

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
 Data File : VL043196.D
 Acq On : 13 Nov 2025 13:04
 Operator : SY/MD
 Sample : Q3627-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 UNIT-8-IA-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2025
 Supervised By :Mahesh Dadoda 11/18/2025

Quant Time: Nov 14 04:39:02 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	143373	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	385279	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	320935	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	248695	9.970	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	8053	0.395	ppbv	96
4) Chloromethane	1.535	50	3885	0.481	ppbv	95
9) Propene	1.486	41	6695	0.685	ppbv	95
11) Trichlorofluoromethane	1.881	101	5677	0.285	ppbv	94
13) Ethanol	1.725	45	84748	23.425	ppbv	98
15) Acetone	1.839	43	83838	4.338	ppbv	97
19) Isopropyl Alcohol	1.887	45	462070	38.391	ppbv #	37
20) Methylene Chloride	2.065	84	4676	0.612	ppbv	94
26) Hexane	2.829	57	41872	1.896	ppbv #	49
29) Chloroform	2.852	83	3412	0.107	ppbv	99
34) 2-Butanone	2.567	43	10888	0.420	ppbv	92
35) Carbon Tetrachloride	3.777	117	2849m	0.103	ppbv	
36) Benzene	3.661	78	5966	0.164	ppbv	96
50) 4-Methyl-2-Pentanone	5.771	43	8320m	0.233	ppbv	
53) Toluene	6.940	91	10369m	0.241	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

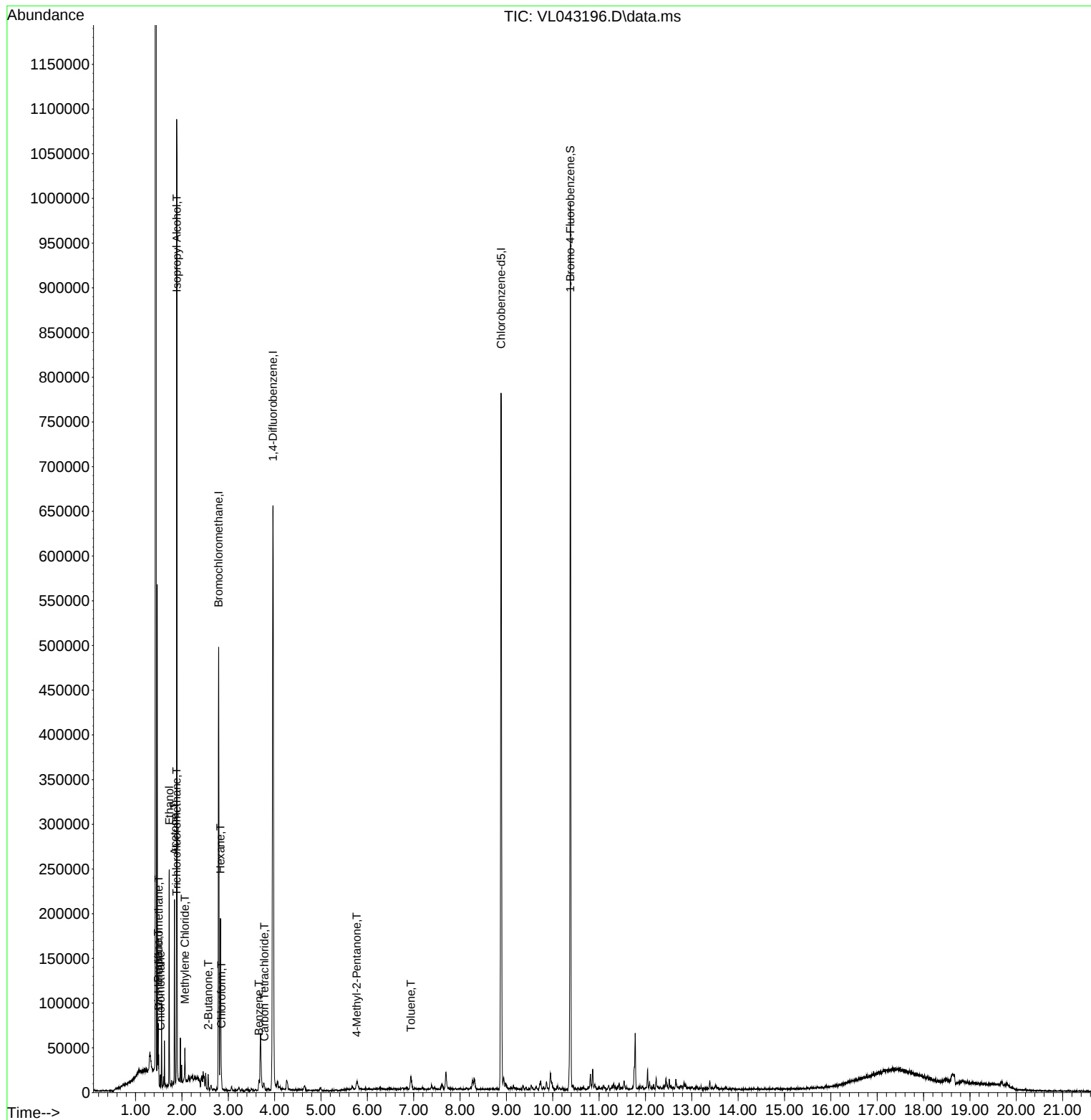
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043196.D
Acq On : 13 Nov 2025 13:04
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Sample : Q3627-01
Misc : 400mL/MSVOA_L
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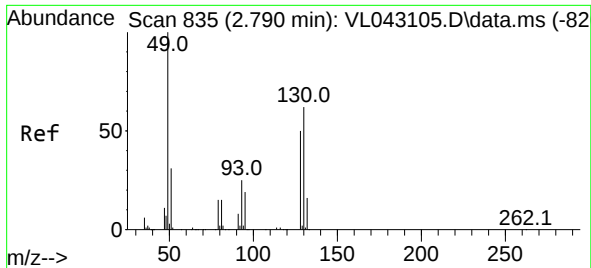
Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Quant Time: Nov 14 04:39:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Manual Integrations
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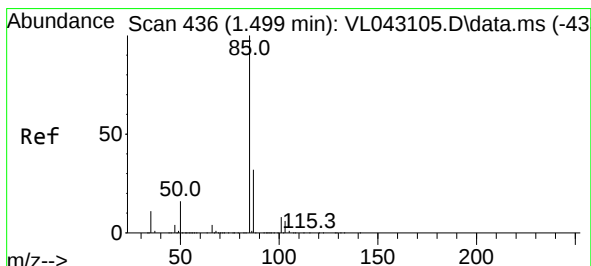
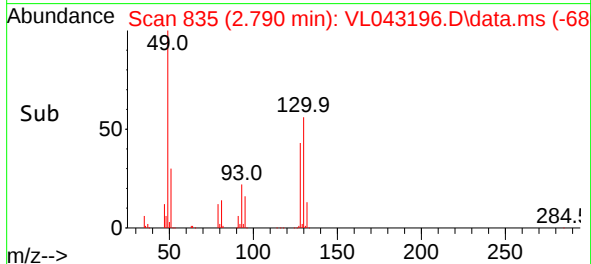
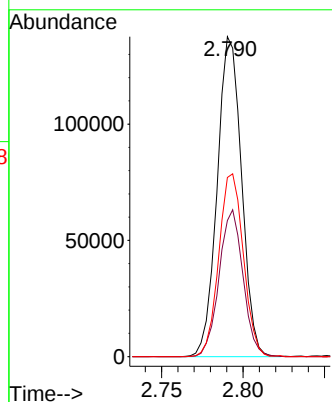
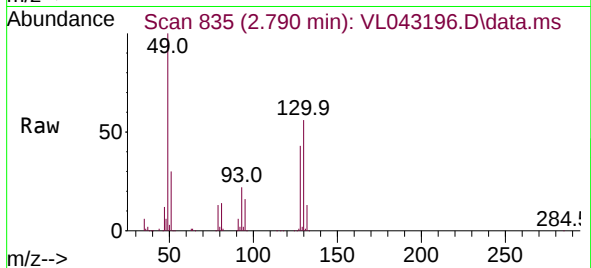
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion: 49 Resp: 143373
Ion Ratio Lower Upper
49 100
128 45.0 24.4 73.4
130 57.7 31.0 93.0

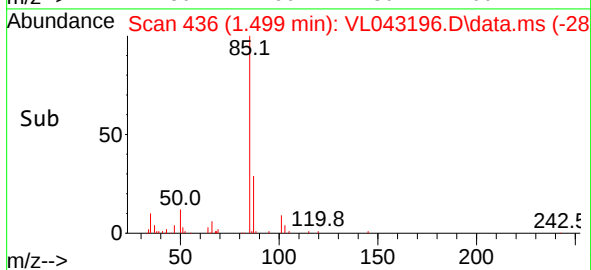
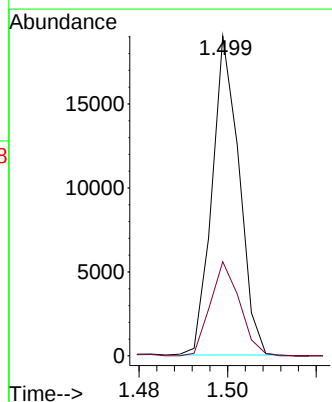
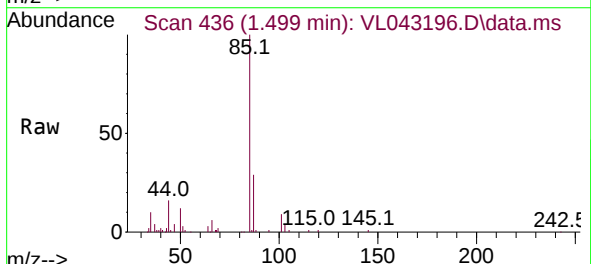
Manual Integrations
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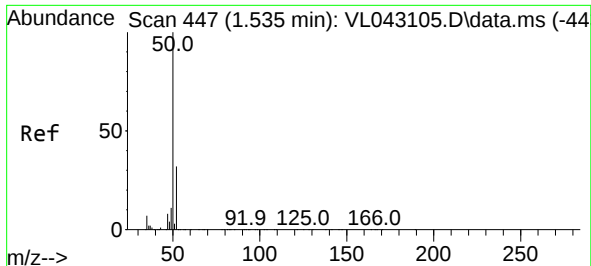
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#2
Dichlorodifluoromethane
Concen: 0.395 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 85 Resp: 8053
Ion Ratio Lower Upper
85 100
87 29.5 25.3 37.9





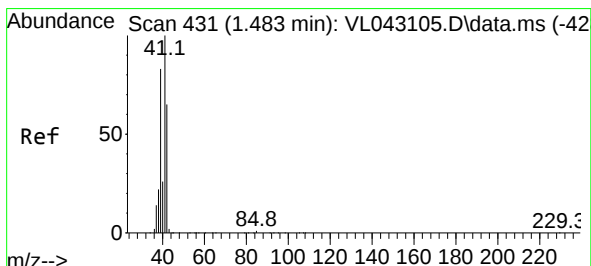
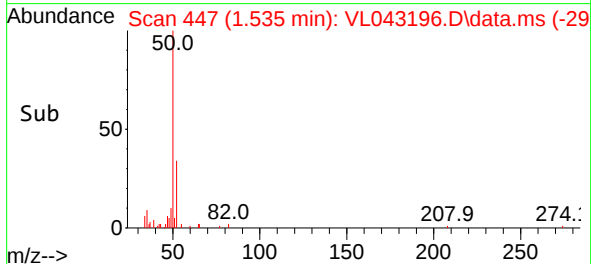
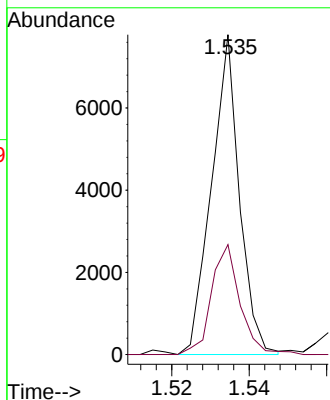
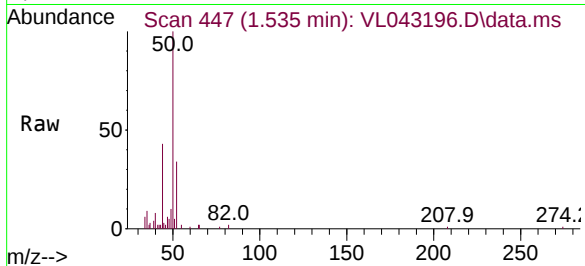
#4
Chloromethane
Concen: 0.481 ppbv
RT: 1.535 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion: 50 Resp: 3885
Ion Ratio Lower Upper
50 100
52 34.4 25.2 37.8

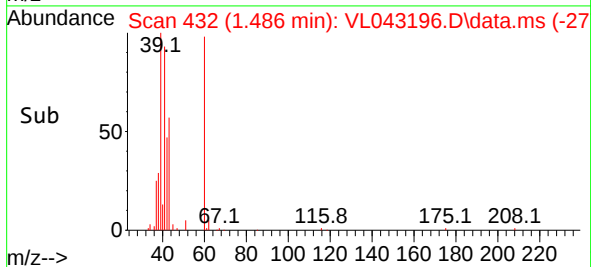
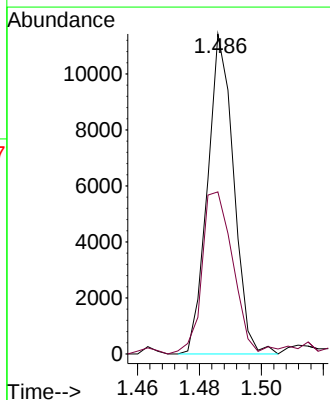
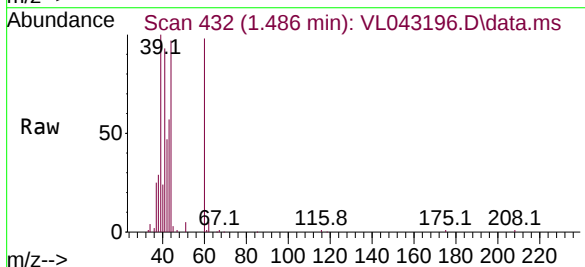
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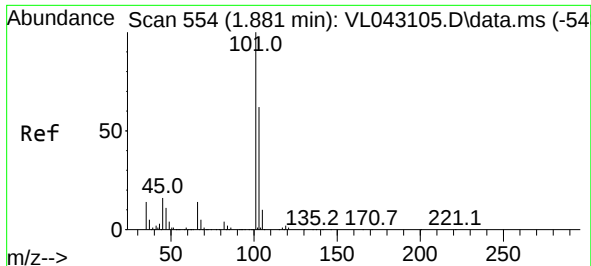
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#9
Propene
Concen: 0.685 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 41 Resp: 6695
Ion Ratio Lower Upper
41 100
42 64.7 55.1 82.7





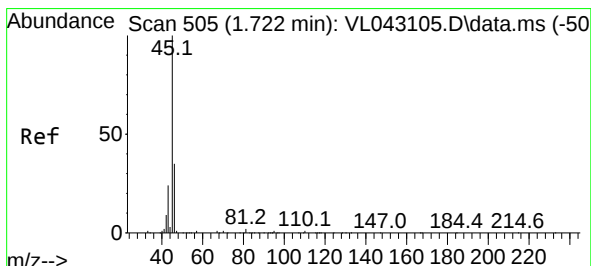
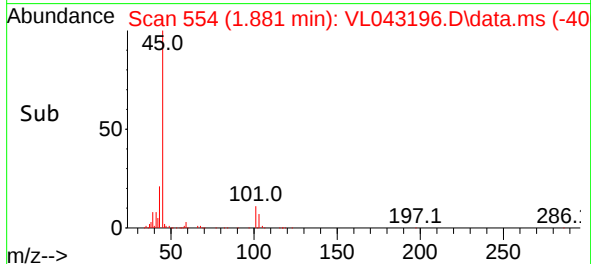
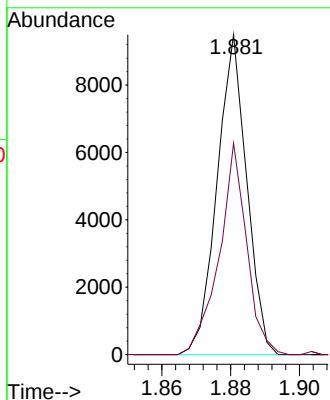
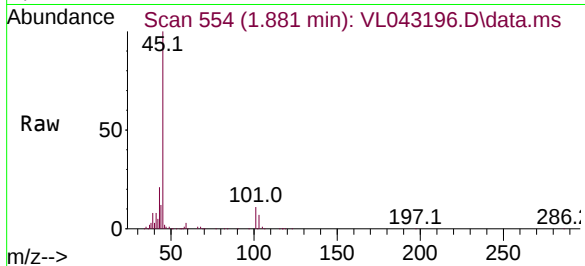
#11
Trichlorofluoromethane
Concen: 0.285 ppbv
RT: 1.881 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1

Tgt Ion:101 Resp: 5672
Ion Ratio Lower Upper
101 100
103 66.1 49.3 73.9

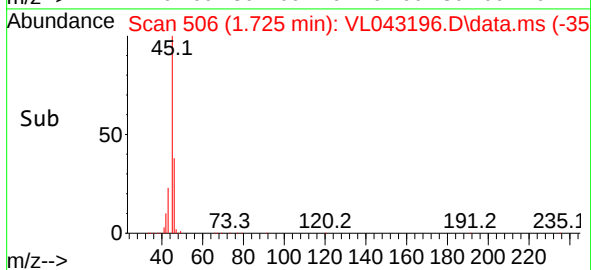
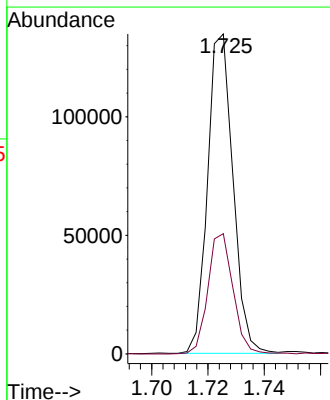
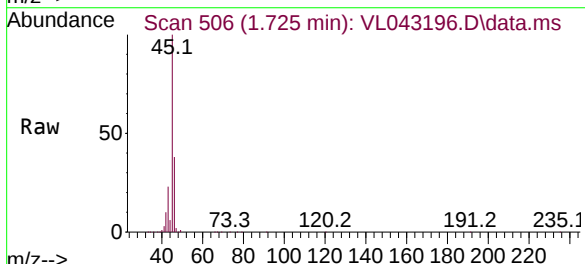
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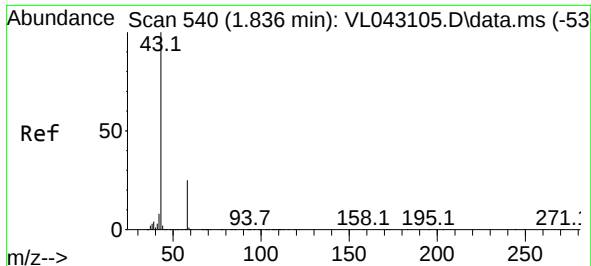
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#13
Ethanol
Concen: 23.425 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.003 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

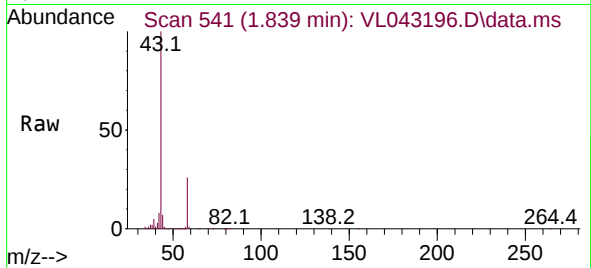
Tgt Ion: 45 Resp: 84748
Ion Ratio Lower Upper
45 100
46 37.8 14.7 58.9





#15
Acetone
Concen: 4.338 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

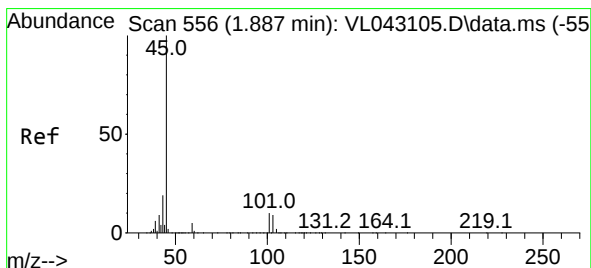
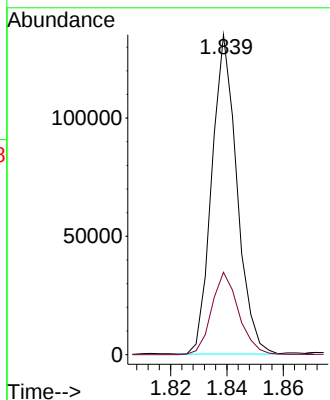
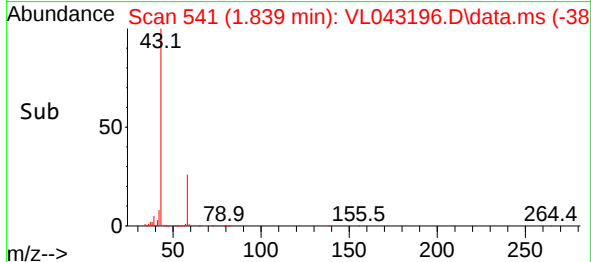
Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1



Tgt Ion: 43 Resp: 83838
Ion Ratio Lower Upper
43 100
58 27.8 20.8 31.2

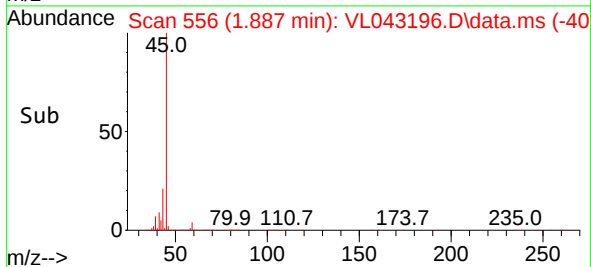
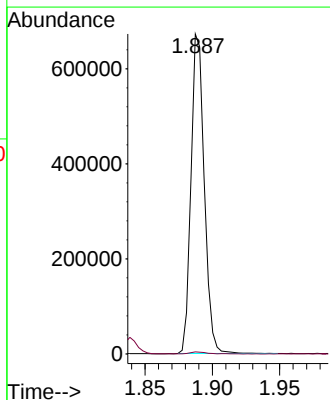
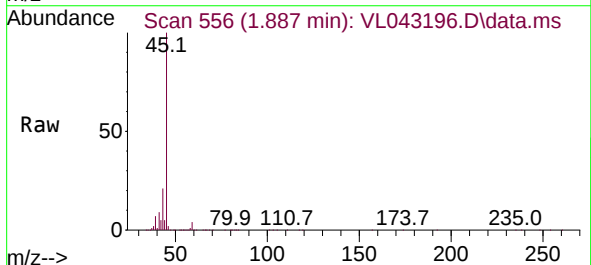
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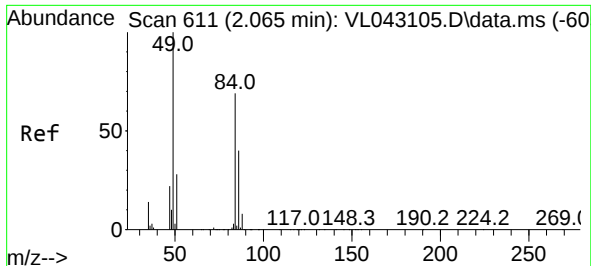
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#19
Isopropyl Alcohol
Concen: 38.391 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

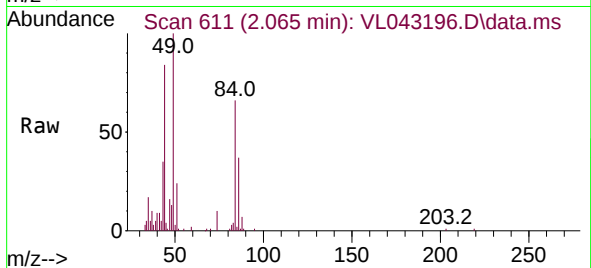
Tgt Ion: 45 Resp: 462070
Ion Ratio Lower Upper
45 100
58 0.7 31.3 46.9#





#20
Methylene Chloride
Concen: 0.612 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

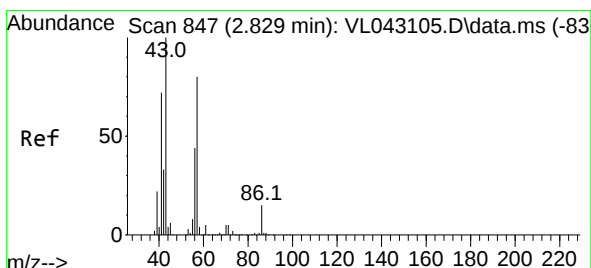
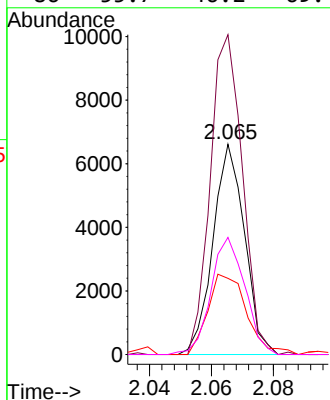
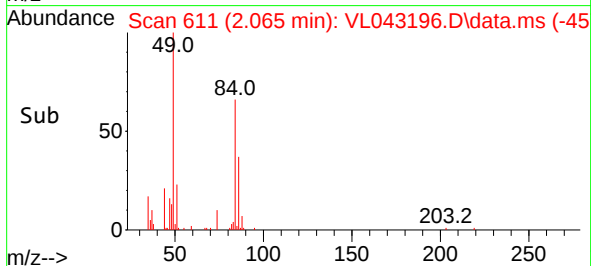
Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1



Tgt Ion: 84	Resp: 467
Ion Ratio	Lower Upper
84 100	
49 152.1	116.6 175.0
51 36.3	34.8 52.2
86 55.7	46.2 69.4

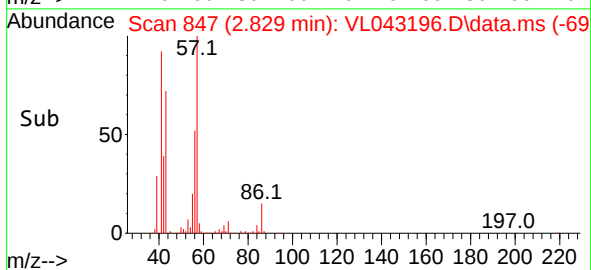
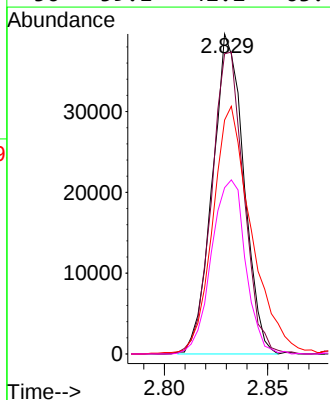
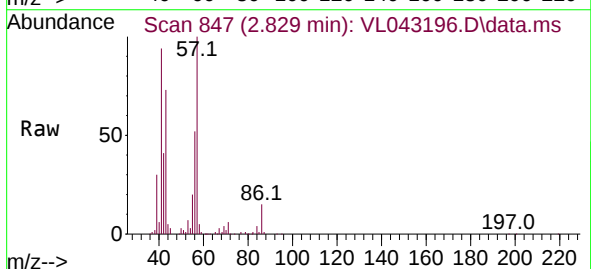
Manual Integrations
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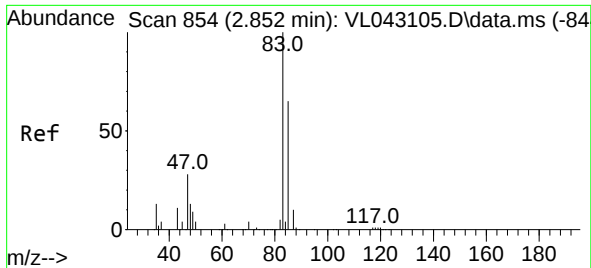
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#26
Hexane
Concen: 1.896 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

Tgt Ion: 57	Resp: 41872
Ion Ratio	Lower Upper
57 100	
41 96.5	71.4 107.0
43 95.6	178.5 267.7#
56 59.1	42.2 63.4





#29

Chloroform

Concen: 0.107 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL043196.D

Acq: 13 Nov 2025 13:04

Instrument :

MSVOA_L

ClientSampleId :

UNIT-8-IA-1

Tgt Ion: 83 Resp: 3412

Ion Ratio Lower Upper

83 100

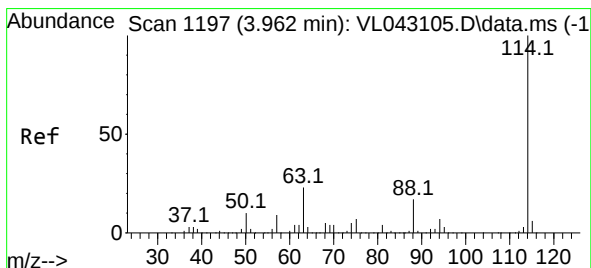
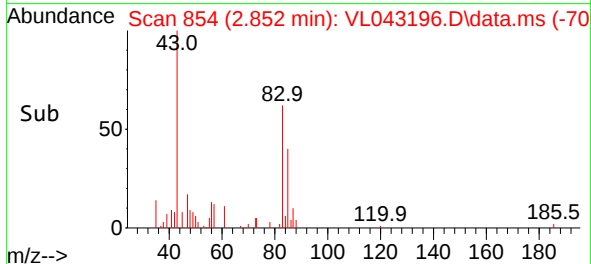
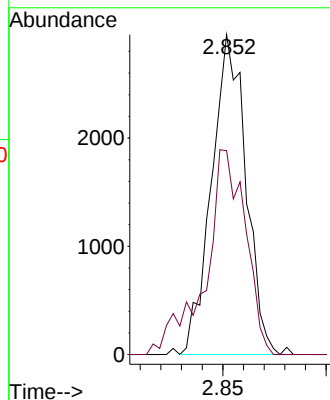
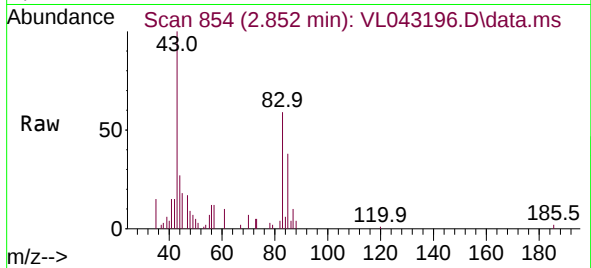
85 63.7 51.8 77.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/17/2025

Supervised By :Mahesh Dadoda 11/18/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.003 min

Lab File: VL043196.D

Acq: 13 Nov 2025 13:04

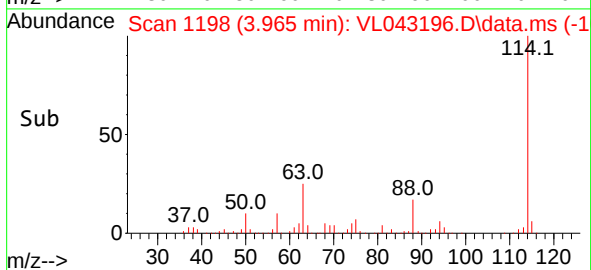
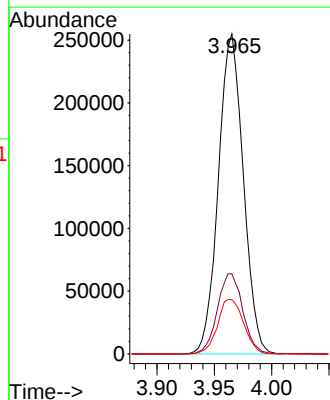
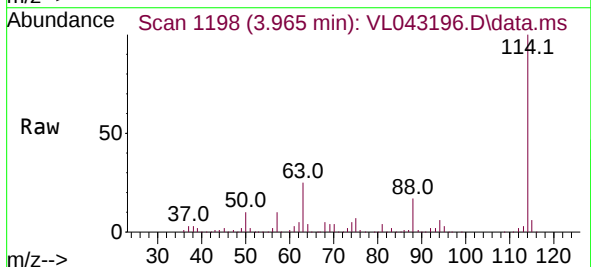
Tgt Ion:114 Resp: 385279

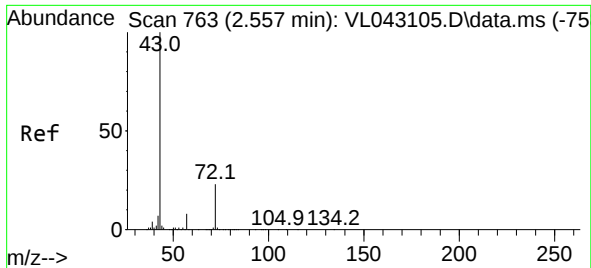
Ion Ratio Lower Upper

114 100

63 25.5 19.3 28.9

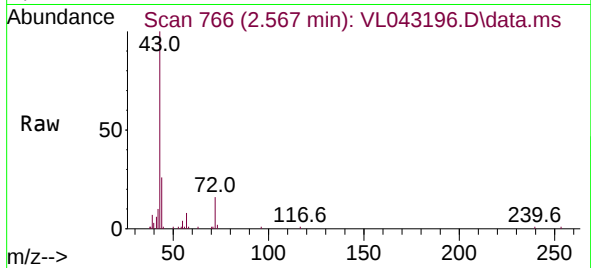
88 17.8 13.9 20.9





#34
2-Butanone
Concen: 0.420 ppbv
RT: 2.567 min Scan# 70
Delta R.T. 0.010 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

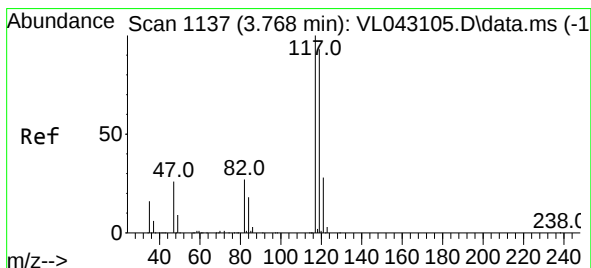
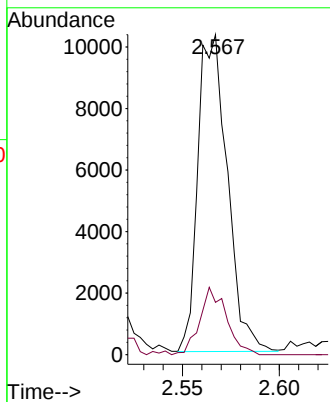
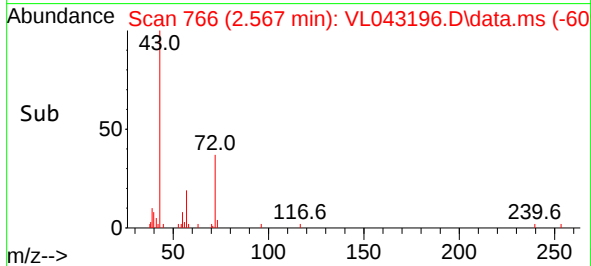
Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1



Tgt Ion: 43 Resp: 1088
Ion Ratio Lower Upper
43 100
72 19.2 18.4 27.6

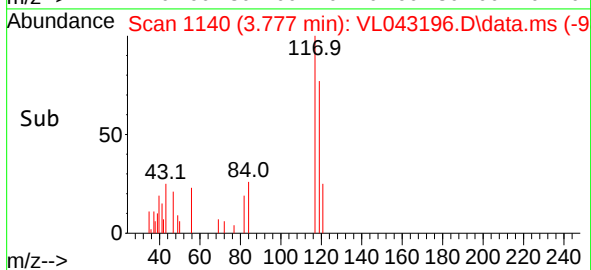
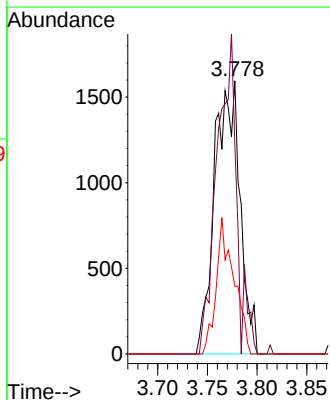
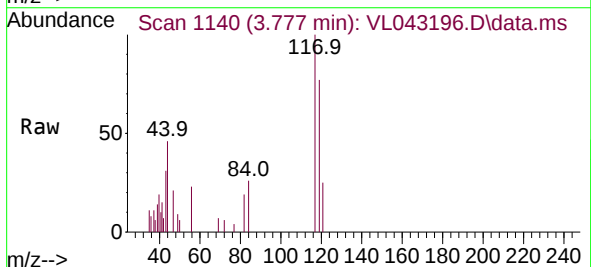
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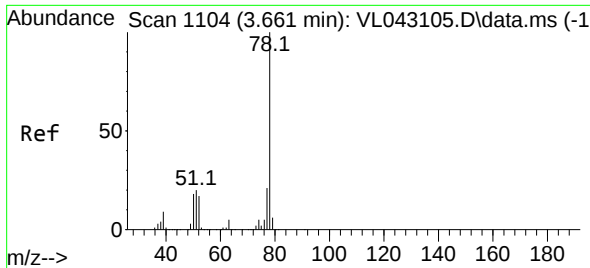
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#35
Carbon Tetrachloride
Concen: 0.103 ppbv m
RT: 3.777 min Scan# 1140
Delta R.T. 0.010 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

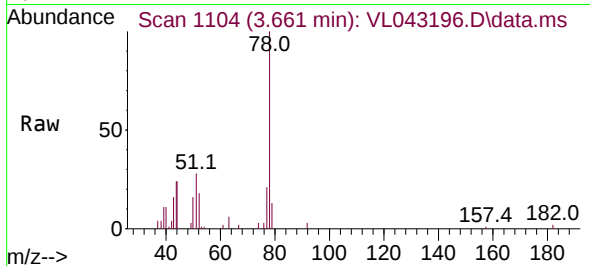
Tgt Ion:117 Resp: 2849
Ion Ratio Lower Upper
117 100
119 76.5 74.1 111.1
121 24.7 22.2 33.2





#36
Benzene
Concen: 0.164 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

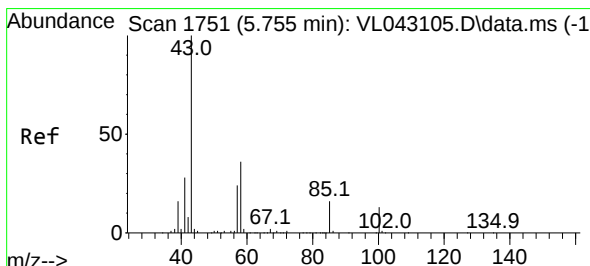
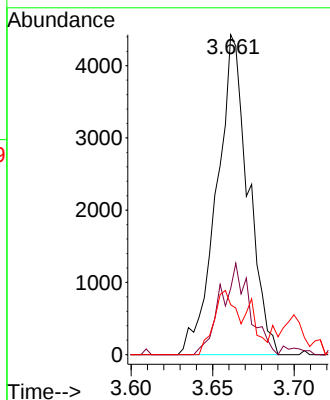
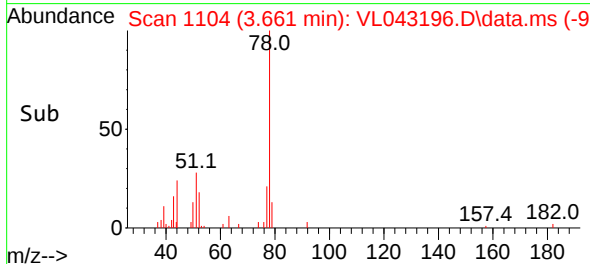
Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1



Tgt Ion: 78 Resp: 5966
Ion Ratio Lower Upper
78 100
77 20.6 17.0 25.6
50 15.6 14.6 22.0

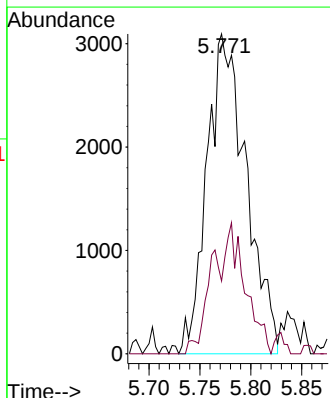
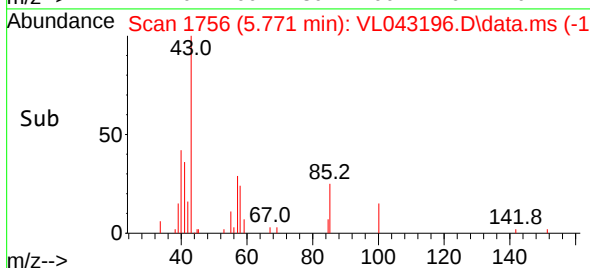
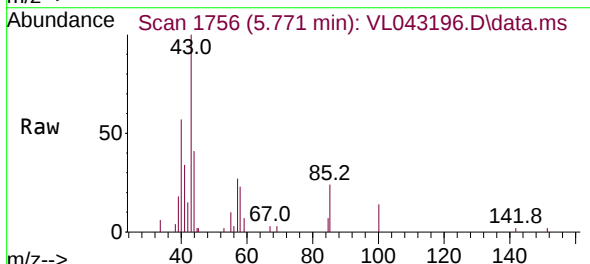
Manual Integrations
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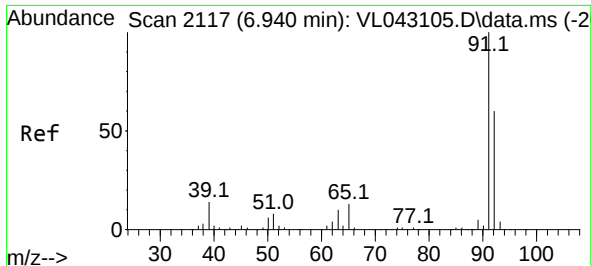
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#50
4-Methyl-2-Pentanone
Concen: 0.233 ppbv m
RT: 5.771 min Scan# 1756
Delta R.T. 0.016 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

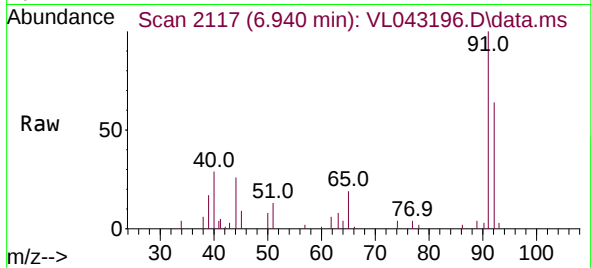
Tgt Ion: 43 Resp: 8320
Ion Ratio Lower Upper
43 100
58 0.0 29.1 43.7#





#53
Toluene
Concen: 0.241 ppbv m
RT: 6.940 min Scan# 2117
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

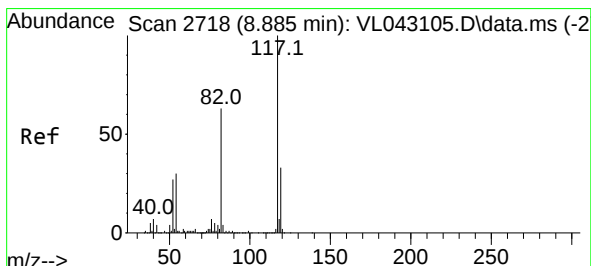
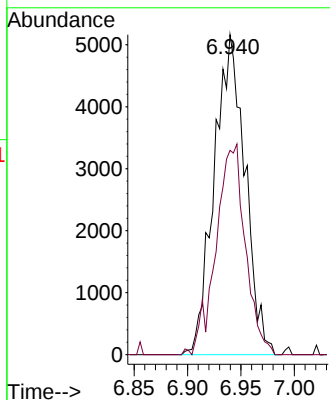
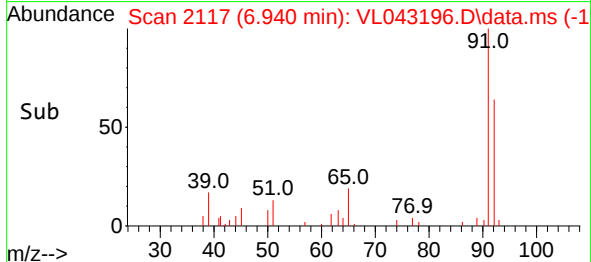
Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-IA-1



Tgt Ion: 91 Resp: 10369
Ion Ratio Lower Upper
91 100
92 62.5 48.8 73.2

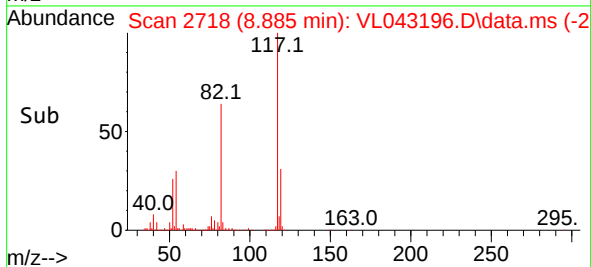
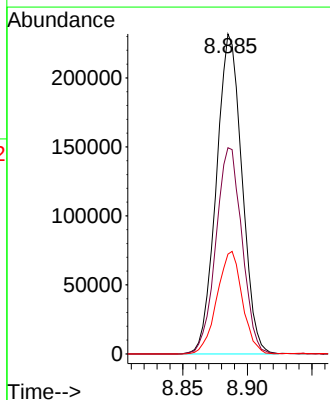
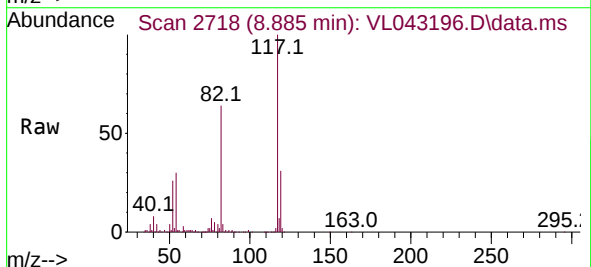
Manual Integrations
APPROVED

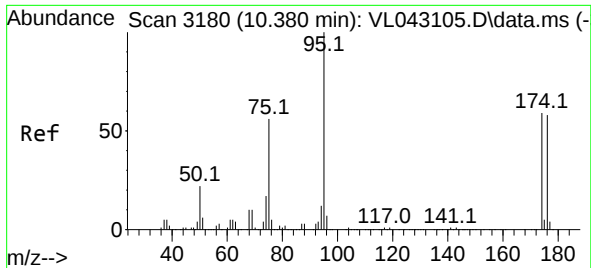
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.000 min
Lab File: VL043196.D
Acq: 13 Nov 2025 13:04

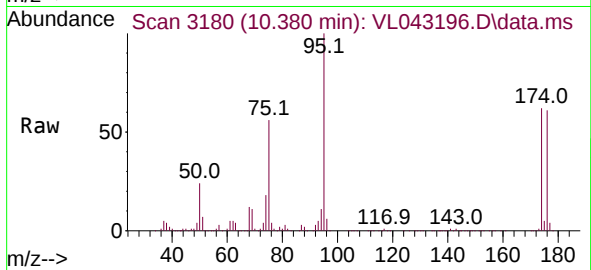
Tgt Ion:117 Resp: 320935
Ion Ratio Lower Upper
117 100
82 65.6 53.8 80.8
119 31.8 25.4 38.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.970 ppbv
 RT: 10.380 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VL043196.D
 Acq: 13 Nov 2025 13:04

Instrument :
 MSVOA_L
 ClientSampleId :
 UNIT-8-IA-1



Tgt Ion: 95 Resp: 248695
 Ion Ratio Lower Upper
 95 100
 174 63.9 48.3 72.5
 175 4.8 3.8 5.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2025
 Supervised By :Mahesh Dadoda 11/18/2025

