

GC-MS/MS Sample Document

Customer name:	[REDACTED]		
Customer contact:	The Halal Science center, Chulalongkorn University		
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Sample detail:	Essential oil		
Sample appearance:	Clear liquid		
Sample quantity:	1		
Dilution solvent:	Dichloromethane	Concentration: 50 uL/mL	
Analytical mode:	☒ Qualitative:	☒ MS1 Scan range:	33-500m/z
	☐ Quantitative	☐ SIM	m/z _____
		☐ MRM	target ion _____
			qualifier ion _____

Instrument Specification:	
Instrument name:	Triple Quadrupole GC-MS/MS (GC-QQQ) Agilent Technologies
GC model:	Agilent 7890B GC system
MSD model:	Agilent 7000C GC/MS Triple Quad Ion source: EI
GC column:	☒ HP-5ms part no. 19091S-433UI (30 m × 0.25 mm, 0.25 µm) ☐ HP-INNOWAX part no. 19091N-133 (30 m × 0.25 mm, 0.25 µm)
Inlet	Split/Splitless, Static Headspace
Headspace Model:	7697A Static headspace sampler Agilent Technologies
Autosampler:	Agilent 7633 ALS
Acquisition software:	MassHunter Workstation GC/MS Data Acquisition Version 10.1.49, 2020
Data processing software:	MassHunter Workstation Qualitative analysis Version 10.0, 2018
Library:	NIST2020

GC-QQQ Parameters:					
Injection:		Oven:	°C/min	°C	Hold (min)
Injector volume:	0.5 µL	Initial		50	3
Inlet mode:	☒ Split, Split ratio: 75:1 ☐ Splitless ☐ Headspace	Ramp1	2.5	150	0
Inlet temperature:	250°C	Ramp2	10	280	5
Column:		Ramp3			
He Carrier flow rate:	1.0 mL/min	Ramp4			
Average velocity:	36.445 cm/sec	total			61
Mode:	☒ Constant flow: 1.0 mL/min ☐ Constant Pressure: _____ psi	Post run at 300°C (2 mL/min) for 5 min			
MSD:		Additional Information:			
Solvent delay:	3 min	Method: 20260701_Ess oil_Acharee_HALAL_			
m/z Scan range:	33-500	HP-5ms.m			
Transfer line temp (Aux Heater):	280°C	Data: SP.d, n-alkane.d			
EI Source temp:	230°C				
EI Voltage:	70 eV				