

rteres

Instrument :

FID_C

ClientSampleId :

OK-02-051222

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/16/2022

Supervised By :mohammad ahmed 05/16/2022

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC05132
 Data File : FC059762.D
 Signal(s) : FID1A.CH
 Acq On : 14 May 2022 00:00
 Sample : N2829-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 050522.M
 Title : GC Extractables

Signal : FID1A.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.948	2.905	2.959	BV	131	598	0.01%	0.001%
2	2.965	2.959	2.972	PV	72	422	0.01%	0.001%
3	2.979	2.972	2.998	VV	103	951	0.01%	0.002%
4	3.005	2.998	3.018	VV	247	1696	0.03%	0.004%
5	3.025	3.018	3.049	VV	151	2076	0.03%	0.005%
6	3.087	3.049	3.148	PV	340	10848	0.17%	0.025%
7	3.170	3.148	3.195	VV	333	7012	0.11%	0.016%
8	3.200	3.195	3.231	VV	234	3959	0.06%	0.009%
9	3.245	3.231	3.272	VV	273	4707	0.07%	0.011%
10	3.309	3.272	3.335	VV	424	13355	0.21%	0.031%
11	3.347	3.335	3.395	VV	409	11923	0.19%	0.028%
12	3.445	3.395	3.488	VV	490	18445	0.29%	0.043%
13	3.498	3.488	3.525	VV	281	4592	0.07%	0.011%
14	3.538	3.525	3.578	VV	286	6760	0.10%	0.016%
15	3.602	3.578	3.632	VV	239	3684	0.06%	0.009%
16	3.648	3.632	3.668	PV	324	5041	0.08%	0.012%
17	3.677	3.668	3.695	VV	299	3410	0.05%	0.008%
18	3.746	3.695	3.762	VV	322	9033	0.14%	0.021%
19	3.801	3.762	3.815	VV	451	11679	0.18%	0.027%
20	3.820	3.815	3.852	VV	432	9146	0.14%	0.021%
21	3.889	3.852	3.907	VV	590	15212	0.24%	0.035%
22	3.918	3.907	3.981	VV	661	17072	0.26%	0.040%
23	3.992	3.981	4.025	VV	369	6852	0.11%	0.016%
24	4.053	4.025	4.062	VV	391	5213	0.08%	0.012%
25	4.079	4.062	4.099	VV	363	6434	0.10%	0.015%
26	4.109	4.099	4.141	VV	295	4984	0.08%	0.012%
27	4.168	4.141	4.282	VV	319	15171	0.24%	0.035%
28	4.291	4.282	4.329	VV	261	6036	0.09%	0.014%
29	4.346	4.329	4.413	VV	380	9216	0.14%	0.021%
30	4.424	4.413	4.439	VV	306	2529	0.04%	0.006%
31	4.483	4.439	4.499	VV	382	6696	0.10%	0.016%
32	4.515	4.499	4.524	VV	225	1689	0.03%	0.004%
33	4.542	4.524	4.574	PV	278	4339	0.07%	0.010%
34	4.644	4.574	4.711	VV	686	26328	0.41%	0.061%
35	4.772	4.711	4.794	VV	504	16548	0.26%	0.038%
36	4.809	4.794	4.831	VV	451	7161	0.11%	0.017%

					rters			
37	4.848	4.831	4.890	VV	425	11832	0.18%	0.027%
38	4.926	4.890	4.941	VV	452	10826		
39	4.973	4.941	4.992	VV	487	12629		
40	5.015	4.992	5.048	VV	497	12923		
41	5.068	5.048	5.124	VV	556	16648		
42	5.135	5.124	5.169	VV	363	6575		
43	5.207	5.169	5.247	VV	901	23817	0.37%	0.055%
44	5.262	5.247	5.278	VV	408	4957	0.08%	0.012%
45	5.285	5.278	5.294	VV	252	1887	0.03%	0.004%
46	5.318	5.294	5.334	VV	304	4580	0.07%	0.011%
47	5.358	5.334	5.378	VV	293	4721	0.07%	0.011%
48	5.392	5.378	5.409	VV	335	3996	0.06%	0.009%
49	5.469	5.409	5.484	VV	372	9799	0.15%	0.023%
50	5.494	5.484	5.505	VV	364	4275	0.07%	0.010%
51	5.517	5.505	5.564	VV	505	10419	0.16%	0.024%
52	5.592	5.564	5.653	VV	645	16885	0.26%	0.039%
53	5.735	5.653	5.775	VV	479	16000	0.25%	0.037%
54	5.803	5.775	5.845	VV	343	10483	0.16%	0.024%
55	5.854	5.845	5.865	VV	191	2231	0.03%	0.005%
56	5.875	5.865	5.942	VV	329	8688	0.13%	0.020%
57	5.992	5.942	6.008	PV	410	7800	0.12%	0.018%
58	6.019	6.008	6.039	VV	321	4314	0.07%	0.010%
59	6.088	6.039	6.102	VV	320	8738	0.14%	0.020%
60	6.123	6.102	6.131	VV	404	4857	0.08%	0.011%
61	6.160	6.131	6.179	VV	432	9654	0.15%	0.022%
62	6.203	6.179	6.210	VV	623	7924	0.12%	0.018%
63	6.229	6.210	6.252	VV	1125	20626	0.32%	0.048%
64	6.261	6.252	6.325	VV	757	24599	0.38%	0.057%
65	6.348	6.325	6.393	VV	1111	27301	0.42%	0.063%
66	6.411	6.393	6.435	VV	404	8184	0.13%	0.019%
67	6.441	6.435	6.451	VV	331	2978	0.05%	0.007%
68	6.488	6.451	6.537	VV	1027	24652	0.38%	0.057%
69	6.552	6.537	6.612	VV	410	8679	0.13%	0.020%
70	6.668	6.612	6.699	PV	354	9280	0.14%	0.022%
71	6.729	6.699	6.754	VV	208	5330	0.08%	0.012%
72	6.816	6.754	6.915	VV	607191	6443427	100.00%	14.966%
73	6.926	6.915	7.025	VV	1218	48642	0.75%	0.113%
74	7.043	7.025	7.058	VV	568	8255	0.13%	0.019%
75	7.093	7.058	7.122	VV	695	17578	0.27%	0.041%
76	7.169	7.122	7.223	VV	1175	38702	0.60%	0.090%
77	7.277	7.223	7.294	VV	1834	37950	0.59%	0.088%
78	7.305	7.294	7.322	VV	1243	19121	0.30%	0.044%
79	7.338	7.322	7.405	VV	1710	38762	0.60%	0.090%
80	7.460	7.405	7.519	VV	1451	50235	0.78%	0.117%
81	7.537	7.519	7.597	VV	650	14579	0.23%	0.034%
82	7.628	7.597	7.711	PV	405903	4319463	67.04%	10.033%
83	7.734	7.711	7.781	VV	4175	80397	1.25%	0.187%
84	7.813	7.781	7.842	VV	1050	31120	0.48%	0.072%
85	7.860	7.842	7.887	VV	1200	21992	0.34%	0.051%
86	7.909	7.887	7.950	VV	781	17270	0.27%	0.040%
87	7.975	7.950	7.998	VV	1186	21008	0.33%	0.049%
88	8.032	7.998	8.082	VV	1738	48915	0.76%	0.114%
89	8.094	8.082	8.117	VV	884	16366	0.25%	0.038%

Instrument :

FID_C

ClientSampleId :

OK-02-051222

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/16/2022

Supervised By :mohammad ahmed 05/16/2022

90	8.141	8.117	8.167	VV	2534	40722	0.63%	0.095%
91	8.183	8.167	8.202	VV	1004	15895		
92	8.214	8.202	8.275	VV	641	17071		
93	8.289	8.275	8.315	VV	841	11995		
94	8.327	8.315	8.362	VV	589	11142		
95	8.424	8.362	8.450	VV	829	26701		
96	8.476	8.450	8.490	VV	707	12282	0.19%	0.029%
97	8.511	8.490	8.562	VV	4175	76779	1.19%	0.178%
98	8.578	8.562	8.608	VV	1138	21475	0.33%	0.050%
99	8.650	8.608	8.693	VV	965	35633	0.55%	0.083%
100	8.707	8.693	8.748	VV	599	12531	0.19%	0.029%
101	8.771	8.748	8.797	VV	390	8592	0.13%	0.020%
102	8.837	8.797	8.872	VV	1121	29562	0.46%	0.069%
103	8.899	8.872	8.922	VV	2353	34148	0.53%	0.079%
104	8.938	8.922	8.985	VV	929	19764	0.31%	0.046%
105	8.998	8.985	9.034	VV	548	11411	0.18%	0.027%
106	9.064	9.034	9.095	VV	1191	24337	0.38%	0.057%
107	9.104	9.095	9.146	VV	422	7022	0.11%	0.016%
108	9.176	9.146	9.189	PV	302	5531	0.09%	0.013%
109	9.198	9.189	9.208	VV	294	2734	0.04%	0.006%
110	9.234	9.208	9.252	VV	692	11702	0.18%	0.027%
111	9.280	9.252	9.307	VV	1103	25018	0.39%	0.058%
112	9.329	9.307	9.344	VV	1051	15182	0.24%	0.035%
113	9.369	9.344	9.388	VV	1658	31613	0.49%	0.073%
114	9.409	9.388	9.452	VV	1588	33603	0.52%	0.078%
115	9.485	9.452	9.517	VV	1208	30227	0.47%	0.070%
116	9.542	9.517	9.572	VV	1010	23106	0.36%	0.054%
117	9.620	9.572	9.661	VV	3054	67955	1.05%	0.158%
118	9.688	9.661	9.758	VV	3567	68314	1.06%	0.159%
119	9.780	9.758	9.795	VV	449	6718	0.10%	0.016%
120	9.807	9.795	9.828	VV	352	5353	0.08%	0.012%
121	9.870	9.828	9.918	VV	22390	296983	4.61%	0.690%
122	9.952	9.918	10.011	VV	5960	109612	1.70%	0.255%
123	10.027	10.011	10.048	VV	1285	19328	0.30%	0.045%
124	10.060	10.048	10.095	VV	695	13217	0.21%	0.031%
125	10.113	10.095	10.138	VV	275	5422	0.08%	0.013%
126	10.173	10.138	10.202	PV	618	12173	0.19%	0.028%
127	10.258	10.202	10.278	VV	1458	35722	0.55%	0.083%
128	10.305	10.278	10.365	VV	2864	55896	0.87%	0.130%
129	10.390	10.365	10.436	VV	2496	46666	0.72%	0.108%
130	10.469	10.436	10.485	VV	514	8763	0.14%	0.020%
131	10.511	10.485	10.536	VV	1456	23829	0.37%	0.055%
132	10.559	10.536	10.577	VV	635	11463	0.18%	0.027%
133	10.590	10.577	10.602	VV	647	7038	0.11%	0.016%
134	10.652	10.602	10.725	VV	268309	3148859	48.87%	7.314%
135	10.761	10.725	10.784	VV	6349	101913	1.58%	0.237%
136	10.800	10.784	10.816	VV	3426	45585	0.71%	0.106%
137	10.834	10.816	10.880	VV	3598	63914	0.99%	0.148%
138	10.897	10.880	10.911	PV	211	2912	0.05%	0.007%
139	10.959	10.911	11.025	PV	3123	61485	0.95%	0.143%
140	11.049	11.025	11.111	VV	2313	41056	0.64%	0.095%
141	11.135	11.111	11.158	PV	2082	33863	0.53%	0.079%

Instrument :

FID_C

ClientSampleId :

OK-02-051222

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/16/2022

Supervised By :mohammad ahmed 05/16/2022

142	11.179	11.158	11.212	VV	1751	28854	0.45%	0.067%
143	11.281	11.212	11.373	VV	6952	177299	2.06%	0.067%
144	11.392	11.373	11.413	VV	1486	26164	0.04%	0.067%
145	11.430	11.413	11.487	VV	1840	38822	0.05%	0.067%
146	11.533	11.487	11.552	VV	4893	81315	1.19%	0.067%
147	11.587	11.552	11.618	VV	4964	105583	1.19%	0.067%
148	11.644	11.618	11.708	VV	31942	423714	6.58%	0.984%
149	11.769	11.708	11.788	PV	1167	24583	0.38%	0.057%
150	11.795	11.788	11.804	VV	526	4166	0.06%	0.010%
151	11.829	11.804	11.849	VV	2154	28733	0.45%	0.067%
152	11.869	11.849	11.908	VV	1374	33535	0.52%	0.078%
153	11.933	11.908	11.979	VV	28517	372189	5.78%	0.864%
154	12.021	11.979	12.098	VV	189225	2371840	36.81%	5.509%
155	12.125	12.098	12.157	PV	1302	29031	0.45%	0.067%
156	12.183	12.157	12.202	VV	3643	52271	0.81%	0.121%
157	12.221	12.202	12.245	VV	2529	40274	0.63%	0.094%
158	12.268	12.245	12.307	VV	2025	41697	0.65%	0.097%
159	12.329	12.307	12.342	VV	1787	24961	0.39%	0.058%
160	12.360	12.342	12.374	VV	1992	30772	0.48%	0.071%
161	12.398	12.374	12.428	VV	2826	55518	0.86%	0.129%
162	12.442	12.428	12.455	VV	854	10859	0.17%	0.025%
163	12.478	12.455	12.503	VV	5131	99463	1.54%	0.231%
164	12.521	12.503	12.595	VV	6465	144556	2.24%	0.336%
165	12.628	12.595	12.645	VV	4568	65543	1.02%	0.152%
166	12.662	12.645	12.682	VV	4104	57730	0.90%	0.134%
167	12.707	12.682	12.735	VV	2365	58070	0.90%	0.135%
168	12.757	12.735	12.773	VV	5645	81730	1.27%	0.190%
169	12.785	12.773	12.812	VV	4393	60347	0.94%	0.140%
170	12.828	12.812	12.864	VV	2486	41968	0.65%	0.097%
171	12.885	12.864	12.918	VV	1103	24482	0.38%	0.057%
172	12.924	12.918	12.935	VV	245	2748	0.04%	0.006%
173	12.980	12.935	13.001	PV	1422	29679	0.46%	0.069%
174	13.043	13.001	13.067	VV	821	16029	0.25%	0.037%
175	13.118	13.067	13.135	PV	1397	25051	0.39%	0.058%
176	13.154	13.135	13.187	VV	1056	22605	0.35%	0.053%
177	13.215	13.187	13.255	VV	3477	67355	1.05%	0.156%
178	13.271	13.255	13.283	VV	811	10332	0.16%	0.024%
179	13.307	13.283	13.398	VV	5693	143755	2.23%	0.334%
180	13.421	13.398	13.455	VV	2986	58034	0.90%	0.135%
181	13.478	13.455	13.496	VV	4166	50030	0.78%	0.116%
182	13.510	13.496	13.527	VV	1589	21501	0.33%	0.050%
183	13.542	13.527	13.563	VV	1576	21097	0.33%	0.049%
184	13.588	13.563	13.621	VV	2226	37413	0.58%	0.087%
185	13.633	13.621	13.654	VV	759	11682	0.18%	0.027%
186	13.680	13.654	13.721	VV	1295	36966	0.57%	0.086%
187	13.749	13.721	13.762	VV	1684	25686	0.40%	0.060%
188	13.785	13.762	13.804	VV	11378	141446	2.20%	0.329%
189	13.829	13.804	13.885	VV	22975	391684	6.08%	0.910%
190	13.900	13.885	13.908	VV	2015	23043	0.36%	0.054%
191	13.940	13.908	13.959	VV	3244	70110	1.09%	0.163%
192	13.985	13.959	14.007	VV	2838	54903	0.85%	0.128%
193	14.024	14.007	14.042	VV	1175	13652	0.21%	0.032%
194	14.098	14.042	14.116	PV	2498	51948	0.81%	0.121%

Instrument :

FID_C

ClientSampleId :

OK-02-051222

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/16/2022

Supervised By :mohammad ahmed 05/16/2022

195	14.133	14.116	14.179	VV	1742	37295	0.58%	0.087%
196	14.239	14.179	14.266	VV	2628	74667		
197	14.281	14.266	14.295	VV	935	9558		
198	14.343	14.295	14.375	PV	7150	133160		
199	14.406	14.375	14.424	VV	2703	56277		
200	14.448	14.424	14.471	VV	5744	92394		
201	14.484	14.471	14.506	VV	2291	31194	0.48%	0.072%
202	14.529	14.506	14.548	VV	1960	28811	0.45%	0.067%
203	14.609	14.548	14.651	VV	4054	133408	2.07%	0.310%
204	14.660	14.651	14.702	VV	1538	25592	0.40%	0.059%
205	14.733	14.702	14.750	PV	1832	26160	0.41%	0.061%
206	14.769	14.750	14.805	VV	1766	33475	0.52%	0.078%
207	14.833	14.805	14.859	VV	6646	109397	1.70%	0.254%
208	14.870	14.859	14.895	VV	1976	33309	0.52%	0.077%
209	14.900	14.895	14.917	VV	1545	12613	0.20%	0.029%
210	14.938	14.917	14.960	VV	1027	12454	0.19%	0.029%
211	15.005	14.960	15.019	PV	2128	37709	0.59%	0.088%
212	15.039	15.019	15.053	VV	1333	16037	0.25%	0.037%
213	15.134	15.053	15.172	VV	3055	110764	1.72%	0.257%
214	15.191	15.172	15.200	VV	758	9871	0.15%	0.023%
215	15.237	15.200	15.255	VV	1559	31062	0.48%	0.072%
216	15.314	15.255	15.375	PV	16505	346993	5.39%	0.806%
217	15.446	15.375	15.469	VV	5402	167322	2.60%	0.389%
218	15.490	15.469	15.515	VV	3308	73069	1.13%	0.170%
219	15.521	15.515	15.544	VV	2092	21421	0.33%	0.050%
220	15.633	15.544	15.667	VV	9340	219357	3.40%	0.509%
221	15.692	15.667	15.725	PV	10459	162150	2.52%	0.377%
222	15.758	15.725	15.782	VV	10100	192644	2.99%	0.447%
223	15.798	15.782	15.859	VV	6601	157199	2.44%	0.365%
224	15.868	15.859	15.875	VV	1558	12413	0.19%	0.029%
225	15.919	15.875	15.937	VV	3809	82454	1.28%	0.192%
226	15.958	15.937	15.982	VV	4422	88301	1.37%	0.205%
227	15.991	15.982	16.002	VV	2310	24253	0.38%	0.056%
228	16.055	16.002	16.075	VV	7736	180864	2.81%	0.420%
229	16.087	16.075	16.098	VV	4356	52871	0.82%	0.123%
230	16.122	16.098	16.163	VV	7248	154035	2.39%	0.358%
231	16.202	16.163	16.227	VV	14316	263308	4.09%	0.612%
232	16.243	16.227	16.255	VV	5273	61754	0.96%	0.143%
233	16.276	16.255	16.317	VV	5081	137669	2.14%	0.320%
234	16.367	16.317	16.405	VV	5795	188603	2.93%	0.438%
235	16.453	16.405	16.485	VV	4721	107323	1.67%	0.249%
236	16.507	16.485	16.525	VV	5643	99401	1.54%	0.231%
237	16.578	16.525	16.592	VV	7632	205648	3.19%	0.478%
238	16.632	16.592	16.675	VV	12097	277294	4.30%	0.644%
239	16.732	16.675	16.749	PV	15065	288188	4.47%	0.669%
240	16.762	16.749	16.815	VV	11321	255399	3.96%	0.593%
241	16.835	16.815	16.861	VV	4320	82152	1.27%	0.191%
242	16.943	16.861	16.980	PV	6564	291464	4.52%	0.677%
243	16.994	16.980	17.003	VV	3314	31846	0.49%	0.074%
244	17.046	17.003	17.067	VV	18163	301455	4.68%	0.700%
245	17.093	17.067	17.118	VV	16397	307830	4.78%	0.715%
246	17.132	17.118	17.155	VV	5979	95231	1.48%	0.221%

Instrument :

FID_C

ClientSampleId :

OK-02-051222

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/16/2022

Supervised By :mohammad ahmed 05/16/2022

					rters			
247	17.185	17.155	17.195	VV	6091	112910	1.75%	0.262%
248	17.206	17.195	17.225	VV	5831	89996		
249	17.249	17.225	17.274	VV	6109	128140		
250	17.301	17.274	17.361	VV	9153	238999		
251	17.441	17.361	17.482	VV	11949	306661		
252	17.509	17.482	17.531	VV	9183	149499		
253	17.558	17.531	17.618	VV	9548	229267	3.56%	0.533%
254	17.725	17.618	17.745	PV	6180	206555	3.21%	0.480%
255	17.773	17.745	17.797	VV	10013	190156	2.95%	0.442%
256	17.834	17.797	17.862	VV	18124	396486	6.15%	0.921%
257	17.876	17.862	17.885	VV	7014	89447	1.39%	0.208%
258	17.907	17.885	17.925	VV	10793	196215	3.05%	0.456%
259	18.007	17.925	18.054	VV	8045	504365	7.83%	1.171%
260	18.065	18.054	18.109	VV	4312	84565	1.31%	0.196%
261	18.122	18.109	18.165	VV	2658	55806	0.87%	0.130%
262	18.211	18.165	18.251	PV	13545	277259	4.30%	0.644%
263	18.262	18.251	18.269	VV	2908	28663	0.44%	0.067%
264	18.308	18.269	18.329	VV	8303	189220	2.94%	0.439%
265	18.405	18.329	18.445	VV	9964	526090	8.16%	1.222%
266	18.454	18.445	18.495	VV	10845	238222	3.70%	0.553%
267	18.528	18.495	18.555	VV	10728	286550	4.45%	0.666%
268	18.581	18.555	18.631	VV	12838	350051	5.43%	0.813%
269	18.641	18.631	18.662	VV	2336	21008	0.33%	0.049%
270	18.717	18.662	18.752	PV	8957	257116	3.99%	0.597%
271	18.772	18.752	18.791	VV	7284	135022	2.10%	0.314%
272	18.836	18.791	18.865	VV	13761	430481	6.68%	1.000%
273	18.888	18.865	18.915	VV	9084	218223	3.39%	0.507%
274	18.934	18.915	18.958	VV	13191	244269	3.79%	0.567%
275	18.976	18.958	18.998	VV	11190	208941	3.24%	0.485%
276	19.068	18.998	19.092	VV	11100	468862	7.28%	1.089%
277	19.118	19.092	19.129	VV	10969	216580	3.36%	0.503%
278	19.135	19.129	19.172	VV	9054	166256	2.58%	0.386%
279	19.199	19.172	19.207	VV	5667	114300	1.77%	0.265%
280	19.281	19.207	19.308	VV	14756	525496	8.16%	1.221%
281	19.317	19.308	19.345	VV	8856	123892	1.92%	0.288%
282	19.379	19.345	19.396	VV	4083	96616	1.50%	0.224%
283	19.576	19.396	19.588	VV	17218	1330206	20.64%	3.090%
284	19.620	19.588	19.674	VV	18865	572690	8.89%	1.330%
285	19.686	19.674	19.697	PV	1650	17304	0.27%	0.040%
286	19.864	19.697	19.882	VV	18343	1147314	17.81%	2.665%
287	19.891	19.882	19.928	VV	16762	395512	6.14%	0.919%
288	19.945	19.928	19.985	VV	14704	308529	4.79%	0.717%
289	20.093	19.985	20.131	VV	11667	697662	10.83%	1.620%
290	20.172	20.131	20.212	VV	12546	523533	8.13%	1.216%
291	20.232	20.212	20.245	VV	11036	206664	3.21%	0.480%
292	20.271	20.245	20.301	VV	17740	455024	7.06%	1.057%
293	20.327	20.301	20.341	VV	11415	246103	3.82%	0.572%
294	20.352	20.341	20.415	VV	8603	198705	3.08%	0.462%
295	20.477	20.415	20.488	PV	2666	90647	1.41%	0.211%

Sum of corrected areas: 43053507

Instrument :

FID_C

ClientSampleId :

OK-02-051222

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/16/2022

Supervised By :mohammad ahmed 05/16/2022