



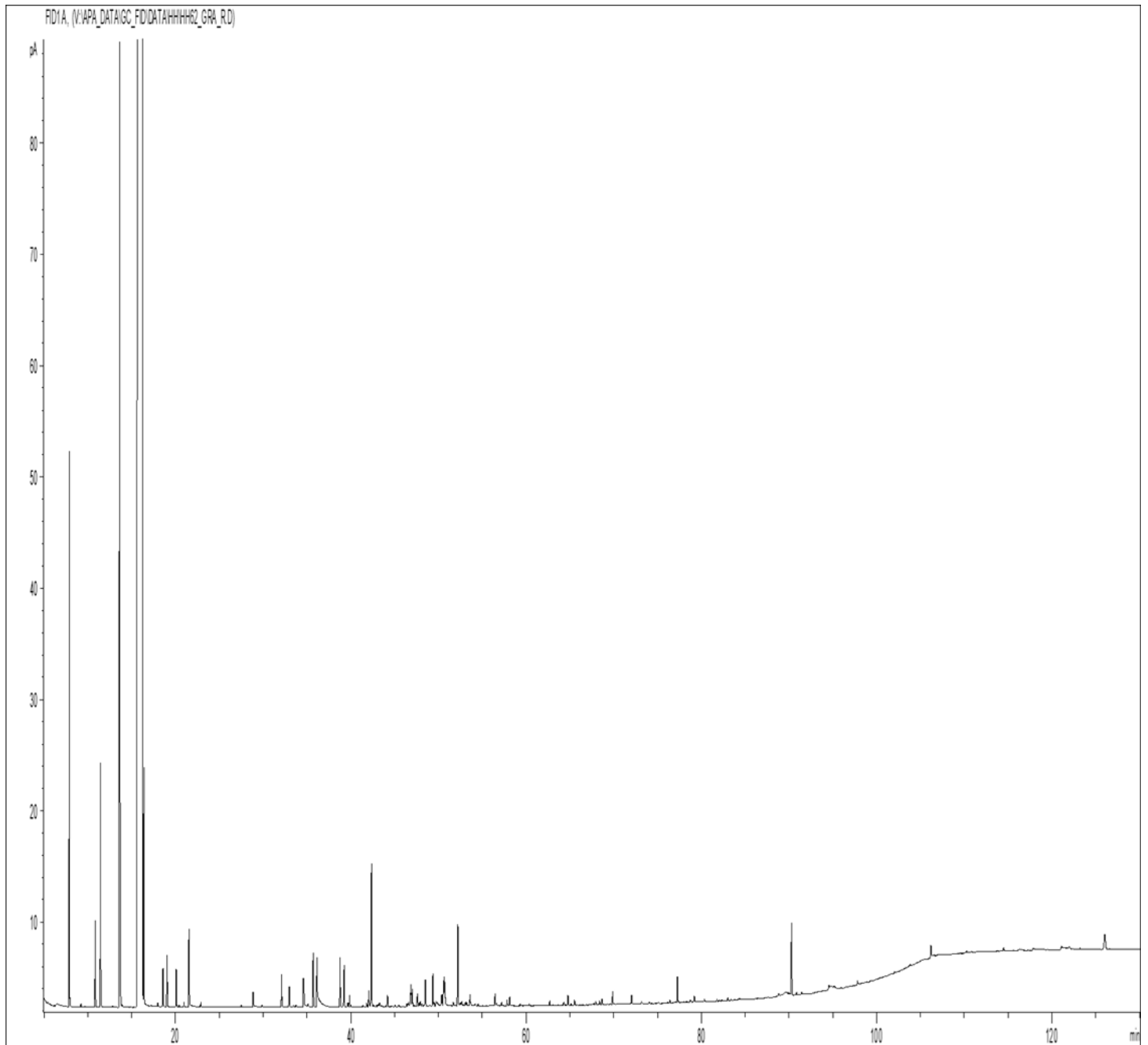
NEW DIRECTIONS AROMATICS

NATURAL INGREDIENTS ETHICALLY SOURCED

GCMS ANALYSIS

PRODUCT NAME: GRAPEFRUIT ESSENTIAL OIL (WHITE)

DATE: April 22, 2022



Due to volume turnover, this report is not lot specific, It is representative of the quality of this oil produced by the manufacturer of this product, Specific lots may vary slightly as is the case in natural products,



GCMS ANALYSIS (cont'd,)
PRODUCT NAME: GRAPEFRUIT ESSENTIAL OIL (WHITE)

Peak	RT (min)	Compound name	%
1	7,89	alpha-PINENE	0,59
2	10,85	beta-PINENE	0,13
3	11,46	SABINENE	0,37
4	13,66	beta-MYRCENE	1,93
5	13,74	alpha-PHELLANDRENE	0,02
6	16,22	LIMONENE	94,41
7	16,40	beta-PHELLANDRENE	0,28
8	18,59	gamma-TERPINENE	0,06
9	19,05	trans-beta-OCIMENE	0,08
10	20,10	p-CYMENE	0,06
11	21,55	OCTANAL	0,13
12	28,87	NONANAL	0,03
13	32,12	LIMONENE cis-1,2-EPOXIDE	0,06
14	33,00	LIMONENE trans-1,2-EPOXIDE	0,04
15	34,63	CITRONELLAL	0,03
16	34,69	OCTYL ACETATE	0,05
17	35,73	alpha-COPAENE	0,10
18	36,15	DECANAL	0,16
19	38,80	beta1-CUBEBENE	0,09
20	39,26	LINALOOL	0,07
21	39,88	1-OCTANOL	0,02
22	42,07	beta-ELEMENE	0,03
23	42,38	beta-CARYOPHYLLENE	0,26
24	44,21	trans-p-2,8-MENTHADIEN-1-OL	0,02
25	46,81	ALIPHATIC ALCOHOL	0,01
26	46,88	alpha-HUMULENE	0,04
27	47,03	E-beta-FARNESENE	0,03
28	47,63	NERAL	0,02
29	48,54	alpha-TERPINEOL	0,05
30	49,38	GERMACRENE D	0,06

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GCMS ANALYSIS (cont'd,)
PRODUCT NAME: GRAPEFRUIT ESSENTIAL OIL (WHITE)

Peak	RT (min)	Compound name	%
31	49,75	DODECANAL	0,01
32	50,41	alpha-MUUROLENE	0,02
33	50,60	NERYL ACETATE	0,05
34	50,71	GERANIAL	0,05
35	50,76	CARVONE	0,02
36	52,23	delta-CADINENE	0,10
37	52,31	GERANYL ACETATE	0,05
38	53,62	PERILLALDEHYDE	0,02
39	56,47	trans-CARVEOL	0,02
40	57,85	AROMATIC COMPOUND	0,01
41	58,15	cis-CARVEOL	0,02
42	64,80	CARYOPHYLLENE OXIDE	0,02
43	65,55	SESQUITERPENOL	0,01
44	68,70	CAPRYLIC ACID	0,01
45	69,90	ELEMOL	0,02
46	72,06	SPATHULENOL	0,02
47	77,30	beta-SINENSAL	0,05
48	79,22	CAPRIC ACID	0,01
49	90,32	NOOTKATONE	0,17
50	106,23	OSTHOLE	0,03
51	121,13	BERGAPTENE	0,01
52	126,05	AROMATIC COMPOUND	0,07
		TOTAL	100,00

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