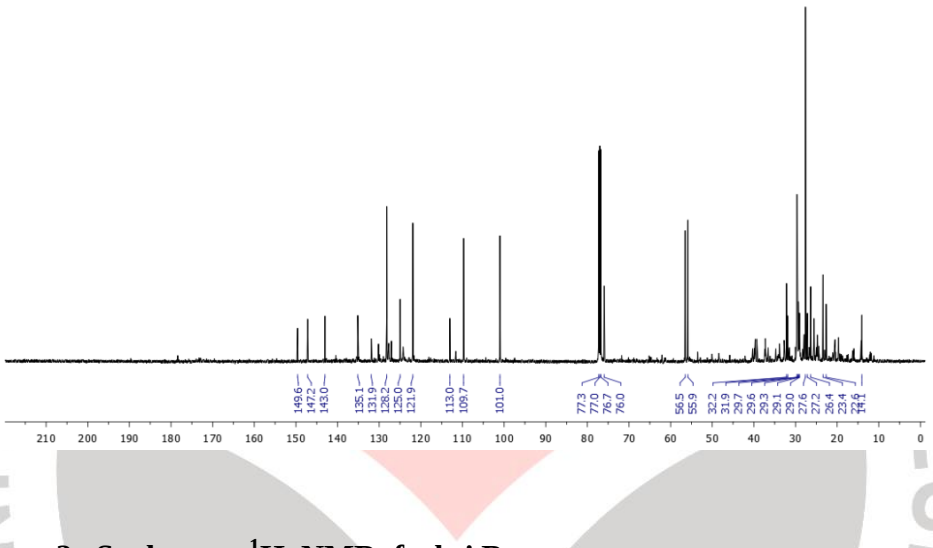
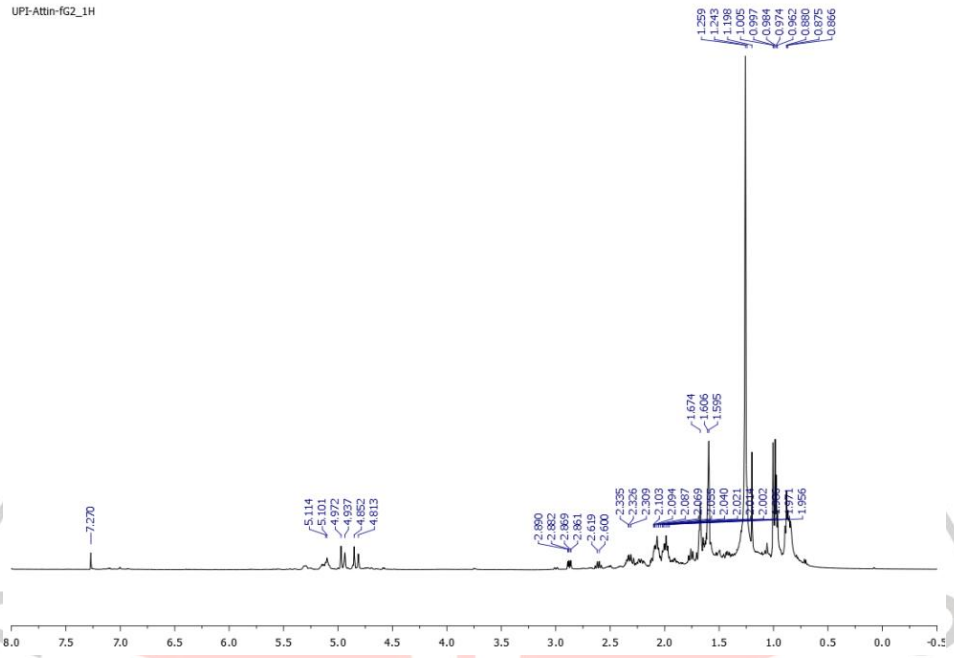
LAMPIRAN

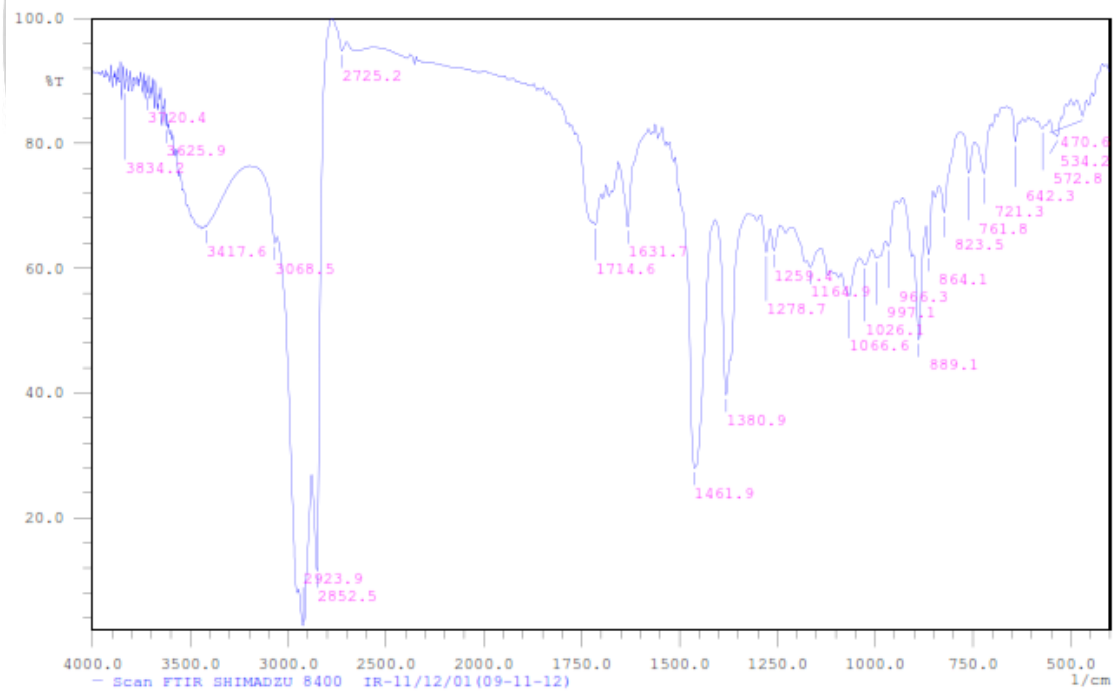
Lampiran 1 . Spektrum ^{13}C NMR Ekstrak Bionutrien AGF



Lampiran 2. Spektrum ^{1}H NMR fraksi B



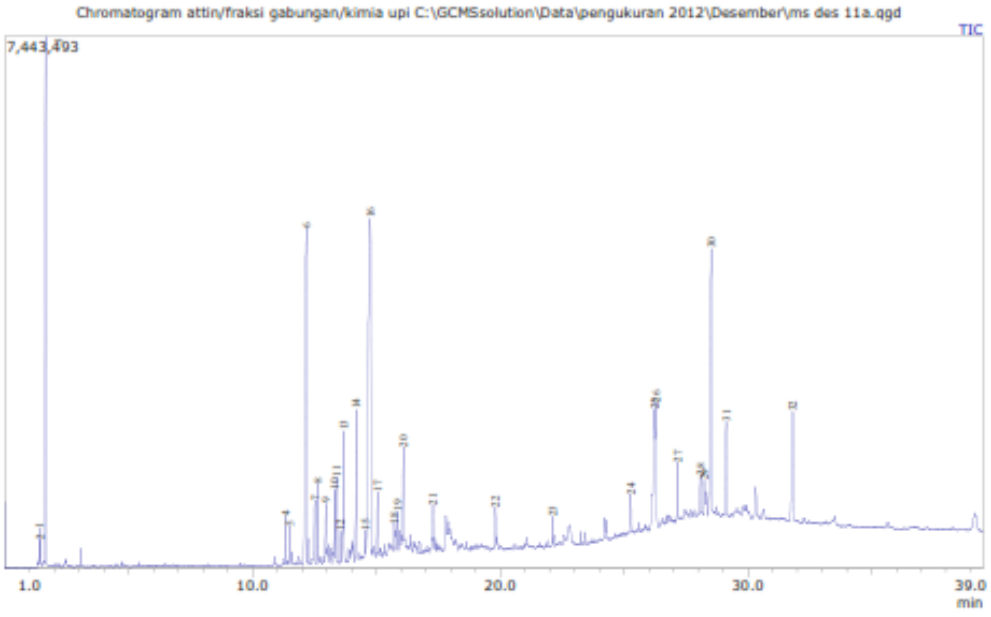
Lampiran 3. Spektrum FTIR Fraksi B



Lampiran 4. Kromatogram GC-MS fraksi B

Sample Information

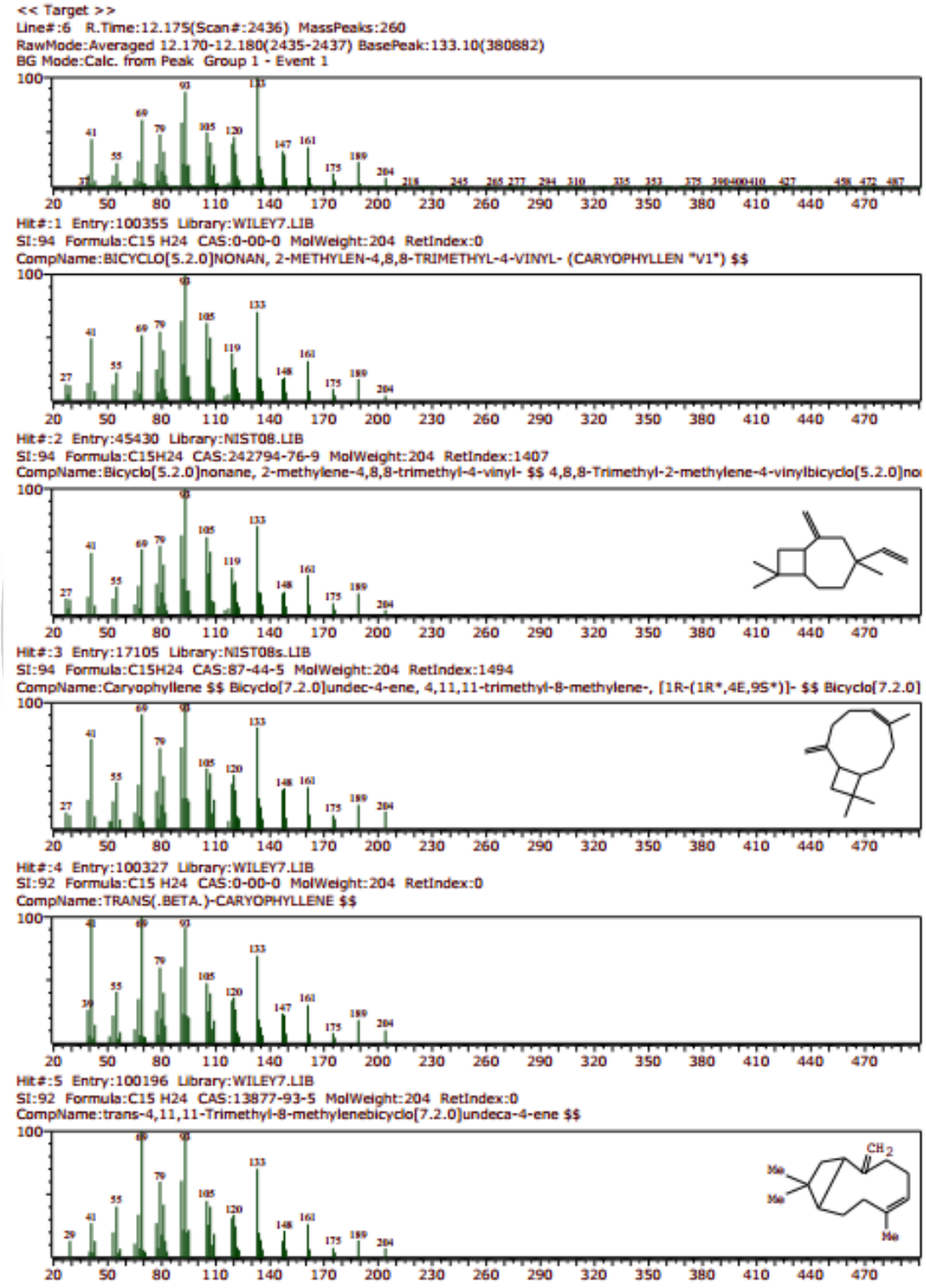
Analyzed by	: Admin
Sample Name	: attin/fraksi gabungan/kimia upi
Sample ID	: ms_12_12_11a
Injection Volume	: 0.20
Method File	: C:\GCMSsolution\Data\metoda\atsiri manual.qgm
Tuning File	: C:\GCMSsolution\System\Tune1\3 des 2012.qgt



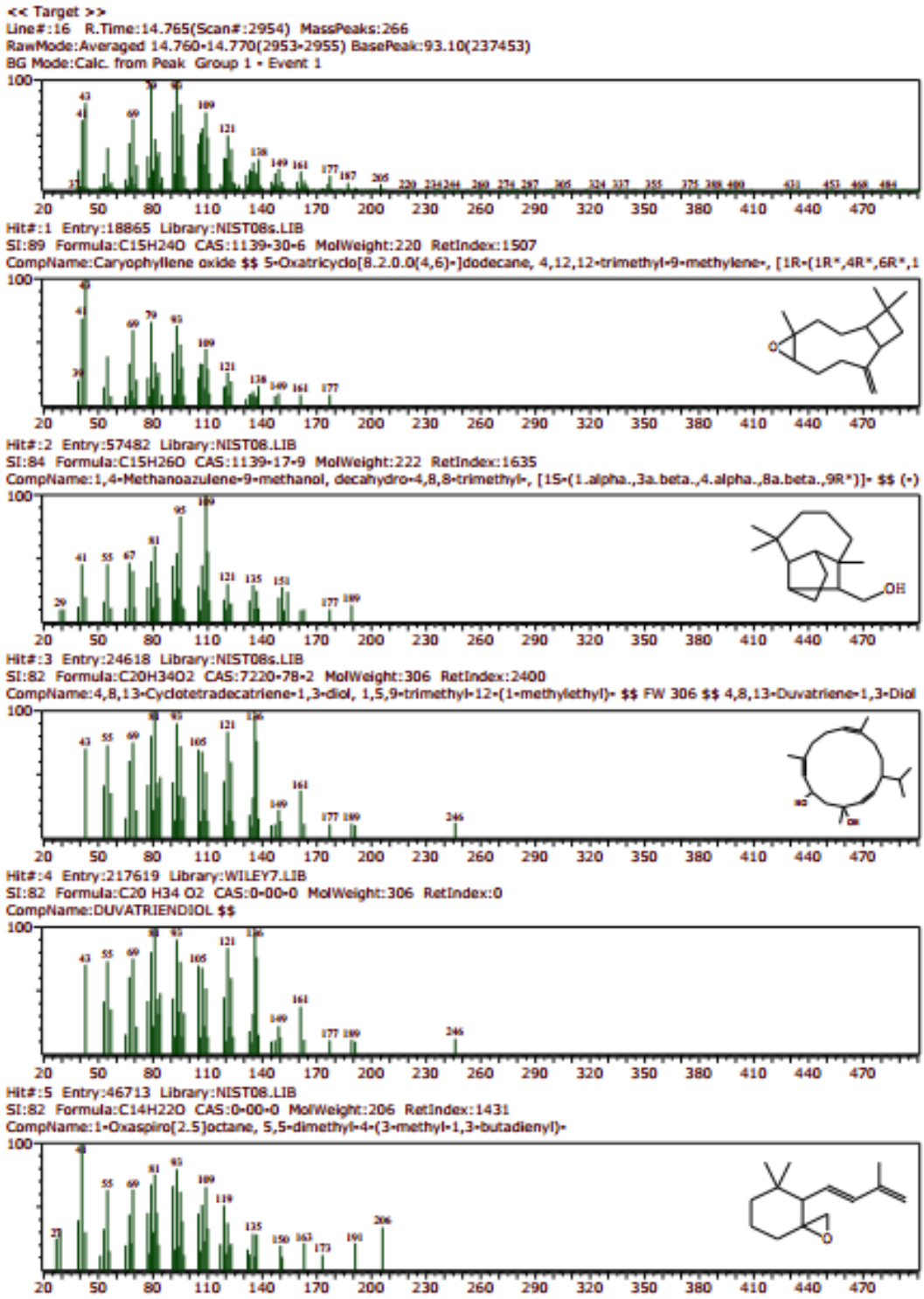
Peak Report TIC

Peak#	R.Time	Height	Area	Area%	A/H	Name
1	1.392	503705	508222	0.37	1.01	Ethanol (CAS) Ethyl alcohol
2	1.436	338866	505546	0.37	1.49	Acetone
3	1.641	7361656	12253685	9.00	1.66	Chloroform
4	11.354	679413	1196206	0.88	1.76	Copaene
5	11.522	502440	874257	0.64	1.74	.BETA. BOURBONENE
6	12.177	4692821	21518035	15.81	4.59	BICYCLO[5.2.0]NONAN, 2-METHYLEN-
7	12.517	803325	1311384	0.96	1.63	1,6,10-Dodecatriene, 7,11-dimethyl-3
8	12.649	1106855	2083391	1.53	1.88	1,4,7,-Cycloundecatriene, 1,5,9,9-tetr
9	12.961	762254	1411813	1.04	1.85	Naphthalene, 1,2,3,4,4a,5,6,8a-octah
10	13.321	908070	1540417	1.13	1.70	.alpha.-Muurolene
11	13.389	1163955	2114645	1.55	1.82	Cyclohexene, 1-methyl-4-(5-methyl-1
12	13.556	432247	760250	0.56	1.76	Naphthalene, 1,2,3,4,4a,5,6,8a-octah
13	13.691	1817243	5824529	4.28	3.21	Naphthalene, 1,2,3,4-tetrahydro-1,6-d
14	14.194	2089259	4615497	3.39	2.21	Caryophyllene oxide
15	14.540	367463	630512	0.46	1.72	1-Nonadecene
16	14.763	4689763	30670050	22.53	6.54	Caryophyllene oxide
17	15.053	871536	1776911	1.31	2.04	HUMULENE OXIDE
18	15.715	351738	1633139	1.20	4.64	Cadala-1(10),3,8-triene
19	15.849	537568	1131465	0.83	2.10	Cadala-1(10),3,8-triene
20	16.092	1320291	2647499	1.94	2.01	Caryophyllene oxide
21	17.293	546235	1048412	0.77	1.92	1-Nonadecene
22	19.814	538949	1016644	0.75	1.89	Eicosyl trifluoroacetate
23	22.118	394450	700975	0.51	1.78	Eicosyl trifluoroacetate
24	25.277	510354	939934	0.69	1.84	Hexatriacontane (CAS) n-Hexatriacont
25	26.229	1341991	4670708	3.43	3.48	Hexatriacontane (CAS) n-Hexatriacont
26	26.293	1573726	4796010	3.52	3.05	Tetrapentacontane
27	27.160	807922	1566167	1.15	1.94	Hexatriacontane (CAS) n-Hexatriacont
28	28.092	458878	926836	0.68	2.02	Hexatriacontane (CAS) n-Hexatriacont
29	28.253	390904	845554	0.62	2.16	.BETA.-NITROBENZO(6,7)BICYCLO(3.:
30	28.528	3663033	15441400	11.34	4.22	Squalene
31	29.131	1270436	3296462	2.42	2.59	Hexatriacontane (CAS) n-Hexatriacont
32	31.819	1460446	5887011	4.32	4.03	Tetrapentacontane
		44257792	136143566	100.00		

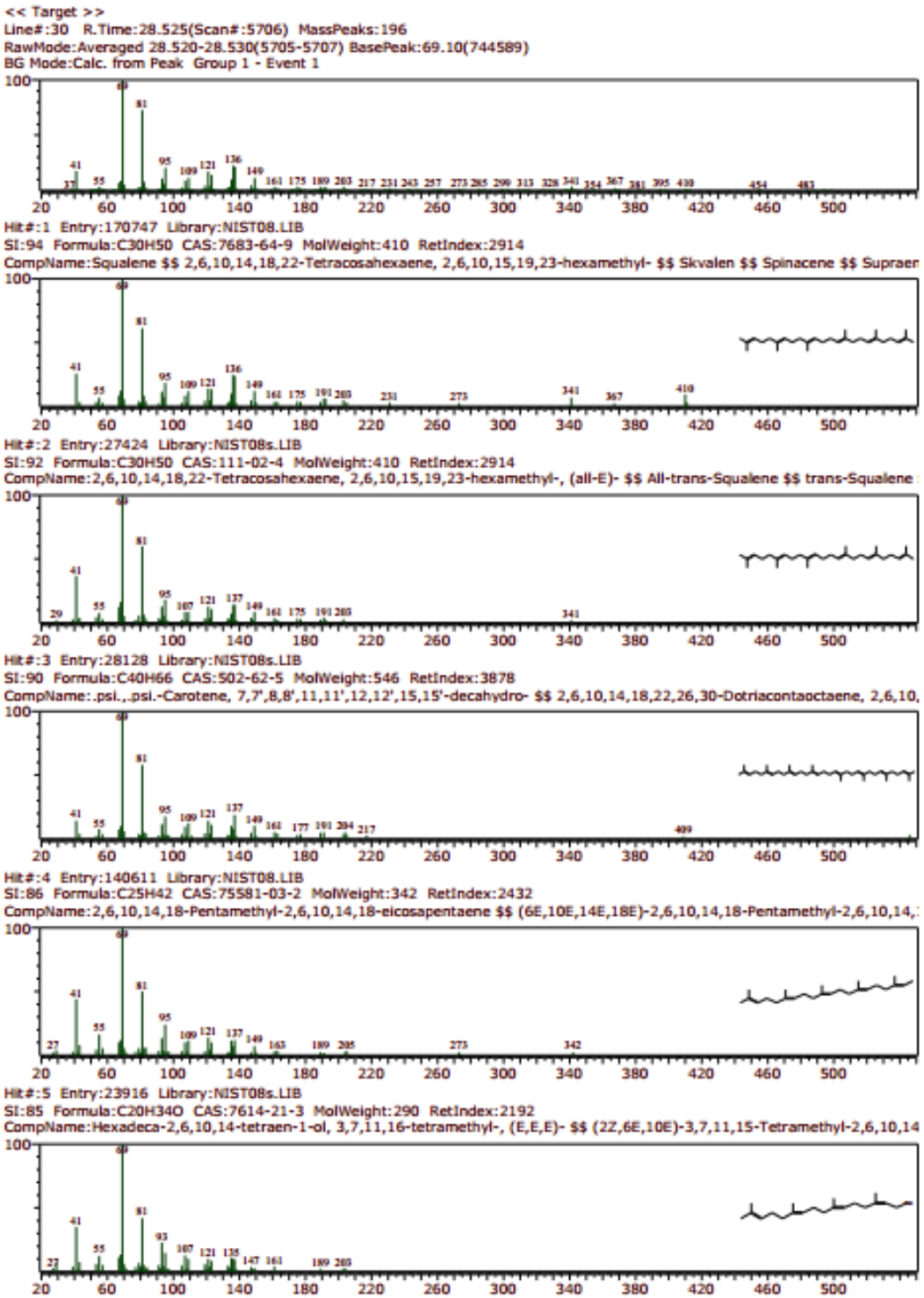
Lampiran 5. Spektrum massa *caryophyllene*



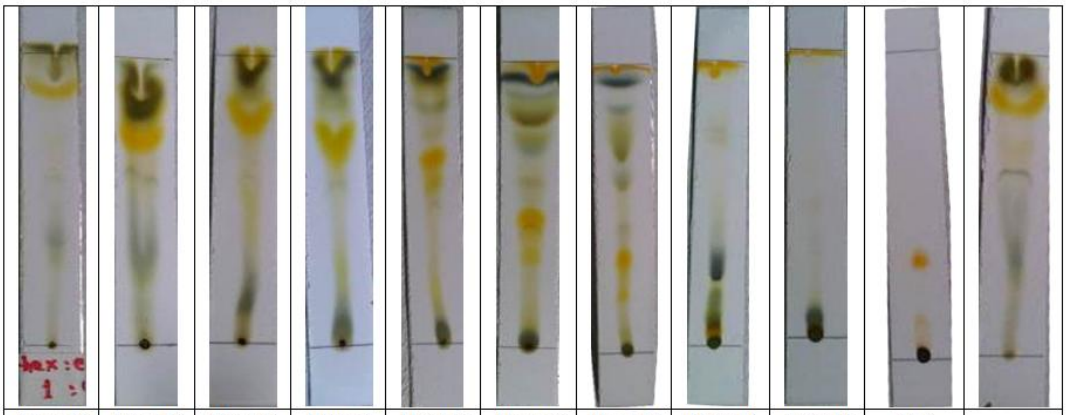
Lampiran 6. Spektrum massa *caryophyllene oxide*



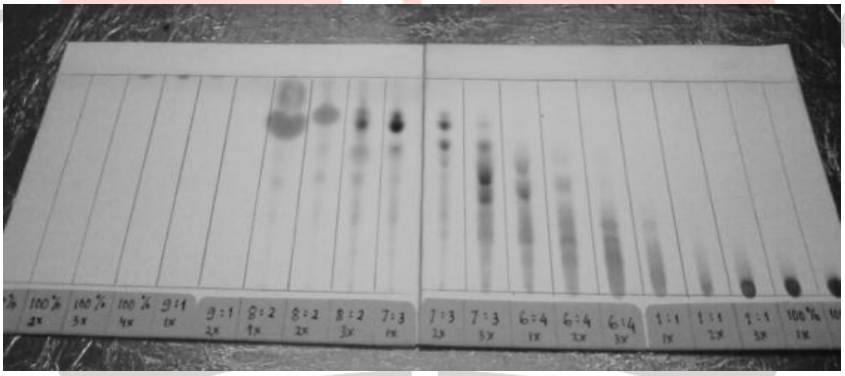
Lampiran 7. Spektrum massa *squalene*



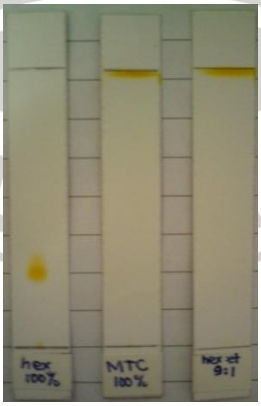
Lampiran 8. Pola kromatogram KLT



Kromatogram ekstrak AGF untuk penentuan eluen saat KCV



Kromatogram 20 fraksi hasil KCV



Kromatogram fraksi B menggunakan pelarut berbeda
(dari kiri ke kanan berturut turut
n-heksan 100% ; diklorometana 100% ; dan n-heksan : etil asetat 9:1)