07	325	373.90	3654	0.20	394	443.00	164	0.01
257	306.00	1497	0.08	326	374.90	1070	0.06	395	444.00	153	0.01
258	307.00	1142	0.06	327	375.90	721	0.04	396	445.00	217	0.01
259	308.00	3484	0.19	328	377.05	509	0.03	397	446.00	310	0.02
260	309.00	3791	0.21	329	378.00	466	0.03	398	447.00	353	0.02
261	310.00	2900	0.16	330	378.95	609	0.03	399	448.00	222	0.01
262	311.00	12026	0.65	331	379.95	701	0.04	400	449.00	362	0.02
263	311.95	6514	0.35	332	380.90	2207	0.12	401	450.00	246	0.01
264	313.05	5084	0.28	333	382.05	1644	0.09	402	451.10	582	0.03
265	313.95	2511	0.14	334	382.95	1425	0.08	403	452.05	447	0.02
266	314.95	1562	0.08	335	383.95	3448	0.19	404	453.05	405	0.02
267	315.90	3530	0.19	336	384.95	31700	1.72	405	453.90	401	0.02
268	316.95	2182	0.12	337	385.95	160103	86.82	406	454.90	335	0.02
269	318.00	1057	0.06	338	386.90	384143	20.83	407	455.90	551	0.03
270	319.00	1102	0.06	339	387.90	191868	10.40	408	456.90	332	0.02
271	319.95	809	0.04	340	388.90	36796	2.00	409	457.90	276	0.01
272	320.95	1736	0.09	341	389.90	7740	0.42	410	458.90	182	0.01
273	321.90	1226	0.07	342	390.95	1604	0.09	411	459.90	220	0.01
274	322.90	1236	0.07	343	392.05	604	0.03	412	460.90	193	0.01
275	323.95	1202	0.07	344	393.05	619	0.03	413	461.90	639	0.03
276	324.95	2200	0.12	345	394.05	496	0.03	414	463.00	308	0.02
277	326.00	5740	0.31	346	395.05	976	0.05	415	464.00	954	0.05
278	327.00	10396	0.56	347	396.05	925	0.05	416	465.10	695	0.04
279	327.95	36630	1.99	348	397.05	813	0.04	417	466.05	412	0.02
280	328.95	26744	1.45	349	398.00	858	0.05	418	467.10	335	0.02
281	329.90	9068	0.49	350	398.95	1977	0.11	419	468.10	209	0.01
282	330.90	3444	0.19	351	399.90	1282	0.07	420	469.10	298	0.02
283	331.95	1473	0.08	352	400.95	871	0.05	421	470.10	161	0.01
284	333.00	756	0.04	353	401.95	819	0.04	422	471.10	204	0.01
285	334.00	542	0.03	354	402.90	433	0.02	423	472.10	252	0.01



[Comments]
 Sample name **16b**
 Comment 3/2018
 User IR
 Division IR
 Company MAC

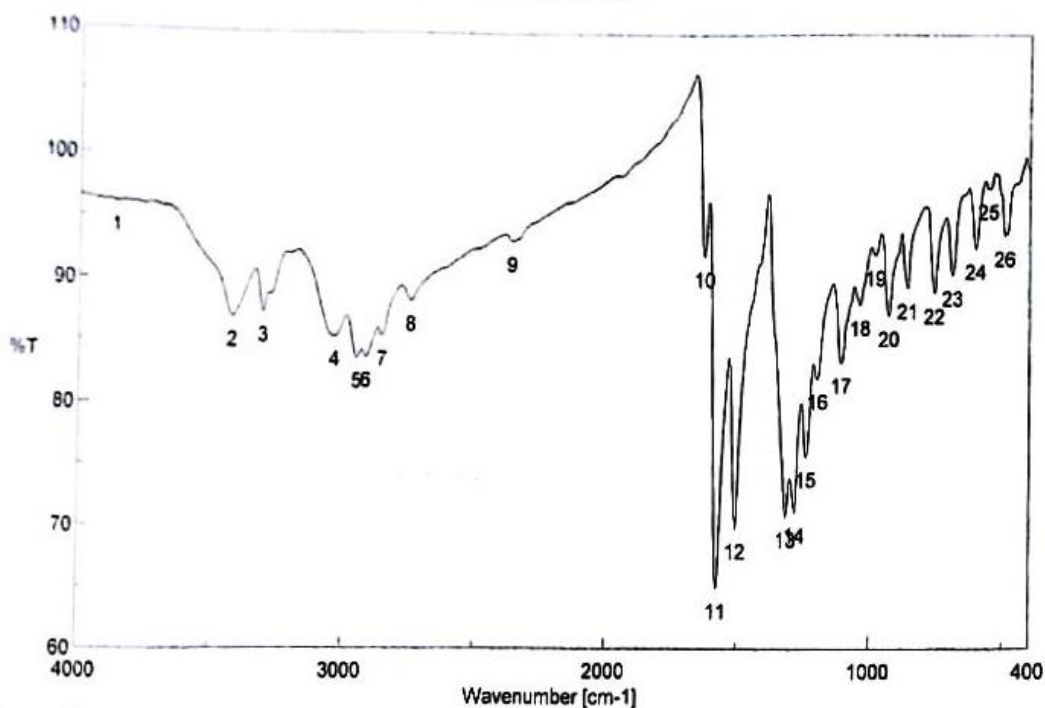
[Result of Peak Picking]

No	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3414.35	88.8448	2	3316.96	92.0461	3	3034.44	91.8764
4	2952.48	90.881	5	2914.88	90.7963	6	2746.14	92.7396
7	2360.44	93.8174	8	1629.55	92.9805	9	1581.34	81.4487
10	1508.06	84.064	11	1317.14	84.713	12	1247.72	87.6424
13	1106.94	90.3771	14	1044.26	92.5683	15	936.271	93.3262
16	866.846	94.7378	17	826.348	94.7977	18	751.138	96.5337
19	714.497	96.5075	20	605.539	95.8599	21	517.793	97.3273
22	482.117	97.5476						

ع. س. م.



Peak Find - Memory-7



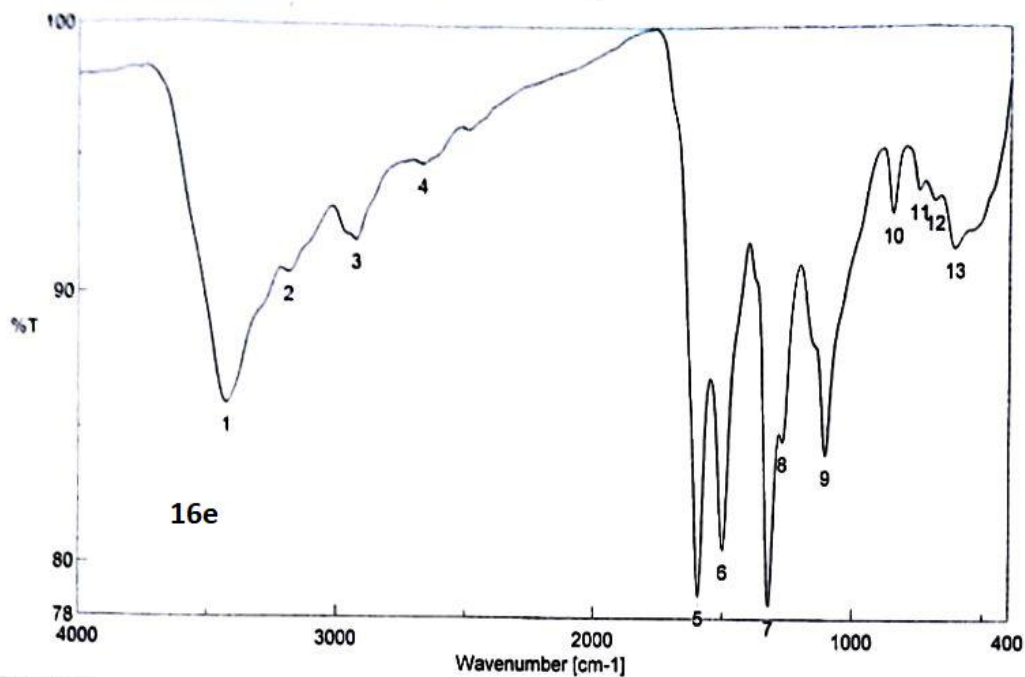
[Comments]
Sample name **16a**
Comment 5/2018
User IR
Division IR
Company MAC

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3863.68	96.0455	2	3422.06	87.0264	3	3306.36	87.4079
4	3036.37	85.4093	5	2952.48	83.6396	6	2916.81	83.7117
7	2856.06	85.4587	8	2748.07	88.3126	9	2364.3	93.1239
10	1630.52	91.9721	11	1578.45	64.9485	12	1508.06	69.8001
13	1318.11	70.7574	14	1285.32	71.1062	15	1243.86	75.6259
16	1201.43	81.978	17	1112.73	83.3026	18	1041.37	88.0014
19	984.482	92.046	20	932.414	87.0957	21	861.06	89.3148
22	758.852	88.9391	23	691.355	90.3805	24	604.574	92.567
25	556.363	97.4628	26	493.688	93.6106			



Peak Find - Memory-71



[Comments]
Sample name
Comment 4/2018
User IR
Division IR
Company MAC

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3424.96	85.9912	2	3185.83	90.8538	3	2926.45	92.0684
4	2667.07	94.8903	5	1593.88	78.8551	6	1500.35	80.5812
7	1322.93	78.5071	8	1270.86	84.6263	9	1105.01	84.1247
10	845.633	93.1441	11	746.317	93.9766	12	685.57	93.5825
13	608.431	91.8194						



16b

Cairo University Micro Analytical Center

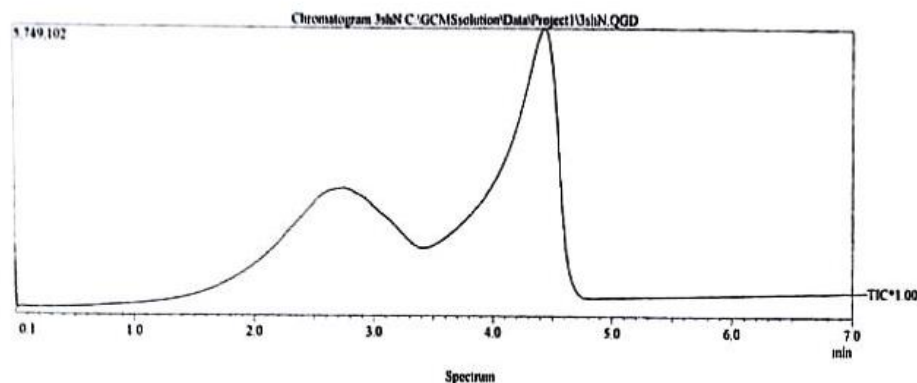
DI Analysis Shimadzu Qp-2010 Plus

Sample Information
 Analyzed by Dr. Mai Younis
 Analyzed 28/09/2019 05:52:40
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 Sample ID
 Customer Name Dr. Hoda Kamel - Science - Cairo
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 Method File C:\GCMSolution\Data\Project1\High Temperature Op
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 Report File
 Tuning File C:\GCMSolution\System\Tune1\default.qst
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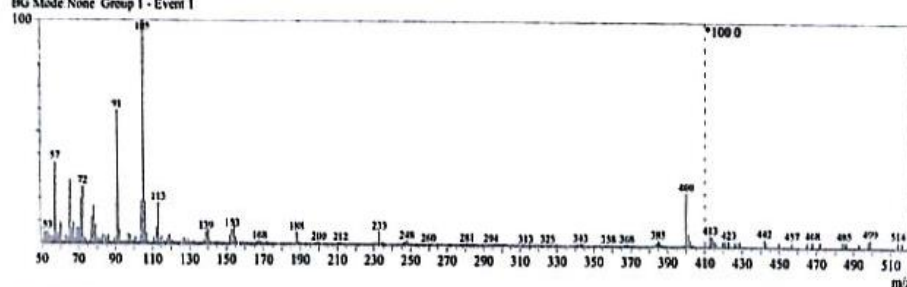
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 End Time 10.00min
 ACQ Mode Scan
 Event Time 0.50sec
 Scan Speed 1250
 Start m/z 50.00
 End m/z 650.00

Electron Voltage 70 eV
 Ionization Mode EI

C:\GCMSolution\Data\Project1\JshN.QGD



Line# 1 R Time 4.5(Scan# 547)
 MassPeaks 369
 RawMode Single 4.5(547) BasePeak: 105(520050)
 BG Mode None Group 1 - Event 1



Mass Table

Line# 1 R Time: 4.5(Scan#: 547)

MassPeaks: 369

RawMode: Single 4.5(547) BasePeak: 105(520050)

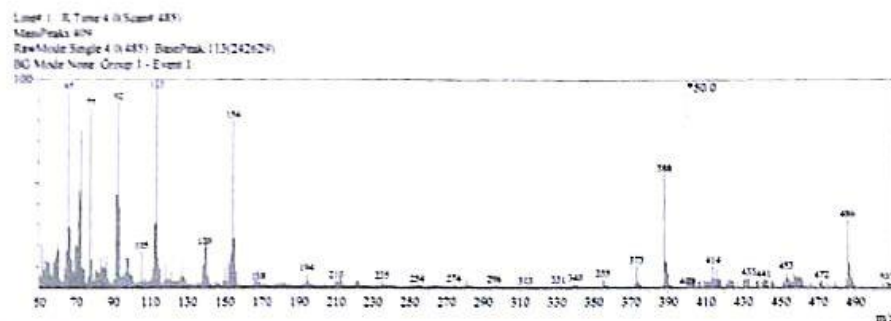
BG Mode: None Group 1 - Event 1

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
1	50.10	8636	1.66	4	53.10	27700	5.33	7	56.15	15621	3.00
2	51.05	25999	5.00	5	54.10	19006	3.65	8	57.10	188668	36.28
3	52.05	25789	4.96	6	55.10	15143	2.91	9	58.05	22553	4.34

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
10	59.05	22924	4.41	79	128.10	10142	1.95	148	197.00	1135	0.22
11	60.00	49105	9.44	80	129.15	11529	2.22	149	197.95	2377	0.46
12	61.05	5103	0.98	81	130.10	5164	0.99	150	199.00	2063	0.40
13	62.10	5410	1.04	82	131.15	4343	0.84	151	200.00	3271	0.63
14	63.05	17904	3.44	83	132.15	6549	1.26	152	200.90	1430	0.27
15	64.15	13954	2.68	84	133.10	3404	0.65	153	202.00	913	0.18
16	65.10	147470	28.36	85	134.15	1522	0.29	154	203.00	1078	0.21
17	66.10	35321	6.79	86	135.10	2908	0.56	155	204.00	1124	0.22
18	67.10	47778	9.19	87	136.10	1807	0.35	156	205.00	1327	0.26
19	68.10	12374	2.38	88	137.10	3788	0.73	157	206.00	1055	0.20
20	69.10	34551	6.64	89	138.10	9390	1.81	158	206.95	785	0.15
21	70.05	35748	6.87	90	139.05	28212	5.42	159	208.00	626	0.12
22	71.05	104900	20.17	91	140.10	33201	6.38	160	208.95	845	0.16
23	72.05	131897	25.36	92	141.05	6743	1.30	161	209.95	1477	0.28
24	73.05	13608	2.62	93	142.10	3287	0.63	162	210.95	1591	0.31
25	74.05	8884	1.71	94	143.10	2174	0.42	163	211.95	3034	0.58
26	75.05	2998	0.58	95	144.10	3994	0.77	164	212.95	1702	0.33
27	76.15	8026	1.54	96	145.10	4601	0.88	165	213.95	1215	0.23
28	77.10	61919	11.91	97	146.05	2687	0.52	166	215.00	1092	0.21
29	78.10	87945	16.91	98	147.05	2801	0.54	167	216.00	1242	0.24
30	79.10	43242	8.31	99	148.05	1526	0.29	168	217.00	1950	0.37
31	80.10	14055	2.70	100	149.05	2436	0.47	169	218.00	1430	0.27
32	81.10	9806	1.89	101	150.00	1498	0.29	170	219.00	1633	0.31
33	82.10	10438	2.01	102	151.05	2414	0.46	171	220.00	972	0.19
34	83.05	20612	3.96	103	152.05	19655	3.78	172	220.95	933	0.18
35	84.10	19042	3.66	104	153.05	33713	6.48	173	221.95	960	0.18
36	85.10	11943	2.30	105	154.05	53453	10.28	174	222.95	1448	0.28
37	86.05	18196	3.50	106	155.05	15053	2.89	175	223.95	1326	0.25
38	87.05	5107	0.98	107	156.00	5503	1.06	176	224.95	935	0.18
39	88.10	2815	0.54	108	157.05	3277	0.63	177	225.90	574	0.11
40	89.10	11666	2.24	109	158.05	2251	0.43	178	226.95	613	0.12
41	90.15	15997	3.08	110	159.05	4367	0.84	179	228.00	748	0.14
42	91.10	310462	59.70	111	160.05	1028	0.20	180	228.95	805	0.15
43	92.10	30572	5.88	112	161.05	1628	0.31	181	229.95	793	0.15
44	93.15	5632	1.08	113	162.00	2121	0.41	182	230.95	4674	0.90
45	94.10	3759	0.72	114	163.00	1681	0.32	183	232.00	4254	0.82
46	95.10	6073	1.17	115	164.00	1892	0.36	184	233.00	28802	5.54
47	96.10	9580	1.84	116	165.00	1855	0.36	185	234.00	5004	0.96
48	97.10	22783	4.38	117	166.00	2689	0.52	186	235.00	2215	0.43
49	98.05	19113	3.68	118	167.00	6289	1.21	187	235.95	1119	0.22
50	99.10	7231	1.39	119	168.00	5711	1.10	188	236.95	943	0.18
51	100.05	6064	1.17	120	169.00	1986	0.38	189	237.95	1336	0.26
52	101.05	15545	2.99	121	170.00	1668	0.32	190	239.00	1322	0.25
53	102.10	4183	0.80	122	171.05	2407	0.46	191	239.95	687	0.13
54	103.15	6671	1.28	123	172.00	4918	0.95	192	241.00	636	0.12
55	104.15	98493	18.94	124	173.00	2121	0.41	193	242.05	819	0.16
56	105.10	520050	100.00	125	174.05	1774	0.34	194	243.00	2010	0.39
57	106.10	97524	18.75	126	175.00	729	0.14	195	244.00	1143	0.22
58	107.10	24342	4.68	127	176.00	772	0.15	196	244.95	1001	0.19
59	108.10	4486	0.86	128	177.00	1274	0.24	197	246.00	3962	0.76
60	109.15	2413	0.46	129	178.00	780	0.15	198	247.00	4830	0.93
61	110.15	3910	0.75	130	179.00	1534	0.29	199	248.00	7526	1.45
62	111.10	15414	2.96	131	180.00	1254	0.24	200	248.95	2027	0.39
63	112.10	39508	7.60	132	181.00	1990	0.38	201	249.95	1256	0.24
64	113.10	95146	18.30	133	182.00	1198	0.23	202	250.85	629	0.12
65	114.10	12804	2.46	134	183.00	2191	0.42	203	251.95	691	0.13
66	115.10	18246	3.51	135	184.00	1815	0.35	204	252.95	583	0.11
67	116.15	5313	1.02	136	185.00	1598	0.31	205	254.00	351	0.07
68	117.10	5513	1.06	137	186.05	961	0.18	206	255.00	417	0.08
69	118.15	11301	2.17	138	187.05	2296	0.44	207	256.00	471	0.09
70	119.10	21665	4.17	139	188.05	26788	5.15	208	257.00	1130	0.22
71	120.15	8170	1.57	140	189.00	4791	0.92	209	258.00	1022	0.20
72	121.10	7350	1.41	141	190.00	1652	0.32	210	258.95	455	0.09
73	122.15	2281	0.44	142	191.00	1874	0.36	211	259.95	1423	0.27
74	123.10	3706	0.71	143	192.05	1408	0.27	212	260.90	599	0.12
75	124.15	3013	0.58	144	192.95	1040	0.20	213	261.95	987	0.19
76	125.10	4057	0.78	145	194.00	1098	0.21	214	263.00	462	0.09
77	126.10	7588	1.46	146	194.95	1392	0.27	215	263.95	662	0.13
78	127.10	13153	2.53	147	195.95	1553	0.30	216	264.95	1272	0.24

DI Analysis
Shimadzu Op-2010 Plus

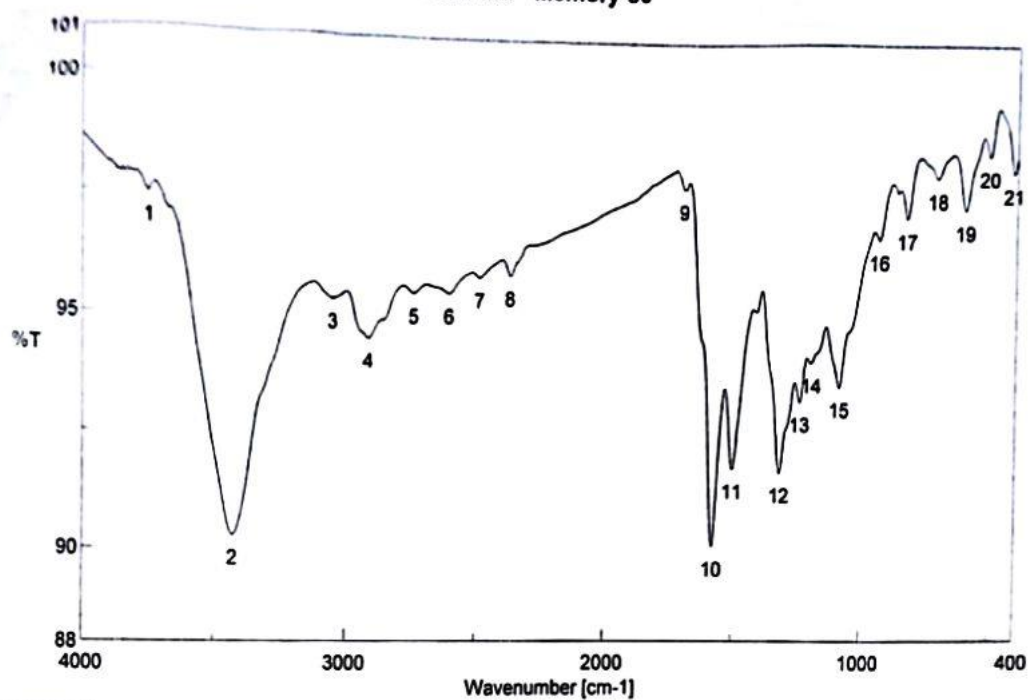
Method	
----- Amperical Line 1 -----	
Incubation Temp	250.00 °C
[N5] Value	
Group	Event 1
Start Time	0.00min
End Time	10.00min
ACQ Mode	Scan
Event Time	0.50sec
Scan Speed	1250
Start m/z	50.00
End m/z	650.00
Electron Voltage	70 eV
Ionization Mode	SI



Mass Table
 Line: 1 RTime: 4.0 (Scan#: 485)
 MassPeaks: 409
 Raw Mode: Single 4.0 (485) BasePeak: 113 (242629)
 BG Mode: None Group 1 - Event 1

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
1	50.10	12599	5.19	4	53.05	31714	13.07
2	51.05	50793	20.93	5	54.10	29428	12.13
3	52.05	20452	8.43	6	55.10	27527	11.35
				7	56.10	12918	5.74
				8	57.10	29033	11.97
				9	58.05	33547	13.83

Peak Find - Memory-80



[Comments]
Sample name 16d
Comment 4/2018
User IR
Division IR
Company MAC

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3752.8	97.527	2	3429.78	90.3062	3	3057.58	95.4233
4	2919.7	94.5704	5	2747.1	95.5423	6	2610.18	95.5399
7	2491.58	95.8741	8	2373.94	95.8977	9	1698.02	97.8622
10	1580.38	90.0637	11	1503.24	91.7701	12	1320.04	91.6957
13	1241.93	93.2553	14	1198.54	94.1109	15	1087.66	93.584
16	936.271	96.7767	17	830.205	97.2213	18	712.569	98.0714
19	603.61	97.3874	20	510.08	98.5666	21	414.62	98.2056



17a

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
10	59.05	42623	17.57	79	128.10	11233	4.63	148	196.95	2571	1.06
11	60.05	53161	21.91	80	129.10	8983	3.70	149	197.95	2485	1.02
12	61.05	8721	3.59	81	130.10	4132	1.70	150	199.00	1465	0.60
13	62.10	6830	2.81	82	131.10	2209	0.91	151	200.00	921	0.38
14	63.10	22967	9.47	83	132.10	3841	1.58	152	201.00	737	0.30
15	64.15	41920	17.28	84	133.15	3248	1.34	153	202.00	926	0.38
16	65.10	228095	94.01	85	134.15	2481	1.02	154	202.95	1214	0.50
17	66.10	69292	28.56	86	135.10	6916	2.85	155	203.95	3735	1.54
18	67.10	31950	13.17	87	136.10	3852	1.59	156	204.95	1226	0.51
19	68.10	17684	7.29	88	137.10	6207	2.56	157	206.00	1334	0.55
20	69.10	49892	20.56	89	138.10	25638	10.57	158	206.95	1665	0.69
21	70.05	46797	19.29	90	139.05	46401	19.12	159	208.00	1340	0.55
22	71.05	111845	46.10	91	140.05	52213	21.52	160	208.95	4156	1.71
23	72.05	183839	75.77	92	141.10	12793	5.27	161	209.95	7890	3.25
24	73.05	22548	9.29	93	142.10	4655	1.92	162	210.95	5821	2.40
25	74.05	21740	8.96	94	143.05	2136	0.88	163	211.90	11423	4.71
26	75.05	5400	2.23	95	144.05	2374	0.98	164	212.95	7931	3.27
27	76.15	12716	5.24	96	145.05	6481	2.67	165	213.95	2395	0.99
28	77.10	208278	85.84	97	146.05	3729	1.54	166	214.95	1295	0.53
29	78.10	31801	13.11	98	147.05	4688	1.93	167	215.95	886	0.37
30	79.15	7120	2.93	99	148.05	2344	0.97	168	217.00	1446	0.60
31	80.10	21289	8.77	100	149.05	6558	2.70	169	218.00	833	0.34
32	81.10	17548	7.23	101	150.00	24370	10.04	170	219.00	1319	0.54
33	82.10	16892	6.96	102	151.05	6261	2.58	171	219.95	2819	1.16
34	83.10	35234	14.52	103	152.05	27610	11.38	172	220.95	6742	2.78
35	84.05	23716	9.77	104	153.05	37846	15.60	173	221.95	7562	3.12
36	85.10	22273	9.18	105	154.05	194460	80.15	174	222.95	2354	0.97
37	86.05	36470	15.03	106	155.05	55311	22.80	175	224.00	1601	0.66
38	87.10	9692	3.99	107	156.00	17767	7.32	176	225.00	1113	0.46
39	88.05	4233	1.74	108	157.00	4524	1.86	177	226.00	1337	0.55
40	89.10	5111	2.11	109	158.00	1718	0.71	178	226.95	1495	0.62
41	90.15	9396	3.87	110	159.00	1238	0.51	179	227.95	1173	0.48
42	91.10	106897	44.06	111	160.00	1618	0.67	180	229.00	1116	0.46
43	92.10	215890	88.98	112	161.00	1698	0.70	181	230.00	1174	0.48
44	93.10	92079	37.95	113	162.00	1612	0.66	182	231.00	810	0.33
45	94.10	12311	5.07	114	163.00	1929	0.80	183	232.00	1327	0.55
46	95.10	14383	5.93	115	164.00	2970	1.22	184	233.05	664	0.27
47	96.10	17351	7.15	116	165.05	2904	1.20	185	234.00	2078	0.86
48	97.10	37682	15.53	117	166.00	7620	3.14	186	235.00	7276	3.00
49	98.05	33065	13.63	118	167.00	19055	7.85	187	236.00	2894	1.19
50	99.10	14708	6.06	119	168.00	5878	2.42	188	236.95	2659	1.10
51	100.05	12824	5.29	120	169.00	5153	2.12	189	237.95	2441	1.01
52	101.05	6167	2.54	121	170.00	3089	1.27	190	239.00	3292	1.36
53	102.05	3849	1.59	122	171.00	3486	1.44	191	239.95	2862	1.18
54	103.10	6634	2.73	123	172.00	2612	1.08	192	240.95	1564	0.64
55	104.15	6539	2.70	124	173.00	2190	0.90	193	241.95	1300	0.54
56	105.10	41367	17.05	125	174.00	1346	0.55	194	243.00	1350	0.56
57	106.10	7481	3.08	126	175.00	1262	0.52	195	244.00	698	0.29
58	107.10	10850	4.47	127	176.00	2006	0.83	196	245.00	758	0.31
59	108.10	6311	2.60	128	176.95	3627	1.49	197	246.05	775	0.32
60	109.10	7100	2.93	129	177.95	2662	1.10	198	246.95	1338	0.55
61	110.10	11063	4.56	130	178.95	5309	2.19	199	248.00	1050	0.43
62	111.10	21342	8.80	131	180.00	3633	1.50	200	249.00	898	0.37
63	112.10	73143	30.15	132	181.00	5679	2.34	201	249.95	1052	0.43
64	113.05	242629	100.00	133	182.00	4225	1.74	202	250.90	1050	0.43
65	114.05	33358	13.75	134	182.95	2796	1.15	203	251.95	1498	0.62
66	115.10	21244	8.76	135	183.95	2336	0.96	204	252.95	1607	0.66
67	116.10	4753	1.96	136	185.00	2873	1.18	205	254.00	3498	1.44
68	117.15	6925	2.85	137	185.95	1795	0.74	206	254.95	2936	1.21
69	118.10	26782	11.04	138	186.90	1252	0.52	207	255.95	1487	0.61
70	119.10	9153	3.77	139	187.95	1028	0.42	208	257.00	894	0.37
71	120.15	9130	3.76	140	189.00	1258	0.52	209	258.00	604	0.25
72	121.10	19684	8.11	141	190.00	1246	0.51	210	259.05	567	0.23
73	122.10	6111	2.52	142	191.00	1231	0.51	211	259.95	1253	0.52
74	123.10	7646	3.15	143	192.00	2668	1.10	212	260.95	659	0.27
75	124.10	6658	2.74	144	193.00	3674	1.51	213	261.95	1035	0.43
76	125.10	7879	3.25	145	194.00	16126	6.65	214	262.95	1839	0.76
77	126.10	13063	5.38	146	194.95	6168	2.54	215	263.95	1331	0.55
78	127.10	26268	10.83	147	195.95	3374	1.39	216	264.95	1074	0.44

17a

#	ms	Abs. In	Rel. Int	#	ms	Abs. In	Rel. Int	#	ms	Abs. In	Rel. Int
247	265.45	2608	1.07	282	335.90	2662	0.85	347	398.80	247	0.10
248	266.45	1171	0.48	283	331.45	673	0.28	348	399.90	414	0.17
249	267.45	1494	0.60	284	332.90	338	0.14	349	400.90	228	0.09
250	268.45	1127	0.46	285	333.90	164	0.07	350	401.90	170	0.07
251	270.00	1162	0.48	286	334.90	121	0.05	351	402.90	169	0.07
252	271.45	478	0.20	287	335.90	169	0.07	352	403.90	178	0.07
253	271.45	607	0.25	288	336.90	196	0.08	353	405.90	127	0.05
254	273.00	682	0.29	289	338.00	1062	0.44	354	406.90	140	0.06
255	273.45	5947	1.38	290	338.45	2630	1.17	355	408.90	166	0.07
256	274.45	1094	0.45	291	339.95	4593	1.88	356	409.90	132	0.05
257	275.45	664	0.28	292	340.00	1463	0.60	357	410.90	119	0.05
258	276.45	560	0.15	293	342.00	492	0.20	358	411.90	130	0.05
259	278.00	383	0.16	294	343.00	290	0.11	359	412.90	202	0.08
260	278.45	1448	0.60	295	344.00	218	0.09	360	413.90	490	0.20
261	279.45	1840	0.76	296	344.90	529	0.22	361	414.90	183	0.08
262	280.00	6338	1.85	297	345.90	500	0.21	362	415.90	434	0.18
263	281.45	2336	0.66	298	346.90	398	0.16	363	416.90	193	0.08
264	282.00	1482	0.51	299	347.90	193	0.08	364	417.90	174	0.07
265	284.00	986	0.41	300	348.90	130	0.05	365	420.90	103	0.04
266	285.00	624	0.38	301	349.90	159	0.07	366	421.90	166	0.07
267	285.45	887	0.23	302	350.90	209	0.09	367	422.90	170	0.07
268	286.00	127	0.13	303	351.90	178	0.07	368	423.90	142	0.06
269	287.00	247	0.11	304	352.90	174	0.07	369	424.90	111	0.05
270	288.00	334	0.13	305	353.95	621	0.26	370	426.90	118	0.05
271	289.90	402	0.17	306	354.95	9792	4.04	371	429.90	169	0.07
272	290.00	319	0.13	307	355.90	2690	1.11	372	430.90	177	0.07
273	291.00	215	0.09	308	356.95	1045	0.43	373	431.90	191	0.08
274	292.00	240	0.10	309	357.95	863	0.36	374	432.90	225	0.09
275	293.00	380	0.16	310	358.90	358	0.15	375	436.90	151	0.06
276	294.95	198	0.10	311	359.95	811	0.33	376	437.90	126	0.05
277	295.45	2693	1.19	312	360.90	271	0.11	377	439.90	132	0.05
278	296.45	1216	0.50	313	361.90	162	0.07	378	440.90	182	0.08
279	297.00	462	0.29	314	362.90	105	0.04	379	441.90	172	0.07
280	298.00	945	0.39	315	364.90	118	0.05	380	442.90	175	0.07
281	300.00	462	0.20	316	365.90	137	0.06	381	444.90	113	0.05
282	301.00	468	0.19	317	366.90	354	0.15	382	445.90	127	0.05
283	302.00	297	0.12	318	368.00	454	0.19	383	450.90	102	0.04
284	303.00	302	0.12	319	369.00	273	0.11	384	451.90	166	0.07
285	304.00	425	0.18	320	370.00	316	0.13	385	452.90	367	0.15
286	305.00	218	0.09	321	370.95	344	0.14	386	453.90	198	0.08
287	306.00	210	0.09	322	371.95	3199	1.32	387	454.90	124	0.05
288	307.00	186	0.08	323	372.90	24724	10.19	388	455.90	135	0.06
289	308.00	362	0.15	324	373.90	5214	2.15	389	456.90	319	0.13
290	309.00	268	0.11	325	374.90	2614	1.08	390	457.90	239	0.10
291	309.45	437	0.18	326	375.95	673	0.28	391	458.90	223	0.09
292	311.00	619	0.26	327	376.90	174	0.07	392	459.90	270	0.11
293	312.00	453	0.19	328	377.90	193	0.08	393	460.90	207	0.09
294	313.00	1362	0.56	329	378.90	199	0.08	394	461.90	146	0.06
295	314.00	846	0.23	330	379.90	182	0.08	395	463.90	116	0.05
296	315.00	302	0.12	331	380.90	198	0.08	396	465.90	108	0.04
297	316.00	311	0.13	332	381.90	257	0.11	397	470.90	114	0.05
298	317.00	170	0.07	333	382.90	231	0.10	398	471.90	156	0.06
299	318.00	238	0.10	334	383.90	151	0.06	399	474.90	118	0.05
300	319.00	206	0.08	335	384.90	287	0.12	400	478.90	146	0.06
301	320.00	150	0.06	336	385.90	191	0.08	401	484.80	206	0.08
302	321.00	230	0.09	337	386.95	3269	1.35	402	485.85	1566	0.65
303	322.00	202	0.08	338	387.90	132095	54.44	403	486.90	527	0.22
304	323.00	330	0.14	339	388.95	29113	12.00	404	487.90	234	0.10
305	324.00	313	0.13	340	389.90	15570	6.42	405	488.90	103	0.04
306	325.00	382	0.16	341	390.90	3118	1.29	406	504.90	102	0.04
307	326.00	194	0.08	342	391.95	750	0.31	407	506.90	122	0.05
308	327.00	303	0.16	343	392.90	218	0.10	408	507.90	106	0.04
309	328.00	433	0.18	344	393.90	174	0.07	409	508.90	105	0.04
310	328.45	469	0.19	345	394.90	177	0.07				
311	329.45	752	0.31	346	397.90	190	0.08				

#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.	#	m/z	Abs. In	Rel. Int.
10	99.03	17992	22.66	79	128.10	5375	6.77	148	196.90	1156	1.46
11	80.03	22472	28.30	80	129.10	7124	8.97	149	198.00	1327	1.67
12	61.03	4986	6.28	81	130.15	2830	3.56	150	199.00	1057	1.33
13	82.10	2924	3.68	82	131.10	7012	8.83	151	200.05	988	1.24
14	63.03	7703	9.70	83	132.10	7260	9.14	152	201.00	1850	2.33
15	64.03	8102	10.20	84	133.15	3522	4.43	153	201.95	679	0.86
16	65.10	29036	36.56	85	134.10	3262	4.11	154	202.90	870	1.10
17	66.10	16721	21.06	86	135.10	6143	7.74	155	203.95	881	1.11
18	67.10	14758	18.58	87	136.15	2255	2.84	156	205.05	633	0.80
19	68.10	9401	11.84	88	137.10	3638	4.58	157	206.00	697	0.88
20	69.10	26442	33.30	89	138.10	10094	12.71	158	207.00	868	1.09
21	70.10	21705	27.33	90	139.10	16754	21.10	159	207.95	734	0.92
22	71.10	45094	56.78	91	140.05	18397	23.17	160	208.95	1556	1.96
23	72.05	54865	69.09	92	141.10	5086	6.40	161	210.00	2556	3.22
24	73.05	12982	16.35	93	142.10	2039	2.57	162	211.00	2282	2.87
25	74.05	8706	10.96	94	143.10	2047	2.58	163	211.95	4431	5.58
26	75.10	3758	4.73	95	144.05	1717	2.16	164	212.95	2949	3.71
27	76.15	9059	11.41	96	145.05	2486	3.13	165	213.95	1093	1.38
28	77.10	60582	76.29	97	146.05	2188	2.76	166	215.00	790	0.99
29	78.10	25119	31.63	98	147.05	2832	3.57	167	216.05	535	0.67
30	79.10	52030	65.52	99	148.05	1440	1.81	168	217.00	620	0.78
31	80.10	12202	15.37	100	149.00	2858	3.60	169	218.00	1334	1.68
32	81.10	10708	13.48	101	150.05	1816	2.29	170	219.00	671	0.84
33	82.10	9166	11.54	102	151.05	1534	1.93	171	220.00	849	1.07
34	83.10	18327	23.08	103	152.05	7844	9.88	172	221.00	1428	1.80
35	84.10	13351	16.81	104	153.05	11779	14.83	173	222.00	2254	2.84
36	85.10	13162	16.57	105	154.05	69840	87.94	174	222.95	941	1.18
37	86.05	12874	16.21	106	155.00	20374	25.66	175	224.05	600	0.76
38	87.10	5567	7.01	107	156.00	7049	8.88	176	225.10	695	0.88
39	88.10	1953	2.46	108	157.05	2494	3.14	177	225.95	641	0.81
40	89.10	4798	6.04	109	158.00	1188	1.50	178	226.95	829	1.04
41	90.15	5194	6.54	110	159.05	1802	2.27	179	228.00	495	0.62
42	91.10	78994	99.47	111	160.00	1154	1.45	180	229.00	534	0.67
43	92.10	12550	15.80	112	161.00	1986	2.50	181	229.95	380	0.48
44	93.15	5157	6.49	113	162.05	979	1.23	182	230.95	704	0.89
45	94.10	3684	4.64	114	163.00	2839	3.57	183	232.00	742	0.93
46	95.10	8818	11.10	115	164.00	7519	9.47	184	232.95	668	0.84
47	96.10	7782	9.80	116	165.00	2409	3.03	185	233.95	774	0.97
48	97.10	16788	21.14	117	166.05	3082	3.88	186	235.00	1186	1.49
49	98.10	15830	19.93	118	167.00	5978	7.53	187	236.00	758	0.95
50	99.10	7703	9.70	119	168.00	2252	2.84	188	237.00	953	1.20
51	100.10	5498	6.92	120	169.00	1870	2.35	189	238.00	1114	1.40
52	101.10	3622	4.56	121	170.00	1463	1.84	190	239.00	2247	2.83
53	102.10	3078	3.88	122	171.00	1846	2.32	191	240.00	1119	1.41
54	103.10	5142	6.47	123	172.00	1494	1.88	192	241.05	814	1.03
55	104.10	19052	23.99	124	173.00	3290	4.14	193	242.05	579	0.73
56	105.15	32447	40.86	125	174.00	1078	1.36	194	243.05	717	0.90
57	106.15	79414	100.00	126	175.00	722	0.91	195	243.95	565	0.71
58	107.10	39105	49.24	127	176.00	742	0.93	196	244.90	378	0.48
59	108.15	5884	7.41	128	177.00	834	1.05	197	246.00	519	0.65
60	109.10	5394	6.79	129	178.00	801	1.01	198	247.00	762	0.96
61	110.15	4855	6.11	130	179.00	1569	1.98	199	248.00	1353	1.70
62	111.10	10666	13.43	131	180.05	1372	1.73	200	248.95	5473	6.89
63	112.10	25945	32.67	132	181.00	2044	2.57	201	250.00	1455	1.83
64	113.10	79193	99.72	133	182.05	1571	1.98	202	251.00	950	1.20
65	114.10	12406	15.62	134	183.00	1535	1.93	203	252.00	778	0.98
66	115.10	9084	11.44	135	184.00	1390	1.75	204	252.95	798	1.00
67	116.10	3702	4.66	136	185.00	1586	2.00	205	253.90	903	1.14
68	117.10	3538	4.46	137	186.00	942	1.19	206	254.90	1068	1.34
69	118.15	3287	4.14	138	187.00	655	0.82	207	256.15	803	1.01
70	119.10	13578	17.10	139	188.00	540	0.68	208	257.05	619	0.78
71	120.10	4372	5.51	140	188.95	760	0.96	209	258.10	302	0.38
72	121.10	5414	6.82	141	189.95	866	1.09	210	259.10	404	0.51
73	122.15	2687	3.38	142	191.00	1110	1.40	211	260.10	361	0.45
74	123.10	3540	4.46	143	191.95	1444	1.82	212	261.00	316	0.40
75	124.15	3748	4.72	144	192.95	1852	2.33	213	262.00	820	1.03
76	125.15	4345	5.47	145	193.95	3936	4.96	214	263.00	793	1.00
77	126.10	5556	7.00	146	194.95	2233	2.81	215	263.95	1253	1.58
78	127.10	10214	12.86	147	195.95	1572	1.98	216	265.00	1114	1.40

17b

Cairo University Micro Analytical Center

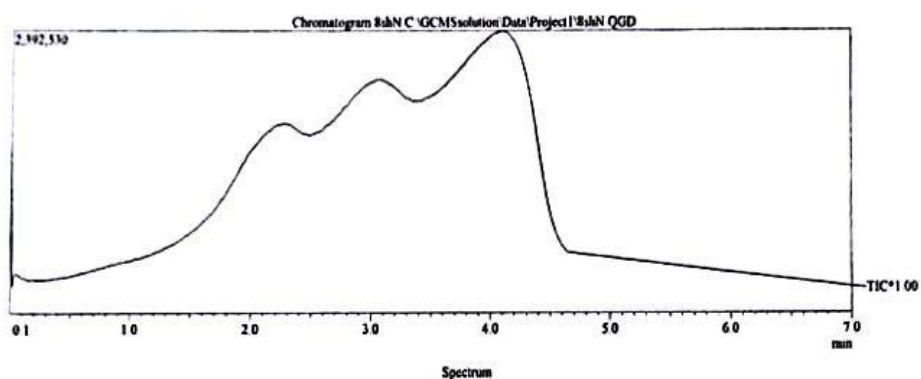
DI Analysis Shimadzu Qp-2010 Plus

Sample Information
 Analyzed by: Dr. Mai Younis
 Analyzed: 28/09/2019 06:06:25
 Sample Name: BbN
 Sample ID:
 Customer Name: Dr. Hoda Kamel - Science - Cairo
 Data File: C:\GCMSolution\Data Project1\BbN QGD
 Orig Data File: C:\GCMSolution\Data Project1\BbN QGD
 Method File: C:\GCMSolution\Data Project1\High Temperature Op
 Orig Method File: C:\GCMSolution\Data Project1\High Temperature Op
 Report File:
 Tuning File: C:\GCMSolution\System1\Tune11_default.qgt
 Simult/Modified by: Dr. Mai Younis
 Modified: 28/09/2019 06:11:08

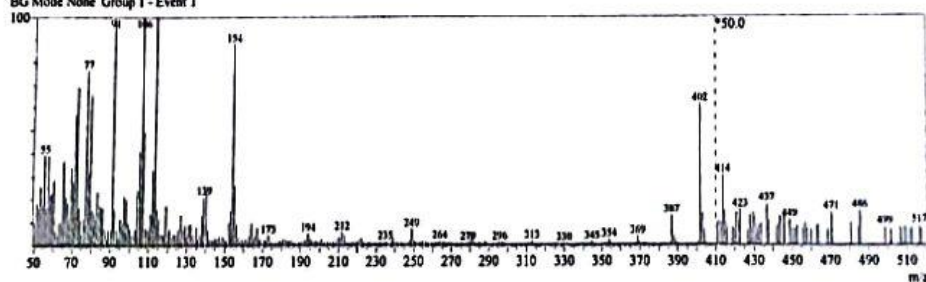
Method
 Analytical Line 1
 IonSourceTemp: 250.00 °C
 [MS Table]
 -Group 1 - Event 1-
 Start Time: 0.00min
 End Time: 10.00min
 ACQ Mode: Scan
 Event Time: 0.50sec
 Scan Speed: 1250
 Start m/z: 50.00
 End m/z: 650.00
 Electron Voltage: 70 eV
 Ionization Mode: EI



C:\GCMSolution\Data Project1\BbN QGD



Line# 1 R.Time:3.3(Scan# 396)
 MassPeaks:408
 RawMode:Single 3.3(396) BasePeak:106(79414)
 BG Mode:None Group 1 - Event 1



Mass Table

Line#1 R.Time:3.3(Scan#396)

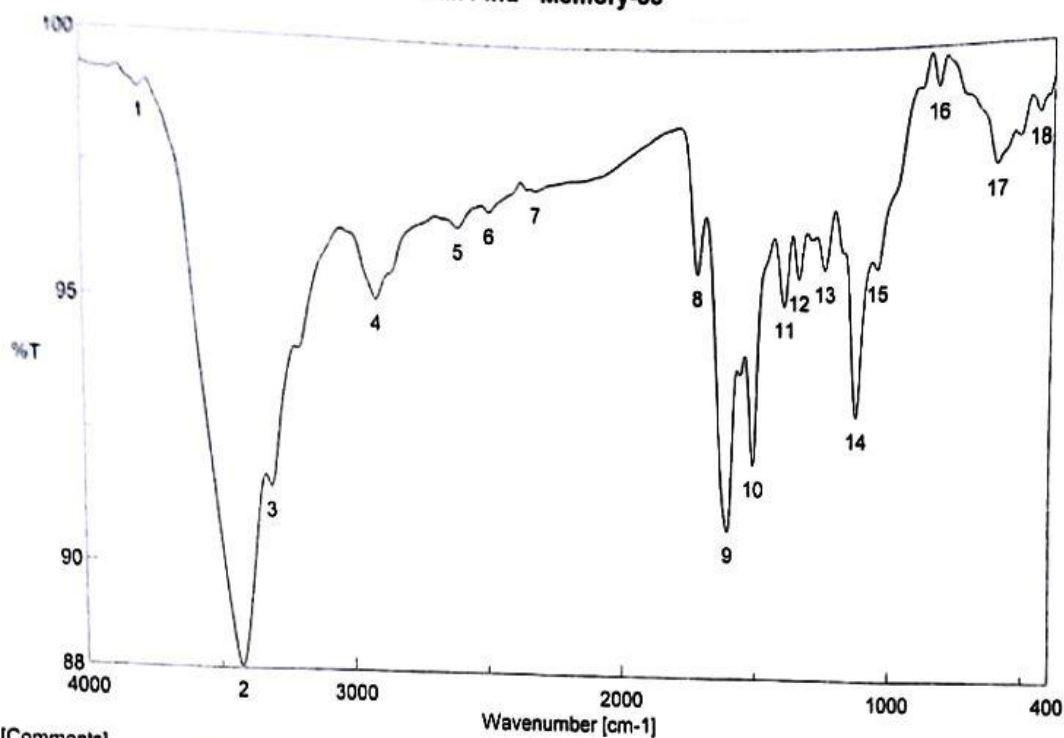
MassPeaks:408

RawMode:Single 3.3(396) BasePeak:106(79414)

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	50.05	7906	9.96	4	53.10	20338	25.61	7	56.10	12778	16.09
2	51.05	14327	18.04	5	54.10	13916	17.52	8	57.10	30854	38.85
3	52.05	12834	16.16	6	55.10	31102	39.16	9	58.05	17547	22.10

Peak Find - Memory-55



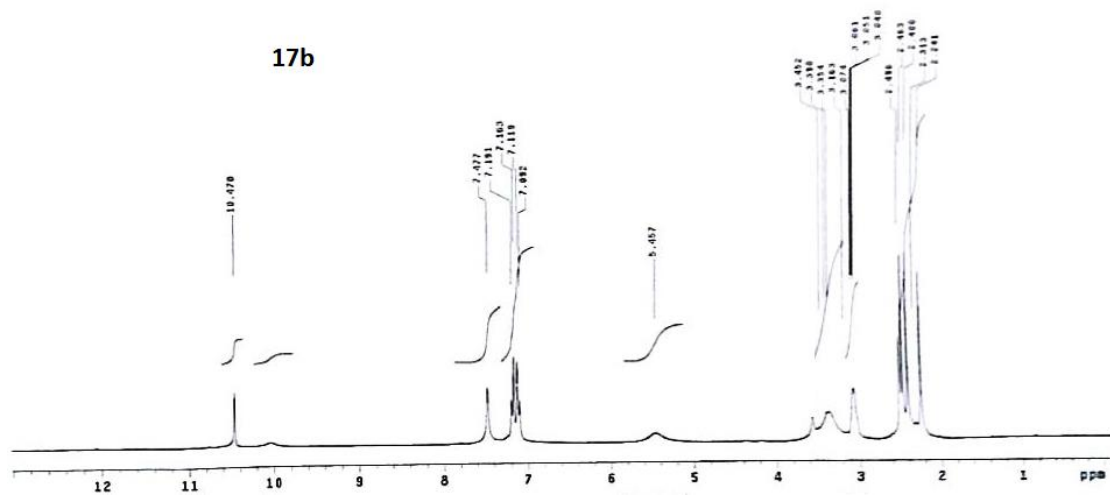
[Comments]
 Sample name **17b**
 Comment 4/2018
 User IR
 Division IR
 Company MAC

[Result of Peak Picking]

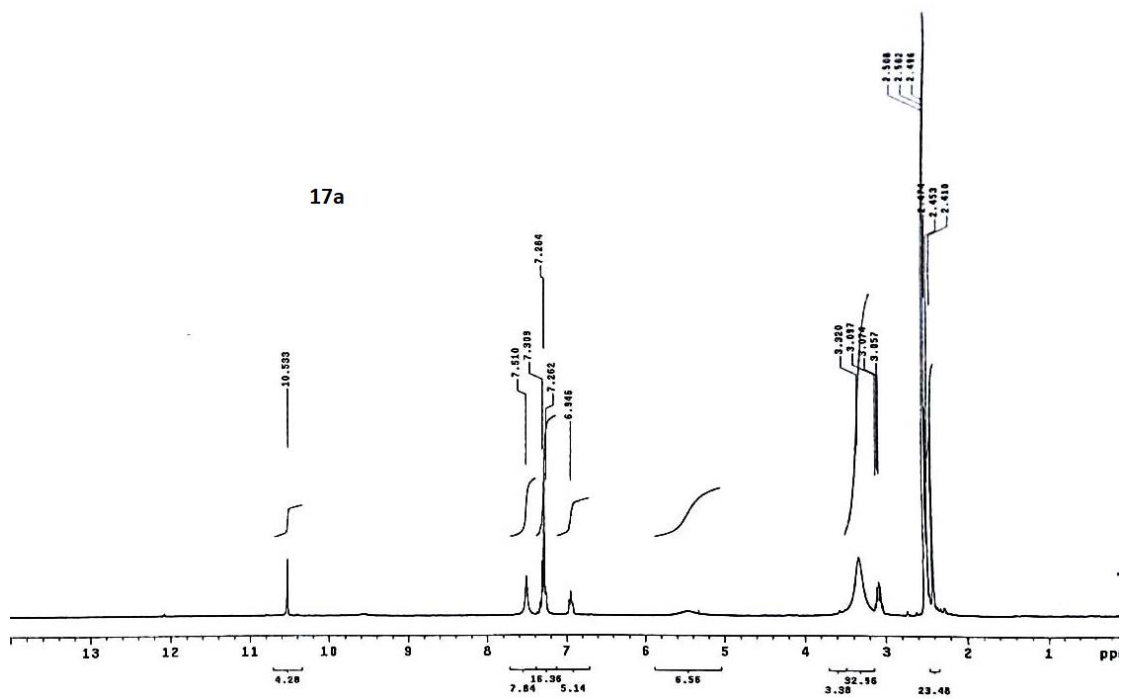
No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3783.65	98.8866	2	3423.99	88.0378	3	3310.21	91.5216
4	2918.73	95.1528	5	2611.14	96.5621	6	2493.51	96.8677
7	2318.98	97.3002	8	1710.55	95.7878	9	1602.56	90.8722
10	1505.17	92.1585	11	1385.6	95.2157	12	1331.61	95.7311
13	1235.18	95.9047	14	1119.48	93.1015	15	1039.44	95.9114
16	815.742	99.2827	17	601.682	97.8326	18	448.369	98.7348

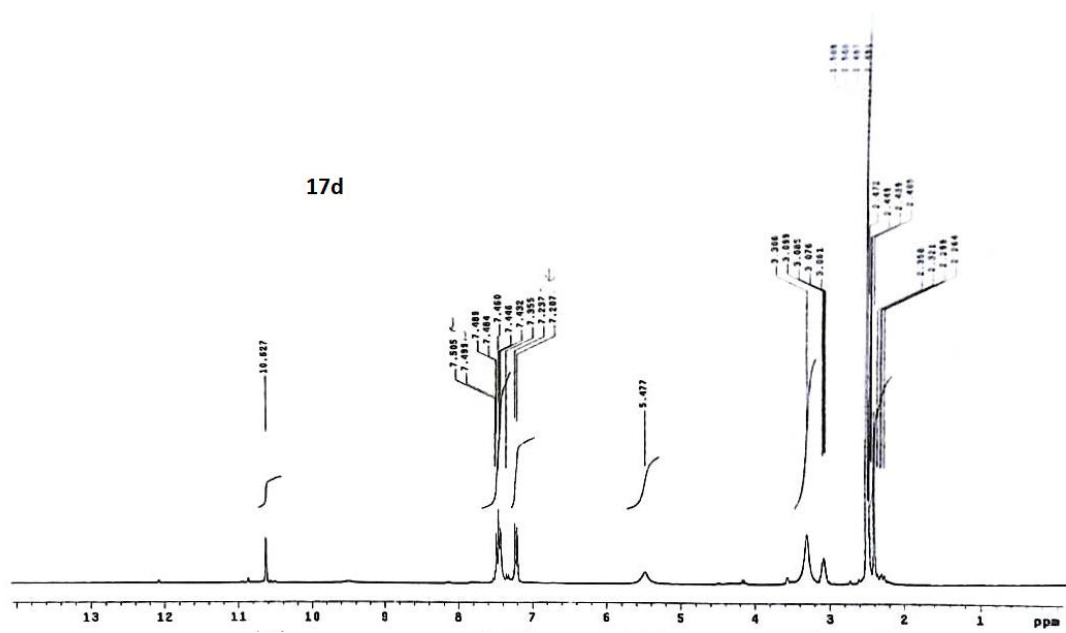
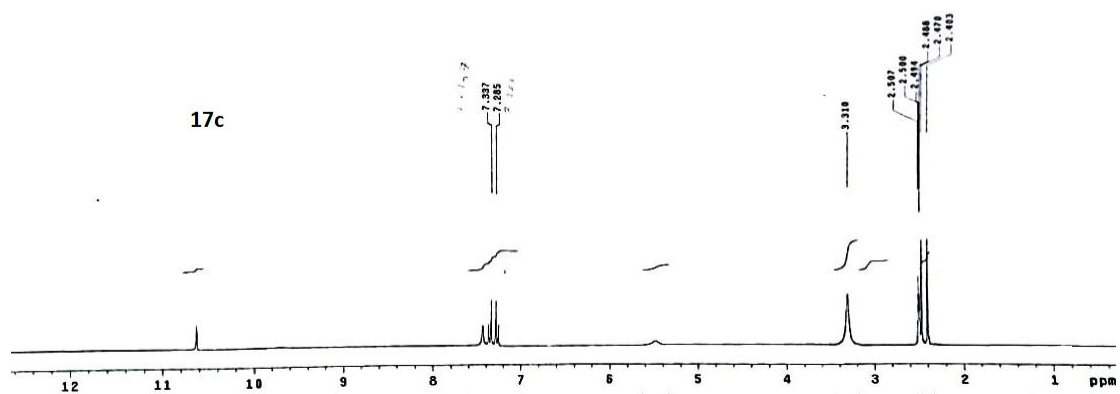


17b

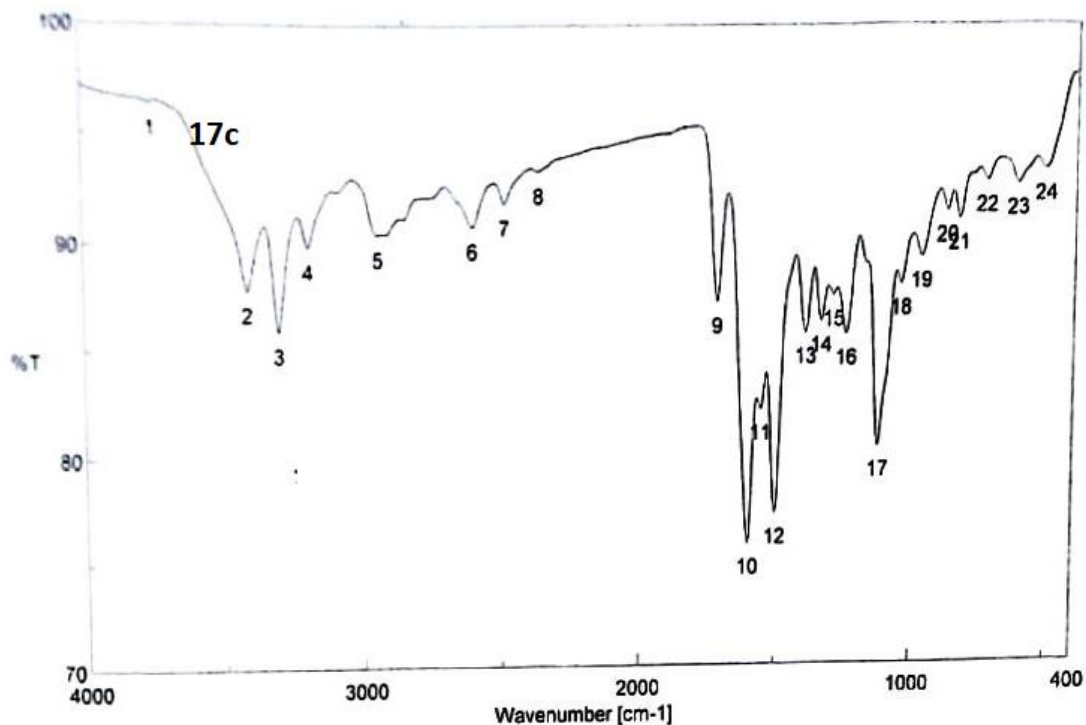


17a





Peak Find - Memory-25



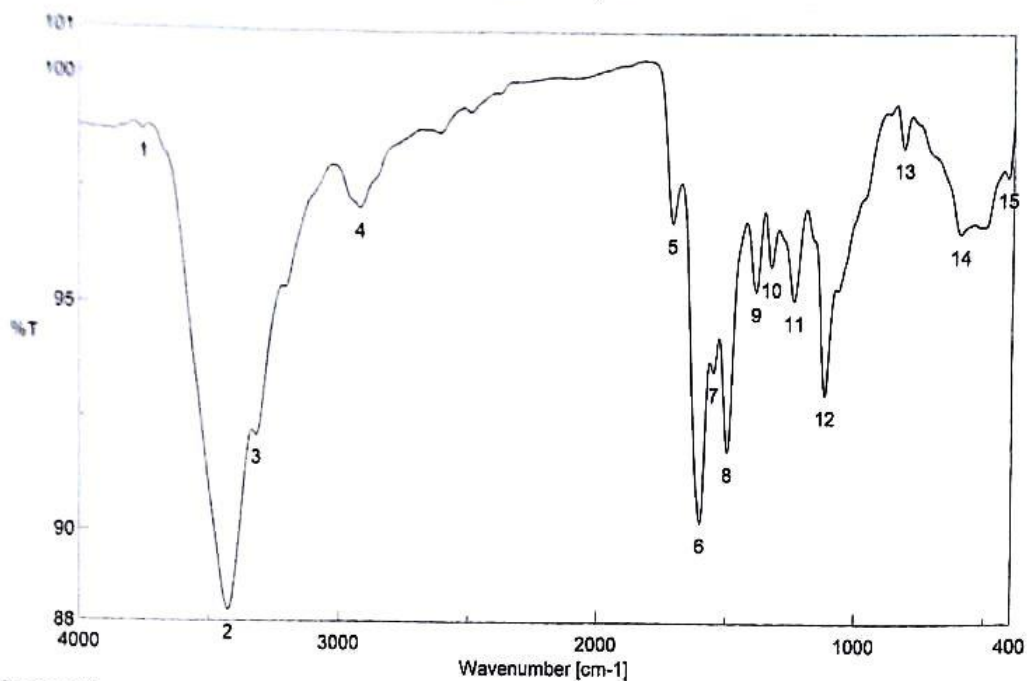
[Comments]
Sample name
Comment 3/2018
User IR
Division IR
Company MAC

[Result of Peak Picking]

No	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3753.76	96.4813	2	3416.28	87.8779	3	3306.36	85.9616
4	3200.29	89.8641	5	2950.55	90.4147	6	2608.25	90.7942
7	2492.54	91.8619	8	2368.16	93.3432	9	1712.48	87.2899
10	1597.73	75.8536	11	1551.45	82.2416	12	1498.42	77.2887
13	1388.5	85.8561	14	1331.61	86.3845	15	1286.29	87.592
16	1239.04	85.764	17	1119.48	80.474	18	1038.48	88.0873
19	964.233	89.3346	20	870.703	91.4272	21	826.348	91.0612
22	727.032	92.7828	23	613.252	92.638	24	512.008	93.2766



Peak Find - Memory-43



[Comments]
Sample name 17d
Comment 4/2018
User IR
Division IR
Company MAC

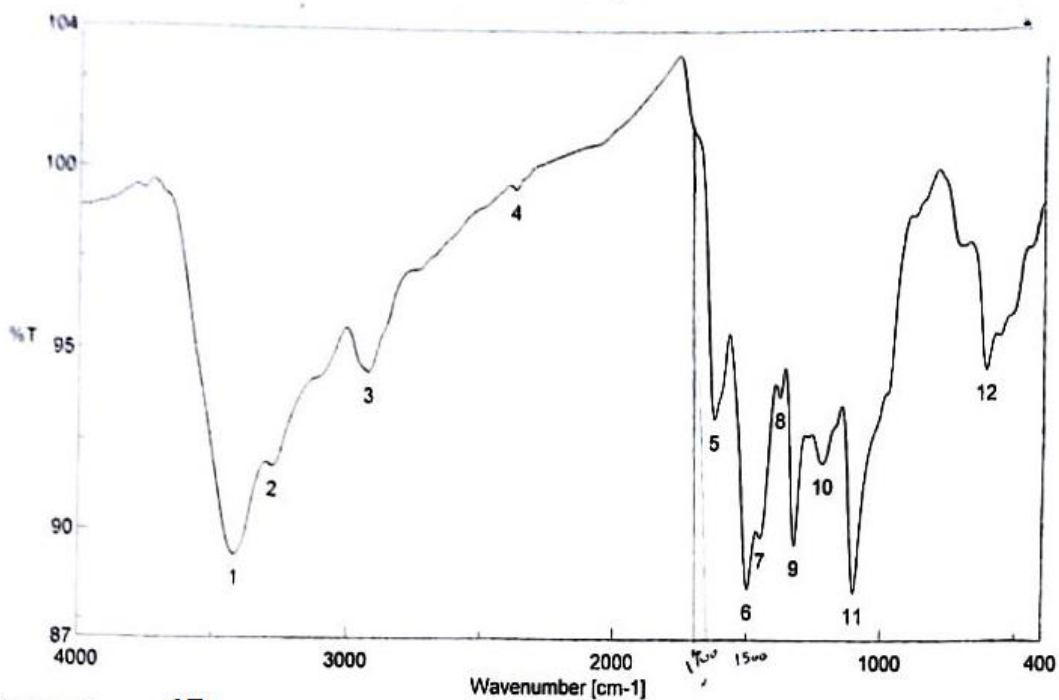
[Result of Peak Picking]

No	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3752.8	98.7539	2	3425.92	88.249	3	3319.86	92.1353
4	2922.59	97.1432	5	1710.55	96.8448	6	1600.63	90.2344
7	1549.52	93.5837	8	1496.49	91.8073	9	1386.57	95.3661
10	1328.71	95.9119	11	1240	95.1686	12	1119.48	93.0799
13	819.598	98.5065	14	598.789	96.6004	15	421.37	97.8187



481

Peak Find - Memory-75



[Comments] **17e**
 Sample name
 Comment 4/2018
 User IR
 Division IR
 Company MAC

[Result of Peak Picking]

No	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	3420.14	89.3263	2	3280.32	91.7984	3	2924.52	94.4175
4	2375.87	99.5314	5	1624.73	93.1676	6	1498.42	88.4267
7	1451.17	89.8699	8	1379.82	93.7725	9	1325.82	89.6502
10	1221.68	91.9267	11	1102.12	88.3338	12	610.36	94.5482



17b

